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Groundwater Sampling Report (November 2018 Sampling Event) ServAll Laundry Site Site #1-52-077 Work Assignment No. D007626-17.2

Final

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1.0 Introduction

AECOM Technical Services Northeast, Inc. (AECOM) has prepared this Groundwater Monitoring Report for the ServAll Laundry Site (Site) in Bay Shore, New York (Site No. 1-52-077). This work was performed for the New York State Department of Environmental Conservation (NYSDEC) under Work Assignment D007626-17.2. Previous long-term monitoring was performed under Work Assignment D004445-14. As part of the long-term monitoring plan for the Site, groundwater samples are collected from selected monitoring wells once every five quarters. This groundwater monitoring report provides the results of the groundwater sampling data collected in November 2018.

To date, eleven sampling events have been conducted under AECOM's long-term monitoring work assignments:

- The first round of samples (Round 1) was collected in June 2006.
- An abbreviated round of groundwater sampling (Round 1A) was conducted in April 2007 to confirm the concentration of tetrachloroethene (PCE) detected in monitoring well MW-6A; samples were collected from monitoring wells MW-4, MW-5, MW-6A and MW-6B.
- The second full round of samples (Round 2) was collected in August 2007.
- The third full round of samples (Round 3) was collected in November 2008.
- The fourth round of samples (Round 4) was collected in February 2010.
- The fifth round of samples (Round 5) was collected in May 2011.
- The sixth round of samples (Round 6) was collected in August 2012.
- The seventh round of samples (Round 7) was collected in November 2013.
- The eighth round of samples (Round 8) was collected in March 2015.
- The ninth round of samples (Round 9) was collected in May 2016.
- The tenth round of samples (Round 10) was collected in September 2017.
- The eleventh round of samples (Round 11) was conducted in November 2018.

2.0 Background Information

2.1 Site Description

The Site is located at 8 Drayton Avenue in Bay Shore, Suffolk County, New York (Figure 1) in a mixed use industrial/residential area. The ServAll Laundry facility was located on a 20,000 square foot property. The ServAll Uniform Rental, Inc. operated as a commercial laundry from 1969 to 1972, and as dry cleaner/laundry from 1972 to 1984. During this time, unknown quantities of wash water overflow containing PCE and heavy metals were pumped to, and occasionally overflowed from, on-Site cesspools.

2.2 Site History

In 1978, the Suffolk County Department of Health Services (SCDHS) conducted an on-Site sampling of cesspools and storm drains. Results from some of the samples showed detections of tetrachloroethene (PCE), trichloroethene (TCE), vinyl chloride, chloroform, methylbenzenes, and a number of Target Analyte List (TAL) metals. ServAll Uniform cleaned the on-Site storm drains and an unknown number of cesspools in 1981 removing sludge and contaminated water.

In 1983, SCDHS performed a groundwater investigation and identified a volatile organics plume southeast of the Site. The plume was found to extend 0.3 miles upgradient from the Suffolk County Water Authority (SCWA) Thomas Avenue Wellfield (located 1 mile south of the Site). The Thomas Avenue Wellfield is located off Thomas Avenue, near the Bay Shore Middle School and northwest of MW-11 (see Figure 2).

A State-funded remedial investigation/feasibility study (RI/FS) was completed at the Site, in which field work was completed from November 1990 through December 1991. The results of the investigation were documented in the final report dated January 1992 (E.C. Jordan Co.). The RI/ FS confirmed the presence of volatile organic compounds (VOCs) in groundwater, delineated the groundwater plume, and quantified on-Site contamination.

The plume is located in the Upper Glacial Aquifer, which consists of coarsely stratified, fine to medium sand with trace amounts of gravel, cobbles, coarse sand, and silt. The aquifer ranges in thickness from 120 feet at the Site to 86 feet 1.5 miles downgradient of the Site. Groundwater flows to the southeast towards Penataquit Creek at about 910 feet per year (ft/year). The RI concluded that the plume appeared to be moving at approximately 443 to 484 ft/year from 1974 to 1988, and 355 ft/year since 1988 (E.C. Jordan, October 1991).

A Record of Decision (ROD) was issued by the NYSDEC for the Site on March 31, 1992. The remedy presented in the ROD was in-situ source soil treatment/source area groundwater extraction. The

ROD stated that treatment of the entire plume emanating from the Site was not found to be practical, and therefore, the selected remedy would not satisfy the statutory preference for complete treatment as a principal element. Determination of the ultimate fate of the untreated portion of the plume was determined by the ROD directed discharge study (ABB Environmental Services, December 1995), which was conducted on the leading edge (hydraulically downgradient) of the plume.

The ROD specified source removal work consisting of a soil vapor extraction (SVE) system. The SVE system was in operation from the Spring of 1996 to the Spring of 1998. The groundwater pump and treat remedial system operated from March 1998 through November 2001. The operation of the remedial system was terminated in November 2001 when NYSDEC determined further operations were not necessary as stated in a letter dated October 18, 2001 from NYSDEC to Earth Tech.

2.3 Deviations from the Site Management Plan

There were no deviations from the Site Management Plan (SMP, AECOM, 2015) during this round of sampling. The field crew was unable to locate MW-2; the area appears to have been paved over (Appendix A).

The field sampling crew misidentified MW-6A and MW-6B. This error was noted in the laboratory data where MW-6A (shallow well) has historically had much higher concentrations of PCE compared to MW-6B (deep well). The discrepancy was confirmed in the purge forms where the measured depth to bottom was recorded. Lab data for MW-6A and MW-6B have been switched to the correct well.

3.0 Field Activities

The eleventh sampling event occurred November 5 through 8, 2018. Sampling was conducted in accordance with the SMP prepared by AECOM, dated July 2015 (revision 1). All field work was performed in Level D personnel protection. Sampling activities were conducted by Yu & Associates, a subconsultant of AECOM.

3.1 Water Level Survey

Prior to the start of the November 2018 groundwater sampling event, water table measurements were collected from the 14 monitoring wells included in the sampling event. A summary of well data is included on Table 1. Water level measurements were recorded on the NYSDEC Monitoring Well Field Inspection Forms in Appendix A. A summary of groundwater elevations in selected monitoring wells is presented in Table 2. A groundwater contour map was prepared using data from the November 2018 sampling event and is presented in Figure 3. As shown on the map, groundwater flow is to the south-southeast. A groundwater hydrograph is shown on Figure 4. The hydraulic gradient was calculated for the Site. North of the Southern State Parkway (near the Site), the gradient is approximately 0.0011. At the southern end of the study area (near the Sunrise Highway), the gradient increases to approximately 0.0036. The gradient across the entire study area is 0.0027. These numbers represent fairly shallow gradients.

E.C Jordan (RI/FS Report, 1992) calculated the flow rate at the Site at 2.5 ft/day or 910 ft/year using the following equation:

$$flow\ rate\ = \frac{\mathrm{K\ (hydaulic\ gradient)}}{n}$$

Where K is the hydraulic conductivity (9.0 x 10^{-2} cm/sec or 255 ft/day and *n* = porosity, 0.30). E.C. Jordan measured the hydraulic gradient at 0.003, yielding a flow rate of 2.5 ft/day or 910 ft/year.

Using the same values for K and *n*, the estimated flow rate for the Site in November 2018 was:

Hydraulic gradient of 0.0011 (northern area) = 0.935 ft/day or 341 ft/year

Hydraulic gradient of 0.0036 (southern) = 3.06 ft/day or 1,117 ft/year

Hydraulic gradient of 0.0027 (study area) = 2.30 ft/day or 838 ft/year

3.2 November 2018 Groundwater Sampling Event

Fourteen monitoring wells were identified for long-term monitoring at the Site. The selected wells included MW-2, MW-3A, MW-3B, MW-4, MW-5, MW-6A, MW-6B, MW-11, MW-12, MW-13, MW-14, MW-16, MW-23S and MW-23D. Each location was photo-documented and a hand-held GPS unit was used to record the coordinates. MW-2 could not be located in the new landscaping/parking lot. MW-1 was included in this sampling round as MW-2 could not be sampled.

In accordance with the SMP, the monitoring wells were purged and sampled using low flow sampling techniques. A QED bladder pump with Teflon discharge tubing was used to purge each monitoring well. The flow rate was typically set between 300 and 500 milliliters per minute. Measurements of pH, specific conductance, temperature, oxidation reduction potential, and turbidity were recorded on the Well Sampling Forms during purging at five minute intervals. Well Sampling Forms are provided in Appendix B. A NYSDEC Monitoring Well Field Inspection Log was also completed for each well sampled and is included in Appendix A. The sample was carefully poured into laboratory supplied containers and placed in an ice-filled cooler. The samples were then transported to Hampton-Clarke Veritech via their courier. Proper chain-of-custody procedures and requirements were maintained throughout the sampling event in accordance with the SMP.

3.3 Site Inspection

In accordance with the SMP, the Site was inspected the week of November 8, 2018 as part of the 5-quarterly sampling event. The Site inspection form is included in Appendix C. The Site is in general disrepair. There is evidence of unauthorized entry into the Site building. The padlock on the side door of the building is missing. The rollup door on the front of the building appears secure. The tenants next door reported observing people entering the ServAll building. Vegetation growth in the back of the building is overgrown and the fence along the back property line is damaged.

4.0 Sampling Results

Groundwater samples were analyzed by Hampton-Clarke Veritech of Fairfield, New Jersey. Samples were analyzed for VOCs using SW-846 Method 8260C. Data packages consisted of a New York State Analytical Services Protocol (NYS ASP) Category A deliverable. As this is a long-term monitoring project, the data were not validated. An AECOM chemist provided a limited review of the data packages for completeness and readily apparent anomalies (see Section 4.2, below). The laboratory Data Summary Packages are in Appendix D. As noted in Section 2.3, the laboratory data for MW-6A and MW-6B have been switched on the tables and figures based on the recorded depth to bottom on the NYSDEC Monitoring Well Field Inspection Logs.

A summary of the VOC exceedances is presented on Figure 5. The sampling results are described below in Sections 4.1 and 4.2.

4.1 Volatile Organic Compounds

VOC data for the eleven long-term sampling events are summarized in Table 3. VOCs exceedances are shown on Figure 5. During the eleven sampling events conducted to date, 17 target compound list VOCs have been detected in the long-term monitoring wells. Of these 17 compounds, only nine have equaled or exceeded their Class GA criterion (vinyl chloride, acetone, benzene, methyl tert-butyl ether [MTBE], cis-1,2-dichloroethene [DCE], 1,1,1-trichloroethane, TCE, PCE, and toluene). Of these nine compounds, only four, cis-1,2- DCE, TCE and PCE, have been detected three or more times in any one monitoring well. cis-1,2- DCE, TCE and PCE, as well as 1,1-DCE, 1,1-dichloroethane [DCA] and vinyl chloride, are listed as compounds of concern (COCs) in the ROD (NYSDEC, 1992). MTBE is not a COC. Summaries of detections for these three compounds are presented in Figure 6 (PCE), Figure 7 (TCE) and Figure 8 (cis-1,2-DCE). On each of these three figures, monitoring wells were selected based on the presence of the COC at or above its criterion. As shown on Figure 6, PCE has been detected in nine monitoring wells at or above the 5 microgram per liter (µg/L) criterion. TCE concentrations have only exceeded the 5 µg/L criterion in five monitoring wells as shown on Figure 7. Cis-1,2-DCE concentrations have only exceeded the 5 µg/L criterion in six monitoring wells as shown on Figure 8. 1,1-DCE and 1,1-DCA have not been detected above the criterion in any monitoring well during the long-term sampling (2006 through 2018). Vinyl chloride was detected above its criterion (2 µg/L) twice during the eleven rounds of sampling, in Round 6 at MW-16 at an estimated concentration of 2.1 µg/L, and in Round 10 at MW-11 at a concentration of 2.5 µg/L.

4.1.1 Upgradient Monitoring Wells

Three monitoring wells, MW-2, MW-3A and MW-3B, are located upgradient of the Site along Drayton Avenue as shown on Figure 2.

Monitoring well MW-2 was not located until the November 2008 sampling event. Benzene was detected above the Class GA criterion of 1 µg/L in monitoring well MW-2 at an estimated concentration of 1.7 µg/L during the November 2008 sampling event. Toluene was also detected at an estimated concentration of 1.4 µg/L (below the Class GA criterion of 5 µg/L). No VOCs were detected during the February 2010 sampling event. PCE was detected at an estimate concentration of 2.1 µg/L during the May 2011 sampling event. No VOCs were detected during the August 2012 or November 2013 sampling events. PCE was detected below the criterion during the March 2015 sampling event. An obstruction in the well prevented the field team from collecting a sample during the May 2016 sampling event. As noted above in Section 3, MW-2 could not be located as the area around the well location had been disturbed which prevented the field team from collecting a sample during this sampling event.

VOCs were not detected in monitoring well MW-3A during any of the first nine long-term monitoring events with one exception. During the August 2012 sampling event, chloroform was detected at an estimated concentration of 0.53 µg/L (Class GA criterion of 7 µg/L). During the September 2017 sampling event, TCE and PCE were detected at concentrations below the Class GA criterion of 5 µg/L. No VOCs were detected during the November 2018 sampling event.

MW-3B was not located until the November 2008 Round 3 sampling event. VOCs were not detected in monitoring wells MW-3B during any of the nine long-term monitoring sampling events conducted at the ServAll Site between 2008 and 2018.

4.1.2 Source Area Monitoring Wells

Five monitoring wells are located in and around the ServAll Laundry building. Monitoring well MW-1 is located on the ServAll property. Four monitoring wells, MW-4, MW-5, MW-6A and MW-6B, are located immediately south of the Site along Frederick Avenue. Well locations are shown on Figure 2.

Monitoring Well MW-1 was located during the fourth sampling event and was included in this sampling round. No VOCs were detected during this sampling event. MW-1 was not sampled during May 2011 sampling event. Historically, PCE has been detected above the criterion in five of seven sampling events conducted at this location with concentrations ranging from 5.6 µg/L to 50 µg/L. TCE, cis-1,2-DCE, and total xylenes have also been detected at this location but at concentrations below their respective Class GA criteria.

No VOCs have been detected in MW-4 during sampling rounds 1 through 11. The well was not sampled during Round 8 as the field crew mistakenly identified PZ-4 as MW-4. PZ-4 has a damaged well lid and is filled with soil.

MW-5 could not be sampled during Round 11 as there was insufficient water in the well for the pump to operate properly; similar to the situation in Rounds 7, 9, and 10. Estimated concentrations of cis-1,2-DCE (3 µg/L and 2 µg/L) were detected during the June 2006 and April 2007 sampling events

(Round 1 and 1A) but have not been detected since. PCE was detected at an estimated concentration of 2 µg/L only during the August 2007 sampling event (less than the Class GA criterion of 5 µg/L). Acetone was detected at a concentration of 170 µg/L (exceeding the Class GA criterion of 50 µg/L) only during the November 2008 sampling event. 2-Butanone was detected only during the November 2008 sampling event at an estimated concentration of 38 µg/L (less than the Class GA criterion of 50 µg/L). During the Round 3 event in November 2008, toluene was detected at a concentration of 1,200 µg/L and was detected again during the February 2010 sampling event at a concentration of 230 µg/L (Class GA criterion of 5 µg/L) but was not detected in May 2011, August 2012 or March 2015.

TCE and PCE were detected during this sampling event at concentrations above their Class GA criteria in monitoring well MW-6A. TCE was detected at a concentration of 2.7 µg/L (Class GA Criterion of 5 µg/L). The only other detection of TCE was in May 2016 at a concentration of 1.1 µg/L and 22 µg/L in September 2017. PCE was detected at a concentration of 15 µg/L (Class GA criterion of 5 µg/L). The only previous detection of PCE occurred during the February 2010 sampling event at an estimated concentration of 1.2 µg/L and 11 µg/L during the September 2017 event. During the November 2013, March 2015, and May 2016 sampling events, chloroform was detected at concentrations of 5.7 µg/L, 2.8 µg/L, and 1.8 µg/L, respectively (Class GA criterion of 7 µg/L).

Three VOCs were detected in monitoring well MW-6B above the Class GA criteria. Cis-1,2-DCE was detected above the Class GA criterion of 5 µg/L during 11 of 12 sampling events (includes the April 2007 confirmation round) at concentrations ranging from 44 µg/L to 210 µg/L. TCE was detected above the Class GA criterion of 5 µg/L during ten of eleven sampling events (including the April 2007 confirmation round) at concentrations ranging from 7.3 µg/L to 85 µg/L. PCE was detected above the Class GA criterion of 5 µg/L during all twelve sampling events (inlcdues the April 2007 confirmation round) at concentrations ranging from 23 µg/L to 2,000 µg/L.

4.1.3 Downgradient Monitoring Wells

Five monitoring wells are located downgradient of the Site. Wells MW-12, MW-13 and MW-14 are located along the Southern State Parkway, approximately 3,000 ft south of the Site. Monitoring well MW-11 is located in the Bay Shore Middle School athletic fields. Monitoring well MW-16 is located on Abrew Street, south of the Middle School. Well locations are shown on Figure 2.

Historically, three VOCs have been detected above the Class GA criterion in monitoring well MW-12. PCE was detected during all ten sampling events (MW-12 could not be located during the September 2017 event) and seven samples exceeded the criterion; concentrations ranged from an estimated 0.8 µg/L to 60 µg/L. 1,2-Dichlorobenzene was detected at a concentration of 9 µg/L (Class GA criterion of 4.7 µg/L) during the June 2006 sampling event only. cis-1,2-DCE was detected in four of ten sampling events but only exceeded the Class GA criterion of 5 µg/L during the August 2012 sampling event. Several compounds including methyl-tert-butyl-ether (MTBE), TCE and

chlorobenzene, have been sporadically detected in MW-12 at concentrations below their respective Class GA criteria.

There were no detections noted at MW-13 during the Round 11 sampling event. Historically, the only VOC exceedance at this location was during Round 1 (June 2006) where PCE was detected at a concentration of 5 µg/L during the June 2006 sampling event. PCE was also detected at an estimated concentration of 1 µg/L during the November 2008 and August 2012 sampling events (Class GA criterion of 5 µg/L), and 1.3 µg/L during the September 2017 sampling event. Several compounds, including acetone, MTBE, chloroform, and TCE, have been sporadically detected in MW-13 at concentrations below their respective Class GA criteria.

No VOCs were detected above the Class GA criteria in MW-14 during any of the eleven sampling events. PCE was detected at an estimated concentration of 2 µg/L during the August 2007 sampling event. MTBE was detected during six sampling events at concentrations ranging from an estimated 0.81 µg/L to 8 µg/L (Class GA criterion of 10 µg/L).

Monitoring well MW-11 was included in the first sampling event (June 2006). It could not be sampled during the second event (August 2008) due to an obstruction in the well that prevented the pump from being lowered into the water column. The obstruction was cleared from the well during Round 3 (November 2008) which allowed for the collection of a sample. The well was vandalized sometime after the Round 3 event and was not sampled during the next five sampling events (February 2010 through March 2015). The well was properly abandoned in August 2015 and a replacement well was installed. Sampling resumed at MW-11 during Round 9 (May 2016). Four VOCs were detected in MW-11 during the Round 11 sampling event, while only PCE exceeded the criteria. PCE has been detected above the 5 µg/L criterion during all five sampling events at MW-11 at concentrations ranging from 16 µg/L to 60 µg/L. cis-1,2-DCE has been detected above the 5 µg/L criterion in three of five sampling events at concentrations ranging from 3 µg/L to 13 µg/L. Vinyl chloride was detected twice during the five sampling events, exceeding the 2 µg/L criterion during Round 10 at a concentration of 2.5 µg/L. Historically, toluene exceeded the 5 µg/L criterion during the Round 3 sampling event at a concentration of 63 µg/L; it has not been detected in any other sampling event. MTBE and TCE have been detected in four of five sampling events but the concentrations were all were below their respective criteria. Chlorobenzene was detected during one sampling event at a concentration below its criterion.

Four VOCs were detected at MW-16 during the Round 11 sampling event, three of which equaled or exceeded the criteria (MTBE, cis-1,2-DCE and PCE). Historically, PCE has been detected during ten of eleven sampling events at concentrations ranging from an estimate 2 µg/L to 100 µg/L, eight of which exceeded the Class GA criterion of 5 µg/L. Cis-1,2-DCE was detected in nine of eleven rounds at concentrations ranging from 1.1 µg/L to 20 µg/L, seven of which exceeded the 5 µg/L criterion. MTBE equaled or exceeded the criterion during Rounds 9, 10 and 11 at concentrations of 13 µg/L, 11 µg/L and 10 µg/L (Class GA criterion is 10 µg/L). MTBE was also detected in three other rounds

but at concentrations below the criterion. Vinyl chloride was detected during three previous sampling events, one of which exceeded the Class GA Criterion of 2 µg/L. TCE was detected in eight of eleven sampling events at concentrations ranging from an estimated 1.1 µg/L to 16 µg/L, four of which exceeded the Class GA criterion of 5 µg/L. 1,1,1-Trichloroethane (1,1,1-TCA) was detected in three of eleven sampling events at concentrations ranging from an estimated 1.7 µg/L to 5 µg/L, with one sample equaling the Class GA criterion of 5 µg/L. Two other VOCs, 1,1-dichloroethene and acetone, have been sporadically detected in samples from MW-16 but at concentrations below their Class GA criteria.

4.1.4 Sentinel Monitoring Wells

Two monitoring wells, MW-23S and MW-23D, are located south of the Sunrise Highway on Perkal Street, approximately 7,600 ft south of the Site.

Three VOCs were detected in monitoring well MW-23S above the Class GA criteria during Round 11. PCE was detected above the Class GA criterion of 5 µg/L during all eleven sampling events at concentrations ranging from 390 µg/L to 5,200 µg/L. Cis-1,2-DCE has been detected above the Class GA criterion of 5 µg/L during nine of eleven sampling events at concentrations ranging from 9.8 µg/L to 360 µg/L. TCE was detected above the Class GA criterion of 5 µg/L during nine of eleven sampling events at concentrations ranging from 5.4 µg/L to 220 µg/L. MTBE has been detected in seven sampling events but at concentrations equal to, or below, the 10 µg/L criterion. Five other VOCs, including 1,1-DCE, trans-1,2-DCE, 1,1-dichloroethane, and 1,1,1-TCA, have been sporadically detected in samples from MW-23S at concentrations below their respective Class GA criterion.

Three VOCs were detected above the Class GA criteria during Round 11 at MW-23D. PCE has been detected during all eleven sampling events at concentrations ranging from an estimated 4 µg/L to 280 µg/L, ten of which exceeded the 5 µg/L criterion. Cis-1,2-DCE was detected during the last seven sampling events at concentrations ranging from an estimated 3 µg/L to 14 µg/L, six of which exceeded the 5 µg/L criterion. TCE was detected during the last seven sampling events at concentrations ranging from an estimated 1.2 µg/L to 9.8 µg/L, five of which were at or above the 5 µg/L criterion. MTBE was detected in MW-23D at concentrations below the Class GA criteria during the last six rounds.

4.2 Round 11 (November 2018) Data Quality Review

In accordance with the project plans, data generated for this investigation were not subject to formal validation. However, AECOM's quality assurance officer (QAO) reviewed the data for reasonableness and the presence of any anomalies, including issues identified by the laboratory in the case narrative, and other items noted in review of shipping and handling documentation, inconsistencies with previous data, and review of the laboratory quality assurance (QA) forms.

Volatiles (EPA Method 8260C)

Samples from 13 monitoring wells were prepared by SW-846 method 5030C and analyzed for target compound list (TCL) VOCs by SW-846 method 8260C and reported in one sample delivery group (SDG), AD07645. One trip blank was collected and submitted for VOC analysis. One field rinsate blank sample was collected. Sample MW-1 was designated as the quality control (QC) sample (matrix spike and matrix spike duplicate [MS/MSD] analysis), and field duplicate for the Round 11 sampling event.

Samples were collected on November 5, 6, 7, and 8, 2018. Samples were received in good condition at the lab on November 9, 2018. Samples were properly preserved (pH ≤ 2) , except for the equipment blank which was noted as having a pH of 4 (note that although this pH was outside the specified limits, this pH would still inhibit most bacterial actions especially for the chlorinated compounds of concern). The samples were properly cooled (temperature between 0° and 6° C).

The laboratory did not flag any of the analytical results. Laboratory QC limits for the organic analysis were met for initial and continuing calibrations, and method blanks. No target or non-target compounds were detected in the trip blank or equipment blank.

SDG AD07645 included two batches; batch 73679 covered the equipment blank and the trip blank, while batch 73695 covered all of the monitoring well samples. Recoveries were outside of criteria for the MW-1 MS/MSD in batch 73695 for eleven and fifteen compounds, although all target compound recoveries were within limits. It may be noted that 2-chloroethylvinylether had 0% recovery since the acid used in preserving the samples readily decomposes this compound, therefore all results for this compound will be non-detect.

The MS/MSD in batch 73679 also contained a similar number of exceedances however, that batch used a sample from an outside source.

The relative percent difference (RPD) for the MS/MSD results exceeded criteria in both batches for one compound, camphor.

The laboratory control sample (LCS) (referred to as the Method Blank Spike by this laboratory) exceeded limits in batch 73679 for eight compounds, although not for any site related contaminants of concern). The LCS for batch 73695 had all analytes within limits.

Due to high concentrations (exceeding the calibration range) of one target compound (PCE), one sample (MW-6A) required dilution at a dilution factor of 5. [Note the sample MW-23S also had PCE at the same concentration but was not diluted.]

The field duplicate MW-1, while it historically had high concentrations of site related contaminants, was non-detect for all compounds in the initial sample and its duplicate. Therefore the RPD values were all within limits.

5.0 Summary and Recommendations for Future Site Remediation Activities

5.1 Summary of VOCs

Three monitoring wells are located upgradient of the Site: MW-2, MW-3A and MW-3B (Figure 2). Monitoring well MW-2 was sampled for the first time during November 2008 and a slight exceedance of benzene was noted; there were no further exceedances noted in the next five sampling events. MW-2 was not sampled during Round 9 due to an obstruction in the well and could not be located during rounds 10 and 11. No VOCs exceedances have been reported at MW-3A. PCE and TCE were detected during Round 10 at concentrations below the Class GA criteria. Chloroform was detected during Round 6 at a concentration below the Class GA criterion. No VOCs have been detected in MW-3B during any of the nine sampling rounds (MW-3B was first sampled during the November 2008 Round 3 sampling event).

Monitoring well MW-1 is the only on-Site well. It has been sampled seven times during the eleven long-term sampling events. No VOCs were detected at MW-1 during the November 2018 sampling event. PCE has exceeded the Class GA criterion of 5 µg/L in five of the seven events at concentrations ranging from 5.6 µg/L to 50 µg/L. Concentrations of cis-1,2-dichloroethene, TCE and total xylenes have been noted but at concentrations below their respective Class GA criteria.

Four monitoring wells are located immediately downgradient of the Site: MW-4, MW-5, MW-6A and MW-6B. No VOCs have been noted in MW-4. No exceedances (other than toluene and acetone which were attributed to laboratory artifacts) have been noted in MW-5 during eight rounds of sampling (MW-5 was not sampled during rounds 7, 9, 10, and 11 as there was insufficient water to operate the pump). Prior to Round 10, there were no exceedances of VOCs in MW-6A (deep monitoring well). During Rounds 10 and 11, PCE was detected at concentrations above the Class GA criteria (11 µg/L and 15 µg/L, respectively). TCE was detected above the criterion in Round 10 (22 µg/L) and below the criterion in Round 11 (2.7 µg/L).

Exceedances of PCE, TCE and cis-1,2-dichloroethene have been noted at shallow monitoring well MW-6B during the eleven rounds of long-term monitoring (plus the confirmation round in April 2007). A summary of historic PCE concentration data for selected monitoring wells is shown on Table 4. The data presented on this table is a compilation of data available for review during the preparation of this report. A graph of the historic PCE concentrations is also illustrated on Figure 9. Prior to the implementation of remedial measures, the PCE concentration at MW-6B was as high as 14,000 µg/L. As noted in Section 2, the groundwater pump and treat system began operation in 1998 and by July 2000, the PCE concentration had decreased to 160 µg/L. The treatment system was shut down in 2001. PCE concentrations rebounded during the June 2006 event (1,100 µg/L), then decreased by

more than half for 2007 and 2008. The concentration then rebounded to 2,000 µg/L in February 2010, then dropped back to 23 µg/L by August 2012 and spiked to 1,500 µg/L in the November 2013 event and was at 1,200 µg/L in the March 2015 sampling event. The concentration had decreased significantly during Round 9 to 330 µg/L and remained fairly constant during Rounds 10 and 11 (340 µg/L and 470 µg/L, respectively).

Three of the monitoring wells sampled as part of the long-term monitoring program are located approximately halfway between the Site and the Bay Shore Middle School (MW-12, MW-13 and MW-14) along the Southern State Parkway. PCE was detected above the criterion in MW-12 in each event between 2006 and 2010 at concentrations ranging from 10 µg/L to 60 µg/L, but was detected below the criterion (at 1.6 µg/L, 0.80 µg/L and 2.4 µg/L) in the May 2011, August 2012 and November 2013 sampling events. The concentrations in the March 2015 event (10 µg/L), May 2016 (13 µg/L), and November 2018 (11 µg/L) all exceeded the criterion, extending the plume to the south as shown in Figures 10F, 10G and 10H; MW-12 could not be located during the September 2017 sampling event. PCE was detected at a concentration equal to the criterion in MW-13 during the June 2006 sampling event; it has been below the criterion or not detected during the last ten sampling rounds. PCE has not been detected above the criterion in monitoring wells MW-14 during the previous eleven sampling events.

Of the two monitoring wells near the Bay Shore Middle School, the PCE concentrations at MW-11 were 56 µg/L and 60 µg/L for the June 2006 and November 2008 sampling events (an obstruction prevented the collection of a sample in August 2007 through March 2015) and 28 µg/L, 18 µg/L and 16 µg/L during the May 2016, September 2017, and November 2018 sampling events. At MW-16, the other well near the school, the concentrations of VOCs have all decreased significantly since the August 2012 sampling event. The concentrations of vinyl chloride, TCE and PCE all exceeded the criterion in August 2012; however, the concentrations of these four VOCs all dropped to below their respective criteria in November 2013 and were not detected in March 2015. The concentrations of PCE and cis-1,2-DCE rose during the May 2016 event and both now have exceeded the criterion for the last three sampling events. A bar chart of the PCE concentrations at MW-11 and MW-16 for the eleven long-term sampling events is shown on Figure 6. A bar chart of the cis-1,2-DCE concentrations at MW-11 and MW-16 for the eleven long-term sampling events is shown on Figure 8. MTBE has equaled or exceeded the criterion during the last three sampling events at concentrations ranging from 10 to 13 µg/L at MW-16.

The two most downgradient monitoring wells, MW-23S and MW-23D, are located south of the Sunrise Highway (Figure 2). As shown on Figure 9, PCE concentrations in MW-23S spiked in June 2006 (5,200 µg/L), then decreased by an order of magnitude by November 2008 (500 µg/L). PCE concentrations increased over the next four sampling rounds peaking at 2,500 µg/L in November 2013. The concentration decreased to 390 µg/L during the March 2015 event then rose significantly to 2,300 µg/L during the May 2016 event. The concentrations of PCE have dropped during the last two sampling events at MW-23S. Concentrations of TCE and cis-1,2-DCE have exceeded the

criterion in nine of 11 sampling events as shown on Figures 7 and 8. PCE concentrations in MW-23D have been generally increasing since 2004 (0.6 µg/L) through November 2018 (240 µg/L).

Isoconcentration maps were prepared for PCE and are shown on Figure 10A (June 2006 data), Figure 10B (November 2008 data), Figure 10C (May 2011 data), Figure 10D (August 2012 data), Figure 10E (November 2013 data), Figure 10F (March 2015), Figure 10G (May 2016), Figure 10H (September 2017) and 10I (November 2018). As shown on these maps, the PCE plume appears to have separated into two non-contiguous plumes starting with the May 2011 sampling event and continuing through the March 2015 sampling event: one near the Site and a second centered near MW-23S (immediately south of the Sunrise Highway). The two plumes merge starting with the May 2016 event. PCE concentrations in wells near the Site appear to be increasing at MW-6B as is the PCE concentration in MW-12 (adjacent to the Southern State Parkway). Further downgradient, near the Bay Shore High School, the PCE concentrations appear to be increasing during the latest sampling event at MW-16 and are slightly less at MW-23D.

TCE has been detected above the Class GA criterion of 5 µg/L in five monitoring wells: MW-6A, MW-6B, MW-16, MW-23S and MW-23D. A graph of the TCE concentrations for these four wells is shown on Figure 7.

Cis-1,2-DCE has been detected above the Class GA criterion of 5 µg/L in six monitoring wells, MW-6B, MW-11, MW-12, MW-16, MW-23S and MW-23D. As shown on Figure 8, there does not appear to be any discernible trend in concentration.

5.2 Future Recommendations

Future recommendations for the ServAll Laundry Site are continued monitoring of selected monitoring wells for VOCs.

Monitoring well MW-5 could not be sampled during this round as there was insufficient water to operate the pump. This was also the case during the January 2013, May 2016, and September 2017 sampling events. MW-2 could not be located during the last two sampling events. An obstruction prevented sampling during the May 2016 sampling round. An effort will be made to locate this well and remove the obstruction before the next sampling event.

Monitoring well MW-1 should be included in future long-term sampling events.

The next round of groundwater sampling is scheduled for February 2020.

