WHERE BUSINESS AND THE ENVIRONMENT CONVERGE

GROUNDWATER SAMPLING AND INVENTORY

DEPOT AVENUE
WINDSOR, VERMONT

VT HAZARDOUS SITE #20093977

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EXECUTIVE SUMMARY

On behalf of the Vermont Department of Environmental Conservation (DEC), Environmental Compliance Services, Inc. (ECS) has completed monitoring well inventory and assessment activities and site groundwater monitoring activities at the Depot Avenue site (VT Hazardous Site #20093977) in Windsor, Vermont. The work was performed on behalf of the VT DEC in accordance with the Work Plan and Cost Estimate prepared by ECS and dated December 17, 2015. The site consists of multiple properties in downtown Windsor, Vermont primarily in the area of Depot Avenue. A detailed site locus and site plan are included as **Figure 1** and **Figure 2**, respectively.

The State of Vermont requested that ECS complete additional investigation activities to further characterize the chlorinated volatile organic compound (CVOC) contamination and conduct long term monitoring. It is ECS' understanding that groundwater sampling has not occurred at the site since 2007.

The source of the CVOC-impacted groundwater plume appears to be from the vicinity of the Carter & Carter building (former Windsor Dry Cleaner) located at 9 Depot Avenue. In 2007, Golder Associates Inc. (Golder) detected the highest CVOC concentrations in the groundwater sample collected from monitoring well GAI-1S (located approximately 40 feet east and downgradient of the Carter & Carter building). In 2016, the highest CVOC groundwater concentrations were detected in GAI-3S which is approximately 100 feet east of GAI-1S. In addition, increases in CVOC concentrations were observed during the 2016 monitoring event in wells J-GW-DEP9 and J-GW-DEP8, both located along Depot Avenue, northeast of the Windsor Station Restaurant. It appears as though the main plume of CVOC-impacted groundwater has migrated east, as CVOC concentrations within GAI-1S dramatically decreased by an order of magnitude. The CVOC-impacted groundwater is primarily confined to the upper portion (approximately top ten feet) of the surficial aquifer on Depot Avenue. The CVOC concentrations observed in the shallow interval are two to three orders of magnitude higher than the CVOC concentrations observed in the deeper portion of the surficial aquifer.

The scope of work included the assessment and inventory of previously installed site monitoring wells; gauging of site wells for depth to light and dense non-aqueous phase liquid (LNAPL and DNAPL) and for depth to water; screening the PVC well heads for Total Organic Vapors (TOVs) with a photoionization detector (PID); determining groundwater elevations, flow directions and gradients; and, the collection of groundwater samples via low flow purging techniques. In addition, one drum of impacted purge water was disposed of as hazardous waste.

In total, 15 monitoring wells (GAI-1S, GAI-1D, GAI-2S, GAI-3S, GAI-3D, J-GW-APT2, J-GW-APT3, KAS-1, J-GW-DEP8, J-GW-DEP9, CBM-1, CBM-2, CBM-3, CBM-4 and CBM-5) were located and deemed viable for sampling. Samples were collected via low flow techniques and were submitted for laboratory analysis for Volatile Organic Compounds (VOCs) via Environmental Protection Agency (EPA) method 8260C.

Our findings based on this work are as follows:

- LNAPL or DNAPL was not identified in any of the wells gauged. Maximum TOVs were detected at 5.9 parts per million by volume (ppmv) within monitoring well GAI-1S. With the exception of GAI-3S (0.1 ppmv) and J-GW-DEP9 (0.8 ppmv), TOVs were not detected within the headspace of any other wells.

- Groundwater was generally encountered at depths ranging from 1.00 foot below grade surface (ft bgs) at KAS-1, located on the former Hunter Oil Co. property, to 8.28 ft bgs at GAI-2S, located south of the Carter and Carter property within shallow site wells. Groundwater was encountered at depths ranging from 13.61 ft bgs at GAI-1D to 29.10 ft bgs at CBM-1; both of these wells were installed to monitor the deep surficial aquifer (greater than 10 feet). Groundwater generally flows west to east across the Carter and Carter property and then appears to flow east/northeasterly along Depot Street and southeast towards the Windsor Station Restaurant.

- The groundwater sample collected from monitoring well GAI-3S contained the highest concentrations of total CVOCs. Tetrachloroethene was detected at 9,240 µg/L, trichloroethene was detected at 1,460 µg/L and cis-1,2-Dichloroethene was detected at 3,050 µg/L. In the associated deeper aquifer monitoring well GAI-3D, only tetrachloroethene was detected above laboratory detection limits and the Vermont Groundwater Quality Preventative Action Level (VGPA); however, below the Vermont Groundwater Enforcement Standards (VGES).

- Groundwater collected from monitoring well GAI-1S, exhibited the second highest concentrations of CVOCs across the site. This well previously contained the highest concentrations of CVOCs during the 2007 sampling event completed by Golder. All concentrations exceeded the VGES for each compound. In the associated deeper aquifer monitoring well GAI-1D, only tetrachloroethene was detected above LDL and VGPA, however below VGES.

- Additional VGES exceedances of tetrachloroethene were detected in groundwater samples collected from J-GW-APT3 (8.8 µg/L), J-GW-DEP8 (9.2 µg/L) and J-GW-DEP9 (76. 0 µg/L). Concentrations of trichloroethene were detected above VGES in J-GW-DEP9 (7