Tables

TABLE 1
SERVALL LAUNDRY SITE (1-52-077)
MONITORING WELL DATA

Well ID	NY State Plane Coordinates[1]		Well Screen Depth (ft bgs)	Top of Riser Elevation[1]	Comments
	Northing	Easting			
MW-1	193,973.43	2,204,502.95	76.5 - 86.5	64.79	Behind Servall Building
MW-2	194,178.63	2,204,535.21	71.8 - 81.8	64.47	Well could not be located prior to the November 2008 event
MW-3A	194,188.77	2,204,423.40	110.0 - 120.0	64.37	Well could not be located prior to the November 2008 event
MW-3B	198,189.80	2,204,411.51	78.0 - 88.0	64.54	West of the building on the north side of Drayton Avenue
MW-4	193,713.55	2,204,672.09	74.0 - 84.0	63.11	On north side of Frederick Avenue
MW-5	193,738.12	2,204,418.09	74.0 - 84.0	64.06	On north side of Frederick Avenue
MW-6A	193,723.62	2,204,573.71	53.0 - 63.0	63.87	On north side of Frederick Avenue
MW-6B	193,722.77	2,204,566.29	25.0 - 35.0	63.83	On north side of Frederick Avenue
MW-7	193,247.00	2,204,841.62	102.0 - 112.0	60.79	Well appears to be missing
MW-8	192,291.45	2,205,304.27	94.0 - 104.0	54.6	Well appears to be missing
MW-9	189,214.07	2,206,683.24	78.0 - 88.0	40.91	Well appears to have been paved over or removed
MW-10	188,924.35	2,207,905.95	78.7 - 88.7	40.22	Well appears to be missing
MW-11	188,889.82	2,207,272.76	80.0 - 90.0	37.07	In grass on field at Bay Shore Middle School
MW-12	191,051.70	2,205,475.34	78.8 - 88.8	50.61	In woods along Southern State Parkway near light pole
MW-13	190,990.06	2,205,989.11	88.0 - 98.0	50.33	In woods along Southern State Parkway near light pole
MW-14	191,009.26	2,206,506.46	83.3 - 93.3	49.98	In woods along Southern State Parkway near light pole
MW-15	190,264.25	2,206,372.05	87.0 - 97.0	48.78	Well appears to be missing
MW-16	188,111.44	2,207,779.29	84.0 - 94.0	36.50	South side of Abrew Street in roadway
MW-23S	187,099.54	2,208,295.49	66.0 - 69.0	24.38	In roadway on Cul-de-sac on Perkel Street
MW-23D	187,101.72	2,208,276.17	83.0 - 88.0	24.45	In roadway on Cul-de-sac on Perkel Street

Bolded monitoring wells are severely damaged and require repairs to the road box

1 - Coordinates and elevations taken from E.C. Jordan RI/FS Report, January 1992 and ABB Plume Discharge Study, December 1995.

TABLE 2
SERVALL LAUNDRY SITE (SITE 1-52-077)
GROUNDWATER ELEVATIONS

Well #	Reference Elevation	Date	Depth To Water	Water Table Elevation	Comments
MW-1	64.79	2/1/10	22.87	41.92	February 2010 sampling event
		5/9/11			not collected
		8/20/12	24.65	40.14	August 2012 sampling event
		11/11/13	26.42	38.37	November 2013 sampling event
		3/23/15	23.14	41.65	March 2015 sampling event
		5/9/16	25.31	39.48	May 2016 sampling event
		9/18/17	25.41	39.38	September 2017 sampling event
		11/8/18	25.80	38.99	November 2018 sampling event
MW-2	64.47	6/6/06	--	--	could not locate
		8/20/07	--	--	could not locate
		11/11/08	23.82	40.65	November 2008 sampling event
		2/1/10	22.27	42.20	February 2010 sampling event
		5/9/11	23.19	41.28	May 2011 sampling event
		8/20/12	24.00	40.47	August 2012 sampling event
		11/11/13	25.72	38.75	November 2013 sampling event
		3/23/15	23.14	41.33	March 2015 sampling event
		5/9/16	24.76	39.71	May 2016 sampling event
		9/18/17			could not locate the well
		11/8/18			could not locate the well
MW-3A	64.37	6/6/06	20.68	43.69	June 2006 sampling event
		8/20/07	22.00	42.37	August 2007 sampling event
		11/11/08	23.61	40.76	November 2008 sampling event
		2/1/10	22.07	42.30	February 2010 sampling event
		5/9/11	23.02	41.35	May 2011 sampling event
		8/20/12	23.81	40.56	August 2012 sampling event
		11/11/13	25.60	38.77	November 2013 sampling event
		3/23/15	22.75	41.62	March 2015 sampling event
		5/9/16	24.57	39.80	May 2016 sampling event
		9/21/17	25.96	38.41	September 2017 sampling event
		11/8/18	24.93	39.44	November 2018 sampling event
MW-3B	64.54	6/6/06	--	--	could not locate
		8/20/07	--	--	could not locate
		11/11/08	23.81	40.73	November 2008 sampling event
		2/1/10	22.29	42.25	February 2010 sampling event
		5/9/11	23.20	41.34	May 2011 sampling event
		8/20/12	24.02	40.52	August 2012 sampling event
		11/11/13	25.80	38.74	Nov 2013 sampling event, <0.5 ft of water
		3/23/15	22.90	41.64	March 2015 sampling event
		5/9/16	24.78	39.76	May 2016 sampling event
		9/21/17	26.02	38.52	September 2017 sampling event
		11/5/18	24.69	39.85	November 2018 sampling event

TABLE 2
SERVALL LAUNDRY SITE (SITE 1-52-077)
GROUNDWATER ELEVATIONS

Well #	Reference Elevation	Date	Depth To Water	Water Table Elevation	Comments
MW-4	63.11	6/16/06	20.34	42.77	June 2006 sampling event
		8/20/07	21.50	41.61	August 2007 sampling event
		11/11/08	23.35	39.76	November 2008 sampling event
		2/1/10	21.77	41.34	February 2010 sampling event
		5/9/11	22.57	40.54	May 2011 sampling event
		8/20/12	24.13	38.98	August 2012 sampling event
		11/11/13	25.21	37.90	November 2013 sampling event
		3/23/15	NA		well cap is missing
		5/9/16	24.16	38.95	May 2016 sampling event
		9/19/17	24.53	38.58	September 2017 sampling event
		11/5/18	24.75	38.36	November 2018 sampling event
MW-5	64.06	6/15/06	20.98	43.08	June 2006 sampling event
		8/20/07	22.20	41.86	August 2007 sampling event
		11/11/08	23.99	40.07	November 2008 sampling event
		2/1/10	22.42	41.64	February 2010 sampling event
		5/9/11	23.29	40.77	May 2011 sampling event
		8/20/12	23.47	40.59	August 2012 sampling event
		11/11/13	25.94	38.12	November 2013 sampling event
		3/23/15	22.92	41.14	March 2015 sampling event
		5/9/16	24.03	40.03	May 2016 sampling event
		9/19/17	25.64	38.42	September 2017 sampling event
		11/5/18	25.08	38.98	November 2018 sampling event
MW-6A	63.87	6/15/06	20.93	42.94	June 2006 sampling event
		8/20/07	22.41	41.46	August 2007 sampling event
		11/11/08	24.01	39.86	November 2008 sampling event
		2/1/10	22.49	41.38	February 2010 sampling event
		5/9/11	23.28	40.59	May 2011 sampling event
		8/20/12	24.15	39.72	August 2012 sampling event
		11/11/13	25.87	38.00	November 2013 sampling event
		3/23/15	22.89	40.98	March 2015 sampling event
		5/9/16	24.78	39.09	May 2016 sampling event
		9/18/17	25.26	38.61	September 2017 sampling event
		11/5/18	25.48	38.39	November 2018 sampling event

TABLE 2
SERVALL LAUNDRY SITE (SITE 1-52-077)
GROUNDWATER ELEVATIONS

Well #	Reference Elevation	Date	Depth To Water	Water Table Elevation	Comments
MW-6B	63.83	6/15/06	20.89	42.94	June 2006 sampling event
		4/20/07	20.50	43.33	April 2007 confirmation sampling event
		8/20/07	22.16	41.67	August 2007 sampling event
		11/11/08	23.95	39.88	November 2008 sampling event
		2/1/10	22.36	41.47	February 2010 sampling event
		5/9/11	23.62	40.21	May 2011 sampling event
		8/20/12	24.17	39.66	August 2012 sampling event
		11/11/13	25.89	37.94	November 2013 sampling event
		3/23/15	22.82	41.01	March 2015 sampling event
		5/9/16	24.84	38.99	May 2016 sampling event
		9/18/17	25.05	38.78	September 2017 sampling event
		11/5/18	25.40	38.43	November 2018 sampling event
MW-11	37.07	6/8/06	8.80	28.27	June 2006 sampling event
		8/20/07	6.57	30.50	August 2007 sampling event
		11/11/08	10.13	26.94	November 2008 sampling event
		2/1/10	9.13	27.94	February 2010 sampling event
		5/9/11	NA		vandalized, filled with debris
		8/20/12	NA		vandalized, filled with debris
		11/11/13	NA		vandalized, filled with debris
		3/23/15	NA		vandalized, filled with debris
		5/9/16	10.16	26.91	May 2016 sampling event
		9/21/17	11.02	26.05	September 2017 sampling event
		11/6/18	10.40	26.67	November 2018 sampling event
MW-12	50.61	6/15/06	14.15	36.46	June 2006 sampling event
		8/20/07	15.42	35.19	August 2007 sampling event
		11/11/08	16.74	33.87	November 2008 sampling event
		2/1/10	15.14	35.47	February 2010 sampling event
		5/9/11	15.60	35.01	May 2011 sampling event
		8/20/12	16.62	33.99	August 2012 sampling event
		11/11/13	18.41	32.20	November 2013 sampling event
		3/23/15	14.91	35.70	March 2015 sampling event
		5/9/16	17.02	33.59	May 2016 sampling event
		9/18/17			could not locate the well
		11/7/18	17.60	33.01	November 2018 sampling event

TABLE 2
SERVALL LAUNDRY SITE (SITE 1-52-077)
GROUNDWATER ELEVATIONS

Well #	Reference Elevation	Date	Depth To Water	Water Table Elevation	Comments
MW-13	50.33	6/15/06	18.51	31.82	June 2006 sampling event
		8/20/07	15.87	34.46	August 2007 sampling event
		11/11/08	17.10	33.23	November 2008 sampling event
		2/1/10	15.54	34.79	February 2010 sampling event
		5/9/11	15.97	34.36	May 2011 sampling event
		8/20/12	16.93	33.40	August 2012 sampling event
		11/11/13	18.71	31.62	November 2013 sampling event
		3/23/15	15.20	35.13	March 2015 sampling event
		5/9/16	17.31	33.02	May 2016 sampling event
		9/20/17	17.56	32.77	September 2017 sampling event
		11/7/18	16.53	33.80	November 2018 sampling event
MW-14	49.98	6/15/06	15.01	34.97	June 2006 sampling event
		8/20/07	16.26	33.72	August 2007 sampling event
		11/11/08	17.29	32.69	November 2008 sampling event
		2/1/10	15.84	34.14	February 2010 sampling event
		5/9/11	16.25	33.73	May 2011 sampling event
		8/20/12	17.14	32.84	August 2012 sampling event
		11/11/13	18.99	30.99	November 2013 sampling event
		3/23/15	15.41	34.57	March 2015 sampling event
		5/9/16	17.53	32.45	May 2016 sampling event
		9/20/17	18.26	31.72	September 2017 sampling event
		11/7/18	17.95	32.03	November 2018 sampling event
MW-16	36.50	6/15/06	10.52	25.98	June 2006 sampling event
		8/20/07	12.76	23.74	August 2007 sampling event
		11/11/08	12.35	24.15	November 2008 sampling event
		2/1/10	11.52	24.98	February 2010 sampling event
		5/9/11	11.68	24.82	May 2011 sampling event
		8/20/12	11.82	24.68	August 2012 sampling event
		11/11/13	13.35	23.15	November 2013 sampling event
		3/23/15	10.89	25.61	March 2015 sampling event
		5/9/16	12.24	24.26	May 2016 sampling event
		9/20/17	13.05	23.45	September 2017 sampling event
		11/7/18	12.22	24.28	November 2018 sampling event

TABLE 2
SERVALL LAUNDRY SITE (SITE 1-52-077)
GROUNDWATER ELEVATIONS

Well #	Reference Elevation	Date	Depth To Water	Water Table Elevation	Comments
MW-23S	24.38	6/8/06	5.25	19.13	June 2006 sampling event
		8/20/07	6.22	18.16	August 2007 sampling event
		11/11/08	6.09	18.29	November 2008 sampling event
		2/1/10	5.78	18.60	February 2010 sampling event
		5/9/11	5.62	18.76	May 2011 sampling event
		8/20/12	5.61	18.77	August 2012 sampling event
		11/11/13	6.60	17.78	November 2013 sampling event
		3/23/15	5.25	19.13	March 2015 sampling event
		5/9/16	5.85	18.53	May 2016 sampling event
		9/19/17	6.72	17.66	September 2017 sampling event
		11/6/18	5.70	18.68	November 2018 sampling event
MW-23D	24.45	6/8/06	5.15	19.30	June 2006 sampling event
		8/20/07	6.14	18.31	August 2007 sampling event
		11/11/08	6.00	18.45	November 2008 sampling event
		2/1/10	5.62	18.83	February 2010 sampling event
		5/9/11	5.67	18.78	May 2011 sampling event
		8/20/12	5.56	18.89	August 2012 sampling event
		11/11/13	6.52	17.93	November 2013 sampling event
		3/23/15	5.36	19.09	March 2015 sampling event
		5/9/16	5.78	18.67	May 2016 sampling event
		9/19/17	6.62	17.83	September 2017 sampling event
		11/8/18	5.65	18.80	November 2018 sampling event

All measurements and elevations are in feet, MSL.
All measurements were taken from the top of PVC casing.

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Sample ID	Class GA	Can't	Can't	SL-MW-2	SL-MW-2	SL-MW-2	SL-MW-2	SL-MW-2
Laboratory ID	Ground	Locate	Locate	G2115-14	J0196-06	K0834-09	L1786-11	AC75681-003
Sample Date	Water	6/6/06	8/21/07	11/14/08	2/4/10	5/11/11	08/22/12	11/12/13
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	NA	NA	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	NA	NA	ND	ND	ND	ND	ND
Acetone	50	NA	NA	ND	ND	ND	ND	ND
Benzene	1	NA	NA	***1.7 J***	ND	ND	ND	ND
2-Butanone	50	NA	NA	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	NA	NA	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	NA	NA	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	NA	NA	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	NA	NA	ND	ND	ND	ND	ND
Chloroform	7	NA	NA	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	NA	NA	ND	ND	ND	ND	ND
Trichloroethene	5	NA	NA	ND	ND	ND	ND	ND
Tetrachloroethene	5	NA	NA	ND	ND	2.1 J	ND	ND
Xylenes (Total)	5	NA	NA	ND	ND	ND	ND	ND
Toluene	5	NA	NA	1.4 J	ND	ND	ND	ND
Chlorobenzene	5	NA	NA	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	NA	NA	ND	ND	ND	ND	ND
Number of VOC TICs				1				
Total VOC TIC conc.				38 J				ND

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-2	MW-2	MW-2	MW-2
Sample ID	Class GA	SL-MW-2	SL-MW-2	SL-MW-2	SL-MW-2
Laboratory ID	Ground	AC83904-009			
Sample Date	Water	3/23/15	5/11/16	9/22/17	11/8/18
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	an	the well	the well
1,1-Dichloroethene	5	ND	obstruction	could not	could not
Acetone	50	ND	in the well	be located,	be located,
Benzene	1	ND	prevented	the area was	the area was
2-Butanone	50	ND	sampling	recently	recently
trans-1,2-Dichloroethene	5	ND		repaved	repaved
Methyl tert-butyl ether	10	ND			
1,1-Dichloroethane	5	ND			
cis-1,2-Dichloroethene	5	ND			
Chloroform	7	ND			
1,1,1-Trichloroethane	5	ND			
Trichloroethene	5	ND			
Tetrachloroethene	5	1.1			
Xylenes (Total)	5	ND			
Toluene	5	ND			
Chlorobenzene	5	ND			
1,2-Dichlorobenzene	4.7	ND			
Number of VOC TICs					
Total VOC TIC conc.		ND			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-3A	MW-3A	MW-3A	MW-3A	MW-3A	MW-3A
Sample ID	Class GA	SMW-3A	SMW-3A	SL-MW-3A	SL-MW-3A	SL-MW-3A	SL-MW-3A
Laboratory ID	Ground	E0773-18	F1174-02C	G2115-16	J0196-02	K0834-10	L1820-01
Sample Date	Water	6/6/06	8/21/07	11/14/08	2/3/10	5/11/11	08/27/12
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	0.53 J
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND
Number of VOC TICs		0	0	1			
Total VOC TIC conc.		ND	ND	19 J			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
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Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-3A	MW-3A	MW-3A	MW-3A	MW-3A
Sample ID	Class GA	SL-MW-3A	SL-MW-3A	SL-MW-3A	SL-MW-3A	SL-MW-3A
Laboratory ID	Ground	AC75711-005	AC83904-011	AC91322-010	AD00205-001	AD07645-006
Sample Date	Water	11/12/13	3/23/15	5/11/16	9/22/17	11/8/18
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	2.6	ND
Tetrachloroethene	5	ND	ND	ND	1.2	ND
Xylenes (Total)	5	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND
Number of VOC TICs						
Total VOC TIC conc.		ND	ND			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
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TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-3B	MW-3B	MW-3B	MW-3B	MW-3B	MW-3B
Sample ID	Class GA	Can't	Can't	SL-MW-3B	SL-MW-3B	SL-MW-3B	SL-MW-3B
Laboratory ID	Ground	Locate	Locate	G2115-17	J0196-07	K0834-11	L1820-02
Sample Date	Water	6/6/06	8/21/07	11/14/08	2/4/10	5/11/11	08/27/12
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	NA	NA	ND	ND	ND	ND
1,1-Dichloroethene	5	NA	NA	ND	ND	ND	ND
Acetone	50	NA	NA	ND	ND	ND	ND
Benzene	1	NA	NA	ND	ND	ND	ND
2-Butanone	50	NA	NA	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	NA	NA	ND	ND	ND	ND
Methyl tert-butyl ether	10	NA	NA	ND	ND	ND	ND
1,1-Dichloroethane	5	NA	NA	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	NA	NA	ND	ND	ND	ND
Chloroform	7	NA	NA	ND	ND	ND	ND
1,1,1-Trichloroethane	5	NA	NA	ND	ND	ND	ND
Trichloroethene	5	NA	NA	ND	ND	ND	ND
Tetrachloroethene	5	NA	NA	ND	ND	ND	ND
Xylenes (Total)	5	NA	NA	ND	ND	ND	ND
Toluene	5	NA	NA	ND	ND	ND	ND
Chlorobenzene	5	NA	NA	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	NA	NA	ND	ND	ND	ND
Number of VOC TICs				1			
Total VOC TIC conc.				19 J			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

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TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-3B	MW-3B	MW-3B	MW-3B	MW-3B
Sample ID	Class GA	SL-MW-3B	SL-MW-3B	SL-MW-3B	SL-MW-3B	SL-MW-3B
Laboratory ID	Ground	AC75711-001	AC83904-013	AC91322-009	AD00205-002	AD07645-007
Sample Date	Water	11/12/13	3/23/15	5/10/16	9/22/17	11/5/18
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND
Xylenes (Total)	5	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND
Number of VOC TICs						
Total VOC TIC conc.		ND	ND			

Notes:
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ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

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TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
Sample ID	Class GA				SL-MW-1		SL-MW-1	SL-MW-1
Laboratory ID	Ground				J0196-01		L1786-10	AC75681-001
Sample Date	Water	6/6/06	8/21/07	11/14/08	2/3/10	5/11/11	08/22/12	11/12/13
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	NA	NA	NA	ND	NA	ND	ND
1,1-Dichloroethene	5	NA	NA	NA	ND	NA	ND	ND
Acetone	50	NA	NA	NA	ND	NA	ND	ND
Benzene	1	NA	NA	NA	ND	NA	ND	ND
2-Butanone	50	NA	NA	NA	ND	NA	ND	ND
trans-1,2-Dichloroethene	5	NA	NA	NA	ND	NA	ND	ND
Methyl tert-butyl ether	10	NA	NA	NA	ND	NA	ND	ND
1,1-Dichloroethane	5	NA	NA	NA	ND	NA	ND	ND
cis-1,2-Dichloroethene	5	NA	NA	NA	2.3 J	NA	1.2 J	ND
Chloroform	7	NA	NA	NA	ND	NA	ND	ND
1,1,1-Trichloroethane	5	NA	NA	NA	ND	NA	ND	ND
Trichloroethene	5	NA	NA	NA	1.8 J	NA	0.81 J	ND
Tetrachloroethene	5	NA	NA	NA	***50***	NA	***18.0***	***5.6***
Xylenes (Total)	5	NA	NA	NA	1.1 J	NA	ND	ND
Toluene	5	NA	NA	NA	ND	NA	ND	ND
Chlorobenzene	5	NA	NA	NA	ND	NA	ND	ND
1,2-Dichlorobenzene	4.7	NA	NA	NA	ND	NA	ND	ND
Number of VOC TICs								
Total VOC TIC conc.								ND

Notes:
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TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-1		MW-1		MW-1		MW-1	
Sample ID	Class GA	SL-MW-1		SL-MW-1		SL-MW-1		SL-MW-1	
Laboratory ID	Ground	AC83904-001		AC91322-008		AD00205-003		AD07645-002	
Sample Date	Water	3/23/15		5/10/16		9/21/17		11/8/18	
	Criteria	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Vinyl Chloride	2	ND		ND		ND		ND	
1,1-Dichloroethene	5	ND		ND		ND		ND	
Acetone	50	ND		ND		ND		ND	
Benzene	1	ND		ND		ND		ND	
2-Butanone	50	ND		ND		ND		ND	
trans-1,2-Dichloroethene	5	ND		ND		ND		ND	
Methyl tert-butyl ether	10	ND		ND		ND		ND	
1,1-Dichloroethane	5	ND		ND		ND		ND	
cis-1,2-Dichloroethene	5	ND		ND		ND		ND	
Chloroform	7	ND		ND		ND		ND	
1,1,1-Trichloroethane	5	ND		ND		ND		ND	
Trichloroethene	5	ND		ND		ND		ND	
Tetrachloroethene	5	***14.0***		***15.0***		ND		ND	
Xylenes (Total)	5	ND		ND		ND		ND	
Toluene	5	ND		ND		ND		ND	
Chlorobenzene	5	ND		ND		ND		ND	
1,2-Dichlorobenzene	4.7	ND		ND		ND		ND	
Number of VOC TICs									
Total VOC TIC conc.		ND							

Notes:
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J - Estimated value, VOCs
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TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Sample ID	Class GA	SMW-4	SMW-4	SMW-4	SL-MW-4	SL-MW-4	SL-MW-4	SL-MW-4
Laboratory ID	Ground	E0832-10	F0495-02B	F1174-03C	G2115-09	J0196-08	K0834-12	L1820-07
Sample Date	Water	6/16/06	4/20/07	8/21/07	11/13/08	2/4/10	5/12/11	08/29/12
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND	ND
Number of VOC TICs		0	0	0	1			
Total VOC TIC conc.		ND	ND	ND	28 J			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

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TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-4		MW-4		MW-4		MW-4		MW-4	
Sample ID	Class GA	SL-MW-4		SL-MW-4		SL-MW-4		SL-MW-4		SL-MW-4	
Laboratory ID	Ground	AC75711-014				AC91322-016		AD00135-001		AD07645-008	
Sample Date	Water	11/13/13		3/23/15		5/12/16		9/19/17		11/5/18	
	Criteria	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Vinyl Chloride	2	ND		well cap		ND		ND		ND	
1,1-Dichloroethene	5	ND		is missing		ND		ND		ND	
Acetone	50	ND		and the		ND		ND		ND	
Benzene	1	ND		well is		ND		ND		ND	
2-Butanone	50	ND		filled with		ND		ND		ND	
trans-1,2-Dichloroethene	5	ND		soil		ND		ND		ND	
Methyl tert-butyl ether	10	ND				ND		ND		ND	
1,1-Dichloroethane	5	ND				ND		ND		ND	
cis-1,2-Dichloroethene	5	ND				ND		ND		ND	
Chloroform	7	ND				ND		ND		ND	
1,1,1-Trichloroethane	5	ND				ND		ND		ND	
Trichloroethene	5	ND				ND		ND		ND	
Tetrachloroethene	5	ND				ND		ND		ND	
Xylenes (Total)	5	ND				ND		ND		ND	
Toluene	5	ND				ND		ND		ND	
Chlorobenzene	5	ND				ND		ND		ND	
1,2-Dichlorobenzene	4.7	ND				ND		ND		ND	
Number of VOC TICs											
Total VOC TIC conc.		ND						ND			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

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TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
Sample ID	Class GA	SMW-5	SMW-5	SMW-5	SL-MW-5	SL-MW-5	SL-MW-5	SL-MW-5
Laboratory ID	Ground	E0832-05	F0495-04B	F1174-13B	G2115-13	J0196-09	K0834-15	L1820-06
Sample Date	Water	6/15/06	4/20/07	8/27/07	11/13/08	2/4/10	5/12/11	08/29/12
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	***170***	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	38 J	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	3.0 J	2.0 J	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	1.5 J	ND
Tetrachloroethene	5	ND	ND	2.0 J	ND	ND	ND	ND
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	***1,200***	***230 D***	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND	ND
Number of VOC TICs		0	0	0	1			
Total VOC TIC conc.		ND	ND	ND	330 J			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

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TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-5	MW-5	MW-5	MW-5	MW-5
Sample ID	Class GA	SL-MW-5	SL-MW-5	SL-MW-5	SL-MW-5	SL-MW-5
Laboratory ID	Ground		AC83924-001			
Sample Date	Water	1/13/13	3/24/15	5/10/16	9/19/17	11/5/18
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	Could not	ND	Could not	Could not	Could not
1,1-Dichloroethene	5	sample,	ND	sample,	sample,	sample,
Acetone	50	less than	ND	less than	less than	less than
Benzene	1	1 ft of	ND	1.7 ft of	0.4 ft of	0.9 ft of
2-Butanone	50	water in	ND	water in	water in	water in
trans-1,2-Dichloroethene	5	the well.	ND	the well.	the well.	the well.
Methyl tert-butyl ether	10		ND			
1,1-Dichloroethane	5		ND			
cis-1,2-Dichloroethene	5		ND			
Chloroform	7		ND			
1,1,1-Trichloroethane	5		ND			
Trichloroethene	5		ND			
Tetrachloroethene	5		ND			
Xylenes (Total)	5		ND			
Toluene	5		ND			
Chlorobenzene	5		ND			
1,2-Dichlorobenzene	4.7		ND			
Number of VOC TICs						
Total VOC TIC conc.			ND			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

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TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-6A	MW-6A	MW-6A	MW-6A	MW-6A	MW-6A	MW-6A
Sample ID	Class GA	SMW-6A	SMW-6A	SMW-6A	SMW-6A	SMW-6A	SMW-6A	SL-MW-6A
Laboratory ID	Ground	E0832-06	F0495-01B	F1174-04C	G2115-10	J0196-10	K0834-13	L1820-03
Sample Date	Water	6/15/06	4/20/07	8/21/07	11/13/08	2/4/10	5/12/11	08/27/12
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	1.2 J	ND	ND
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND	ND
Number of VOC TICs		0	0	0	1			
Total VOC TIC conc.		ND	ND	ND	28 J			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
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BOLD/ITALICS - exceeds criterion

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SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-6A	MW-6A	MW-6A	MW-6A	MW-6A
Sample ID	Class GA	SL-MW-6A	SL-MW-6A	SL-MW-6A	SL-MW-6A	SL-MW-6A
Laboratory ID	Ground	AC75711-012	AC83904-020	AC91322-006	AD00135-003	AD07645-010
Sample Date	Water	11/13/13	3/24/15	5/10/16	9/19/17	11/5/18
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Chloroform	7	5.7	2.8	1.8	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	1.1	***22.0***	2.7
Tetrachloroethene	5	ND	ND	ND	***11.0***	***15.0***
Xylenes (Total)	5	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND
Number of VOC TICs						
Total VOC TIC conc.		ND	ND			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-6B	MW-6B	MW-6B	MW-6B	MW-6B	MW-6B	MW-6B
Sample ID	Class GA	SMW-6B	SMW-6B	SMW-6B	SMW-6B	SMW-6B	SMW-6B	SL-MW-6B
Laboratory ID	Ground	E0832-07	F0495-03B	F1174-05C	G2115-12	J0196-11	K0834-14	L1820-04
Sample Date	Water	6/15/06	4/20/07	8/21/07	11/13/08	2/4/10	5/12/11	08/27/12
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	3.7 J
Benzene	1	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	***210 D***	***120***	***130***	***140***	***190***	***44.0***	0.50 J
Chloroform	7	ND	ND	ND	2.0 J	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	***85.0***	***27.0***	***26.0***	***30.0***	***40.0***	***7.3***	ND
Tetrachloroethene	5	***1,100 D***	***650***	***480 D***	***470 D***	***2,000 D***	***150***	***23.0***
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND	ND
Number of VOC TICs		0	0	0	1			
Total VOC TIC conc.		ND	ND	ND	28 J			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-6B	MW-6B	MW-6B	MW-6B	MW-6B
Sample ID	Class GA	SL-MW-6B	SL-MW-6B	SL-MW-6B	SL-MW-6B	SL-MW-6B
Laboratory ID	Ground	AC75711-010	AC83904-018	AC91322-002	AD00135-002	AD07645-009
Sample Date	Water	11/13/13	3/24/15	5/10/16	9/19/17	11/5/18
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	***140***	***100***	***44.0***	***51.0***	***78.0***
Chloroform	7	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND
Trichloroethene	5	***30.0***	***31.0***	***12.0***	***8.1***	***9.2***
Tetrachloroethene	5	***1,500***	***1,200***	***330***	***340***	***470 D***
Xylenes (Total)	5	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND
Number of VOC TICs						
Total VOC TIC conc.		ND	ND			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
Sample ID	Class GA	SMW-12	SMW-12	SL-MW-12	SL-MW-12	SL-MW-12	SL-MW-12
Laboratory ID	Ground	E0832-01	F1174-08C	G2115-06	J0189-01	K0834-01	L1786-07
Sample Date	Water	6/15/06	8/22/07	11/12/08	2/2/10	5/10/11	08/22/12
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	ND	1.7 J	0.68 J
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	2.0 J	3.1 J	ND	1.8 J	***5.6***
Chloroform	7	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	1.0 J	ND	ND	ND	1.1 J
Tetrachloroethene	5	***17***	***17***	***60***	***10***	1.6 J	0.80 J
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	4.0 J	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	***9.0***	ND	ND	ND	ND	ND
Number of VOC TICs		0	0	1			
Total VOC TIC conc.		ND	ND	26			

Notes:
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BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-12	MW-12	MW-12	MW-12	MW-12
Sample ID	Class GA	SL-MW-12	SL-MW-12	SL-MW-12	SL-MW-12	SL-MW-12
Laboratory ID	Ground	AC75711-027	AC83904-016	AC91322-011		AD07645-012
Sample Date	Water	11/14/13	3/24/15	5/11/16	9/21/17	11/7/18
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	well could	ND
1,1-Dichloroethene	5	ND	ND	ND	not be	ND
Acetone	50	ND	ND	ND	located, the	ND
Benzene	1	ND	ND	ND	area has	ND
2-Butanone	50	ND	ND	ND	recently been	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	landscaped	ND
Methyl tert-butyl ether	10	ND	ND	ND		ND
1,1-Dichloroethane	5	ND	ND	ND		ND
cis-1,2-Dichloroethene	5	ND	ND	ND		ND
Chloroform	7	ND	ND	ND		ND
1,1,1-Trichloroethane	5	ND	ND	ND		ND
Trichloroethene	5	ND	ND	ND		ND
Tetrachloroethene	5	2.4	***10.0***	***13.0***		***11.0***
Xylenes (Total)	5	ND	ND	ND		ND
Toluene	5	ND	ND	ND		ND
Chlorobenzene	5	ND	ND	ND		ND
1,2-Dichlorobenzene	4.7	ND	ND	ND		ND
Number of VOC TICs						
Total VOC TIC conc.		ND	ND			

Notes:
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J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13
Sample ID	Class GA	SMW-13	SMW-13	SL-MW-13	SL-MW-13	SL-MW-13	SL-MW-13
Laboratory ID	Ground	E0832-02	F1174-07C	G2115-07	J0189-02	K0834-02	L1786-04
Sample Date	Water	6/15/06	8/22/07	11/12/08	2/2/10	5/10/11	8/21/12
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Acetone	50	4.0 J	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	ND	ND	6.7
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	6.0	2.7 J	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	3.0 J	ND	ND	ND	ND	0.71 J
Tetrachloroethene	5	***5.0***	ND	1.0 J	ND	ND	1.0 J
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND
Number of VOC TICs		0	0	1			
Total VOC TIC conc.		ND	ND	26 J			

Notes:
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NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-13	MW-13	MW-13	MW-13	MW-13
Sample ID	Class GA	SL-MW-13	SL-MW-13	SL-MW-13	SL-MW-13	SL-MW-13
Laboratory ID	Ground	AC75711-029	AC83924-007	AC91322-012	AD00342-002	AD07645-013
Sample Date	Water	11/14/13	3/24/15	5/11/16	9/28/17	11/7/18
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	1.2	1.4	0.57	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	1.3	ND
Xylenes (Total)	5	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND
Number of VOC TICs						
Total VOC TIC conc.		ND	ND			

Notes:
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D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14
Sample ID	Class GA	SMW-14	SMW-14	SL-MW-14	SL-MW-14	SL-MW-14	SL-MW-14
Laboratory ID	Ground	E0832-03	F1174-06C	G2115-18	J0189-04	K0834-05	L1786-08
Sample Date	Water	6/15/06	8/22/07	11/14/08	2/2/10	5/10/11	08/22/12
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	1.1 J	8.0	4.6 J
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	2.0 J	ND	ND	ND	ND
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND
Number of VOC TICs		0	0	1			
Total VOC TIC conc.		ND	ND	20 J			ND

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-14	MW-14	MW-14	MW-14	MW-14
Sample ID	Class GA	SL-MW-14	SL-MW-14	SL-MW-14	SL-MW-14	SL-MW-14
Laboratory ID	Ground	AC75711-031	AC83924-003	AC91322-013	AD00205-005	AD07645-014
Sample Date	Water	11/14/13	3/25/15	5/11/16	9/21/17	11/7/18
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	6.8	0.81	0.67	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND
Xylenes (Total)	5	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND
Number of VOC TICs						
Total VOC TIC conc.		12.0 J	4.8 J			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
Sample ID	Class GA	SMW-11	SMW-11	SL-MW-11	SL-MW-11	SL-MW-11	SL-MW-11
Laboratory ID	Ground	E0773-19		G2115-01			
Sample Date	Water	6/8/06	8/20/07	11/11/08	2/1/10	5/10/11	08/22/12
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	NA	ND	NA	NA	NA
1,1-Dichloroethene	5	ND	NA	ND	NA	NA	NA
Acetone	50	ND	NA	ND	NA	NA	NA
Benzene	1	ND	NA	ND	NA	NA	NA
2-Butanone	50	ND	NA	ND	NA	NA	NA
trans-1,2-Dichloroethene	5	ND	NA	ND	NA	NA	NA
Methyl tert-butyl ether	10	ND	NA	1.8 J	NA	NA	NA
1,1-Dichloroethane	5	ND	NA	ND	NA	NA	NA
cis-1,2-Dichloroethene	5	3.0 J	NA	***13.0***	NA	NA	NA
Chloroform	7	ND	NA	ND	NA	NA	NA
1,1,1-Trichloroethane	5	ND	NA	ND	NA	NA	NA
Trichloroethene	5	4.0 J	NA	ND	NA	NA	NA
Tetrachloroethene	5	***56***	NA	***60***	NA	NA	NA
Xylenes (Total)	5	ND	NA	ND	NA	NA	NA
Toluene	5	ND	NA	***63***	NA	NA	NA
Chlorobenzene	5	ND	NA	4.8 J	NA	NA	NA
1,2-Dichlorobenzene	4.7	ND	NA	ND	NA	NA	NA
Number of VOC TICs		1		1			
Total VOC TIC conc.		6 J	NA	22 J			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-11		MW-11		MW-11		MW-11		MW-11	
Sample ID	Class GA	SL-MW-11		SL-MW-11		SL-MW-11		SL-MW-11		SL-MW-11	
Laboratory ID	Ground					AC91322-001		AD00205-006		AD07645-011	
Sample Date	Water	11/12/13		3/25/15		5/9/16		9/21/17		11/6/18	
	Criteria	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Vinyl Chloride	2	NA		NA		1.8		***2.5***		ND	
1,1-Dichloroethene	5	NA		NA		ND		ND		ND	
Acetone	50	NA		NA		ND		ND		ND	
Benzene	1	NA		NA		ND		ND		ND	
2-Butanone	50	NA		NA		ND		ND		ND	
trans-1,2-Dichloroethene	5	NA		NA		ND		ND		ND	
Methyl tert-butyl ether	10	NA		NA		6.9		5.1		1.8	
1,1-Dichloroethane	5	NA		NA		ND		ND		ND	
cis-1,2-Dichloroethene	5	NA		NA		***5.9***		***6.1***		3.4	
Chloroform	7	NA		NA		ND		ND		ND	
1,1,1-Trichloroethane	5	NA		NA		ND		ND		ND	
Trichloroethene	5	NA		NA		2.4		1.9		2.6	
Tetrachloroethene	5	NA		NA		***28.0***		***18.0***		***16.0***	
Xylenes (Total)	5	NA		NA		ND		ND		ND	
Toluene	5	NA		NA		ND		ND		ND	
Chlorobenzene	5	NA		NA		ND		ND		ND	
1,2-Dichlorobenzene	4.7	NA		NA		ND		ND		ND	
Number of VOC TICs											
Total VOC TIC conc.											

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-16		MW-16		MW-16		MW-16		MW-16		MW-16	
Sample ID	Class GA	SMW-16		SMW-16		SL-MW-16		SL-MW-16		SL-MW-16		SL-MW-16	
Laboratory ID	Ground	E0832-04		F1174-12B		G2115-05		J0189-05		K0834-08		L1786-09	
Sample Date	Water	6/15/06		8/27/07		11/12/08		2/2/10		5/11/11		08/22/12	
	Criteria	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Vinyl Chloride	2	ND		ND		ND		1.2	J	ND		***2.1***	***J***
1,1-Dichloroethene	5	4.0	J	ND		ND		2.4	J	ND		1.1	J
Acetone	50	ND		ND		ND		ND		ND		ND	
Benzene	1	ND		ND		ND		ND		ND		ND	
2-Butanone	50	ND		ND		ND		ND		ND		ND	
trans-1,2-Dichloroethene	5	ND		ND		ND		ND		ND		ND	
Methyl tert-butyl ether	10	2.0	J	ND		ND		ND		ND		1.4	J
1,1-Dichloroethane	5	ND		ND		ND		ND		ND		ND	
cis-1,2-Dichloroethene	5	***15.0***		ND		2.1	J	***16.0***		***8.0***		***20.0***	
Chloroform	7	ND		ND		ND		ND		ND		ND	
1,1,1-Trichloroethane	5	***5.0***		ND		ND		2.8	J	ND		1.7	J
Trichloroethene	5	***16.0***		ND		1.1	J	***11.0***		***7.5***		***9.5***	
Tetrachloroethene	5	***25.0***		2.0	J	***6.9***		***48.0***		***95.0***		***100***	
Xylenes (Total)	5	ND		ND		ND		ND		ND		ND	
Toluene	5	ND		ND		ND		ND		ND		ND	
Chlorobenzene	5	ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	4.7	ND		ND		ND		ND		ND		ND	
Number of VOC TICs		0		0		1							
Total VOC TIC conc.		ND		ND		23	J						

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-16	MW-16	MW-16	MW-16	MW-16
Sample ID	Class GA	SL-MW-16	SL-MW-16	SL-MW-16	SL-MW-16	SL-MW-16
Laboratory ID	Ground	AC75711-007	AC83924-005	AC91322-014	AD00205-007	AD07645-015
Sample Date	Water	11/12/13	3/24/15	5/11/16	9/20/17	11/7/18
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	1.2	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND
Acetone	50	13.0	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	0.7	ND	***13.0***	***11.0***	***10.0***
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	1.1	ND	***6.8***	***7.4***	***7.2***
Chloroform	7	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	3.0	3.6	3.2
Tetrachloroethene	5	3.7	ND	***22.0***	***23.0***	***26.0***
Xylenes (Total)	5	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND
Number of VOC TICs						
Total VOC TIC conc.		ND	ND			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S
Sample ID	Class GA	SMW-23S	SMW-23S	SL-MW-23S	SL-MW-23S	SL-MW-23S	SL-MW-23S
Laboratory ID	Ground	E0773-20	F1174-11B	G2115-03	J0196-03	K0834-06	L1786-03
Sample Date	Water	6/8/06	8/27/07	11/12/08	2/3/10	5/11/11	8/21/12
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	2.5 J	2.2 J
Acetone	50	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	1.0 J	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	1.0 J	ND	5.4	3.9 J	9.5
1,1-Dichloroethane	5	ND	ND	ND	ND	1.6 J	ND
cis-1,2-Dichloroethene	5	***360 D***	***180 D***	***45.0***	***38.0***	***83.0***	***47.0***
Chloroform	7	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	1.6 J	1.3 J	3.8 J	3.5 J
Trichloroethene	5	***220 D***	***99.0***	***18.0***	***15.0***	***46.0***	***28.0***
Tetrachloroethene	5	***5,200 D***	***1,700 D***	***500 D***	***590 D***	***1,500 D***	***1,800 D***
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND
Number of VOC TICs		2	0	1			
Total VOC TIC conc.		1,250 JD	ND	21 J			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S
Sample ID	Class GA	SL-MW-23S	SL-MW-23S	SL-MW-23S	SL-MW-23S	SL-MW-23S
Laboratory ID	Ground	AC75711-020	AC83924-009	AC91322-018	AD00135-006	AD07645-016
Sample Date	Water	11/13/13	3/25/15	5/12/16	9/19/17	11/6/18
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	2.4	***10.0***	ND	1.7
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	***12.0***	ND	***15.0***	***9.8***
Chloroform	7	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND
Trichloroethene	5	ND	***5.4***	ND	***8.3***	***6.4***
Tetrachloroethene	5	***2,500***	***390***	***2,300***	***1,000***	***470***
Xylenes (Total)	5	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND
Number of VOC TICs						
Total VOC TIC conc.		ND	ND			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D
Sample ID	Class GA	SMW-23D	SMW-23D	SL-MW-23D	SL-MW-23D	SL-MW-23D	SL-MW-23D
Laboratory ID	Ground	E0773-21	F1174-09B	G2115-04	J0196-04	K0834-07	L1786-01
Sample Date	Water	6/8/06	8/27/07	11/12/08	2/3/10	5/11/11	8/21/12
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	ND	ND	0.97 J
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	3.0 J	***5.5***
Chloroform	7	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	1.2 J	2.8 J
Tetrachloroethene	5	4.0 J	***6.0***	***7.7***	***8.3***	***25.0***	***57.0***
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND
Number of VOC TICs		1	0	1			
Total VOC TIC conc.		6 J	ND	25 J			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2018 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D
Sample ID	Class GA	SL-MW-23D	SL-MW-23D	SL-MW-23D	SL-MW-23D	SL-MW-23D
Laboratory ID	Ground	AC75711-024	AC83924-011	AC91322-017	AD00135-007	AD07645-017
Sample Date	Water	11/13/13	3/25/15	5/12/16	9/19/17	11/8/18
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	1.1	ND
Acetone	50	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	1.8	1.5	1.1	1.6	1.2
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	***10.0***	***9.3***	***9.3***	***14.0***	***13.0***
Chloroform	7	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	1.1	ND	ND	ND
Trichloroethene	5	***5.2***	***6.2***	***5.0***	***9.8***	***6.7***
Tetrachloroethene	5	***130***	***110***	***170***	***280***	***240***
Xylenes (Total)	5	ND	ND	ND	ND	1.9
Toluene	5	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND
Number of VOC TICs						
Total VOC TIC conc.		ND	ND			

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells
Compounds of Concern

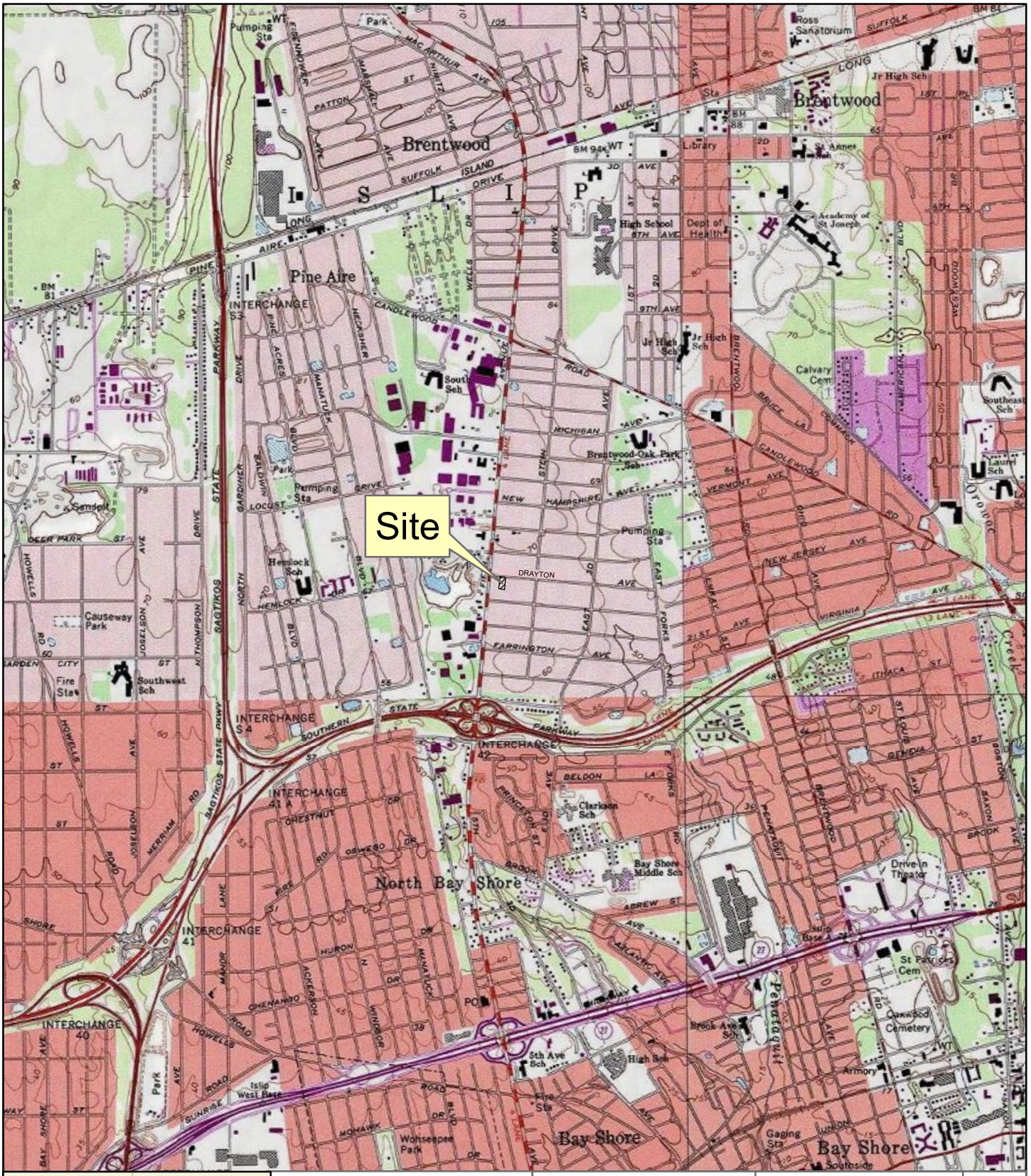
TABLE 4
SUMMARY OF HISTORIC TETRACHLOROETHENE CONCENTRATIONS IN SELECTED MONITORING WELLS
SERVALL LAUNDRY SITE (SITE 1-52-077)

	MW-2	MW-3A	MW-3B	MW-1	MW-4	MW-5	MW-6A	MW-6B	MW-12	MW-13	MW-14	MW-11	MW-16	MW-23S	MW-23D
Nov 2018		ND	ND	ND	ND	NA	***15***	***470***	***11***	ND	ND	***16***	***26***	***470***	***240***
Sept 2017	NA	1.2	ND	ND	ND	NA	***11***	***340***	NA	1.3	ND	***18***	***23***	***1,000***	***280***
May 2016	NA	ND	ND	***15***	ND	NA	ND	***330***	***13***	ND	ND	***28***	***22***	***2,300***	***170***
Mar 2015	1.1	ND	ND	***14***	NA	ND	ND	***1,200***	***10***	ND	ND	NA	ND	***390***	***110***
Nov 2013	ND	ND	ND	***5.6***	ND	NA	ND	***1,500***	2.4	ND	ND	NA	3.7	***2,500***	***130***
Aug 2012	ND	ND	ND	***18***	ND	ND	ND	***23***	0.80 J	1.0 J	ND	NA	***100***	***1,800 D***	***57***
May 2011	2.1 J	ND	ND	NA	ND	ND	ND	***150***	1.6 J	ND	ND	NA	***95***	***1,500 D***	***25***
Feb 2010	ND	ND	ND	***50***	ND	ND	1.2 J	***2,000 D***	***10***	ND	ND	NA	***48***	***590 D***	***8.3***
Nov 2008	ND	ND	ND	NA	ND	ND	ND	***470 D***	***60***	1.0 J	ND	***60***	***6.9***	***500 D***	***7.7***
Aug 2007	ND	ND	NA	NA	ND	2.0 J	ND	***480 D***	***17***	ND	2 J	NA	2.0 J	***1,700 D***	***6.0***
Apr 2007	NA	NA	NA	NA	ND	ND	ND	***650***	NA	NA	NA	NA	NA	NA	NA
June 2006	NA	ND	NA	NA	ND	ND	ND	***1,100 D***	***17***	***5.0***	ND	***56***	***25***	***5,200 D***	4.0 J
May 2004	NA	NA	NA	NA	NA	NA	NA	NA	***7.0***	0.3 J	ND	NA	***410 E***	4.0	0.6 J
July 2000	NA	ND	ND	NA	NA	ND	ND	***160***	***820 D***	***6.0 J***	ND	***96***	***1,600 D***	***27***	***8.0 J***
Jan 1999	ND	NA	ND	NA	ND	3.0 J	1.0 J	***22 J***	***6.0 J***	4.0 J	ND	***290 J***	NA	***29 J***	3.0 J
Jan 1998	NA	ND	NA	NA	4.0	ND	2.0	***11,000***	2.0	ND	ND	***20***	***450***	NA	ND
Dec 1995	NA	0.34 J	ND	NA	ND	NA	ND	***8,400 E***	NA	***230***	NA	***800***	***1,700 E***	***7.8***	ND
Mar 1990	1.0 J	ND	***8.1 J***	NA	ND	ND	***100***	***13,000 DJ***	ND	***4,600 JD***	ND	***5,900***	***960 JD***	NA	NA
Feb 1990	***6.0***	ND	***6.0***	NA	ND	ND	***48***	***14,000***	ND	***5,800 D***	ND	***8,900***	***260***	NA	NA

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells

Notes:
Concentrations in µg/L ***BOLD/ITALICIZED*** - equals or exceeds the Class GA criterion of 5 µg/L.
ND - Not detected
NA - Not sampled or data not available
E - Concentration exceeded the QC criterion, no dilution run data found
D - Dilution
J - Estimated concentration
The data presented in this table is a compilation of data available at the time of this report and is not a comprehensive listing of all data collected.
May 2004 - Data is very confusing. It is difficult to establish which well is presented on the Form 1s. (taken from report.hw152077.2004-05.GW04.pdf)
July 2000 data from H2M Labs, (ServAll data Summary July 2000.pdf)
January 1999 & January 1998 (Harding Lawson, 1999 Groundwater Sampling Technical Memorandum (ServAll 1999 gw sampling.pdf)
December 1995 data from Plume Discharge Study (ServAll December 1995.pdf)
February and March 1990 data from E.C. Jordan, RI/FS 1992 (ServAll Jan 1992.pdf)

Figures



USGS NY Bay Shore West and Green Lawn Quadrangles

U.S.G.S. 1:24 000 SCALE TOPOGRAPHIC MAP

Prepared by: AECOM

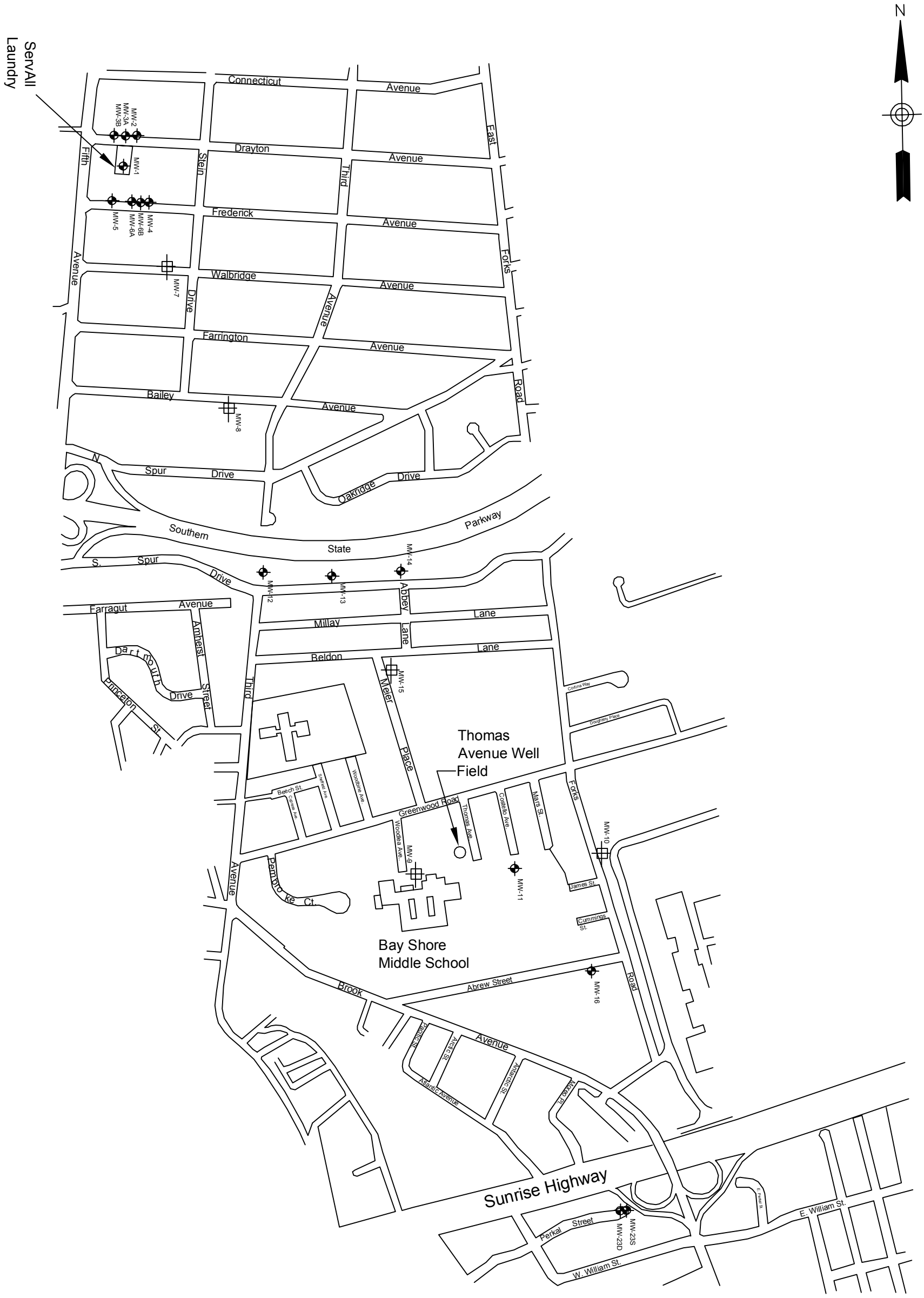
Prepared for: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Multi Site G
Operation, Maintenance & Monitoring

Site Location
ServAll Laundry Site

Date:	Scale:	Figure No. :
January 2013	1 inch = 2,500 feet	1

L:\work\60277021_Multi_Site_G\01 - ServAll Laundry\7.0 Deliverables\7.2 CADD\LTM-Reports



LEGEND:

MW-16 EXISTING MONITORING WELLS

MW-10 DAMAGED OR MISSING MONITORING WELLS

GRAPHIC SCALE

0 350 700 1400

Scale in Feet

Prepared by : AECOM

SUBMITTED BY : PK/jk	MULTI SITE G - SERVALL LAUNDRY SITE SITE NO. 1-52-026
DRAWN BY : SC	**MONITORING WELL LOCATION MAP**
APPROVED BY : PK	DATE : AUGUST 2016 / SCALE : AS SHOWN / DRAWING NO. : **2**

L:\work\60277021_Multi_Site_G\01 - ServAll Laundry\7.0 Deliverables\7.2 CADD\LTM-Reports

LEGEND:

MW-16 EXISTING MONITORING WELLS

DAMAGED OR MISSING MONITORING WELLS

GROUNDWATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

GROUNDWATER ISOPLETH, CONTOUR INTERVAL IS 2.0 ft

DIRECTION OF GROUNDWATER FLOW

GRAPHIC SCALE

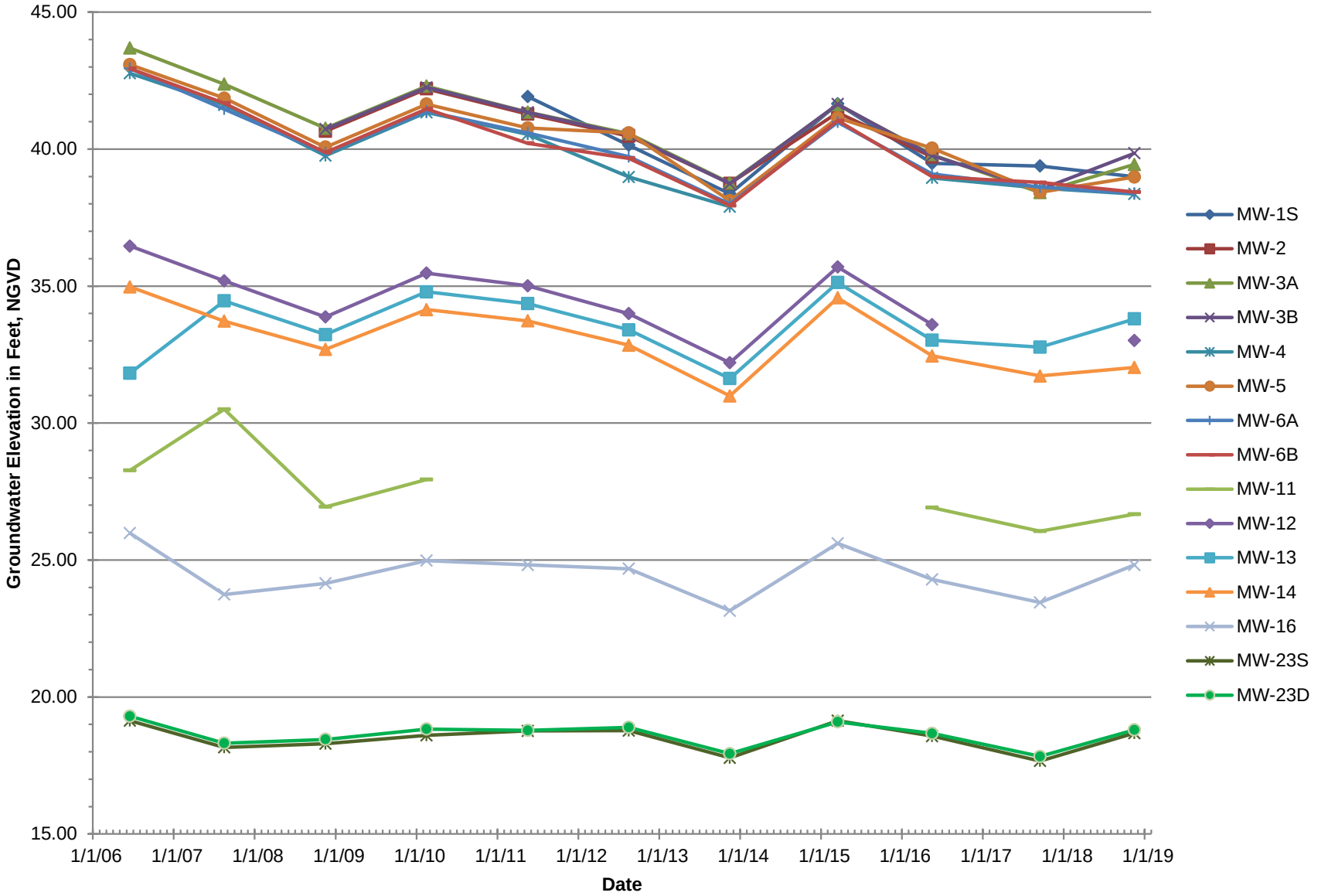
0 350 700 1400

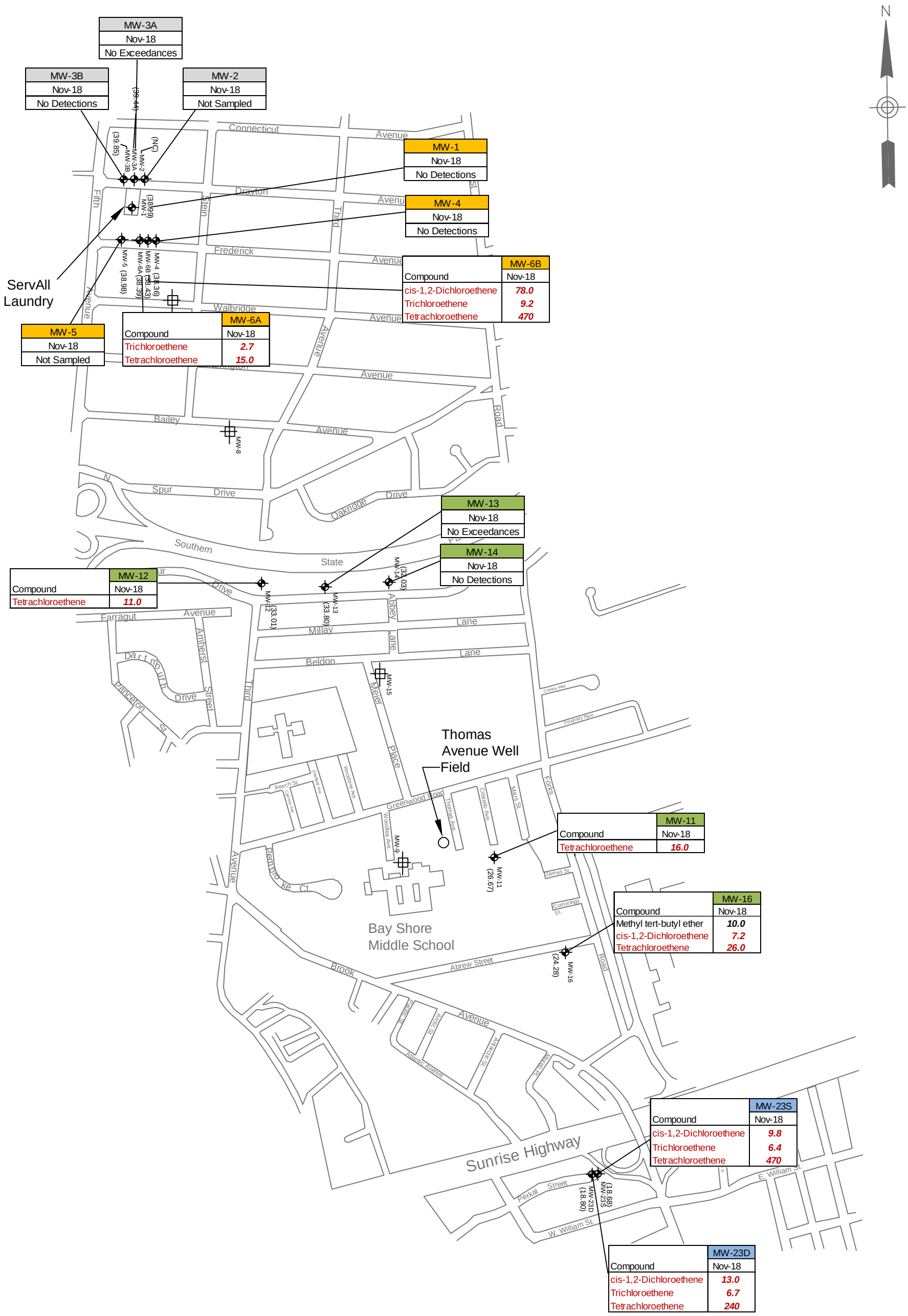
Scale in Feet

Prepared by : AECOM

SUBMITTED BY : PK	MULTI SITE G - SERVALL LAUNDRY SITE SITE NO. 1-52-026
DRAWN BY : SC/jk	**GROUNDWATER CONTOUR MAP NOVEMBER 2018**
APPROVED BY : PK	DATE : FEBRUARY 2019 / SCALE : AS SHOWN / DRAWING NO. : 3

FIGURE 4
GROUNDWATER HYDROGRAPH
SERVALL LAUNDRY SITE, #1-52-077





LEGEND:

EXISTING MONITORING WELLS (MW-14)

DAMAGED OR MISSING MONITORING WELL (MW-10)

Compound	NYSDEC Criteria
Vinyl Chloride	2
Methyl Tert Butyl Ether	10
cis-1,2-Dichloroethene	5
1,1,1-Trichloroethane	5
Trichloroethene	5
Tetrachloroethene	5

Upgradient Wells
Source Area Wells
Downgradient Wells
Sentinel Wells

Note:
All results are shown in micrograms per liter (ug/L)
BOLD: Results Exceeds Criterion
J: Estimated value
D: Dilution

GRAPHIC SCALE
0 350 700 1400
Scale in Feet

Prepared by : AECOM

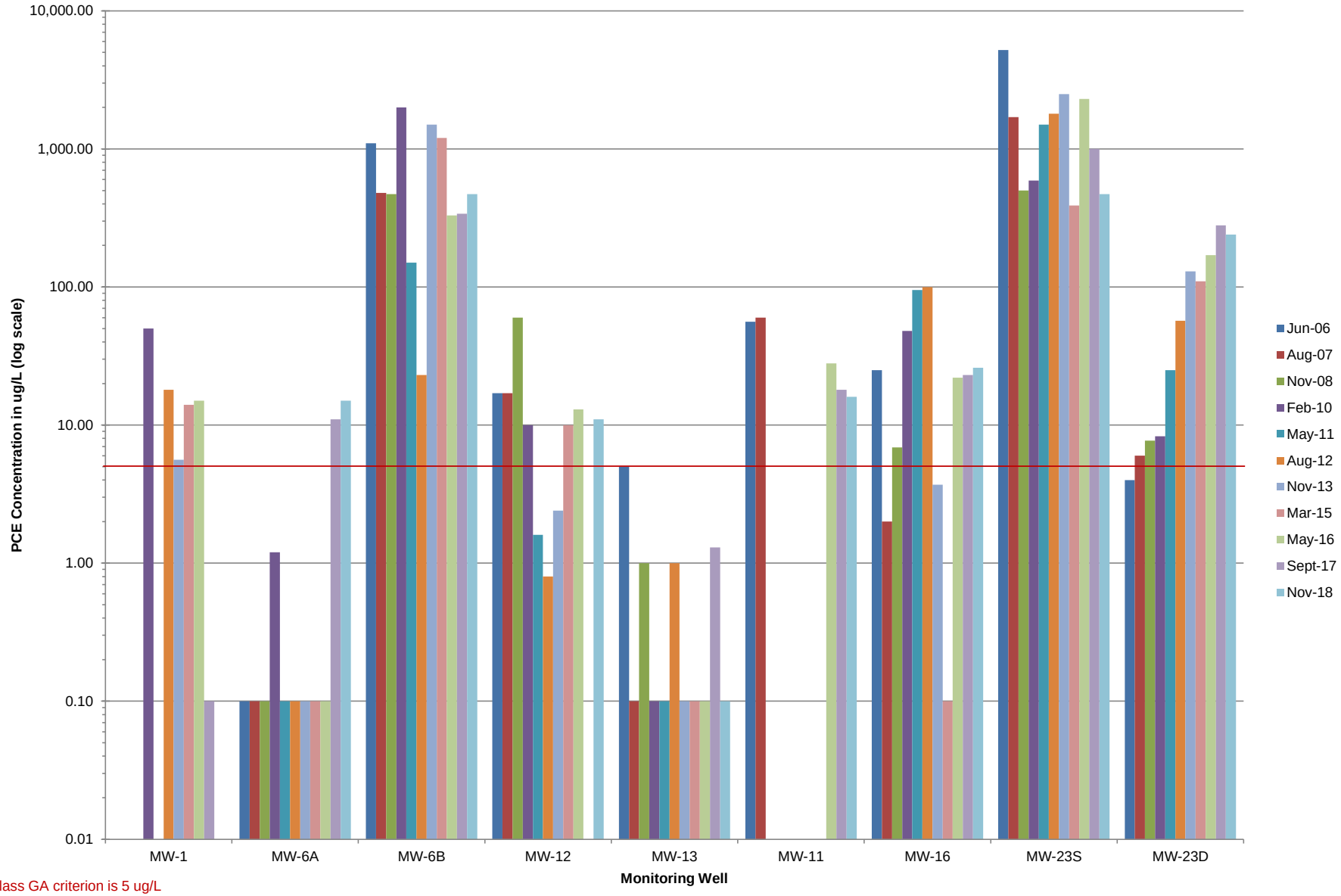
SUBMITTED BY : PK
DRAWN BY : SC
APPROVED BY : PK

MULTI SITE G - SERVALL LAUNDRY SITE
SITE NO. 1-52-077

SUMMARY OF VOCs IN GROUNDWATER NOVEMBER 2018

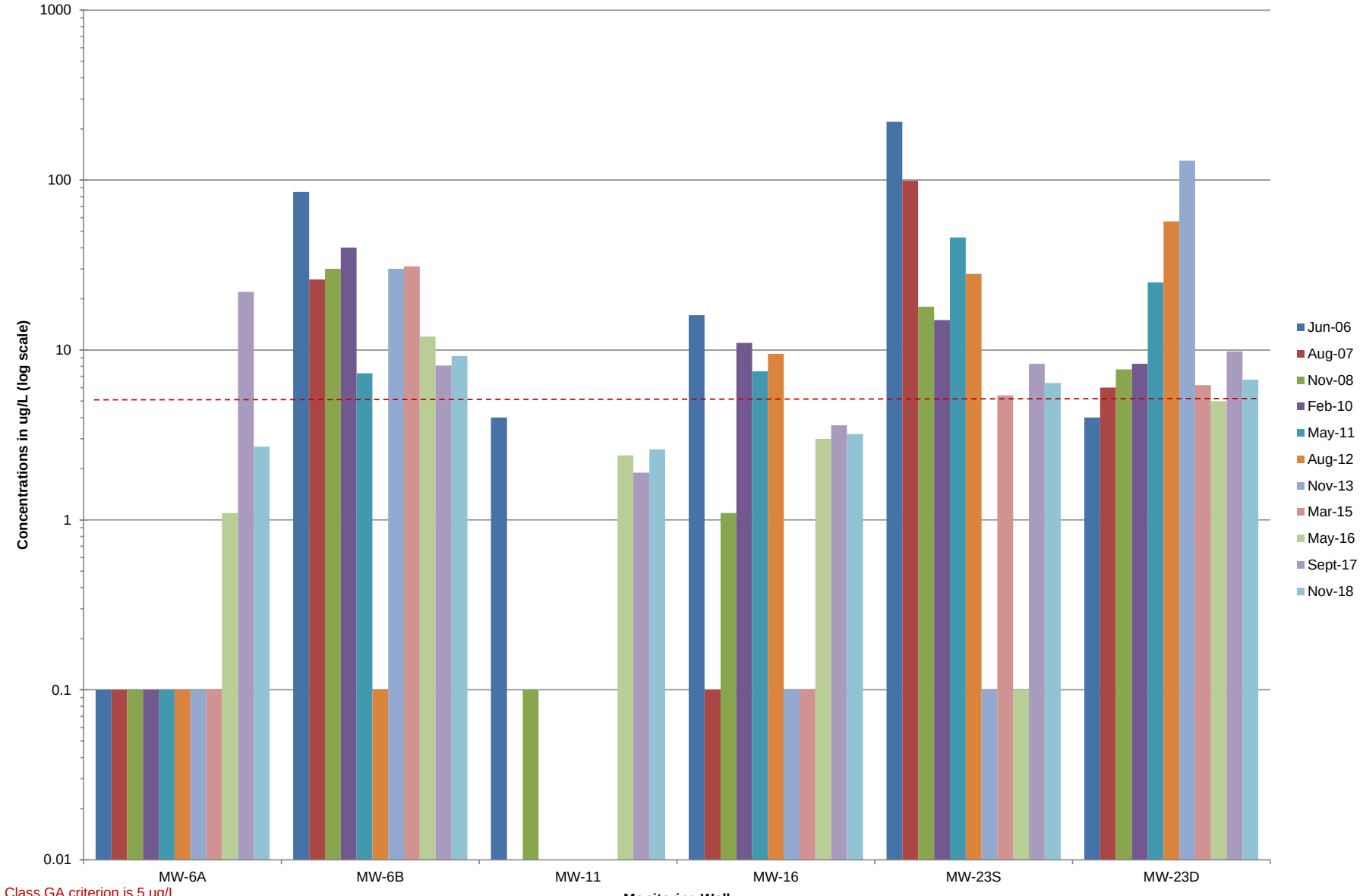
DATE : FEBRUARY 2019
SCALE : AS SHOWN
DRAWING NO. : 5

Figure 6
Tetrachloroethene Concentrations in Selected Monitoring Wells
ServAll Laundry Site (1-52-077)



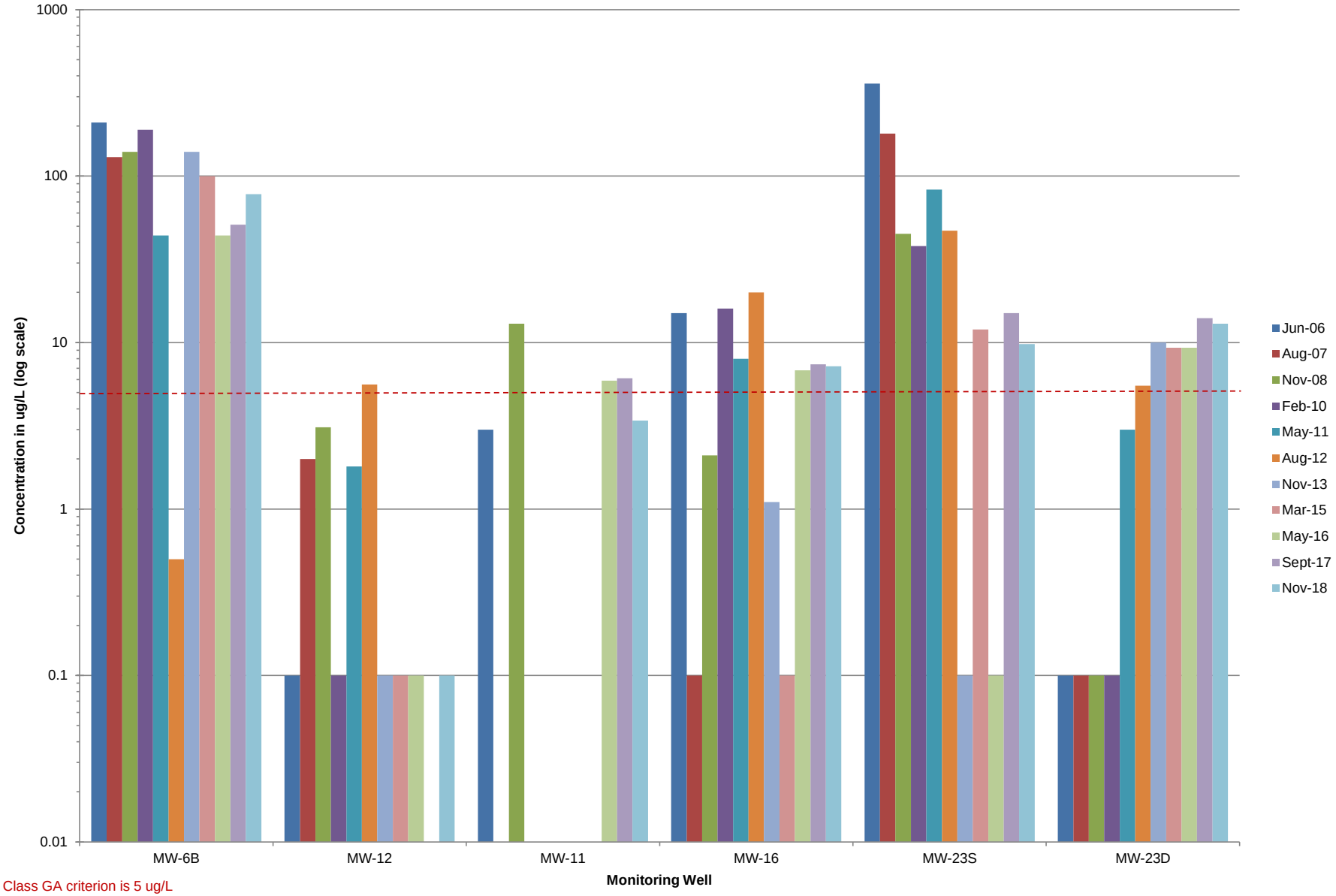
Class GA criterion is 5 ug/L
ND values set to 0.10 for plotting purposes

Figure 7
Trichloroethene Concentrations in Selected Monitoring Wells
ServAll Laundry Site (1-52-077)



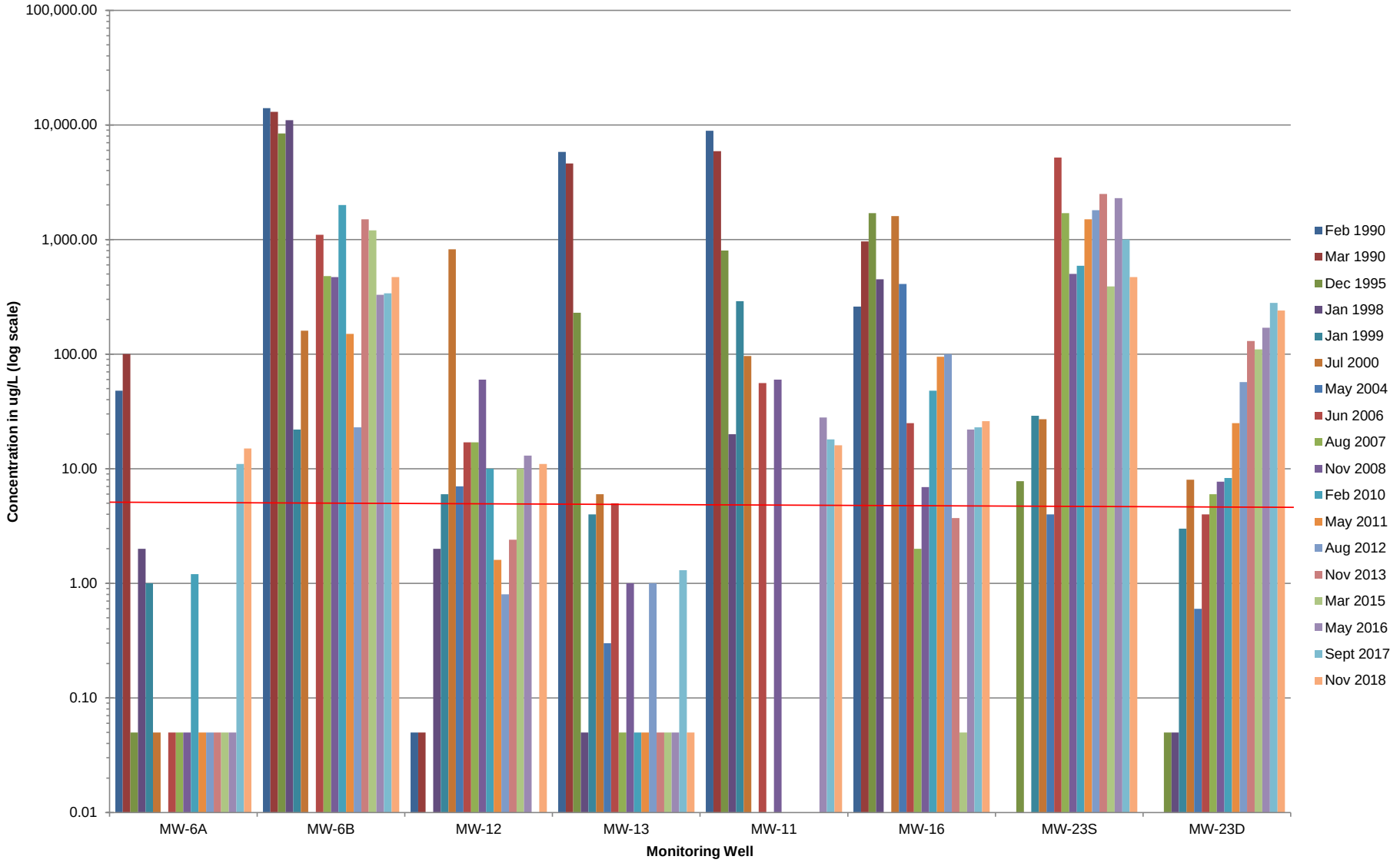
Class GA criterion is 5 ug/L
ND values set to 0.1 for plotting purposes

Figure 8
Cis-1,2-Dichloroethene Concentrations in Selected Monitoring Wells
ServAll Laundry Site (1-52-077)



Class GA criterion is 5 ug/L
ND values set to 0.1 for plotting purposes

FIGURE 9
HISTORIC PCE CONCENTRATIONS IN SELECTED MONITORING WELLS
SERVALL LAUNDRY SITE (1-52-077)



PCE Class GA criterion is 5 ug/L
ND values set to 0.05 ft to differentiate from "not collected"

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LEGEND:

MW-16	EXISTING MONITORING WELLS
MW-10	DAMAGED OR MISSING MONITORING WELL
(60)	PCE CONCENTRATION IN ug/L
10	PCE ISOCONCENTRATION LINE (ug/L), BASED ON RESULTS FROM MW-2, MW-3A, MW-3B, MW-4, MW-5, MW-6A, MW-6B, MW-11, MW-12, MW-13, MW-14, MW-16 MW-23S, AND MW-23D
NA	NOT SAMPLED
ND	NOT DETECTED
PCE	CLASS GA CRITERIA IS 5 ug/L

GRAPHIC SCALE

0 350 700 1400

Scale in Feet

Prepared by : AECOM

SUBMITTED BY : PK/jk

DRAWN BY : SC

APPROVED BY : PK

MULTI SITE G - SERVALL LAUNDRY SITE
SITE NO. 1-52-026

PCE ISOCONCENTRATION MAP JUNE 2006

DATE : JANUARY 2012

SCALE : AS SHOWN

DRAWING NO. : 10A

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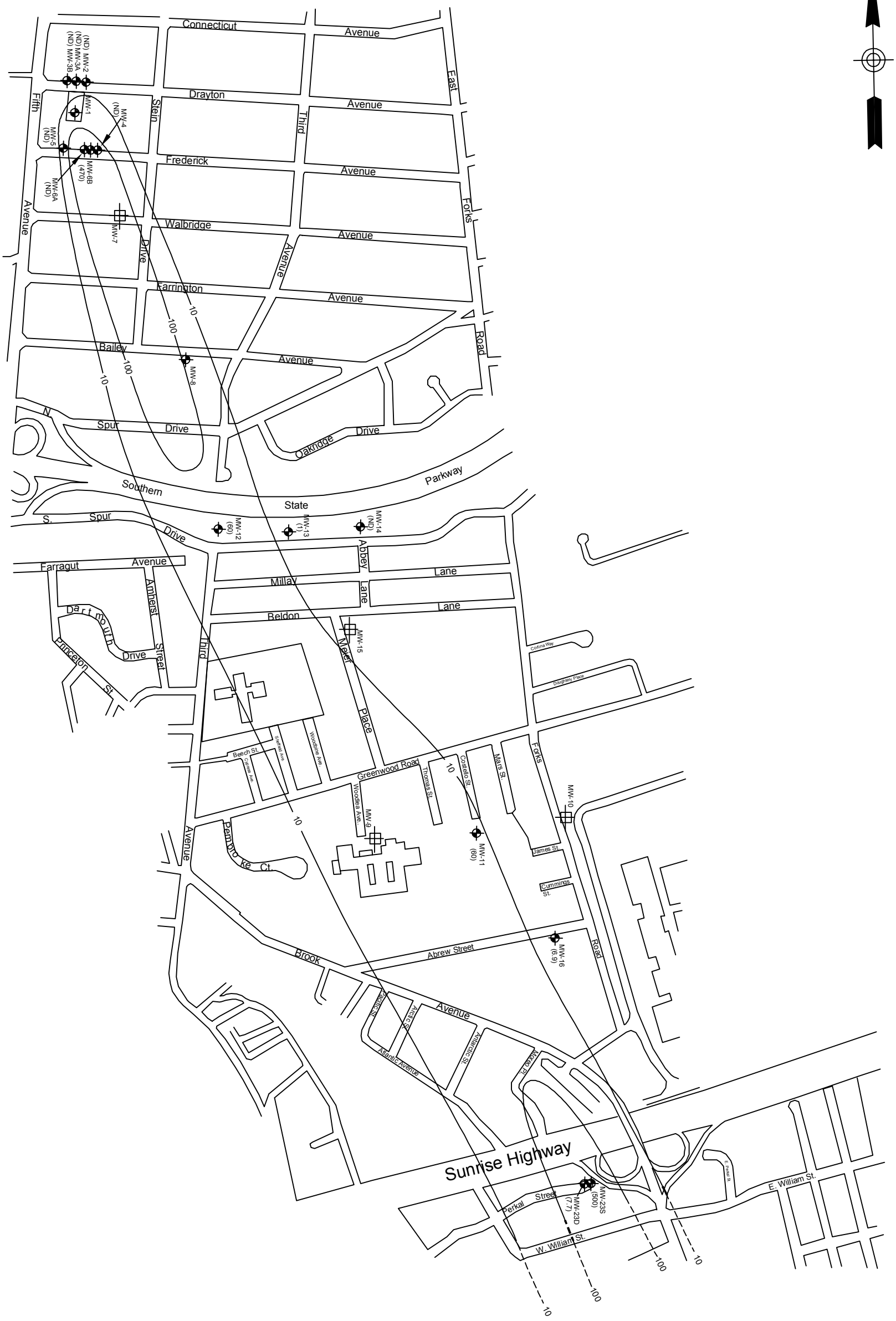

LEGEND:

MW-16	EXISTING MONITORING WELLS
MW-10	DAMAGED OR MISSING MONITORING WELL
(60)	PCE CONCENTRATION IN ug/L
10	PCE ISOCONCENTRATION LINE (ug/L), BASED ON RESULTS FROM MW-2, MW-3A, MW-3B, MW-4, MW-5, MW-6A, MW-6B, MW-11, MW-12, MW-13, MW-14, MW-16 MW-23S, AND MW-23D
NA	NOT SAMPLED
ND	NOT DETECTED
PCE	CLASS GA CRITERIA IS 5 ug/L

GRAPHIC SCALE

0 350 700 1400

Scale in Feet

Prepared by : AECOM

SUBMITTED BY : PK/jk	MULTI SITE G - SERVALL LAUNDRY SITE SITE NO. 1-52-026
DRAWN BY : SC	**PCE ISOCONCENTRATION MAP NOVEMBER 2008**
APPROVED BY : PK	DATE : JANUARY 2012 / SCALE : AS SHOWN / DRAWING NO. : 10B

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LEGEND:

MW-16	EXISTING MONITORING WELLS
MW-10	DAMAGED OR MISSING MONITORING WELL
(60)	PCE CONCENTRATION IN ug/L
10	PCE ISOCONCENTRATION LINE (ug/L), BASED ON RESULTS FROM MW-2, MW-3A, MW-3B, MW-4, MW-5, MW-6A, MW-6B, MW-11, MW-12, MW-13, MW-14, MW-16 MW-23S, AND MW-23D
NA	NOT SAMPLED
ND	NOT DETECTED
PCE	CLASS GA CRITERIA IS 5 ug/L

GRAPHIC SCALE

0 350 700 1400

Scale in Feet

Prepared by : AECOM

SUBMITTED BY : PK	MULTI SITE G - SERVALL LAUNDRY SITE SITE NO. 1-52-026
DRAWN BY : SC	**PCE ISOCONCENTRATION MAP MAY 2011**
APPROVED BY : PK	DATE : JANUARY 2012 / SCALE : AS SHOWN / DRAWING NO. : 10C

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LEGEND:

MW-14 — EXISTING MONITORING WELLS

MISSING MONITORING WELLS

DAMAGED MONITORING WELLS

PCE PLUME

Note:
- All results are in micrograms per liter (ug/L)
- J: Estimated value
- NA: Not analyzed
- ND: Non detect

Note: Monitoring wells MW-6B and MW-6A are screened at a higher elevation within the glacial drift sand (not directly on top of the glacial marine clay).

GRAPHIC SCALE

0 350 700 1400

Scale in Feet

Prepared by : AECOM

SUBMITTED BY : PK

DRAWN BY : VM/jk

APPROVED BY : PK

SERVALL LAUNDARY SITE
BAY SHORE, NEW YORK

PCE ISOCONCENTRATION MAP AUGUST 2012

DATE : OCTOBER 2012

SCALE : AS SHOWN

DRAWING NO. : 10D

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LEGEND:

- MW-14 — EXISTING MONITORING WELLS
- MISSING MONITORING WELLS
- DAMAGED MONITORING WELLS
- PCE PLUME

Note:
- All results are in micrograms per liter (ug/L)
- NA: Not analyzed
- ND: Non detect

Note: Monitoring wells MW-6B and MW-6A are screened at a higher elevation within the glacial drift sand (not directly on top of the glacial marine clay).

GRAPHIC SCALE
0 350 700 1400
Scale in Feet

Prepared by : AECOM

SUBMITTED BY : PK

DRAWN BY : VM/jk

APPROVED BY : PK

SERVALL LAUNDARY SITE
BAY SHORE, NEW YORK

PCE ISOCONCENTRATION MAP NOVEMBER 2013

DATE :	SCALE :	DRAWING NO. :
NOVEMBER 2013	AS SHOWN	10E

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LEGEND:

MW-14 — EXISTING MONITORING WELLS

MISSING MONITORING WELLS

DAMAGED MONITORING WELLS

PCE PLUME

Note:
- All results are in micrograms per liter (ug/L)
- J: Estimated value
- NA: Not analyzed
- ND: Non detect

Note: Monitoring wells MW-6B and MW-6A are screened at a higher elevation within the glacial drift sand (not directly on top of the glacial marine clay).

GRAPHIC SCALE

0 350 700 1400

Scale in Feet

Prepared by : AECOM

SUBMITTED BY : PK

DRAWN BY : SC

APPROVED BY : PK

MULTI SITE G - SERVALL LAUNDRY SITE
SITE NO. 1-52-026

PCE ISOCONCENTRATION MAP MARCH 2015

DATE : APRIL 2015

SCALE : AS SHOWN

DRAWING NO. : 10F

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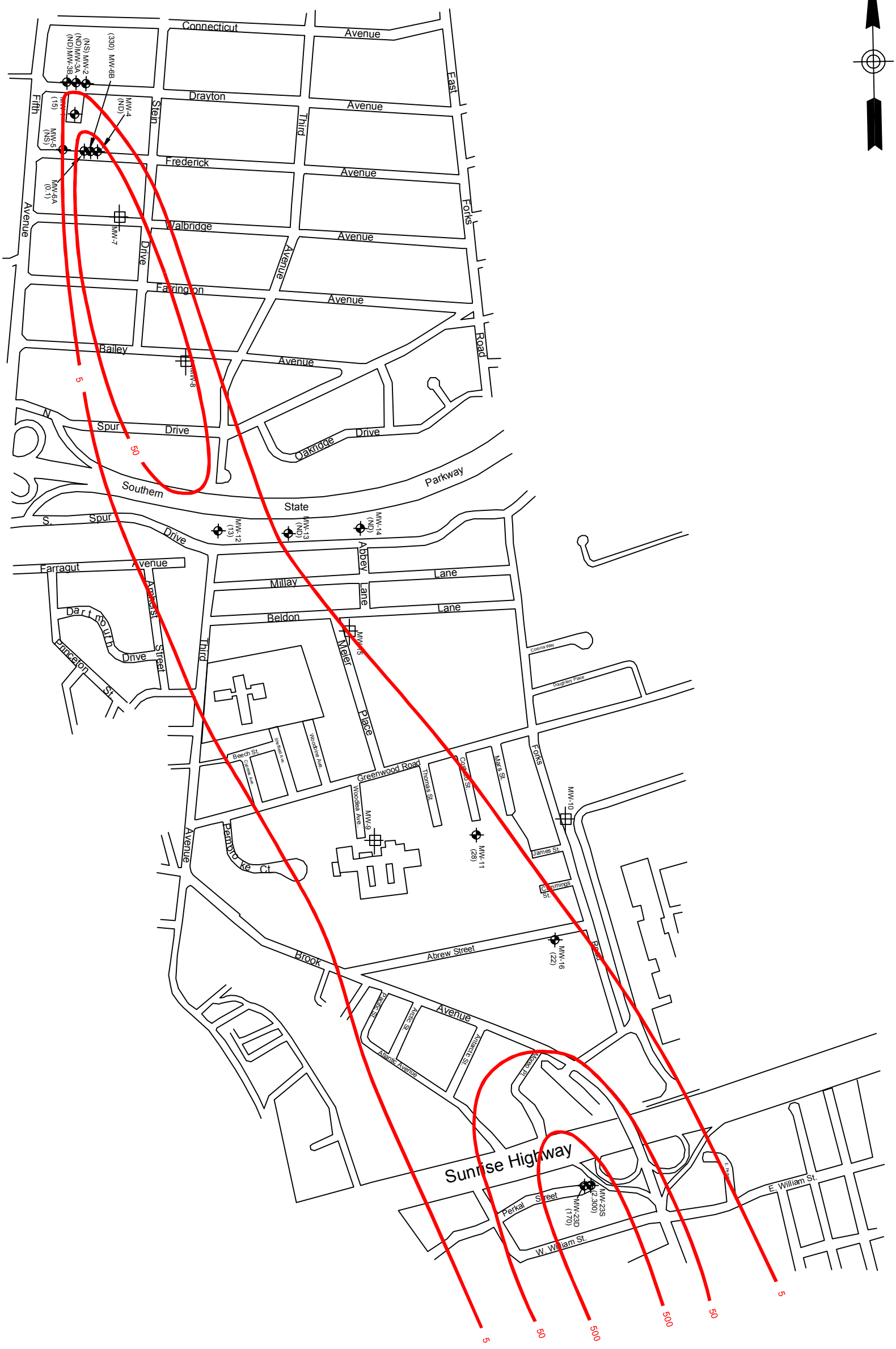

LEGEND:

MW-14 — EXISTING MONITORING WELLS

DAMAGED OR MISSING MONITORING WELLS

PCE PLUME

Note:
- All results are in micrograms per liter (ug/L)
- J: Estimated value
- NS: Not sampled
- NA: Not analyzed
- ND: Non detect

Note: Monitoring wells MW-6B and MW-6A are screened at a higher elevation within the glacial drift sand (not directly on top of the glacial marine clay).

GRAPHIC SCALE

0 350 700 1400

Scale in Feet

Prepared by : AECOM

SUBMITTED BY : PK	MULTI SITE G - SERVALL LAUNDRY SITE SITE NO. 1-52-026
DRAWN BY : SC	**PCE ISOCONCENTRATION MAP MAY 2016**
APPROVED BY : PK	DATE : AUGUST 2016 / SCALE : AS SHOWN / DRAWING NO. : **10G**

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LEGEND:

MW-14 — EXISTING MONITORING WELLS

DAMAGED OR MISSING MONITORING WELLS

PCE PLUME

Note:
- All results are in micrograms per liter (ug/L)
- J: Estimated value
- NS: Not sampled
- NA: Not analyzed
- ND: Non detect

Note: Monitoring wells MW-6B and MW-6A are screened at a higher elevation within the glacial drift sand (not directly on top of the glacial marine clay).

GRAPHIC SCALE

0 350 700 1400

Scale in Feet

Prepared by : AECOM

SUBMITTED BY : PK

DRAWN BY : SC

APPROVED BY : PK

MULTI SITE G - SERVALL LAUNDRY SITE
SITE NO. 1-52-026

PCE ISOCONCENTRATION MAP SEPTEMBER 2017

DATE : NOVEMBER 2017

SCALE : AS SHOWN

DRAWING NO. : 10H

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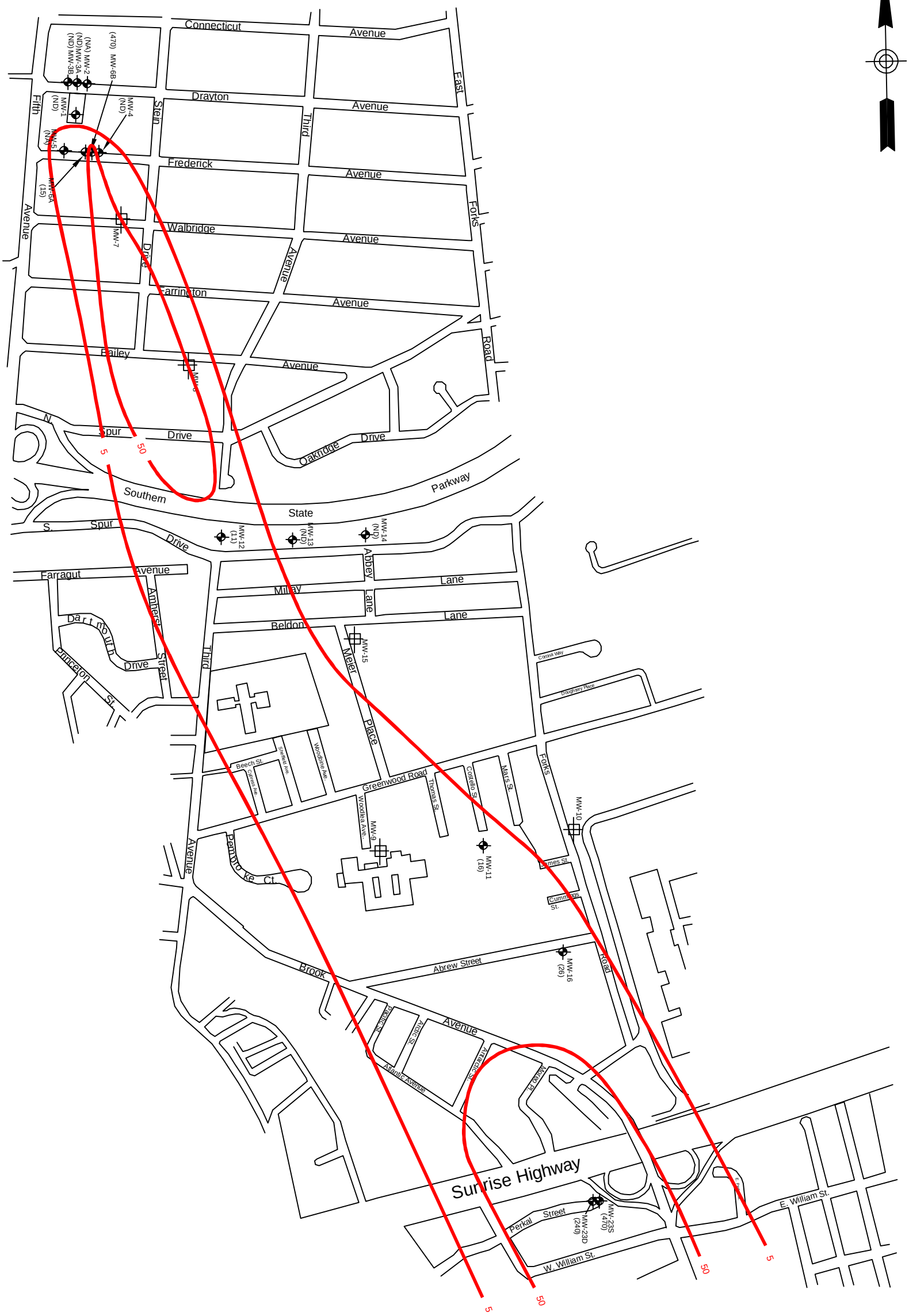


LEGEND:

MW-14 — EXISTING MONITORING WELLS

DAMAGED OR MISSING MONITORING WELLS

PCE PLUME

Note:
- All results are in micrograms per liter (ug/L)
- J: Estimated value
- NS: Not sampled
- NA: Not analyzed
- ND: Non detect

Note: Monitoring wells MW-6B and MW-6A are screened at a higher elevation within the glacial drift sand (not directly on top of the glacial marine clay).

GRAPHIC SCALE
0 350 700 1400
Scale in Feet

Prepared by : AECOM

SUBMITTED BY : PK

DRAWN BY : SC

APPROVED BY : PK

MULTI SITE G - SERVALL LAUNDRY SITE
SITE NO. 1-52-026

PCE ISOCONCENTRATION MAP NOVEMBER 2018

DATE : FEBRUARY 2019

SCALE : AS SHOWN

DRAWING NO. : **10I**

Appendix A

NYSDEC Monitoring Well Field Inspection Logs

SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: PM/HL

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/08/18 0800
Well ID.: MW-1

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report
PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-1

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED	PID 0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	FLUSH
PROTECTIVE CASING MATERIAL TYPE:	STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	86.70
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	25.8
MEASURE WELL DIAMETER (Inches):	4
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	NO OVERHEAD, UNDER UNKOWN

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

LOCATED BEHIND KC SCHOOBS PRODUCTS IN PARKING LOT

VEHICLES PARKED NEAR WELL

STORAGE DRUMS STORED NEAR WELL

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

WELL IN PAVED PARKING AREA

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

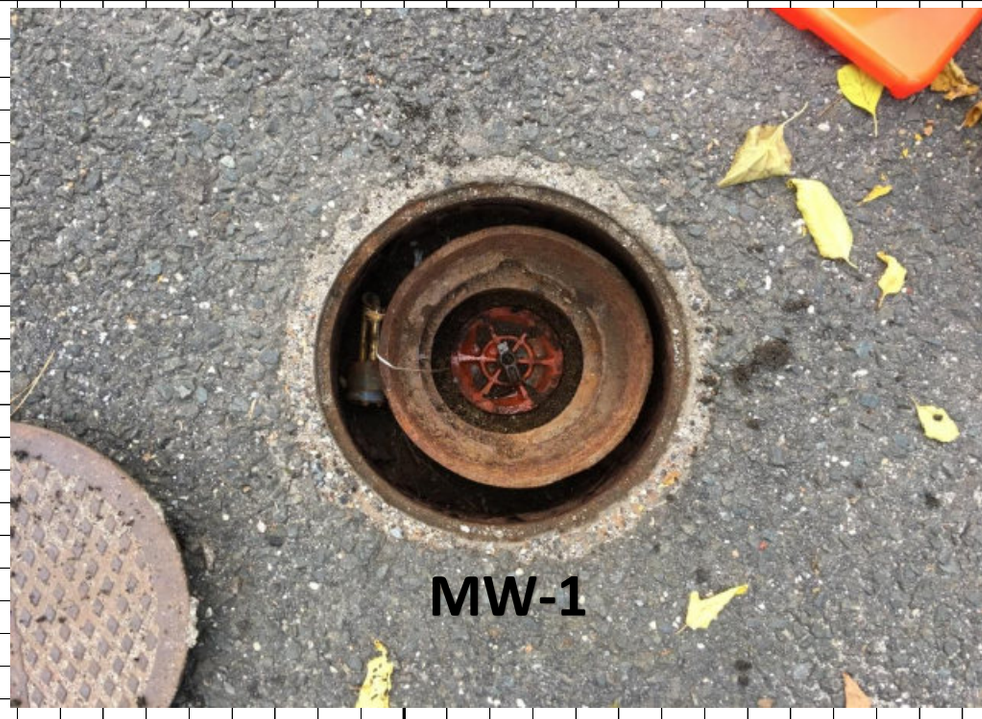
PARKED CARS

REMARKS:

TUBING IN WELL

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: CH/PM

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/08/2018 1200
Well ID.: MW-2

	YES	NO
WELL VISIBLE? (If not, provide directions below)		X

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report
PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)		X

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

HEADSPACE READING (ppm) AND INSTRUMENT USED ..... PID NA
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) ..... NA
PROTECTIVE CASING MATERIAL TYPE: ..... NA
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): ..... NA

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): ..... NA
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): ..... NA
MEASURE WELL DIAMETER (Inches): ..... NA
WELL CASING MATERIAL: ..... NA
PHYSICAL CONDITION OF VISIBLE WELL CASING: ..... NA
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE ..... NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES ..... NA

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

NO ACCESS TO THE WELL DUE TO NEW PAVEMENT AND LANDSCAPE

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

NA

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

NA

REMARKS:

SITE CONDITION CHANGE DUE TO LANSCAPE CHANGING, WELL NOT VISIBLE

NO SAMPLING DUE TO WELL NOT FOUND

MONITORING WELL INSPECTION LOG

SKETCH

MONITORING WELL INSPECTION LOG
SKETCH

SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: PM/HL

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/08/2018 1020
Well ID.: MW-3A

	YES	NO
WELL VISIBLE? (If not, provide directions below)		X

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report
PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	FLUSH
PROTECTIVE CASING MATERIAL TYPE:	STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	114.38
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	24.93
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	POOR
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	NO OVERHEAD, UNDER UNKOWN

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

ALONG NORTH SIDEWALK OF DRAYTON AVE AT END OF CLOTHING BUILDING AND FENCE CORNER

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

LOCATED IN MEDIAN BETWEEN SIDEWALK AND STREET

WELL LID MISSING, IN-FILLED WITH SOIL OVER J-PLUG

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

SOIL

REMARKS:

TUBING IN WELL

MONITORING WELL INSPECTION LOG

SKETCH

SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: PM & HL

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/05/18 1515
Well ID.: MW-3B

	YES	NO
WELL VISIBLE? (If not, provide directions below)		X

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report
PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.7
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	FLUSH
PROTECTIVE CASING MATERIAL TYPE:	STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	85.79
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	24.69
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	POOR
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	NO OVERHEAD, UNDER UNKOWN

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

12 FEET WEST OF MW-3A

ALONG NORTHERN SIDEWALK OF DRAYTON AVE

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

WELL LOCATED IN GRASSY MEDIAN BETWEEN ROAD AND SIDEWALK

PROTECTIVE CASING IS DAMAGED, LID BROKEN AND COVERED WITH SOIL ON TOP

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

SOIL

REMARKS:

VEGETATION COVERING THE WELL, TUBING IN WELL

MONITORING WELL INSPECTION LOG

SKETCH

SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: CH, PM & HL

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/05/18 0730
Well ID.: MW-4

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report
PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL MW-4

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	FLUSH
PROTECTIVE CASING MATERIAL TYPE:	STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	83.55
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	24.75
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE Well ID under the cap	
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	NO OVERHEAD, UNDER UNKOWN

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

LOCATED IN FRONT OF 15 FREDERICK AVE IN BETWEEN MW-6B AND PZ-4

SURFACE SEAL CRACKED

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

LOCATED ON GRASSY MEDIAN BETWEEN SIDEWALK AND ROADWAY

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

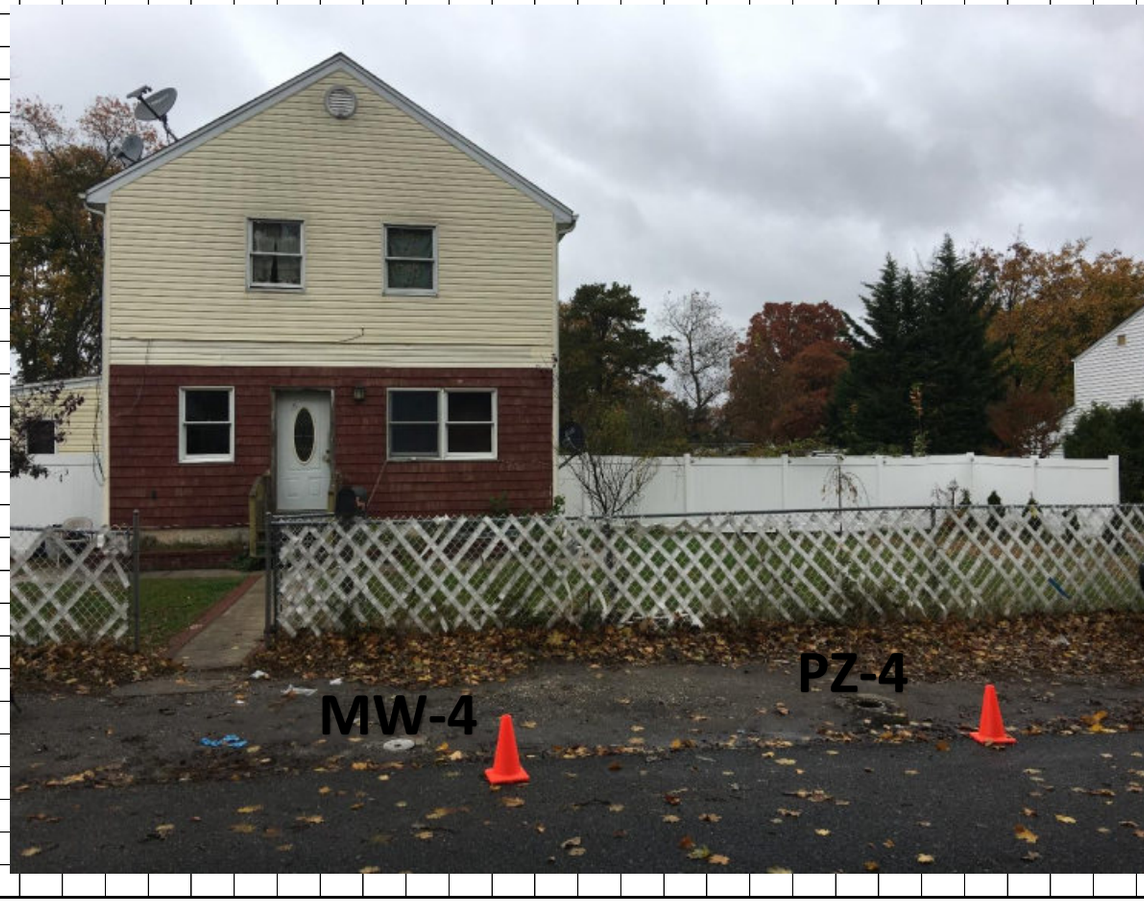
Top Soil

REMARKS:

TUBING IN WELL

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: CH, PM & HL

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/05/18 0930
Well ID.: MW-5

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report
PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-5

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	FLUSH
PROTECTIVE CASING MATERIAL TYPE:	STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	25.98
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	25.08
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	NO OVERHEAD, UNDER UNKOWN

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

LOCATED IN FRONT OF 9 FREDERICK AVE

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

WELL IN NORTHERN SHOULDER OF ROAD (GRASSY AREA)

CASING BROKEN, LID MISSING

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

SOIL

REMARKS:

UNABLE TO SAMPLE DUE TO LOW WATER LEVEL

MONITORING WELL INSPECTION LOG

SKETCH

SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: CH PM HL
DATE/TIME: 11/05/18 0845
Well ID.: MW-6A

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)		X

WELL COORDINATES? NYTM X 40°45.300'N NYTM Y -76° 15.675' W See Report
PDOP Reading from Trimble pathfinder: Satellites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	FLUSH
PROTECTIVE CASING MATERIAL TYPE:	STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	28.80
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	25.48
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	OK
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	NO OVERHEAD, UNER UNKOWN

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

7 FEET WEST OF MW-6B

IN FRONT OF 11 FREDERICK AVENUE

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

WELL IN SHOULDER OF ROAD (NO SIDEWALK), SURFACE SEAL BROKEN

TOP OF WELL FILLED WITH SOIL, GRAVEL AND ROOTS

PROTECTIVE CASING LID MISSING

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

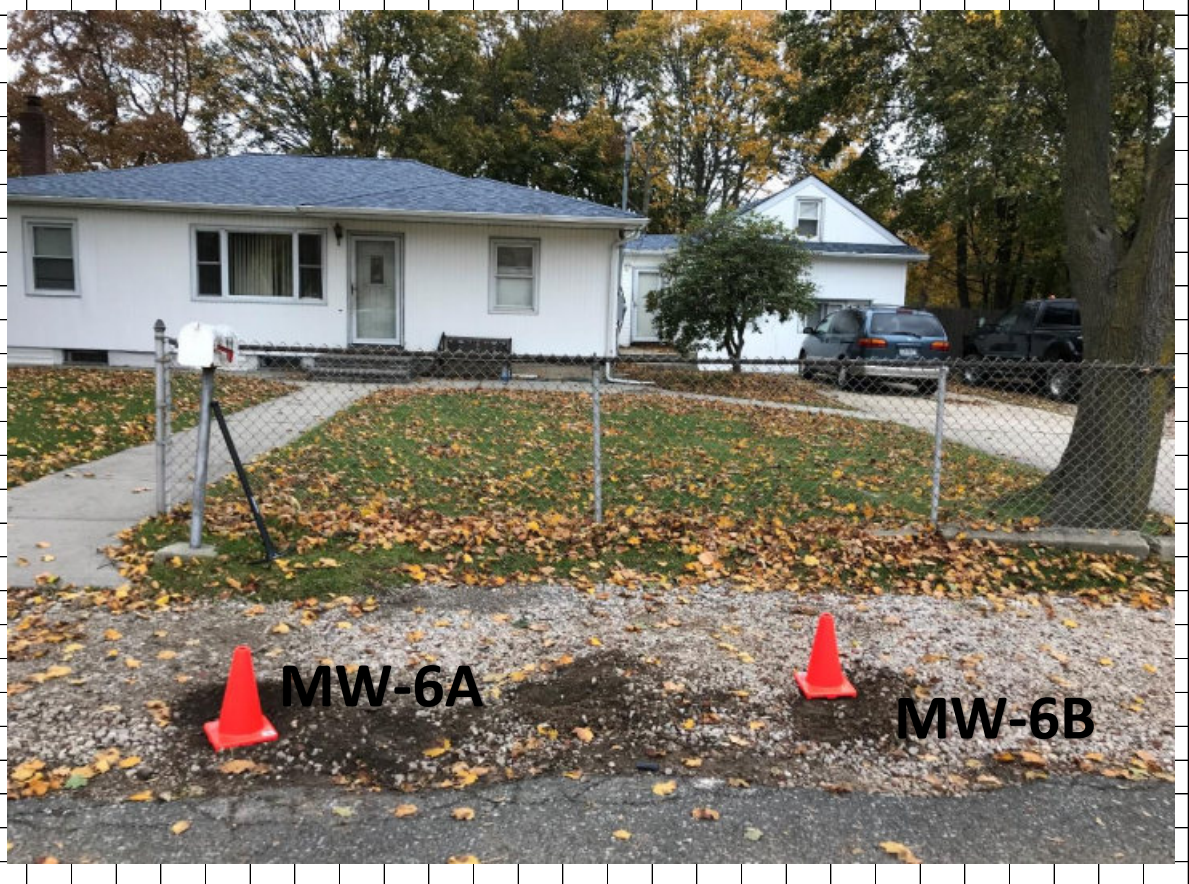
SOIL

REMARKS:

TUBING IN WELL

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: CH PM HL

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/05/18, 1130
Well ID.: MW-6B

	YES	NO
WELL VISIBLE? (If not, provide directions below)		X

WELL COORDINATES? NYTM X 40°45.303'N NYTM Y -76° 15.676' W See Report
PDOP Reading from Trimble pathfinder: Satellites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	FLUSH
PROTECTIVE CASING MATERIAL TYPE:	STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	59.03
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	25.4
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	OK
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	NO OVERHEAD, UNDER UNKOWN

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

7 FEET EAST OF MW-6A

IN FRONT OF 11 FREDERICK AVENUE

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

WELL IN SHOULDER OF ROAD (NO SIDEWALK)

NO PROTECTIVE CASING, LID BROKE, NO SURFACE SEAL, TOP OF WELL COVERED BY SOIL & GRAVEL

PLANT ROOTS AND GRAVEL FILLED IN

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

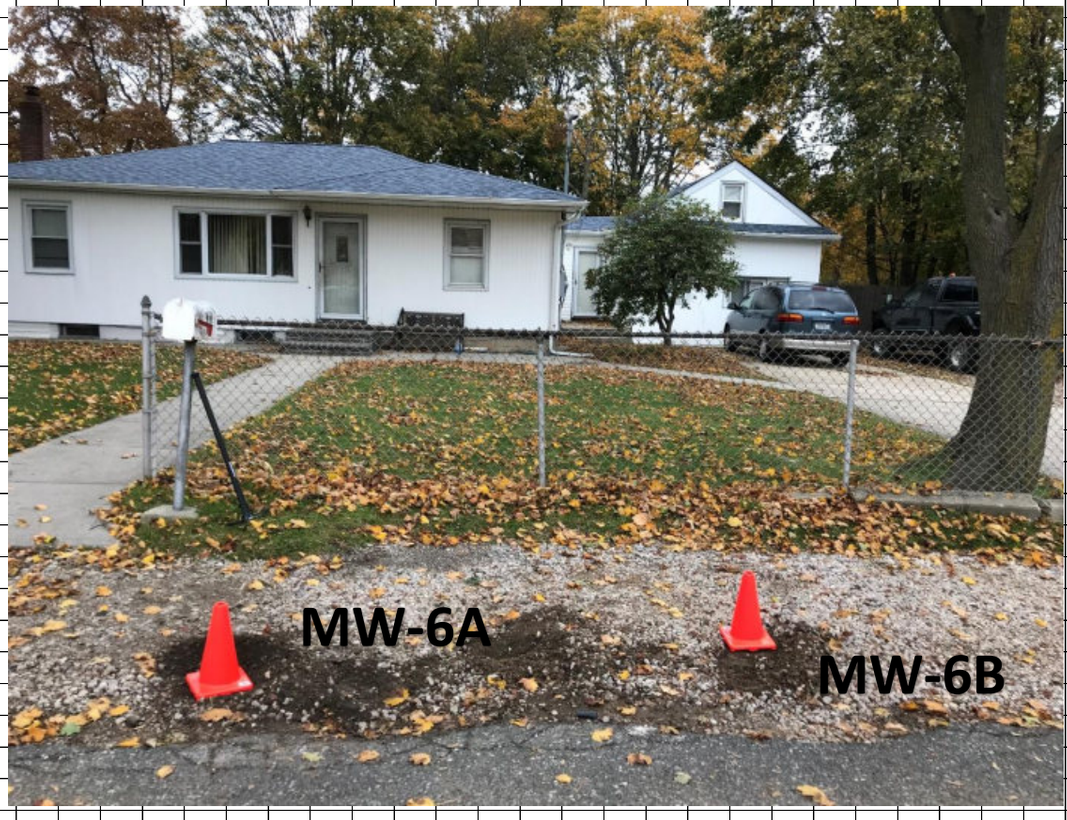
SOIL

REMARKS:

TUBING IN WELL, BOTTOM RED IN COLOR

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: PM/HL

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/06/18 1500
Well ID.: MW-11

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report
PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	FLUSH
PROTECTIVE CASING MATERIAL TYPE:	PVC
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	89.25
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	10.4
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	NO OVERHEAD, UNDER UNKNOWN

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

LOCATED NORTH OF BAY SHORE MIDDLE SCHOOL PLAYGROUND
NEAR THE TREE LINE IN THE GRASSY FIELD AREA

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

WELL IN GRASSY FIELD AREA

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

NONE

REMARKS:

TUBING IN WELL

MONITORING WELL INSPECTION LOG

SKETCH MW-11

SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: PM/HL

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/07/18 0730
Well ID.: MW-12

	YES	NO
WELL VISIBLE? (If not, provide directions below)		X

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report
PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: .....

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

HEADSPACE READING (ppm) AND INSTRUMENT USED ..... PID 0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) ..... FLUSH
PROTECTIVE CASING MATERIAL TYPE: ..... STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 6

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 89.10
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 17.6
MEASURE WELL DIAMETER (Inches): 2
WELL CASING MATERIAL: ..... STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING: ..... GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE ..... NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES ..... NO OVERHEAD, UNDER UNKNOWN

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

LOCATED 70 FT BEFORE LIGHT POST 1048

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

LOCATED AT GRASSY AREA AT TREE LINE

LID MISSING, SOIL ON TOP OF J-PLUG, COVERED WITH LEAVES AND GARBAGE

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

SOIL, GARBAGE

REMARKS:

TUBING IN WELL

MONITORING WELL INSPECTION LOG

SKETCH

SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: PM/HL

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/07/18 0810
Well ID.: MW-13

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report
PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	FLUSH
PROTECTIVE CASING MATERIAL TYPE:	STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	96.38
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	16.53
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	NO OVERHEAD, UNDER UNKNOWN

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

11 FT NORTHEAST OF LIGHT POLE 1052

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

GRASSY ROAD SIDE (SOUTHERN STATE PARKWAY)

LID MISSING, SOIL ON TOP OF PLUG

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

SOIL, LEAVES

REMARKS:

TUBING IN WELL

MONITORING WELL INSPECTION LOG

SKETCH

SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: PM/HL

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/07/18 1050
Well ID.: MW-14

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report
PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	FLUSH
PROTECTIVE CASING MATERIAL TYPE:	STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	90.00
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	17.95
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	NO OVERHEAD, UNDER UNKNOWN

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

45 FEET PAST LIGHT POLE 1056

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

GRASSY ROAD SIDE (SOUTHERN STATE PARKWAY)

LID BROKEN, SOIL ON TOP OF J-PLUG, COVERED WITH LEAVES

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

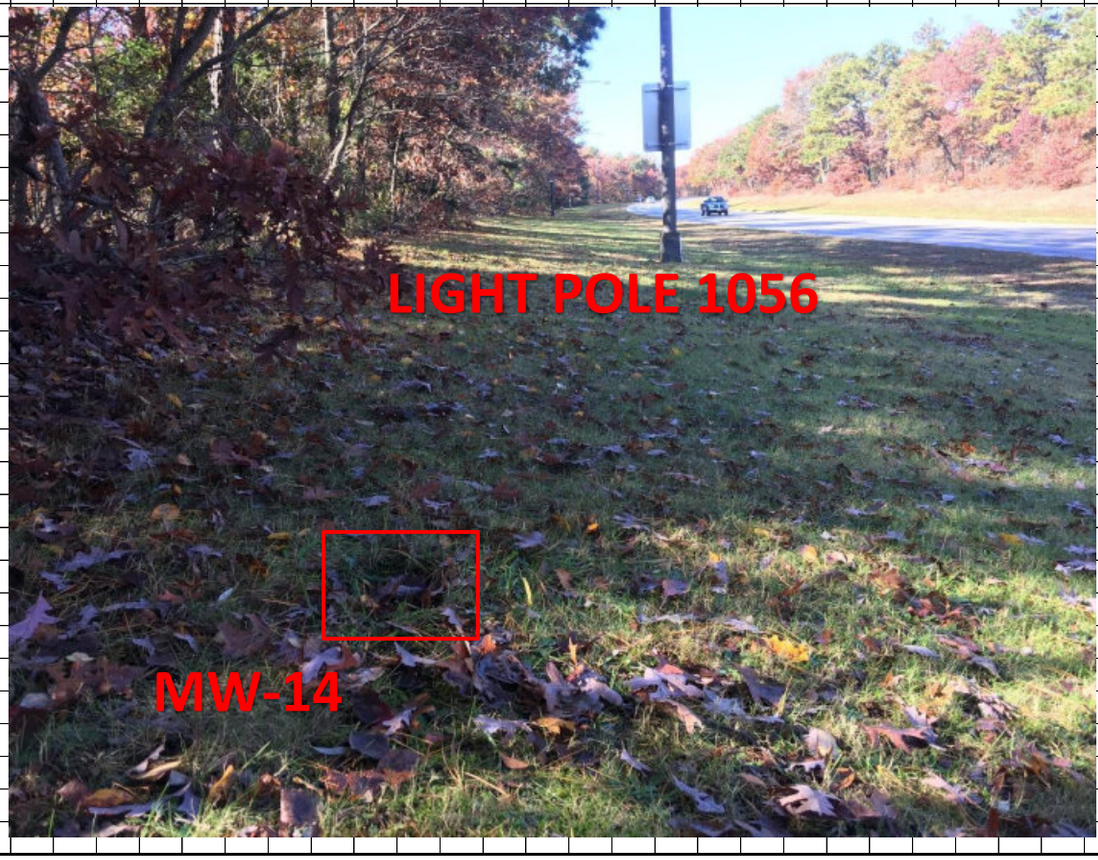
SOIL, LEAVES

REMARKS:

TUBING IN WELL

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: PM/HL

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/07/18 1500
Well ID.: MW-16

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report
PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: .....

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

HEADSPACE READING (ppm) AND INSTRUMENT USED ..... PID: 0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) ..... FLUSH
PROTECTIVE CASING MATERIAL TYPE: ..... STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 6

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 93.10
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 12.22
MEASURE WELL DIAMETER (Inches): 2
WELL CASING MATERIAL: ..... STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING: ..... GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE ..... NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES..... OVERHEAD WIRE ACROSS STREET, UNDER UNKNOWN

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

LOCATED IN FRONT OF 44 ABREW STREET

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

WELL SET IN PAVEMENT

SOIL ON TOP OF CASING LID, CAP CRACKED UP ONE SIDE

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

PARKED CARS, SOIL

REMARKS:

TUBING IN WELL, PVC WELL CAP

MONITORING WELL INSPECTION LOG

SKETCH

SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: PM/HL

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/08/18 0900
Well ID.: MW-23D

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report
PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-23D

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED ..... PID 0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) ..... FLUSH
PROTECTIVE CASING MATERIAL TYPE: ..... STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 6

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 87.65
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 5.65
MEASURE WELL DIAMETER (Inches): 2
WELL CASING MATERIAL: ..... STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING: ..... GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE ..... NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES ..... NO OVERHEAD, UNDER UNKNOWN

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

END OF PERKAL STREET, WEST OF MW 23S

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

WELL SET IN PAVEMENT

LID BOLTS NOT TIGHT, ONE BOLT HOLE BROKEN

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

PARKED CARS

REMARKS:

TUBING IN WELL

MONITORING WELL INSPECTION LOG

SKETCH

SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: PM/HL

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/06/18 0745
Well ID.: MW-23S

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report
PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED ..... PID 0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) ..... FLUSH
PROTECTIVE CASING MATERIAL TYPE: ..... STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 6

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 69.27
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 5.7
MEASURE WELL DIAMETER (Inches): 2
WELL CASING MATERIAL: ..... STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING: ..... GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE ..... NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES ..... NO OVERHEAD, UNDER UNKNOWN

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

END OF PERKAL STREET, EAST OF MW 23D

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

ON PAVEMENT

SURFACE SEAL CRACKED

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

PARKED CARS

REMARKS:

TUBING IN WELL

MONITORING WELL INSPECTION LOG

SKETCH

Appendix B

Monitoring Well Sampling Forms

AECOM

WELL NO. MW-1

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60277021	SHEET: 1 OF 1 SHEETS
LOCATION: 8 Drayton Avenue, Bay Shore, NY		DATE WELL STARTED: 11/8/2018	DATE WELL COMPLETED: 11/8/2018
CLIENT: NYSDEC		NAME OF INSPECTOR: Pratik Manandhar, Huibin Luo	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 40.10 Gallons WELL TD: 86.70 ft PUMP INTAKE DEPTH: 81.00 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
1250	25.80	200							Static water level, PID=0 ppm
1255	25.80	200	14.06	910	0.6	6.25	182	2.4	Pump on at 40 psi, clear water
1300	25.80	200	13.94	916	0.31	6.25	167	1.0	
1305	25.80	200	13.94	919	0.05	6.25	146	1.2	
1310	25.80	200	13.94	920	0	6.24	139	1.1	
1315	25.80	200	13.92	922	0	6.24	132	1.2	
1320	25.80	200	13.97	921	0	6.24	129	1.2	
1325	25.80	200	13.97	921	0	6.24	127	1.2	
1330	25.80	200	13.98	921	0	6.24	126	1.2	
1335	25.80	200	14	921	0	6.24	125	1.2	Collect Sample: MW-1
									Collect Duplicate Sample: MW-51
									Collect QA/QC Samples:
									MW-1-MS, MW-1-MSD

Pump Type: Bladder Pump

Analytical Parameters: TCL VOCs

AECOM

WELL NO. MW-3A

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60277021	SHEET: 1 OF 1 SHEETS
LOCATION: 8 Drayton Avenue, Bay Shore, NY		DATE WELL STARTED: 11/8/2018	DATE WELL COMPLETED: 11/8/2018
CLIENT: NYSDEC		NAME OF INSPECTOR: Pratik Manandhar, Huibin Luo	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 14.60 Gallons WELL TD: 114.38 ft PUMP INTAKE DEPTH: 104.00 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
1620	24.93	250							Static water level, PID=0 ppm
1625	24.93	250	14.93	362	0.42	6.46	119	48.8	Pump on at 45 psi, turbid water
1630	24.93	250	14.76	389	0.22	6.42	128	48.7	
1635	24.93	250	14.56	475	0	6.30	115	45.5	
1645	24.93	250	14.41	583	0	6.18	82	44.4	
1650	24.93	250	14.37	617	0	6.16	79	43.2	
1655	24.93	250	14.31	673	0	6.09	77	42.1	
1700	24.93	250	14.21	750	0	6.02	79	43.6	
1705	24.93	250	14.18	775	0	6.00	81	45.1	
1710	24.93	250	14.17	813	0	5.97	83	48.6	
1715	24.93	250	14.03	866	0	5.94	86	53.8	
1725	24.93	250	14	958	0	5.87	96	50.5	
1730	24.93	250	13.89	1030	0	5.82	106	51	
1735	24.93	250	13.89	1050	0	5.81	110	46.3	
1740	24.93	250	13.88	1070	0	5.77	114	47.2	
1745	24.93	250	13.87	1080	0	5.78	115	46.9	Collect Sample: MW-3A

Pump Type: Bladder Pump

Analytical Parameters: TCL VOCs

AECOM

WELL NO. MW-3B

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60277021	SHEET: 1 OF 1
LOCATION: 8 Drayton Avenue, Bay Shore, NY		DATE WELL STARTED: 11/5/2018	DATE WELL COMPLETED: 11/5/2018
CLIENT: NYSDEC		NAME OF INSPECTOR: PM & HL	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 9.96 Gallons WELL TD: 85.79 ft PUMP INTAKE DEPTH: 81.40 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
1800	24.69	200							Static water level, PID=0 ppm
1825	24.69	200	14.87	1150	6.30	5.56	160	23.7	Pump on at 40 psi, Slightly turbid
1830	24.69	200	14.91	1130	5.81	5.54	159	17.9	
1835	24.69	200	15.04	1090	5.21	5.55	162	18.7	
1840	24.69	200	15.05	1090	5.13	5.55	161	20.2	
1845	24.69	200	14.99	1060	3.93	5.56	163	23.2	
1850	24.69	200	14.98	1060	3.45	5.59	163	20.50	
1855	24.69	200	14.98	1060	3.43	5.58	163	20.70	
1900	24.69	200	14.98	1060	3.39	5.59	163	19.80	
1905	24.69	200	14.98	1060	3.25	5.59	164	19.80	Collect Sample: MW-3B

Pump Type: Bladder Pump

Analytical Parameters: TCL VOCs

AECOM

WELL NO. MW-4

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60277021	SHEET: 1 OF 1 SHEETS
LOCATION: 8 Drayton Avenue, Bay Shore, NY		DATE WELL STARTED: 11/5/2018	DATE WELL COMPLETED: 11/5/2018
CLIENT: NYSDEC		NAME OF INSPECTOR: CH, PM, HL	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 9.60 Gallons WELL TD: 83.55 ft PUMP INTAKE DEPTH: 79.50 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
1200	24.75	200							Static water level, PID=0 ppm
1210	24.75	200	13.19	564	0.58	5.32	215	5.5	Pump on at 35 psi, clear water
1215	24.75	200	13.35	577	0.31	5.37	222	4.9	
1220	24.75	200	14.15	591	0.08	5.39	223	5	
1225	24.75	200	14.16	593	0.00	5.40	225	3.1	
1230	24.75	200	14.17	592	0.00	5.39	226	3.1	
1300	24.75	200	14.21	594	0.00	5.40	228	2.5	Collect sample MW-4

Pump Type: Bladder Pump

Analytical Parameters: TCL VOCs

AECOM

WELL NO. MW-5

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60277021	SHEET: 1 OF 1 SHEETS
LOCATION: 8 Drayton Avenue, Bay Shore, NY		DATE WELL STARTED: 11/5/2018	DATE WELL COMPLETED: 11/5/2018
CLIENT: NYSDEC		NAME OF INSPECTOR: CH, PM, HL	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 0.14 Gallons WELL TD: 25.98 ft PUMP INTAKE DEPTH: NA ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
930	25.08								Static water level
									Unable to sample due to low water
									level (<1 ft of water in well)

Pump Type: Bladder Pump

Analytical Parameters: NA

AECOM

WELL NO. MW-6A

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60277021	SHEET: 1 OF SHEETS: 1
LOCATION: 8 Drayton Avenue, Bay Shore, NY		DATE WELL STARTED: 11/5/2018	DATE WELL COMPLETED: 11/5/2018
CLIENT: NYSDEC		NAME OF INSPECTOR: CH, PM, HL	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 0.55 Gallons WELL TD: 28.80 ft PUMP INTAKE DEPTH: 27.5 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS: Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	REMARKS
1125	25.48	200							Static water level, PID=0 ppm
1130	25.48	200	14.29	189	10.56	5.57	144	9.5	pump on at 20 psi, clear water
1140	25.48	200	14.32	189	10.14	5.55	159	3.5	
1150	25.48	200	14.33	186	9.60	5.54	162	3.3	
1155	25.48	200	14.33	188	7.90	5.54	167	2.9	
1200	25.48	200	14.33	188	6.10	5.54	175	2.6	
1205	25.48	200	14.33	188	5.45	5.54	180	2.1	
1210	25.48	200	14.33	188	4.89	5.54	181	2.2	
1215	25.48	200	14.33	188	4.86	5.54	182	2.2	
									Collect sample MW-6A

Pump Type: Bladder Pump

Analytical Parameters: TCL VOCs

AECOM

WELL NO. MW-6B

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60277021	SHEET: 1 OF 1 SHEETS
LOCATION: 8 Drayton Avenue, Bay Shore, NY		DATE WELL STARTED: 11/5/2018	DATE WELL COMPLETED: 11/5/2018
CLIENT: NYSDEC		NAME OF INSPECTOR: CH, PM, HL	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 5.48 Gallons WELL TD: 59.03 ft PUMP INTAKE DEPTH: 53.00 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
1300	25.40								Static water level, PID=0 ppm
1305	25.40	200	14.24	322	0.9	5.64	211	27.6	pump on at 30 psi, clear water
1310	25.40	200	14.24	323	0.95	5.63	215	14.9	
1330	25.40	200	14.31	328	0.98	5.62	220	8.3	
1335	25.40	200	14.32	330	1.02	5.62	222	7.2	
1340	25.40	200	14.32	330	1.08	5.63	223	7.0	
1345	25.40	200	14.31	330	0.62	5.62	225	5.4	
1350	25.40	200	14.31	331	0.59	5.62	225	4.9	
1355	25.40	200	14.31	332	0.64	5.62	226	3.6	
									Collect Sample MW-6B

Pump Type: Bladder Pump

Analytical Parameters: TCL VOCs

AECOM

WELL NO. MW-11

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60277021	SHEET: 1 OF 1
LOCATION: 8 Drayton Avenue, Bay Shore, NY		DATE WELL STARTED: 11/6/2018	DATE WELL COMPLETED: 11/6/2018
CLIENT: NYSDEC		NAME OF INSPECTOR: Pratik Manandhar, Huibin Luo	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR: PM, HL	

ONE WELL VOLUME : 12.85 Gallons WELL TD: 89.25 ft PUMP INTAKE DEPTH: 80.00 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
17:05	10.40	200							Static water level, PID=0 ppm
17:10	10.40	200	13.56	326	0.85	5.53	189	15.1	Pump on at 40 psi, clear water
17:15	10.40	200	13.51	325	0.83	5.54	187	14.9	
17:20	10.40	200	13.39	332	0.37	5.55	171	11.7	
17:25	10.40	200	13.32	333	0.26	5.55	169	11.5	
17:30	10.40	200	13.27	334	0.15	5.55	168	10.8	
17:35	10.40	200	13.27	334	0.14	5.55	168	10.7	
									Collect Sample: MW-11

Pump Type: Bladder Pump

Analytical Parameters: TCL VOCs

AECOM

WELL NO. MW-12

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60277021	SHEET: 1 OF 1 SHEETS
LOCATION: 8 Drayton Avenue, Bay Shore, NY		DATE WELL STARTED: 11/7/2018	DATE WELL COMPLETED: 11/7/2018
CLIENT: NYSDEC		NAME OF INSPECTOR: PRATIK MANANDHAR, HUIBIN LUO	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 11.66 Gallons WELL TD: 89.10 ft PUMP INTAKE DEPTH: 83.00 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
9:55	17.60	200							Static water level, PID=0 ppm
10:00	17.60	200	12.85	337	2.16	5.02	304	8.8	Pump on at 40 psi, clear water
10:05	17.60	200	13.06	312	0.03	5.05	313	5.1	
10:10	17.60	200	13.08	349	0.00	5.05	317	4.4	
10:15	17.60	200	13.19	374	0.00	5.03	318	5.0	
10:20	17.60	200	13.20	375	0.00	5.05	318	4.9	
10:25	17.60	350	13.20	376	0.00	5.03	319	5.0	Collect sample MW-12

Pump Type: Bladder Pump

Analytical Parameters: TCL VOCs

AECOM

WELL NO. MW-13

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60277021	SHEET: 1 OF 1 SHEETS
LOCATION: 8 Drayton Avenue, Bay Shore, NY		DATE WELL STARTED: 11/7/2018	DATE WELL COMPLETED: 11/7/2018
CLIENT: NYSDEC		NAME OF INSPECTOR: Pratik Manandhar, Huibin Luo	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 13.01 Gallons WELL TD: 96.38 ft PUMP INTAKE DEPTH: 90.00 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
14:05	16.53	200							Static water level, PID=0 ppm
14:10	16.53	200	13.97	386	0.79	6.13	214	7.2	Pump on at 40 psi, clear water
14:15	16.53	200	13.88	386	0.32	5.99	214	7.2	
14:25	16.53	200	13.87	389	0.12	5.95	219	6.2	
14:30	16.53	200	13.88	390	0.09	5.95	220	6.0	
14:35	16.53	200	13.88	390	0.08	5.95	220	6.1	Collect sample MW-13

Pump Type: Bladder Pump

Analytical Parameters: TCL VOCs

AECOM

WELL NO. MW-14

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60277021	SHEET: 1 OF 1
LOCATION: 8 Drayton Avenue, Bay Shore, NY		DATE WELL STARTED: 11/7/2018	DATE WELL COMPLETED: 11/7/2018
CLIENT: NYSDEC		NAME OF INSPECTOR: Pratik Manandhar, Huibin Luo	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 11.75 Gallons WELL TD: 90.00 ft PUMP INTAKE DEPTH: 84.00 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
13:15	17.95	200							Static water level, PID=0 ppm
13:20	17.95	200	13.58	486	2.36	6.16	235	12.7	Pump on at 40 psi, clear water
13:35	17.95	200	13.58	486	1.47	6.17	219	8.3	
13:40	17.95	200	13.62	487	0.97	6.19	218	7.3	
13:45	17.95	200	13.63	486	0.85	6.19	217	7.1	
13:50	17.95	200	13.63	486	0.83	6.19	215	7.0	Collect sample MW-14

Pump Type: Bladder Pump

Analytical Parameters: TCL VOCs

AECOM

WELL NO. MW-16

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60277021	SHEET: 1 OF 1 SHEETS
LOCATION: 8 Drayton Avenue, Bay Shore, NY		DATE WELL STARTED: 11/7/2018	DATE WELL COMPLETED: 11/7/2018
CLIENT: NYSDEC		NAME OF INSPECTOR: Pratik Manandhar, Huibin Luo	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 13.18 Gallons WELL TD: 93.10 ft PUMP INTAKE DEPTH: 88.10 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
17:25	12.22	200							Static water level, PID=0 ppm
17:30	12.22	200	13.36	408	0.35	5.41	76	12.2	Pump on at 40 psi, clear water
17:35	12.22	200	13.19	401	0	5.43	71	11.1	
17:40	12.22	200	13.19	398	0	5.43	68	10.4	
17:45	12.22	200	13.08	394	0	5.44	66	9	
17:50	12.22	200	13.08	392	0	5.45	64	8.8	
17:55	12.22	200	13.08	392	0	5.45	63	8.7	Collect sample MW-16

Pump Type: Bladder Pump

Analytical Parameters: TCL VOCs

AECOM

WELL NO. MW-23D

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60277021	SHEET: 1 OF 1 SHEETS
LOCATION: 8 Drayton Avenue, Bay Shore, NY		DATE WELL STARTED: 11/8/2018	DATE WELL COMPLETED: 11/8/2018
CLIENT: NYSDEC		NAME OF INSPECTOR: Pratik Manandhar, Huibin Luo	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 13.85 Gallons WELL TD: 87.65 ft PUMP INTAKE DEPTH: 77.00 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
									Muddy water encountered when pump intake depth initially set at 82 ft even after purging 3 well volumes. Pump intake lifted up by 5 ft to decrease turbidity.
1020	5.65								Static water level, PID=0 ppm
1025	5.65	250	14.3	282	2.11	5.44	266	29	Pump on at 40 psi, Turbid water
1035	5.65	250	14.49	283	1.26	5.44	274	26.3	
1040	5.65	250	13.75	283	0.93	5.44	277	27.5	
1050	5.65	250	13.74	285	0.78	5.43	280	29.2	
1055	5.65	250	13.74	285	0.7	5.44	281	30.1	
1100	5.65	250	13.75	285	0.71	5.44	280	30.2	
1105	5.65	250	13.74	285	0.69	5.44	281	30.5	
1110	5.65	250	13.74	286	0.68	5.44	281	30.1	Collect sample MW-23D

Pump Type: Bladder Pump

Analytical Parameters: TCL VOCs

AECOM

WELL NO. MW-23S

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60277021	SHEET: 1 OF 1 SHEETS
LOCATION: 8 Drayton Avenue, Bay Shore, NY		DATE WELL STARTED: 11/6/2018	DATE WELL COMPLETED: 11/6/2018
CLIENT: NYSDEC		NAME OF INSPECTOR: Pratik Manandhar, Huibin Luo	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR: PM, HL	

ONE WELL VOLUME : 10.36 Gallons WELL TD: 69.27 ft PUMP INTAKE DEPTH: 63.00 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
10:30	5.70	200							Static Water level, PID=0ppm
10:35	5.70	200	13.61	289	0.73	5.2	263	8.8	Pump on at 30 psi, Clear Water
10:40	5.70	200	13.31	292	0.06	5.22	263	6.1	
10:45	5.70	200	13.23	293	0.00	5.23	265	5.5	
10:50	5.70	200	13.29	292	0.00	5.23	267	5.4	
10:55	5.70	200	13.29	292	0.00	5.23	267	5.4	
									Collect sample MW-23S

Pump Type: Bladder Pump

Analytical Parameters: TCL VOCs

Appendix C

Site Inspection Form

AECOM

SITE INSPECTION FORM

ServAll Laundry Site
8 Drayton Avenue, Bay Shore, NY
NYSDEC Site ID # 1-52-077

Client: New York State Department of Environmental Conservation

Preparer's Name: Pratik Manandhar Date/Time: 11/08/18, 1210

Asphalt Cap

Has the condition of the asphalt degraded since the last inspectio	☐ YES	■ NO	☐ NA
Are any cracks visible in the asphalt pavement?	☐ YES	■ NO	☐ NA
Is there evidence of uneven settling and or ponding?	☐ YES	■ NO	☐ NA
Is there damage to any surface coverage?	☐ YES	■ NO	☐ NA

Fence

Are there any breaks in the property fence?	☐ YES	■ NO	☐ NA
Are there any damaged or bent posts?	■ YES	☐ NO	☐ NA

Site Condition

Is the building door padlocked?	☐ YES	■ NO	☐ NA
Is the rollup door secured?	■ YES	☐ NO	☐ NA
Is there any evidence of illegal disposal?	■ YES	☐ NO	☐ NA
Is there uncontrolled vegetation growth?	■ YES	☐ NO	☐ NA
Is there any evidence of unauthorized entry?	■ YES	☐ NO	☐ NA

If yes to any question above, provide additional information with photographic evidence below.

Inspector observed the building door at the west face was open indicating potential unauthorized entry.

Clothing material were observed to be illegaly disposed outside the door along the west perimeter.

The neighbor from the bakery shop informed the inspector that people come & stay inside the building after dark. The neighbor also told the inspector that there was potetial fire related activity inside the building previous week and FDNY was on site.

Inspector observed parked vehicles, disposal tuck, and excavator parked in front of the building site.

Photo showing front of site from Drayton Avenue:

Photo showing door at west face of the site (no padlock on door, door partially open):

Photo showing uncontrolled vegetation growth behind the site building:

Photo showing bent fence post behind the site building:

Photo showing illegal disposal of clothes and garbage along west perimeter of site indicating potential unauthorized entry

Photo showing parked vehicles, disposal truck and excavator in front of the site building:

Appendix D

Laboratory Data Packages

Hampton-Clarke
Analytical & Field Services

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: Multi G Servall

Client PO: 60277021 02.01

Report To: AECOM
100 Red School House Rd.
Suite B-1
Chestnut Ridge, NY 10977

Attn: Paul Kareth

Received Date: 11/9/2018

Report Date: 12/10/2018

Deliverables: NYDOH-CatA

Lab ID: AD07645

Lab Project No: 8111002

Robin Cousineau - Quality Assurance Director OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Hampton-Clarke
Analytical & Field Services

THIS CATEGORY “A” REPORT
IS NUMBERED FROM
1 to 67

HC Case Narrative

Client: AECOM
Project: Multi G Servall

HC Project: 8111002

Hampton-Clarke (HC) received the following samples on 11/9/2018.

Client ID	HC Sample ID	Matrix	Analysis
EB110818	AD07645-001	Aqueous	Volatile Organics (EPA 8260 C)
MW-1	AD07645-002	Aqueous	Volatile Organics (EPA 8260 C)
MW-1-MS	AD07645-003	Aqueous	Volatile Organics (EPA 8260 C)
MW-1-MSD	AD07645-004	Aqueous	Volatile Organics (EPA 8260 C)
MW-51	AD07645-005	Aqueous	Volatile Organics (EPA 8260 C)
MW-3A	AD07645-006	Aqueous	Volatile Organics (EPA 8260 C)
MW-3B	AD07645-007	Aqueous	Volatile Organics (EPA 8260 C)
MW-4	AD07645-008	Aqueous	Volatile Organics (EPA 8260 C)
MW-6A	AD07645-009	Aqueous	Volatile Organics (EPA 8260 C)
MW-6B	AD07645-010	Aqueous	Volatile Organics (EPA 8260 C)
MW-11	AD07645-011	Aqueous	Volatile Organics (EPA 8260 C)
MW-12	AD07645-012	Aqueous	Volatile Organics (EPA 8260 C)
MW-13	AD07645-013	Aqueous	Volatile Organics (EPA 8260 C)
MW-14	AD07645-014	Aqueous	Volatile Organics (EPA 8260 C)
MW-16	AD07645-015	Aqueous	Volatile Organics (EPA 8260 C)
MW-23S	AD07645-016	Aqueous	Volatile Organics (EPA 8260 C)
MW-23D	AD07645-017	Aqueous	Volatile Organics (EPA 8260 C)
TB110818	AD07645-018	Aqueous	Volatile Organics (EPA 8260 C)

* - Indicates analysis was performed by a subcontracted laboratory.

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Sample AD07645-009 was analyzed at a dilution due to high concentration of target analytes.

The Method Blank Spike for batch 73679 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batches 73679, 73695 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

2-Chloroethylvinylether did not recover in the Matrix Spike and Matrix Spike Duplicate in batch 73695 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample. Please refer to the applicable Form 3 for the recoveries.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Robin Cousineau
Quality Assurance Director

Or

Jean Revolus
Laboratory Director

12/10/2018
Date

8111002 0002

Hampton-Clarke, Inc. (WBE/DBE/SBE)
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke
A Women-Owned, Disadvantaged, Small Business Enterprise

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 8111002

Page 1 of 2

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Customer Information

1a) Customer: AECOM
Address: 100 Red School House Rd STE B-1
Chestnut Ridge, NY 10977-6715
1b) Email/Cell/Fax/Ph: 845-425-4980 x13
1c) Send Invoice to: Paul.Kareth@aecom.com
1d) Send Report to: Paul.Kareth@aecom.com

Project Information

2a) Project: D004445-14-1 Multi G Servall
2b) Project Mgr: Paul Kareth
2c) Project Location (City/State): Bay Shore, NY
2d) Quote/PO # (If Applicable):

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%)*	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%)*	Reduced:	EnviroData
3 Business Days (50%)*	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%)*	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full/~~NY~~ ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	(circled) NY ASP CatA	[ ] Region 2 or 5
Other: Standard		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓
Batch #: Ad07645

Matrix Codes
DW - Drinking Water; S - Soil; A - Air
GW - Ground Water; SL - Sludge
WW - Waste Water; OL - Oil
OT - Other (please specify under item 9, Comments)

===> Check If Contingent ===> / <=== Check If Contingent <===

7) Analysis *(specify methods & parameter lists)*; 8) # of Bottles

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	TCL VOCs	None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	EB110818	GW	11/08/18	1700		X	X					3				3-40 mL vials
002	MW-1	GW	11/08/18	1335		X	X					3				3-40 mL vials
003	MW-1-MS	GW	11/08/18	1335		X	X					3				3-40 mL vials
004	MW-1-MSD	GW	11/08/18	1335		X	X					3				3-40 mL vials
005	MW-51	GW	11/08/18	1340		X	X					3				3-40 mL vials
006	MW-3A	GW	11/08/18	1745		X	X					3				3-40 mL vials
007	MW-3B	GW	11/05/18	1920		X	X					3				3-40 mL vials
008	MW-4	GW	11/05/18	1300		X	X					3				3-40 mL vials
009	MW-6A	GW	11/05/18	1215		X	X					3				3-40 mL vials
010	MW-6B	GW	11/05/18	1400		X	X					3				3-40 mL vials

10) Relinquished by:	Accepted by:	Date	Time
[signature]	[signature]	11/9/18	5pm
[signature]	[signature]	11/9/18	17:45

11) Sampler (print name): Huibin Luo Date: 11/08/18

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
[ ] BN or BNA (8270D SIM)
[ ] VOC (8260C SIM or 8011)
[ ] SPLP (BN, BNA, Metals)
[ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
[ ] NJDEP GWQS
[ ] NJDEP SRS
[ ] NJDEP SPLP
[ ] Other (specify):

Check if applicable:
[ ] Project-Specific Reporting Limits
[ ] High Contaminant Concentrations
[ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.4

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

8111002 0003

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

CHAIN OF CUSTODY RECORD

A Women-Owned, Disadvantaged, Small Business Enterprise

Project # (Lab Use Only): 8111002

Page 2 of 2

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Customer Information

1a) Customer: AECOM
Address: 100 Red School House Rd STEB-1 Chestnut Ridge, NY, 10977-6715
1b) Email/Cell/Fax/Ph: 845-425-4980 x413
1c) Send Invoice to: Paul.Kareth@aecom.com
1d) Send Report to: Paul.Kareth@aecom.com

Project Information

2a) Project: D004445-14-1 Multi G Sorvall
2b) Project Mgr: Paul Kareth
2c) Project Location (City/State): Bay Shore, NY
2d) Quote/PO # (If Applicable):

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%)*	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%)*	Reduced:	EnviroData
3 Business Days (50%)*	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%)*	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	(NY ASP CatA) (circled)	[ ] Region 2 or 5
Other: Standard		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓ Batch #: AD0764

Matrix Codes
DW - Drinking Water; S - Soil; A - Air
GW - Ground Water; SL - Sludge
WW - Waste Water; OL - Oil
OT - Other (please specify under item 9, Comments)

===> Check If Contingent ===>   <=== Check If Contingent <===

7) Analysis (specify methods & parameter lists)

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	TCL VOCs	None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
011	MW-11	GW	11/06/18	1740		x						3				3-40 mL vials
012	MW-12	GW	11/07/18	1025		x						3				3-40 mL vials
013	MW-13	GW	11/07/18	1435		x						3				3-40 mL vials
014	MW-14	GW	11/07/18	1350		x						3				3-40 mL vials
015	MW-16	GW	11/07/18	1800		x						3				3-40 mL vials
016	MW-23S	GW	11/06/18	1055		x						3				3-40 mL vials
017	MW-23D	GW	11/08/18	1110		x						3				3-40 mL vials
018	TB110818	GW	11/08/18			x						3				3-40 mL vials

10) Relinquished by:	Accepted by:	Date	Time
[signature]	[signature]	11/9/18	5pm
[signature]	[signature]	11/9/18	17:45

11) Sampler (print name): Haibin Luo   Date: 11/08/18

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.4

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD07645 Entered By: maxwell
Date Entered 11/10/2018 6:37:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	No	Are the COC seals intact?
4	T0054	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.4
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	No	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify
14	NA	Corrective actions (Specify item number and corrective action taken).

PRESERVATION DOCUMENT

Batch Number AD07645

Entered By: maxwell

Date Entered 11/10/2018 6:41:00 AM

Lab#:	Container Size	Container/Vial Check	Parameter	Preservative	Preservative Lot#	PH	pH Lot#
AD07645-001	40ML	G	VO	HCL	189699	4	HC849161
AD07645-002	40ML	G	VO	HCL	189699	1	HC849161
AD07645-003	40ML	G	VO	HCL	189699	1	HC849161
AD07645-004	40ML	G	VO	HCL	189699	1	HC849161
AD07645-005	40ML	G	VO	HCL	189699	1	HC849161
AD07645-006	40ML	G	VO	HCL	189699	1	HC849161
AD07645-007	40ML	G	VO	HCL	189699	1	HC849161
AD07645-008	40ML	G	VO	HCL	189699	1	HC849161
AD07645-009	40ML	G	VO	HCL	189699	1	HC849161
AD07645-010	40ML	G	VO	HCL	189699	1	HC849161
AD07645-011	40ML	G	VO	HCL	189699	1	HC849161
AD07645-012	40ML	G	VO	HCL	189699	1	HC849161
AD07645-013	40ML	G	VO	HCL	189699	1	HC849161
AD07645-014	40ML	G	VO	HCL	189699	1	HC849161
AD07645-015	40ML	G	VO	HCL	189699	1	HC849161
AD07645-016	40ML	G	VO	HCL	189699	1	HC849161
AD07645-017	40ML	G	VO	HCL	189699	1	HC849161
AD07645-018	40ML	G	VO	HCL	189699	1	HC849161

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD07645-001	11/09/18 17:45	MAXW	0	M	Received
AD07645-001	11/10/18 06:37	MAXW	0	M	Login
AD07645-001	11/12/18 11:42	R31	1	A	NONE
AD07645-001	11/12/18 11:42	R31	2	A	NONE
AD07645-001	11/13/18 18:09	SG	2	A	VOA
AD07645-001	11/12/18 11:42	R31	3	A	NONE
AD07645-002	11/09/18 17:45	MAXW	0	M	Received
AD07645-002	11/10/18 06:37	MAXW	0	M	Login
AD07645-002	11/12/18 11:42	R31	1	A	NONE
AD07645-002	11/12/18 11:42	R31	2	A	NONE
AD07645-002	11/14/18 16:17	SG	2	A	VOA
AD07645-002	11/12/18 11:42	R31	3	A	NONE
AD07645-003	11/09/18 17:45	MAXW	0	M	Received
AD07645-003	11/10/18 06:37	MAXW	0	M	Login
AD07645-003	11/12/18 11:42	R31	1	A	NONE
AD07645-003	11/12/18 11:42	R31	2	A	NONE
AD07645-003	11/14/18 16:17	SG	2	A	VOA
AD07645-003	11/12/18 11:42	R31	3	A	NONE
AD07645-004	11/09/18 17:45	MAXW	0	M	Received
AD07645-004	11/10/18 06:37	MAXW	0	M	Login
AD07645-004	11/12/18 11:42	R31	1	A	NONE
AD07645-004	11/12/18 11:42	R31	2	A	NONE
AD07645-004	11/14/18 16:17	SG	2	A	VOA
AD07645-004	11/12/18 11:42	R31	3	A	NONE
AD07645-005	11/09/18 17:45	MAXW	0	M	Received
AD07645-005	11/10/18 06:37	MAXW	0	M	Login
AD07645-005	11/12/18 11:42	R31	1	A	NONE
AD07645-005	11/12/18 11:42	R31	2	A	NONE
AD07645-005	11/14/18 16:17	SG	2	A	VOA
AD07645-005	11/12/18 11:42	R31	3	A	NONE
AD07645-006	11/09/18 17:45	MAXW	0	M	Received
AD07645-006	11/10/18 06:37	MAXW	0	M	Login
AD07645-006	11/12/18 11:42	R31	1	A	NONE
AD07645-006	11/12/18 11:42	R31	2	A	NONE
AD07645-006	11/14/18 16:17	SG	2	A	VOA
AD07645-006	11/12/18 11:42	R31	3	A	NONE
AD07645-007	11/09/18 17:45	MAXW	0	M	Received
AD07645-007	11/10/18 06:37	MAXW	0	M	Login
AD07645-007	11/12/18 11:42	R31	1	A	NONE
AD07645-007	11/12/18 11:42	R31	2	A	NONE
AD07645-007	11/14/18 16:17	SG	2	A	VOA
AD07645-007	11/12/18 11:42	R31	3	A	NONE
AD07645-008	11/09/18 17:45	MAXW	0	M	Received
AD07645-008	11/10/18 06:37	MAXW	0	M	Login
AD07645-008	11/12/18 11:42	R31	1	A	NONE
AD07645-008	11/12/18 11:42	R31	2	A	NONE
AD07645-008	11/14/18 16:17	SG	2	A	VOA
AD07645-008	11/12/18 11:42	R31	3	A	NONE
AD07645-009	11/09/18 17:45	MAXW	0	M	Received
AD07645-009	11/10/18 06:37	MAXW	0	M	Login
AD07645-009	11/12/18 11:42	R31	1	A	NONE
AD07645-009	11/12/18 11:42	R31	2	A	NONE
AD07645-009	11/14/18 16:17	SG	2	A	VOA
AD07645-009	11/12/18 11:42	R31	3	A	NONE
AD07645-010	11/09/18 17:45	MAXW	0	M	Received
AD07645-010	11/10/18 06:37	MAXW	0	M	Login
AD07645-010	11/12/18 11:42	R31	1	A	NONE
AD07645-010	11/12/18 11:42	R31	2	A	NONE
AD07645-010	11/14/18 16:17	SG	2	A	VOA
AD07645-010	11/12/18 11:42	R31	3	A	NONE
AD07645-011	11/09/18 17:45	MAXW	0	M	Received
AD07645-011	11/10/18 06:37	MAXW	0	M	Login
AD07645-011	11/12/18 11:42	R31	1	A	NONE
AD07645-011	11/12/18 11:42	R31	2	A	NONE
AD07645-011	11/14/18 16:17	SG	2	A	VOA
AD07645-011	11/12/18 11:42	R31	3	A	NONE
AD07645-012	11/09/18 17:45	MAXW	0	M	Received
AD07645-012	11/10/18 06:37	MAXW	0	M	Login
AD07645-012	11/12/18 11:42	R31	1	A	NONE
AD07645-012	11/12/18 11:42	R31	2	A	NONE
AD07645-012	11/14/18 16:17	SG	2	A	VOA
AD07645-012	11/12/18 11:42	R31	3	A	NONE
AD07645-013	11/09/18 17:45	MAXW	0	M	Received
AD07645-013	11/10/18 06:37	MAXW	0	M	Login
AD07645-013	11/12/18 11:42	R31	1	A	NONE
AD07645-013	11/12/18 11:42	R31	2	A	NONE
AD07645-013	11/14/18 16:17	SG	2	A	VOA
AD07645-013	11/12/18 11:42	R31	3	A	NONE
AD07645-014	11/09/18 17:45	MAXW	0	M	Received
AD07645-014	11/10/18 06:37	MAXW	0	M	Login
AD07645-014	11/12/18 11:42	R31	1	A	NONE
AD07645-014	11/12/18 11:42	R31	2	A	NONE
AD07645-014	11/14/18 16:17	SG	2	A	VOA
AD07645-014	11/12/18 11:42	R31	3	A	NONE
AD07645-015	11/09/18 17:45	MAXW	0	M	Received
AD07645-015	11/10/18 06:37	MAXW	0	M	Login
AD07645-015	11/12/18 11:42	R31	1	A	NONE
AD07645-015	11/12/18 11:42	R31	2	A	NONE
AD07645-015	11/14/18 16:23	SG	2	A	VOA
AD07645-015	11/12/18 11:42	R31	3	A	NONE
AD07645-016	11/09/18 17:45	MAXW	0	M	Received
AD07645-016	11/10/18 06:37	MAXW	0	M	Login
AD07645-016	11/12/18 11:42	R31	1	A	NONE
AD07645-016	11/12/18 11:42	R31	2	A	NONE
AD07645-016	11/14/18 16:23	SG	2	A	VOA
AD07645-016	11/12/18 11:42	R31	3	A	NONE
AD07645-017	11/09/18 17:45	MAXW	0	M	Received
AD07645-017	11/10/18 06:37	MAXW	0	M	Login
AD07645-017	11/12/18 11:42	R31	1	A	NONE
AD07645-017	11/12/18 11:42	R31	2	A	NONE
AD07645-017	11/14/18 16:23	SG	2	A	VOA
AD07645-017	11/12/18 11:42	R31	3	A	NONE
AD07645-018	11/09/18 17:45	MAXW	0	M	Received
AD07645-018	11/10/18 06:37	MAXW	0	M	Login
AD07645-018	11/12/18 11:42	R31	1	A	NONE
AD07645-018	11/12/18 11:42	R31	2	A	NONE
AD07645-018	11/14/18 14:28	SG	2	A	VOA
AD07645-018	11/12/18 11:42	R31	3	A	NONE

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Laboratory Chronicle

Client: AECOM
Project: Multi G Servall

HC Project #: 8111002

Lab#: AD07645-001 **Sample ID: EB110818**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/14/18 04:33	WP

Lab#: AD07645-002 **Sample ID: MW-1**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 11:54	WP

Lab#: AD07645-003 **Sample ID: MW-1-MS**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 11:02	WP

Lab#: AD07645-004 **Sample ID: MW-1-MSD**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 11:19	WP

Lab#: AD07645-005 **Sample ID: MW-51**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 12:11	WP

Lab#: AD07645-006 **Sample ID: MW-3A**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 12:28	WP

Laboratory Chronicle

Client: AECOM
Project: Multi G Servall

HC Project #: 8111002

Lab#: AD07645-007 **Sample ID: MW-3B**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 12:45	WP

Lab#: AD07645-008 **Sample ID: MW-4**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 13:03	WP

Lab#: AD07645-009 **Sample ID: MW-6A**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 17:22	WP

Lab#: AD07645-010 **Sample ID: MW-6B**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 10:10	WP

Lab#: AD07645-011 **Sample ID: MW-11**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 16:14	WP

Lab#: AD07645-012 **Sample ID: MW-12**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 13:54	WP

Laboratory Chronicle

Client: AECOM
Project: Multi G Servall

HC Project #: 8111002

Lab#: AD07645-013 **Sample ID: MW-13**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 13:20	WP

Lab#: AD07645-014 **Sample ID: MW-14**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 13:37	WP

Lab#: AD07645-015 **Sample ID: MW-16**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 16:31	WP

Lab#: AD07645-016 **Sample ID: MW-23S**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 10:28	WP

Lab#: AD07645-017 **Sample ID: MW-23D**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/15/18 09:36	WP

Lab#: AD07645-018 **Sample ID: TB110818**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	11/14/18 14:56	WP

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

MDL = Method Detection Limit

RL* = Reporting Limit

ND = Not Detected

RT = Retention Time

NA = Not Applicable

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

HC Report of Analysis

Client: AECOM
Project: Multi G Servall

HC Project #: 8111002

Sample ID: EB110818
Lab#: AD07645-001
Matrix: Aqueous

Collection Date: 11/8/2018
Receipt Date: 11/9/2018

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND

Sample ID: EB110818 **Collection Date: 11/8/2018**
Lab#: AD07645-001 **Receipt Date: 11/9/2018**
Matrix: Aqueous

Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-1 **Collection Date:** 11/8/2018
Lab#: AD07645-002 **Receipt Date:** 11/9/2018
Matrix: Aqueous

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-1-MS
Lab#: AD07645-003
Matrix: Aqueous

Collection Date: 11/8/2018
Receipt Date: 11/9/2018

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	15
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	14
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	24
1,1,2-Trichloroethane	1	ug/l	1.0	16
1,1-Dichloroethane	1	ug/l	1.0	16
1,1-Dichloroethene	1	ug/l	1.0	18
1,2,3-Trichlorobenzene	1	ug/l	1.0	15
1,2,4-Trichlorobenzene	1	ug/l	1.0	16
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	14
1,2-Dibromoethane	1	ug/l	1.0	13
1,2-Dichlorobenzene	1	ug/l	1.0	14
1,2-Dichloroethane	1	ug/l	0.50	18
1,2-Dichloropropane	1	ug/l	1.0	18
1,3-Dichlorobenzene	1	ug/l	1.0	14
1,4-Dichlorobenzene	1	ug/l	1.0	13
2-Butanone	1	ug/l	1.0	15
2-Hexanone	1	ug/l	1.0	14
4-Methyl-2-pentanone	1	ug/l	1.0	13
Acetone	1	ug/l	5.0	73
Benzene	1	ug/l	0.50	20
Bromochloromethane	1	ug/l	1.0	19
Bromodichloromethane	1	ug/l	1.0	14
Bromoform	1	ug/l	1.0	13
Bromomethane	1	ug/l	1.0	20
Carbon disulfide	1	ug/l	1.0	14
Carbon tetrachloride	1	ug/l	1.0	16
Chlorobenzene	1	ug/l	1.0	14
Chloroethane	1	ug/l	1.0	21
Chloroform	1	ug/l	1.0	15
Chloromethane	1	ug/l	1.0	26
cis-1,2-Dichloroethene	1	ug/l	1.0	17
cis-1,3-Dichloropropene	1	ug/l	1.0	14
Cyclohexane	1	ug/l	1.0	21
Dibromochloromethane	1	ug/l	1.0	13
Dichlorodifluoromethane	1	ug/l	1.0	25
Ethylbenzene	1	ug/l	1.0	14
Isopropylbenzene	1	ug/l	1.0	15
m&p-Xylenes	1	ug/l	1.0	30
Methyl Acetate	1	ug/l	1.0	15
Methylcyclohexane	1	ug/l	1.0	20
Methylene chloride	1	ug/l	1.0	20
Methyl-t-butyl ether	1	ug/l	0.50	17
o-Xylene	1	ug/l	1.0	16
Styrene	1	ug/l	1.0	15
Tetrachloroethene	1	ug/l	1.0	23
Toluene	1	ug/l	1.0	15
trans-1,2-Dichloroethene	1	ug/l	1.0	15
trans-1,3-Dichloropropene	1	ug/l	1.0	13
Trichloroethene	1	ug/l	1.0	17
Trichlorofluoromethane	1	ug/l	1.0	15
Vinyl chloride	1	ug/l	1.0	19
Xylenes (Total)	1	ug/l	1.0	46

Sample ID: MW-1-MSD
Lab#: AD07645-004
Matrix: Aqueous

Collection Date: 11/8/2018
Receipt Date: 11/9/2018

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	17
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	15
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	22
1,1,2-Trichloroethane	1	ug/l	1.0	20
1,1-Dichloroethane	1	ug/l	1.0	19
1,1-Dichloroethene	1	ug/l	1.0	18
1,2,3-Trichlorobenzene	1	ug/l	1.0	18
1,2,4-Trichlorobenzene	1	ug/l	1.0	18
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	15
1,2-Dibromoethane	1	ug/l	1.0	16
1,2-Dichlorobenzene	1	ug/l	1.0	16
1,2-Dichloroethane	1	ug/l	0.50	19
1,2-Dichloropropane	1	ug/l	1.0	20
1,3-Dichlorobenzene	1	ug/l	1.0	17
1,4-Dichlorobenzene	1	ug/l	1.0	16
2-Butanone	1	ug/l	1.0	19
2-Hexanone	1	ug/l	1.0	16
4-Methyl-2-pentanone	1	ug/l	1.0	16
Acetone	1	ug/l	5.0	80
Benzene	1	ug/l	0.50	22
Bromochloromethane	1	ug/l	1.0	16
Bromodichloromethane	1	ug/l	1.0	17
Bromoform	1	ug/l	1.0	14
Bromomethane	1	ug/l	1.0	21
Carbon disulfide	1	ug/l	1.0	16
Carbon tetrachloride	1	ug/l	1.0	18
Chlorobenzene	1	ug/l	1.0	16
Chloroethane	1	ug/l	1.0	23
Chloroform	1	ug/l	1.0	16
Chloromethane	1	ug/l	1.0	29
cis-1,2-Dichloroethene	1	ug/l	1.0	19
cis-1,3-Dichloropropene	1	ug/l	1.0	16
Cyclohexane	1	ug/l	1.0	23
Dibromochloromethane	1	ug/l	1.0	14
Dichlorodifluoromethane	1	ug/l	1.0	26
Ethylbenzene	1	ug/l	1.0	17
Isopropylbenzene	1	ug/l	1.0	17
m&p-Xylenes	1	ug/l	1.0	34
Methyl Acetate	1	ug/l	1.0	17
Methylcyclohexane	1	ug/l	1.0	21
Methylene chloride	1	ug/l	1.0	20
Methyl-t-butyl ether	1	ug/l	0.50	19
o-Xylene	1	ug/l	1.0	17
Styrene	1	ug/l	1.0	16
Tetrachloroethene	1	ug/l	1.0	24
Toluene	1	ug/l	1.0	17
trans-1,2-Dichloroethene	1	ug/l	1.0	17
trans-1,3-Dichloropropene	1	ug/l	1.0	15
Trichloroethene	1	ug/l	1.0	20
Trichlorofluoromethane	1	ug/l	1.0	16
Vinyl chloride	1	ug/l	1.0	21
Xylenes (Total)	1	ug/l	1.0	51

Sample ID: MW-51 **Collection Date:** 11/8/2018
Lab#: AD07645-005 **Receipt Date:** 11/9/2018
Matrix: Aqueous

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-3A
Lab#: AD07645-006
Matrix: Aqueous

Collection Date: 11/8/2018
Receipt Date: 11/9/2018

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-3B
Lab#: AD07645-007
Matrix: Aqueous

Collection Date: 11/5/2018
Receipt Date: 11/9/2018

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-4
Lab#: AD07645-008
Matrix: Aqueous

Collection Date: 11/5/2018
Receipt Date: 11/9/2018

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-6A
Lab#: AD07645-009
Matrix: Aqueous

Collection Date: 11/5/2018
Receipt Date: 11/9/2018

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	5	ug/l	5.0	ND
1,1,2,2-Tetrachloroethane	5	ug/l	5.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ug/l	5.0	ND
1,1,2-Trichloroethane	5	ug/l	5.0	ND
1,1-Dichloroethane	5	ug/l	5.0	ND
1,1-Dichloroethene	5	ug/l	5.0	ND
1,2,3-Trichlorobenzene	5	ug/l	5.0	ND
1,2,4-Trichlorobenzene	5	ug/l	5.0	ND
1,2-Dibromo-3-chloropropane	5	ug/l	5.0	ND
1,2-Dibromoethane	5	ug/l	5.0	ND
1,2-Dichlorobenzene	5	ug/l	5.0	ND
1,2-Dichloroethane	5	ug/l	2.5	ND
1,2-Dichloropropane	5	ug/l	5.0	ND
1,3-Dichlorobenzene	5	ug/l	5.0	ND
1,4-Dichlorobenzene	5	ug/l	5.0	ND
2-Butanone	5	ug/l	5.0	ND
2-Hexanone	5	ug/l	5.0	ND
4-Methyl-2-pentanone	5	ug/l	5.0	ND
Acetone	5	ug/l	25	ND
Benzene	5	ug/l	2.5	ND
Bromochloromethane	5	ug/l	5.0	ND
Bromodichloromethane	5	ug/l	5.0	ND
Bromoform	5	ug/l	5.0	ND
Bromomethane	5	ug/l	5.0	ND
Carbon disulfide	5	ug/l	5.0	ND
Carbon tetrachloride	5	ug/l	5.0	ND
Chlorobenzene	5	ug/l	5.0	ND
Chloroethane	5	ug/l	5.0	ND
Chloroform	5	ug/l	5.0	ND
Chloromethane	5	ug/l	5.0	ND
cis-1,2-Dichloroethene	**5**	**ug/l**	**5.0**	**78**
cis-1,3-Dichloropropene	5	ug/l	5.0	ND
Cyclohexane	5	ug/l	5.0	ND
Dibromochloromethane	5	ug/l	5.0	ND
Dichlorodifluoromethane	5	ug/l	5.0	ND
Ethylbenzene	5	ug/l	5.0	ND
Isopropylbenzene	5	ug/l	5.0	ND
m&p-Xylenes	5	ug/l	5.0	ND
Methyl Acetate	5	ug/l	5.0	ND
Methylcyclohexane	5	ug/l	5.0	ND
Methylene chloride	5	ug/l	5.0	ND
Methyl-t-butyl ether	5	ug/l	2.5	ND
o-Xylene	5	ug/l	5.0	ND
Styrene	5	ug/l	5.0	ND
Tetrachloroethene	**5**	**ug/l**	**5.0**	**470**
Toluene	5	ug/l	5.0	ND
trans-1,2-Dichloroethene	5	ug/l	5.0	ND
trans-1,3-Dichloropropene	5	ug/l	5.0	ND
Trichloroethene	**5**	**ug/l**	**5.0**	**9.2**
Trichlorofluoromethane	5	ug/l	5.0	ND
Vinyl chloride	5	ug/l	5.0	ND
Xylenes (Total)	5	ug/l	5.0	ND

Sample ID: MW-6B
Lab#: AD07645-010
Matrix: Aqueous

Collection Date: 11/5/2018
Receipt Date: 11/9/2018

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	**1**	**ug/l**	**1.0**	**15**
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	**1**	**ug/l**	**1.0**	**2.7**
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-11 **Collection Date:** 11/6/2018
Lab#: AD07645-011 **Receipt Date:** 11/9/2018
Matrix: Aqueous

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**3.4**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	**1**	**ug/l**	**0.50**	**1.8**
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	**1**	**ug/l**	**1.0**	**16**
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	**1**	**ug/l**	**1.0**	**2.6**
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-12 **Collection Date:** 11/7/2018
Lab#: AD07645-012 **Receipt Date:** 11/9/2018
Matrix: Aqueous

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	**1**	**ug/l**	**1.0**	**11**
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-13 **Collection Date:** 11/7/2018
Lab#: AD07645-013 **Receipt Date:** 11/9/2018
Matrix: Aqueous

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-14
Lab#: AD07645-014
Matrix: Aqueous

Collection Date: 11/7/2018
Receipt Date: 11/9/2018

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-16
Lab#: AD07645-015
Matrix: Aqueous

Collection Date: 11/7/2018
Receipt Date: 11/9/2018

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**7.2**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	**1**	**ug/l**	**0.50**	**10**
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	**1**	**ug/l**	**1.0**	**26**
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	**1**	**ug/l**	**1.0**	**3.2**
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-23S
Lab#: AD07645-016
Matrix: Aqueous

Collection Date: 11/6/2018
Receipt Date: 11/9/2018

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**9.8**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	**1**	**ug/l**	**0.50**	**1.7**
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	**1**	**ug/l**	**1.0**	**470**
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	**1**	**ug/l**	**1.0**	**6.4**
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-23D
Lab#: AD07645-017
Matrix: Aqueous

Collection Date: 11/8/2018
Receipt Date: 11/9/2018

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**13**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	**1**	**ug/l**	**1.0**	**1.9**
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	**1**	**ug/l**	**0.50**	**1.2**
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	**1**	**ug/l**	**1.0**	**240**
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	**1**	**ug/l**	**1.0**	**6.7**
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	**1**	**ug/l**	**1.0**	**1.9**

Sample ID: TB110818 **Collection Date:** 11/8/2018
Lab#: AD07645-018 **Receipt Date:** 11/9/2018
Matrix: Aqueous

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 3M140435.D
Analysis Date: 11/14/18 00:35
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U				

Worksheet #: 489663

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 3M140475.D
Analysis Date: 11/14/18 11:46
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U				

Worksheet #: 489663

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 3M140548.D
Analysis Date: 11/15/18 08:27
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U				

Worksheet #: 489663

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-001
Client Id: EB110818
Data File: 3M140449.D
Analysis Date: 11/14/18 04:33
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 489663

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-002
Client Id: MW-1
Data File: 3M140560.D
Analysis Date: 11/15/18 11:54
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 489663

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-003(MS:AD07
Client Id: MW-1-MS
Data File: 3M140557.D
Analysis Date: 11/15/18 11:02
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	15	108-90-7	Chlorobenzene	1.0	14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	14	75-00-3	Chloroethane	1.0	21
76-13-1	1,1,2-Trichloro-1,2,2-triflu	1.0	24	67-66-3	Chloroform	1.0	15
79-00-5	1,1,2-Trichloroethane	1.0	16	74-87-3	Chloromethane	1.0	26
75-34-3	1,1-Dichloroethane	1.0	16	156-59-2	cis-1,2-Dichloroethene	1.0	17
75-35-4	1,1-Dichloroethene	1.0	18	10061-01-5	cis-1,3-Dichloropropene	1.0	14
87-61-6	1,2,3-Trichlorobenzene	1.0	15	110-82-7	Cyclohexane	1.0	21
120-82-1	1,2,4-Trichlorobenzene	1.0	16	124-48-1	Dibromochloromethane	1.0	13
96-12-8	1,2-Dibromo-3-Chloroprop	1.0	14	75-71-8	Dichlorodifluoromethane	1.0	25
106-93-4	1,2-Dibromoethane	1.0	13	100-41-4	Ethylbenzene	1.0	14
95-50-1	1,2-Dichlorobenzene	1.0	14	98-82-8	Isopropylbenzene	1.0	15
107-06-2	1,2-Dichloroethane	0.50	18	79601-23-1	m&p-Xylenes	1.0	30
78-87-5	1,2-Dichloropropane	1.0	18	79-20-9	Methyl Acetate	1.0	15
541-73-1	1,3-Dichlorobenzene	1.0	14	108-87-2	Methylcyclohexane	1.0	20
106-46-7	1,4-Dichlorobenzene	1.0	13	75-09-2	Methylene Chloride	1.0	20
78-93-3	2-Butanone	1.0	15	1634-04-4	Methyl-t-butyl ether	0.50	17
591-78-6	2-Hexanone	1.0	14	95-47-6	o-Xylene	1.0	16
108-10-1	4-Methyl-2-Pentanone	1.0	13	100-42-5	Styrene	1.0	15
67-64-1	Acetone	5.0	73	127-18-4	Tetrachloroethene	1.0	23
71-43-2	Benzene	0.50	20	108-88-3	Toluene	1.0	15
74-97-5	Bromochloromethane	1.0	19	156-60-5	trans-1,2-Dichloroethene	1.0	15
75-27-4	Bromodichloromethane	1.0	14	10061-02-6	trans-1,3-Dichloropropene	1.0	13
75-25-2	Bromoform	1.0	13	79-01-6	Trichloroethene	1.0	17
74-83-9	Bromomethane	1.0	20	75-69-4	Trichlorofluoromethane	1.0	15
75-15-0	Carbon Disulfide	1.0	14	75-01-4	Vinyl Chloride	1.0	19
56-23-5	Carbon Tetrachloride	1.0	16	1330-20-7	Xylenes (Total)	1.0	46

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-004(MSD:AD
Client Id: MW-1-MSD
Data File: 3M140558.D
Analysis Date: 11/15/18 11:19
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	17	108-90-7	Chlorobenzene	1.0	16
79-34-5	1,1,2,2-Tetrachloroethane	1.0	15	75-00-3	Chloroethane	1.0	23
76-13-1	1,1,2-Trichloro-1,2,2-triflu	1.0	22	67-66-3	Chloroform	1.0	16
79-00-5	1,1,2-Trichloroethane	1.0	20	74-87-3	Chloromethane	1.0	29
75-34-3	1,1-Dichloroethane	1.0	19	156-59-2	cis-1,2-Dichloroethene	1.0	19
75-35-4	1,1-Dichloroethene	1.0	18	10061-01-5	cis-1,3-Dichloropropene	1.0	16
87-61-6	1,2,3-Trichlorobenzene	1.0	18	110-82-7	Cyclohexane	1.0	23
120-82-1	1,2,4-Trichlorobenzene	1.0	18	124-48-1	Dibromochloromethane	1.0	14
96-12-8	1,2-Dibromo-3-Chloroprop	1.0	15	75-71-8	Dichlorodifluoromethane	1.0	26
106-93-4	1,2-Dibromoethane	1.0	16	100-41-4	Ethylbenzene	1.0	17
95-50-1	1,2-Dichlorobenzene	1.0	16	98-82-8	Isopropylbenzene	1.0	17
107-06-2	1,2-Dichloroethane	0.50	19	79601-23-1	m&p-Xylenes	1.0	34
78-87-5	1,2-Dichloropropane	1.0	20	79-20-9	Methyl Acetate	1.0	17
541-73-1	1,3-Dichlorobenzene	1.0	17	108-87-2	Methylcyclohexane	1.0	21
106-46-7	1,4-Dichlorobenzene	1.0	16	75-09-2	Methylene Chloride	1.0	20
78-93-3	2-Butanone	1.0	19	1634-04-4	Methyl-t-butyl ether	0.50	19
591-78-6	2-Hexanone	1.0	16	95-47-6	o-Xylene	1.0	17
108-10-1	4-Methyl-2-Pentanone	1.0	16	100-42-5	Styrene	1.0	16
67-64-1	Acetone	5.0	80	127-18-4	Tetrachloroethene	1.0	24
71-43-2	Benzene	0.50	22	108-88-3	Toluene	1.0	17
74-97-5	Bromochloromethane	1.0	16	156-60-5	trans-1,2-Dichloroethene	1.0	17
75-27-4	Bromodichloromethane	1.0	17	10061-02-6	trans-1,3-Dichloropropene	1.0	15
75-25-2	Bromoform	1.0	14	79-01-6	Trichloroethene	1.0	20
74-83-9	Bromomethane	1.0	21	75-69-4	Trichlorofluoromethane	1.0	16
75-15-0	Carbon Disulfide	1.0	16	75-01-4	Vinyl Chloride	1.0	21
56-23-5	Carbon Tetrachloride	1.0	18	1330-20-7	Xylenes (Total)	1.0	51

Worksheet #: 489663

Total Target Concentration 1000

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-005
Client Id: MW-51
Data File: 3M140561.D
Analysis Date: 11/15/18 12:11
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 489663

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-006
Client Id: MW-3A
Data File: 3M140562.D
Analysis Date: 11/15/18 12:28
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 489663

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-007
Client Id: MW-3B
Data File: 3M140563.D
Analysis Date: 11/15/18 12:45
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 489663

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-008
Client Id: MW-4
Data File: 3M140564.D
Analysis Date: 11/15/18 13:03
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 489663

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-009(5X)
Client Id: MW-6A
Data File: 3M140579.D
Analysis Date: 11/15/18 17:22
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 5.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	75-00-3	Chloroethane	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	5.0	U	67-66-3	Chloroform	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U	74-87-3	Chloromethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**5.0**	**78**
75-35-4	1,1-Dichloroethene	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U	110-82-7	Cyclohexane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U	124-48-1	Dibromochloromethane	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	5.0	U	75-71-8	Dichlorodifluoromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U	100-41-4	Ethylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U	98-82-8	Isopropylbenzene	5.0	U
107-06-2	1,2-Dichloroethane	2.5	U	79601-23-1	m&p-Xylenes	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U	79-20-9	Methyl Acetate	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U	108-87-2	Methylcyclohexane	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U	75-09-2	Methylene Chloride	5.0	U
78-93-3	2-Butanone	5.0	U	1634-04-4	Methyl-t-butyl ether	2.5	U
591-78-6	2-Hexanone	5.0	U	95-47-6	o-Xylene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U	100-42-5	Styrene	5.0	U
67-64-1	Acetone	25	U	**127-18-4**	**Tetrachloroethene**	**5.0**	**470**
71-43-2	Benzene	2.5	U	108-88-3	Toluene	5.0	U
74-97-5	Bromochloromethane	5.0	U	156-60-5	trans-1,2-Dichloroethene	5.0	U
75-27-4	Bromodichloromethane	5.0	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U	**79-01-6**	**Trichloroethene**	**5.0**	**9.2**
74-83-9	Bromomethane	5.0	U	75-69-4	Trichlorofluoromethane	5.0	U
75-15-0	Carbon Disulfide	5.0	U	75-01-4	Vinyl Chloride	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	1330-20-7	Xylenes (Total)	5.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD07645-009(5X) Operator : WP Qt Meth : 3M_A1010.M
Data File: 3M140579.D Sam Mult : 1 Vial# : 26 Qt On : 11/16/18 08:47
Acq On : 11/15/18 17:22 Misc : A,5ML!2 Qt Upd On: 10/10/18 11:59

Data Path : G:\GcMsData\2018\GCMS_3\Data\11-15-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.909	96	298107	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.759	117	280214	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.201	152	130687	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.483	111	78026	29.41	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.03%			
39) 1,2-Dichloroethane-d4	4.699	67	54427	29.21	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.37%			
66) Toluene-d8	5.876	98	329093	28.10	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.67%			
76) Bromofluorobenzene	7.468	174	141830	31.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.43%			
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	4.170	61	71244	15.6392	ug/l	81
49) Trichloroethene	5.143	130	4758	1.8333	ug/l	76
65) Tetrachloroethene	6.255	164	147187	93.6938	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

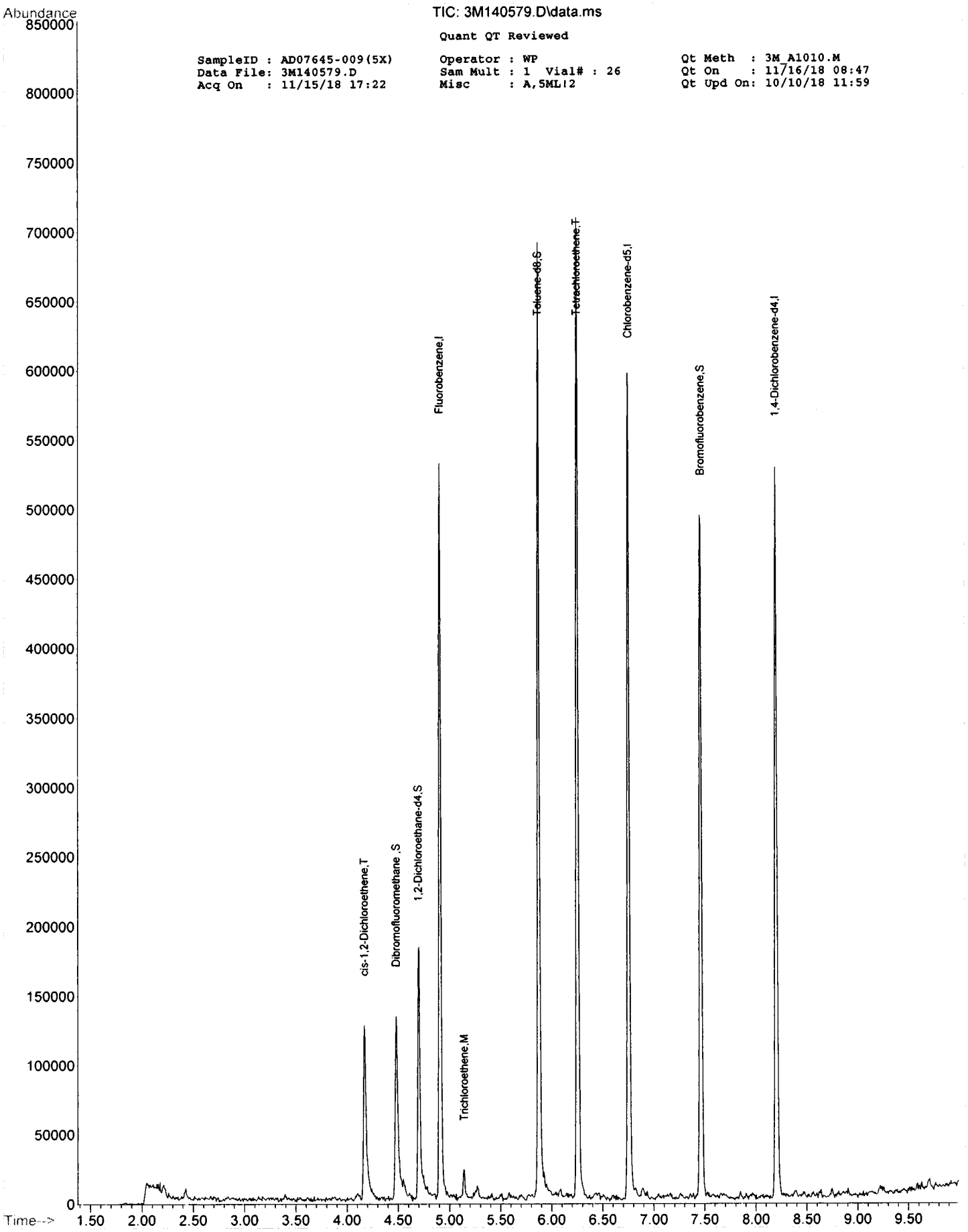
TIC: 3M140579.D\data.ms

Quant QT Reviewed

SampleID : AD07645-009(5X)
Data File: 3M140579.D
Acq On : 11/15/18 17:22

Operator : WP
Sam Mult : 1 Vial# : 26
Misc : A,5ML!2

Qt Meth : 3M_A1010.M
Qt On : 11/16/18 08:47
Qt Upd On: 10/10/18 11:59



Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-010
Client Id: MW-6B
Data File: 3M140554.D
Analysis Date: 11/15/18 10:10
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**15**
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**2.7**
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-011
Client Id: MW-11
Data File: 3M140575.D
Analysis Date: 11/15/18 16:14
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**3.4**
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	**1634-04-4**	**Methyl-t-butyl ether**	**0.50**	**1.8**
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**16**
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**2.6**
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-012
Client Id: MW-12
Data File: 3M140567.D
Analysis Date: 11/15/18 13:54
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**11**
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-013
Client Id: MW-13
Data File: 3M140565.D
Analysis Date: 11/15/18 13:20
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide.	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 489663

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-014
Client Id: MW-14
Data File: 3M140566.D
Analysis Date: 11/15/18 13:37
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 489663

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-015
Client Id: MW-16
Data File: 3M140576.D
Analysis Date: 11/15/18 16:31
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**7.2**
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	**1634-04-4**	**Methyl-t-butyl ether**	**0.50**	**10**
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**26**
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**3.2**
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-016
Client Id: MW-23S
Data File: 3M140555.D
Analysis Date: 11/15/18 10:28
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**9.8**
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	**1634-04-4**	**Methyl-t-butyl ether**	**0.50**	**1.7**
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**470**
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**6.4**
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-017
Client Id: MW-23D
Data File: 3M140552.D
Analysis Date: 11/15/18 09:36
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**13**
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	**79601-23-1**	**m&p-Xylenes**	**1.0**	**1.9**
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	**1634-04-4**	**Methyl-t-butyl ether**	**0.50**	**1.2**
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**240**
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**6.7**
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	**1330-20-7**	**Xylenes (Total)**	**1.0**	**1.9**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD07645-018
Client Id: TB110818
Data File: 3M140486.D
Analysis Date: 11/14/18 14:56
Date Rec/Extracted: 11/09/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	67-66-3	Chloroform	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	100-41-4	Ethylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	79601-23-1	m&p-Xylenes	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79-20-9	Methyl Acetate	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 489663

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form3
Recovery Data Laboratory Limits
QC Batch: MBS73679

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M140437.D	MBS73679	11/14/2018 1:09:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	49.6307	0	20	248*	50	150
Dichlorodifluoromethane	1	24.122	0	20	121	50	150
Chloromethane	1	31.7972	0	20	159*	50	150
Bromomethane	1	22.4226	0	20	112	50	150
Vinyl Chloride	1	22.9521	0	20	115	50	150
Chloroethane	1	24.3403	0	20	122	50	150
Trichlorofluoromethane	1	18.2269	0	20	91	50	150
Ethyl ether	1	18.6538	0	20	93	50	150
Furan	1	18.7168	0	20	94	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	25.3548	0	20	127	50	150
Methylene Chloride	1	25.8173	0	20	129	70	130
Acrolein	1	82.1389	0	100	82	50	150
Acrylonitrile	1	22.9891	0	20	115	50	150
Iodomethane	1	21.1558	0	20	106	50	150
Acetone	1	119.4543	0	100	119	50	150
Carbon Disulfide	1	19.1908	0	20	96	50	150
t-Butyl Alcohol	1	102.4245	0	100	102	50	150
n-Hexane	1	23.9597	0	20	120	70	130
Di-isopropyl-ether	1	26.147	0	20	131*	70	130
1,1-Dichloroethene	1	21.9444	0	20	110	70	130
Methyl Acetate	1	21.7483	0	20	109	50	150
Methyl-t-butyl ether	1	23.0466	0	20	115	70	130
1,1-Dichloroethane	1	22.32	0	20	112	70	130
trans-1,2-Dichloroethene	1	19.4183	0	20	97	70	130
Ethyl-t-butyl ether	1	25.0315	0	20	125	70	130
cis-1,2-Dichloroethene	1	23.8754	0	20	119	70	130
Bromochloromethane	1	26.4828	0	20	132*	70	130
2,2-Dichloropropane	1	22.1968	0	20	111	70	130
Ethyl acetate	1	23.1875	0	20	116	50	150
1,4-Dioxane	1	926.3326	0	1000	93	50	150
1,1-Dichloropropene	1	24.3321	0	20	122	70	130
Chloroform	1	20.9411	0	20	105	70	130
Cyclohexane	1	28.335	0	20	142*	70	130
1,2-Dichloroethane	1	23.8753	0	20	119	70	130
2-Butanone	1	23.6499	0	20	118	50	150
1,1,1-Trichloroethane	1	20.472	0	20	102	70	130
Carbon Tetrachloride	1	21.3461	0	20	107	50	150
Vinyl Acetate	1	20.5126	0	20	103	50	150
Bromodichloromethane	1	19.6501	0	20	98	70	130
Methylcyclohexane	1	24.1195	0	20	121	70	130
Dibromomethane	1	27.305	0	20	137*	70	130
1,2-Dichloropropane	1	24.5831	0	20	123	70	130
Trichloroethene	1	24.6952	0	20	123	70	130
Benzene	1	27.7495	0	20	139*	70	130
tert-Amyl methyl ether	1	25.7017	0	20	129	70	130
Iso-propylacetate	1	22.9847	0	20	115	70	130
Methyl methacrylate	1	18.883	0	20	94	70	130
Dibromochloromethane	1	17.6829	0	20	88	70	130
2-Chloroethylvinylether	1	22.4579	0	20	112	70	130
cis-1,3-Dichloropropene	1	19.9819	0	20	100	70	130
trans-1,3-Dichloropropene	1	18.5204	0	20	93	70	130
Ethyl methacrylate	1	21.583	0	20	108	70	130
1,1,2-Trichloroethane	1	23.8155	0	20	119	70	130
1,2-Dibromoethane	1	18.1096	0	20	91	70	130
1,3-Dichloropropane	1	23.2126	0	20	116	70	130
4-Methyl-2-Pentanone	1	21.3892	0	20	107	50	150
2-Hexanone	1	22.5882	0	20	113	50	150
Tetrachloroethene	1	26.4857	0	20	132	50	150
Toluene	1	20.5895	0	20	103	70	130
1,1,1,2-Tetrachloroethane	1	24.1217	0	20	121	70	130
Chlorobenzene	1	19.5086	0	20	98	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS73679

n-Butyl acrylate	1	21.9738	0	20	110	70	130
n-Amyl acetate	1	23.064	0	20	115	70	130
Bromoform	1	17.606	0	20	88	70	130
Ethylbenzene	1	20.5983	0	20	103	70	130
1,1,2,2-Tetrachloroethane	1	18.5208	0	20	93	70	130
Styrene	1	21.7243	0	20	109	70	130
m&p-Xylenes	1	43.9899	0	40	110	70	130
o-Xylene	1	22.1641	0	20	111	70	130
trans-1,4-Dichloro-2-butene	1	17.3043	0	20	87	50	150
1,3-Dichlorobenzene	1	20.5433	0	20	103	70	130
1,4-Dichlorobenzene	1	18.9658	0	20	95	70	130
1,2-Dichlorobenzene	1	19.4643	0	20	97	70	130
Isopropylbenzene	1	21.9733	0	20	110	70	130
Cyclohexanone	1	161.8757	0	100	162*	50	150
Camphene	1	19.8897	0	20	99	70	130
1,2,3-Trichloropropane	1	18.504	0	20	93	70	130
2-Chlorotoluene	1	23.373	0	20	117	70	130
p-Ethyltoluene	1	20.0405	0	20	100	70	130
4-Chlorotoluene	1	21.9936	0	20	110	70	130
n-Propylbenzene	1	20.1021	0	20	101	70	130
Bromobenzene	1	18.4625	0	20	92	70	130
1,3,5-Trimethylbenzene	1	22.5577	0	20	113	70	130
Butyl methacrylate	1	22.3296	0	20	112	70	130
t-Butylbenzene	1	20.6548	0	20	103	70	130
1,2,4-Trimethylbenzene	1	20.1687	0	20	101	70	130
sec-Butylbenzene	1	21.3599	0	20	107	70	130
4-Isopropyltoluene	1	21.309	0	20	107	70	130
n-Butylbenzene	1	19.9228	0	20	100	70	130
p-Diethylbenzene	1	20.9883	0	20	105	70	130
1,2,4,5-Tetramethylbenzene	1	19.4034	0	20	97	70	130
1,2-Dibromo-3-Chloropropane	1	20.336	0	20	102	50	150
Camphor	1	104.4182	0	200	52	20	150
Hexachlorobutadiene	1	18.7592	0	20	94	50	150
1,2,4-Trichlorobenzene	1	19.3483	0	20	97	70	130
1,2,3-Trichlorobenzene	1	18.8919	0	20	94	70	130
Naphthalene	1	18.2318	0	20	91	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS73679

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M140444.D	AD07512-008(T:MS)	11/14/2018 3:08:00 AM
Non Spike(If applicable):	3M140438.D	AD07512-008(T)	11/14/2018 1:26:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	40.9294	0	20	205*	50	150
Dichlorodifluoromethane	1	20.566	0	20	103	50	150
Chloromethane	1	28.8544	0	20	144	50	150
Bromomethane	1	18.2518	0	20	91	50	150
Vinyl Chloride	1	19.2763	0	20	96	50	150
Chloroethane	1	23.2935	0	20	116	50	150
Trichlorofluoromethane	1	19.2417	0	20	96	50	150
Ethyl ether	1	15.6132	0	20	78	50	150
Furan	1	16.5147	0	20	83	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.6672	0	20	103	50	150
Methylene Chloride	1	38.1467	26.2082	20	60*	70	130
Acrolein	1	51.5832	0	100	52	50	150
Acrylonitrile	1	18.4894	0	20	92	50	150
Iodomethane	1	16.3614	0	20	82	50	150
Acetone	1	109.0154	15.2226	100	94	50	150
Carbon Disulfide	1	15.4993	0	20	77	50	150
t-Butyl Alcohol	1	93.9427	0	100	94	50	150
n-Hexane	1	22.4759	0	20	112	70	130
Di-isopropyl-ether	1	21.913	0	20	110	70	130
1,1-Dichloroethene	1	19.2669	0	20	96	70	130
Methyl Acetate	1	16.8185	0	20	84	50	150
Methyl-t-butyl ether	1	18.643	0	20	93	70	130
1,1-Dichloroethane	1	17.9581	0	20	90	70	130
trans-1,2-Dichloroethene	1	17.4819	0	20	87	70	130
Ethyl-t-butyl ether	1	20.113	0	20	101	70	130
cis-1,2-Dichloroethene	1	19.2998	0	20	96	70	130
Bromochloromethane	1	18.3103	0	20	92	70	130
2,2-Dichloropropane	1	17.6888	0	20	88	70	130
Ethyl acetate	1	18.6856	0	20	93	50	150
1,4-Dioxane	1	804.7109	0	1000	80	50	150
1,1-Dichloropropene	1	19.3891	0	20	97	70	130
Chloroform	1	17.1227	0	20	86	70	130
Cyclohexane	1	21.3836	7.7734	20	68*	70	130
1,2-Dichloroethane	1	19.7066	0	20	99	70	130
2-Butanone	1	17.1257	2.2281	20	74	50	150
1,1,1-Trichloroethane	1	17.3062	0	20	87	70	130
Carbon Tetrachloride	1	16.9806	0	20	85	50	150
Vinyl Acetate	1	13.8336	0	20	69	50	150
Bromodichloromethane	1	16.5488	0	20	83	70	130
Methylcyclohexane	1	22.5709	24.5593	20	-9.9*	70	130
Dibromomethane	1	20.5836	0	20	103	70	130
1,2-Dichloropropane	1	20.8383	0	20	104	70	130
Trichloroethene	1	27.8146	0	20	139*	70	130
Benzene	1	21.8369	0	20	109	70	130
tert-Amyl methyl ether	1	20.2337	0	20	101	70	130
Iso-propylacetate	1	17.7809	0	20	89	70	130
Methyl methacrylate	1	15.9844	0	20	80	70	130
Dibromochloromethane	1	14.0176	0	20	70	70	130
2-Chloroethylvinylether	1	19.5665	0	20	98	70	130
cis-1,3-Dichloropropene	1	17.313	0	20	87	70	130
trans-1,3-Dichloropropene	1	15.6453	0	20	78	70	130
Ethyl methacrylate	1	18.3326	2.287	20	80	70	130
1,1,2-Trichloroethane	1	18.9873	0	20	95	70	130
1,2-Dibromoethane	1	15.5903	0	20	78	70	130
1,3-Dichloropropane	1	19.0731	0	20	95	70	130
4-Methyl-2-Pentanone	1	18.9692	1.4751	20	87	50	150
2-Hexanone	1	20.0097	0	20	100	50	150
Tetrachloroethene	1	20.4468	0	20	102	50	150
Toluene	1	17.6313	0	20	88	70	130
1,1,1,2-Tetrachloroethane	1	19.1359	0	20	96	70	130
Chlorobenzene	1	16.7747	0	20	84	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS73679

n-Butyl acrylate	1	16.4451	0	20	82	70	130
n-Amyl acetate	1	17.1697	0	20	86	70	130
Bromoform	1	12.9818	0	20	65*	70	130
Ethylbenzene	1	18.6347	0	20	93	70	130
1,1,2,2-Tetrachloroethane	1	5.3072	0	20	27*	70	130
Styrene	1	16.4181	0	20	82	70	130
m&p-Xylenes	1	35.6254	0	40	89	70	130
o-Xylene	1	17.6071	0	20	88	70	130
trans-1,4-Dichloro-2-butene	1	13.9484	1.0878	20	64	50	150
1,3-Dichlorobenzene	1	13.9798	0	20	70	70	130
1,4-Dichlorobenzene	1	14.1778	0	20	71	70	130
1,2-Dichlorobenzene	1	14.4692	0	20	72	70	130
Isopropylbenzene	1	16.5808	0	20	83	70	130
Cyclohexanone	1	130.4068	0	100	130	50	150
Camphene	1	15.9419	1.7635	20	71	70	130
1,2,3-Trichloropropane	1	15.0712	0	20	75	70	130
2-Chlorotoluene	1	16.7449	0	20	84	70	130
p-Ethyltoluene	1	14.8687	1.9118	20	65*	70	130
4-Chlorotoluene	1	15.7362	0	20	79	70	130
n-Propylbenzene	1	16.4969	0	20	82	70	130
Bromobenzene	1	14.7985	0	20	74	70	130
1,3,5-Trimethylbenzene	1	16.7415	2.958	20	69*	70	130
Butyl methacrylate	1	17.2786	0	20	86	70	130
t-Butylbenzene	1	16.7619	0	20	84	70	130
1,2,4-Trimethylbenzene	1	16.8358	0	20	84	70	130
sec-Butylbenzene	1	16.5437	0	20	83	70	130
4-Isopropyltoluene	1	16.1936	1.1981	20	75	70	130
n-Butylbenzene	1	15.0865	2.2803	20	64*	70	130
p-Diethylbenzene	1	15.5809	0	20	78	70	130
1,2,4,5-Tetramethylbenzene	1	16.6829	6.5163	20	51*	70	130
1,2-Dibromo-3-Chloropropane	1	15.06	0	20	75	50	150
Camphor	1	111.1969	50.2173	200	30	20	150
Hexachlorobutadiene	1	13.7087	0	20	69	50	150
1,2,4-Trichlorobenzene	1	14.4248	0	20	72	70	130
1,2,3-Trichlorobenzene	1	12.8512	0	20	64*	70	130
Naphthalene	1	15.019	1.8181	20	66	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS73679

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M140445.D	AD07512-008(T:MSD)	11/14/2018 3:25:00 AM
Non Spike(If applicable):	3M140438.D	AD07512-008(T)	11/14/2018 1:26:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	37.0007	0	20	185*	50	150
Dichlorodifluoromethane	1	19.3467	0	20	97	50	150
Chloromethane	1	26.3371	0	20	132	50	150
Bromomethane	1	19.2875	0	20	96	50	150
Vinyl Chloride	1	20.6951	0	20	103	50	150
Chloroethane	1	22.6668	0	20	113	50	150
Trichlorofluoromethane	1	14.4176	0	20	72	50	150
Ethyl ether	1	15.7796	0	20	79	50	150
Furan	1	14.8353	0	20	74	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.6891	0	20	103	50	150
Methylene Chloride	1	38.0312	26.2082	20	59*	70	130
Acrolein	1	57.2561	0	100	57	50	150
Acrylonitrile	1	19.216	0	20	96	50	150
Iodomethane	1	15.4138	0	20	77	50	150
Acetone	1	105.0855	15.2226	100	90	50	150
Carbon Disulfide	1	15.2058	0	20	76	50	150
t-Butyl Alcohol	1	83.7585	0	100	84	50	150
n-Hexane	1	21.7287	0	20	109	70	130
Di-isopropyl-ether	1	20.9475	0	20	105	70	130
1,1-Dichloroethene	1	17.0074	0	20	85	70	130
Methyl Acetate	1	16.5064	0	20	83	50	150
Methyl-t-butyl ether	1	18.6587	0	20	93	70	130
1,1-Dichloroethane	1	18.0754	0	20	90	70	130
trans-1,2-Dichloroethene	1	17.3554	0	20	87	70	130
Ethyl-t-butyl ether	1	19.4343	0	20	97	70	130
cis-1,2-Dichloroethene	1	18.345	0	20	92	70	130
Bromochloromethane	1	20.5918	0	20	103	70	130
2,2-Dichloropropane	1	17.5532	0	20	88	70	130
Ethyl acetate	1	16.8169	0	20	84	50	150
1,4-Dioxane	1	729.5754	0	1000	73	50	150
1,1-Dichloropropene	1	20.1359	0	20	101	70	130
Chloroform	1	15.5998	0	20	78	70	130
Cyclohexane	1	21.7032	7.7734	20	70	70	130
1,2-Dichloroethane	1	20.0172	0	20	100	70	130
2-Butanone	1	21.4164	2.2281	20	96	50	150
1,1,1-Trichloroethane	1	16.0277	0	20	80	70	130
Carbon Tetrachloride	1	17.3089	0	20	87	50	150
Vinyl Acetate	1	13.1981	0	20	66	50	150
Bromodichloromethane	1	17.167	0	20	86	70	130
Methylcyclohexane	1	20.4708	24.5593	20	-20*	70	130
Dibromomethane	1	21.3602	0	20	107	70	130
1,2-Dichloropropane	1	21.0143	0	20	105	70	130
Trichloroethene	1	26.9545	0	20	135*	70	130
Benzene	1	22.015	0	20	110	70	130
tert-Amyl methyl ether	1	21.3966	0	20	107	70	130
Iso-propylacetate	1	18.0325	0	20	90	70	130
Methyl methacrylate	1	15.2069	0	20	76	70	130
Dibromochloromethane	1	15.4161	0	20	77	70	130
2-Chloroethylvinylether	1	21.9828	0	20	110	70	130
cis-1,3-Dichloropropene	1	16.5058	0	20	83	70	130
trans-1,3-Dichloropropene	1	14.5965	0	20	73	70	130
Ethyl methacrylate	1	17.3857	2.287	20	75	70	130
1,1,2-Trichloroethane	1	18.8376	0	20	94	70	130
1,2-Dibromoethane	1	15.0161	0	20	75	70	130
1,3-Dichloropropane	1	19.2032	0	20	96	70	130
4-Methyl-2-Pentanone	1	20.0068	1.4751	20	93	50	150
2-Hexanone	1	21.2997	0	20	106	50	150
Tetrachloroethene	1	21.2691	0	20	106	50	150
Toluene	1	16.9464	0	20	85	70	130
1,1,1,2-Tetrachloroethane	1	19.3195	0	20	97	70	130
Chlorobenzene	1	16.4311	0	20	82	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS73679

n-Butyl acrylate	1	18.2023	0	20	91	70	130
n-Amyl acetate	1	19.0752	0	20	95	70	130
Bromoform	1	14.7623	0	20	74	70	130
Ethylbenzene	1	17.8825	0	20	89	70	130
1,1,2,2-Tetrachloroethane	1	5.7913	0	20	29*	70	130
Styrene	1	17.2004	0	20	86	70	130
m&p-Xylenes	1	36.4263	0	40	91	70	130
o-Xylene	1	19.0099	0	20	95	70	130
trans-1,4-Dichloro-2-butene	1	16.2924	1.0878	20	76	50	150
1,3-Dichlorobenzene	1	16.0202	0	20	80	70	130
1,4-Dichlorobenzene	1	16.2997	0	20	81	70	130
1,2-Dichlorobenzene	1	15.5507	0	20	78	70	130
Isopropylbenzene	1	17.9065	0	20	90	70	130
Cyclohexanone	1	159.4404	0	100	159*	50	150
Camphene	1	18.6233	1.7635	20	84	70	130
1,2,3-Trichloropropane	1	16.3951	0	20	82	70	130
2-Chlorotoluene	1	17.9933	0	20	90	70	130
p-Ethyltoluene	1	17.4273	1.9118	20	78	70	130
4-Chlorotoluene	1	17.8021	0	20	89	70	130
n-Propylbenzene	1	17.4702	0	20	87	70	130
Bromobenzene	1	16.0991	0	20	80	70	130
1,3,5-Trimethylbenzene	1	16.5643	2.958	20	68*	70	130
Butyl methacrylate	1	20.1743	0	20	101	70	130
t-Butylbenzene	1	17.1166	0	20	86	70	130
1,2,4-Trimethylbenzene	1	16.9634	0	20	85	70	130
sec-Butylbenzene	1	17.8837	0	20	89	70	130
4-Isopropyltoluene	1	17.5788	1.1981	20	82	70	130
n-Butylbenzene	1	17.627	2.2803	20	77	70	130
p-Diethylbenzene	1	17.0147	0	20	85	70	130
1,2,4,5-Tetramethylbenzene	1	18.2067	6.5163	20	58*	70	130
1,2-Dibromo-3-Chloropropane	1	16.2744	0	20	81	50	150
Camphor	1	171.0472	50.2173	200	60	20	150
Hexachlorobutadiene	1	15.9833	0	20	80	50	150
1,2,4-Trichlorobenzene	1	16.9288	0	20	85	70	130
1,2,3-Trichlorobenzene	1	15.8807	0	20	79	70	130
Naphthalene	1	17.8624	1.8181	20	80	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS73679

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M140445.D	AD07512-008(T:MSD)	11/14/2018 3:25:00 AM
Duplicate(If applicable):	3M140444.D	AD07512-008(T:MS)	11/14/2018 3:08:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	37.0007	40.9294	10	30
Dichlorodifluoromethane	1	19.3467	20.566	6.1	30
Chloromethane	1	26.3371	28.8544	9.1	30
Bromomethane	1	19.2875	18.2518	5.5	30
Vinyl Chloride	1	20.6951	19.2763	7.1	40
Chloroethane	1	22.6668	23.2935	2.7	30
Trichlorofluoromethane	1	14.4176	19.2417	29	30
Ethyl ether	1	15.7796	15.6132	1.1	30
Furan	1	14.8353	16.5147	11	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.6891	20.6672	0.11	30
Methylene Chloride	1	38.0312	38.1467	0.3	30
Acrolein	1	57.2561	51.5832	10	30
Acrylonitrile	1	19.216	18.4894	3.9	30
Iodomethane	1	15.4138	16.3614	6	30
Acetone	1	105.0855	109.0154	3.7	30
Carbon Disulfide	1	15.2058	15.4993	1.9	30
t-Butyl Alcohol	1	83.7585	93.9427	11	30
n-Hexane	1	21.7287	22.4759	3.4	30
Di-isopropyl-ether	1	20.9475	21.913	4.5	30
1,1-Dichloroethene	1	17.0074	19.2669	12	40
Methyl Acetate	1	16.5064	16.8185	1.9	30
Methyl-t-butyl ether	1	18.6587	18.643	0.08	30
1,1-Dichloroethane	1	18.0754	17.9581	0.65	40
trans-1,2-Dichloroethene	1	17.3554	17.4819	0.73	30
Ethyl-t-butyl ether	1	19.4343	20.113	3.4	30
cis-1,2-Dichloroethene	1	18.345	19.2998	5.1	30
Bromochloromethane	1	20.5918	18.3103	12	30
2,2-Dichloropropane	1	17.5532	17.6888	0.77	30
Ethyl acetate	1	16.8169	18.6856	11	30
1,4-Dioxane	1	729.5754	804.7109	9.8	30
1,1-Dichloropropene	1	20.1359	19.3891	3.8	30
Chloroform	1	15.5998	17.1227	9.3	40
Cyclohexane	1	21.7032	21.3836	1.5	30
1,2-Dichloroethane	1	20.0172	19.7066	1.6	40
2-Butanone	1	21.4164	17.1257	22	40
1,1,1-Trichloroethane	1	16.0277	17.3062	7.7	30
Carbon Tetrachloride	1	17.3089	16.9806	1.9	40
Vinyl Acetate	1	13.1981	13.8336	4.7	30
Bromodichloromethane	1	17.167	16.5488	3.7	30
Methylcyclohexane	1	20.4708	22.5709	9.8	30
Dibromomethane	1	21.3602	20.5836	3.7	30
1,2-Dichloropropane	1	21.0143	20.8383	0.84	30
Trichloroethene	1	26.9545	27.8146	3.1	40
Benzene	1	22.015	21.8369	0.81	40
tert-Amyl methyl ether	1	21.3966	20.2337	5.6	30
Iso-propylacetate	1	18.0325	17.7809	1.4	30
Methyl methacrylate	1	15.2069	15.9844	5	30
Dibromochloromethane	1	15.4161	14.0176	9.5	30
2-Chloroethylvinylether	1	21.9828	19.5665	12	30
cis-1,3-Dichloropropene	1	16.5058	17.313	4.8	30
trans-1,3-Dichloropropene	1	14.5965	15.6453	6.9	30
Ethyl methacrylate	1	17.3857	18.3326	5.3	30
1,1,2-Trichloroethane	1	18.8376	18.9873	0.79	30
1,2-Dibromoethane	1	15.0161	15.5903	3.8	30
1,3-Dichloropropane	1	19.2032	19.0731	0.68	30
4-Methyl-2-Pentanone	1	20.0068	18.9692	5.3	30
2-Hexanone	1	21.2997	20.0097	6.2	30
Tetrachloroethene	1	21.2691	20.4468	3.9	40
Toluene	1	16.9464	17.6313	4	40
1,1,1,2-Tetrachloroethane	1	19.3195	19.1359	0.95	30
Chlorobenzene	1	16.4311	16.7747	2.1	40
n-Butyl acrylate	1	18.2023	16.4451	10	30
n-Amyl acetate	1	19.0752	17.1697	11	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS73679

Bromoform	1	14.7623	12.9818	13	30
Ethylbenzene	1	17.8825	18.6347	4.1	30
1,1,2,2-Tetrachloroethane	1	5.7913	5.3072	8.7	30
Styrene	1	17.2004	16.4181	4.7	30
m&p-Xylenes	1	36.4263	35.6254	2.2	30
o-Xylene	1	19.0099	17.6071	7.7	30
trans-1,4-Dichloro-2-butene	1	16.2924	13.9484	16	30
1,3-Dichlorobenzene	1	16.0202	13.9798	14	30
1,4-Dichlorobenzene	1	16.2997	14.1778	14	40
1,2-Dichlorobenzene	1	15.5507	14.4692	7.2	40
Isopropylbenzene	1	17.9065	16.5808	7.7	30
Cyclohexanone	1	159.4404	130.4068	20	30
Camphene	1	18.6233	15.9419	16	30
1,2,3-Trichloropropane	1	16.3951	15.0712	8.4	30
2-Chlorotoluene	1	17.9933	16.7449	7.2	30
p-Ethyltoluene	1	17.4273	14.8687	16	30
4-Chlorotoluene	1	17.8021	15.7362	12	30
n-Propylbenzene	1	17.4702	16.4969	5.7	40
Bromobenzene	1	16.0991	14.7985	8.4	30
1,3,5-Trimethylbenzene	1	16.5643	16.7415	1.1	30
Butyl methacrylate	1	20.1743	17.2786	15	30
t-Butylbenzene	1	17.1166	16.7619	2.1	30
1,2,4-Trimethylbenzene	1	16.9634	16.8358	0.76	30
sec-Butylbenzene	1	17.8837	16.5437	7.8	40
4-Isopropyltoluene	1	17.5788	16.1936	8.2	30
n-Butylbenzene	1	17.627	15.0865	16	30
p-Diethylbenzene	1	17.0147	15.5809	8.8	30
1,2,4,5-Tetramethylbenzene	1	18.2067	16.6829	8.7	30
1,2-Dibromo-3-Chloropropane	1	16.2744	15.06	7.8	30
Camphor	1	171.0472	111.1969	42*	30
Hexachlorobutadiene	1	15.9833	13.7087	15	30
1,2,4-Trichlorobenzene	1	16.9288	14.4248	16	30
1,2,3-Trichlorobenzene	1	15.8807	12.8512	21	30
Naphthalene	1	17.8624	15.019	17	30

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data Laboratory Limits
QC Batch: MBS73695

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M140557.D	AD07645-003(MS:AD07645-002	11/15/2018 11:02:00 A
Non Spike(If applicable):	3M140560.D	AD07645-002	11/15/2018 11:54:00 A
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	30.0893	0	20	150	50	150
Dichlorodifluoromethane	1	25.1166	0	20	126	50	150
Chloromethane	1	25.8765	0	20	129	50	150
Bromomethane	1	20.1641	0	20	101	50	150
Vinyl Chloride	1	18.7058	0	20	94	50	150
Chloroethane	1	21.1593	0	20	106	50	150
Trichlorofluoromethane	1	14.7076	0	20	74	50	150
Ethyl ether	1	12.8943	0	20	64	50	150
Furan	1	12.912	0	20	65	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.5518	0	20	118	50	150
Methylene Chloride	1	19.6519	0	20	98	70	130
Acrolein	1	72.8406	0	100	73	50	150
Acrylonitrile	1	15.4626	0	20	77	50	150
Iodomethane	1	16.5293	0	20	83	50	150
Acetone	1	73.1264	0	100	73	50	150
Carbon Disulfide	1	14.4426	0	20	72	50	150
t-Butyl Alcohol	1	74.3465	0	100	74	50	150
n-Hexane	1	21.2078	0	20	106	70	130
Di-isopropyl-ether	1	19.1733	0	20	96	70	130
1,1-Dichloroethene	1	17.9793	0	20	90	70	130
Methyl Acetate	1	15.1157	0	20	76	50	150
Methyl-t-butyl ether	1	17.2209	0	20	86	70	130
1,1-Dichloroethane	1	16.3199	0	20	82	70	130
trans-1,2-Dichloroethene	1	15.3398	0	20	77	70	130
Ethyl-t-butyl ether	1	17.656	0	20	88	70	130
cis-1,2-Dichloroethene	1	17.1941	0	20	86	70	130
Bromochloromethane	1	18.7986	0	20	94	70	130
2,2-Dichloropropane	1	18.2927	0	20	91	70	130
Ethyl acetate	1	17.9747	0	20	90	50	150
1,4-Dioxane	1	755.5874	0	1000	76	50	150
1,1-Dichloropropene	1	17.9849	0	20	90	70	130
Chloroform	1	14.8949	0	20	74	70	130
Cyclohexane	1	20.5188	0	20	103	70	130
1,2-Dichloroethane	1	17.6052	0	20	88	70	130
2-Butanone	1	15.1847	0	20	76	50	150
1,1,1-Trichloroethane	1	15.3596	0	20	77	70	130
Carbon Tetrachloride	1	15.942	0	20	80	50	150
Vinyl Acetate	1	17.5039	0	20	88	50	150
Bromodichloromethane	1	14.4552	0	20	72	70	130
Methylcyclohexane	1	20.4838	0	20	102	70	130
Dibromomethane	1	20.947	0	20	105	70	130
1,2-Dichloropropane	1	18.2706	0	20	91	70	130
Trichloroethene	1	17.1487	0	20	86	70	130
Benzene	1	20.2297	0	20	101	70	130
tert-Amyl methyl ether	1	18.5087	0	20	93	70	130
Iso-propylacetate	1	14.5325	0	20	73	70	130
Methyl methacrylate	1	13.2339	0	20	66*	70	130
Dibromochloromethane	1	12.6013	0	20	63*	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	13.8501	0	20	69*	70	130
trans-1,3-Dichloropropene	1	12.7324	0	20	64*	70	130
Ethyl methacrylate	1	13.078	0	20	65*	70	130
1,1,2-Trichloroethane	1	16.0275	0	20	80	70	130
1,2-Dibromoethane	1	13.2552	0	20	66*	70	130
1,3-Dichloropropane	1	16.5823	0	20	83	70	130
4-Methyl-2-Pentanone	1	13.1181	0	20	66	50	150
2-Hexanone	1	13.9526	0	20	70	50	150
Tetrachloroethene	1	23.2626	0	20	116	50	150
Toluene	1	14.9458	0	20	75	70	130
1,1,1,2-Tetrachloroethane	1	16.4072	0	20	82	70	130
Chlorobenzene	1	14.2292	0	20	71	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS73695

n-Butyl acrylate	1	13.5977	0	20	68*	70	130
n-Amyl acetate	1	14.3599	0	20	72	70	130
Bromoform	1	12.8278	0	20	64*	70	130
Ethylbenzene	1	13.9679	0	20	70	70	130
1,1,2,2-Tetrachloroethane	1	13.632	0	20	68*	70	130
Styrene	1	14.8095	0	20	74	70	130
m&p-Xylenes	1	30.0484	0	40	75	70	130
o-Xylene	1	15.5603	0	20	78	70	130
trans-1,4-Dichloro-2-butene	1	11.3721	0	20	57	50	150
1,3-Dichlorobenzene	1	14.2272	0	20	71	70	130
1,4-Dichlorobenzene	1	13.3895	0	20	67*	70	130
1,2-Dichlorobenzene	1	13.9543	0	20	70	70	130
Isopropylbenzene	1	14.6655	0	20	73	70	130
Cyclohexanone	1	53.5991	0	100	54	50	150
Camphene	1	5.8004	0	20	29*	70	130
1,2,3-Trichloropropane	1	13.0911	0	20	65*	70	130
2-Chlorotoluene	1	14.7266	0	20	74	70	130
p-Ethyltoluene	1	13.654	0	20	68*	70	130
4-Chlorotoluene	1	15.4167	0	20	77	70	130
n-Propylbenzene	1	13.9385	0	20	70	70	130
Bromobenzene	1	12.1285	0	20	61*	70	130
1,3,5-Trimethylbenzene	1	15.1287	0	20	76	70	130
Butyl methacrylate	1	14.6275	0	20	73	70	130
t-Butylbenzene	1	14.4754	0	20	72	70	130
1,2,4-Trimethylbenzene	1	14.1461	0	20	71	70	130
sec-Butylbenzene	1	14.7497	0	20	74	70	130
4-Isopropyltoluene	1	14.9094	0	20	75	70	130
n-Butylbenzene	1	14.1462	0	20	71	70	130
p-Diethylbenzene	1	14.8575	0	20	74	70	130
1,2,4,5-Tetramethylbenzene	1	14.506	0	20	73	70	130
1,2-Dibromo-3-Chloropropane	1	14.3277	0	20	72	50	150
Camphor	1	91.1109	0	200	46	20	150
Hexachlorobutadiene	1	14.7533	0	20	74	50	150
1,2,4-Trichlorobenzene	1	15.539	0	20	78	70	130
1,2,3-Trichlorobenzene	1	15.4405	0	20	77	70	130
Naphthalene	1	13.214	0	20	66	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS73695

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M140558.D	AD07645-004(MSD:AD07645-0	11/15/2018 11:19:00 A
Non Spike(If applicable):	3M140560.D	AD07645-002	11/15/2018 11:54:00 A
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	32.4999	0	20	162*	50	150
Dichlorodifluoromethane	1	26.2899	0	20	131	50	150
Chloromethane	1	29.3996	0	20	147	50	150
Bromomethane	1	21.3497	0	20	107	50	150
Vinyl Chloride	1	20.6339	0	20	103	50	150
Chloroethane	1	23.0074	0	20	115	50	150
Trichlorofluoromethane	1	16.336	0	20	82	50	150
Ethyl ether	1	14.8909	0	20	74	50	150
Furan	1	14.992	0	20	75	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.2969	0	20	111	50	150
Methylene Chloride	1	19.8236	0	20	99	70	130
Acrolein	1	90.1699	0	100	90	50	150
Acrylonitrile	1	19.9036	0	20	100	50	150
Iodomethane	1	15.6882	0	20	78	50	150
Acetone	1	80.3352	0	100	80	50	150
Carbon Disulfide	1	15.9793	0	20	80	50	150
t-Butyl Alcohol	1	84.9961	0	100	85	50	150
n-Hexane	1	24.0575	0	20	120	70	130
Di-isopropyl-ether	1	20.5005	0	20	103	70	130
1,1-Dichloroethene	1	18.2499	0	20	91	70	130
Methyl Acetate	1	16.6403	0	20	83	50	150
Methyl-t-butyl ether	1	18.663	0	20	93	70	130
1,1-Dichloroethane	1	18.8829	0	20	94	70	130
trans-1,2-Dichloroethene	1	17.4227	0	20	87	70	130
Ethyl-t-butyl ether	1	20.2959	0	20	101	70	130
cis-1,2-Dichloroethene	1	18.5351	0	20	93	70	130
Bromochloromethane	1	16.4522	0	20	82	70	130
2,2-Dichloropropane	1	21.3009	0	20	107	70	130
Ethyl acetate	1	17.8353	0	20	89	50	150
1,4-Dioxane	1	983.6322	0	1000	98	50	150
1,1-Dichloropropene	1	20.0224	0	20	100	70	130
Chloroform	1	15.744	0	20	79	70	130
Cyclohexane	1	23.1413	0	20	116	70	130
1,2-Dichloroethane	1	19.412	0	20	97	70	130
2-Butanone	1	19.2928	0	20	96	50	150
1,1,1-Trichloroethane	1	16.5743	0	20	83	70	130
Carbon Tetrachloride	1	17.5837	0	20	88	50	150
Vinyl Acetate	1	18.846	0	20	94	50	150
Bromodichloromethane	1	17.4531	0	20	87	70	130
Methylcyclohexane	1	21.4109	0	20	107	70	130
Dibromomethane	1	24.1818	0	20	121	70	130
1,2-Dichloropropane	1	20.3407	0	20	102	70	130
Trichloroethene	1	19.7411	0	20	99	70	130
Benzene	1	22.4746	0	20	112	70	130
tert-Amyl methyl ether	1	19.7681	0	20	99	70	130
Iso-propylacetate	1	17.5311	0	20	88	70	130
Methyl methacrylate	1	15.272	0	20	76	70	130
Dibromochloromethane	1	13.7941	0	20	69*	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	15.642	0	20	78	70	130
trans-1,3-Dichloropropene	1	15.4623	0	20	77	70	130
Ethyl methacrylate	1	15.0616	0	20	75	70	130
1,1,2-Trichloroethane	1	20.493	0	20	102	70	130
1,2-Dibromoethane	1	16.3282	0	20	82	70	130
1,3-Dichloropropane	1	19.9131	0	20	100	70	130
4-Methyl-2-Pentanone	1	15.9782	0	20	80	50	150
2-Hexanone	1	16.0251	0	20	80	50	150
Tetrachloroethene	1	24.2658	0	20	121	50	150
Toluene	1	16.8475	0	20	84	70	130
1,1,1,2-Tetrachloroethane	1	20.3177	0	20	102	70	130
Chlorobenzene	1	16.148	0	20	81	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS73695

n-Butyl acrylate	1	16.6311	0	20	83	70	130
n-Amyl acetate	1	16.2239	0	20	81	70	130
Bromoform	1	14.2414	0	20	71	70	130
Ethylbenzene	1	16.5584	0	20	83	70	130
1,1,2,2-Tetrachloroethane	1	15.1798	0	20	76	70	130
Styrene	1	16.329	0	20	82	70	130
m&p-Xylenes	1	34.0555	0	40	85	70	130
o-Xylene	1	16.7695	0	20	84	70	130
trans-1,4-Dichloro-2-butene	1	12.2811	0	20	61	50	150
1,3-Dichlorobenzene	1	16.7728	0	20	84	70	130
1,4-Dichlorobenzene	1	15.9519	0	20	80	70	130
1,2-Dichlorobenzene	1	16.4241	0	20	82	70	130
Isopropylbenzene	1	16.7628	0	20	84	70	130
Cyclohexanone	1	56.4877	0	100	56	50	150
Camphene	1	5.194	0	20	26*	70	130
1,2,3-Trichloropropane	1	15.2689	0	20	76	70	130
2-Chlorotoluene	1	16.5857	0	20	83	70	130
p-Ethyltoluene	1	14.9061	0	20	75	70	130
4-Chlorotoluene	1	15.4302	0	20	77	70	130
n-Propylbenzene	1	15.9349	0	20	80	70	130
Bromobenzene	1	13.9071	0	20	70	70	130
1,3,5-Trimethylbenzene	1	17.1409	0	20	86	70	130
Butyl methacrylate	1	16.5533	0	20	83	70	130
t-Butylbenzene	1	15.4342	0	20	77	70	130
1,2,4-Trimethylbenzene	1	15.2555	0	20	76	70	130
sec-Butylbenzene	1	16.8347	0	20	84	70	130
4-Isopropyltoluene	1	16.293	0	20	81	70	130
n-Butylbenzene	1	16.2517	0	20	81	70	130
p-Diethylbenzene	1	16.1497	0	20	81	70	130
1,2,4,5-Tetramethylbenzene	1	16.3456	0	20	82	70	130
1,2-Dibromo-3-Chloropropane	1	14.9145	0	20	75	50	150
Camphor	1	123.9954	0	200	62	20	150
Hexachlorobutadiene	1	18.1592	0	20	91	50	150
1,2,4-Trichlorobenzene	1	17.6113	0	20	88	70	130
1,2,3-Trichlorobenzene	1	17.5262	0	20	88	70	130
Naphthalene	1	15.5324	0	20	78	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS73695

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M140558.D	AD07645-004(MSD:AD07645-0	11/15/2018 11:19:00 A
Duplicate(If applicable):	3M140557.D	AD07645-003(MS:AD07645-002	11/15/2018 11:02:00 A
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	32.4999	30.0893	7.7	30
Dichlorodifluoromethane	1	26.2899	25.1166	4.6	30
Chloromethane	1	29.3996	25.8765	13	30
Bromomethane	1	21.3497	20.1641	5.7	30
Vinyl Chloride	1	20.6339	18.7058	9.8	40
Chloroethane	1	23.0074	21.1593	8.4	30
Trichlorofluoromethane	1	16.336	14.7076	10	30
Ethyl ether	1	14.8909	12.8943	14	30
Furan	1	14.992	12.912	15	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.2969	23.5518	5.5	30
Methylene Chloride	1	19.8236	19.6519	0.87	30
Acrolein	1	90.1699	72.8406	21	30
Acrylonitrile	1	19.9036	15.4626	25	30
Iodomethane	1	15.6882	16.5293	5.2	30
Acetone	1	80.3352	73.1264	9.4	30
Carbon Disulfide	1	15.9793	14.4426	10	30
t-Butyl Alcohol	1	84.9961	74.3465	13	30
n-Hexane	1	24.0575	21.2078	13	30
Di-isopropyl-ether	1	20.5005	19.1733	6.7	30
1,1-Dichloroethene	1	18.2499	17.9793	1.5	40
Methyl Acetate	1	16.6403	15.1157	9.6	30
Methyl-t-butyl ether	1	18.663	17.2209	8	30
1,1-Dichloroethane	1	18.8829	16.3199	15	40
trans-1,2-Dichloroethene	1	17.4227	15.3398	13	30
Ethyl-t-butyl ether	1	20.2959	17.656	14	30
cis-1,2-Dichloroethene	1	18.5351	17.1941	7.5	30
Bromochloromethane	1	16.4522	18.7986	13	30
2,2-Dichloropropane	1	21.3009	18.2927	15	30
Ethyl acetate	1	17.8353	17.9747	0.78	30
1,4-Dioxane	1	983.6322	755.5874	26	30
1,1-Dichloropropene	1	20.0224	17.9849	11	30
Chloroform	1	15.744	14.8949	5.5	40
Cyclohexane	1	23.1413	20.5188	12	30
1,2-Dichloroethane	1	19.412	17.6052	9.8	40
2-Butanone	1	19.2928	15.1847	24	40
1,1,1-Trichloroethane	1	16.5743	15.3596	7.6	30
Carbon Tetrachloride	1	17.5837	15.942	9.8	40
Vinyl Acetate	1	18.846	17.5039	7.4	30
Bromodichloromethane	1	17.4531	14.4552	19	30
Methylcyclohexane	1	21.4109	20.4838	4.4	30
Dibromomethane	1	24.1818	20.947	14	30
1,2-Dichloropropane	1	20.3407	18.2706	11	30
Trichloroethene	1	19.7411	17.1487	14	40
Benzene	1	22.4746	20.2297	11	40
tert-Amyl methyl ether	1	19.7681	18.5087	6.6	30
Iso-propylacetate	1	17.5311	14.5325	19	30
Methyl methacrylate	1	15.272	13.2339	14	30
Dibromochloromethane	1	13.7941	12.6013	9	30
2-Chloroethylvinylether	1	0	0	NA	30
cis-1,3-Dichloropropene	1	15.642	13.8501	12	30
trans-1,3-Dichloropropene	1	15.4623	12.7324	19	30
Ethyl methacrylate	1	15.0616	13.078	14	30
1,1,2-Trichloroethane	1	20.493	16.0275	24	30
1,2-Dibromoethane	1	16.3282	13.2552	21	30
1,3-Dichloropropane	1	19.9131	16.5823	18	30
4-Methyl-2-Pentanone	1	15.9782	13.1181	20	30
2-Hexanone	1	16.0251	13.9526	14	30
Tetrachloroethene	1	24.2658	23.2626	4.2	40
Toluene	1	16.8475	14.9458	12	40
1,1,1,2-Tetrachloroethane	1	20.3177	16.4072	21	30
Chlorobenzene	1	16.148	14.2292	13	40
n-Butyl acrylate	1	16.6311	13.5977	20	30
n-Amyl acetate	1	16.2239	14.3599	12	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS73695

Bromoform	1	14.2414	12.8278	10	30
Ethylbenzene	1	16.5584	13.9679	17	30
1,1,2,2-Tetrachloroethane	1	15.1798	13.632	11	30
Styrene	1	16.329	14.8095	9.8	30
m&p-Xylenes	1	34.0555	30.0484	13	30
o-Xylene	1	16.7695	15.5603	7.5	30
trans-1,4-Dichloro-2-butene	1	12.2811	11.3721	7.7	30
1,3-Dichlorobenzene	1	16.7728	14.2272	16	30
1,4-Dichlorobenzene	1	15.9519	13.3895	17	40
1,2-Dichlorobenzene	1	16.4241	13.9543	16	40
Isopropylbenzene	1	16.7628	14.6655	13	30
Cyclohexanone	1	56.4877	53.5991	5.2	30
Camphene	1	5.194	5.8004	11	30
1,2,3-Trichloropropane	1	15.2689	13.0911	15	30
2-Chlorotoluene	1	16.5857	14.7266	12	30
p-Ethyltoluene	1	14.9061	13.654	8.8	30
4-Chlorotoluene	1	15.4302	15.4167	0.09	30
n-Propylbenzene	1	15.9349	13.9385	13	40
Bromobenzene	1	13.9071	12.1285	14	30
1,3,5-Trimethylbenzene	1	17.1409	15.1287	12	30
Butyl methacrylate	1	16.5533	14.6275	12	30
t-Butylbenzene	1	15.4342	14.4754	6.4	30
1,2,4-Trimethylbenzene	1	15.2555	14.1461	7.5	30
sec-Butylbenzene	1	16.8347	14.7497	13	40
4-Isopropyltoluene	1	16.293	14.9094	8.9	30
n-Butylbenzene	1	16.2517	14.1462	14	30
p-Diethylbenzene	1	16.1497	14.8575	8.3	30
1,2,4,5-Tetramethylbenzene	1	16.3456	14.506	12	30
1,2-Dibromo-3-Chloropropane	1	14.9145	14.3277	4	30
Camphor	1	123.9954	91.1109	31*	30
Hexachlorobutadiene	1	18.1592	14.7533	21	30
1,2,4-Trichlorobenzene	1	17.6113	15.539	13	30
1,2,3-Trichlorobenzene	1	17.5262	15.4405	13	30
Naphthalene	1	15.5324	13.214	16	30

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

Hampton-Clarke
Analytical & Field Services

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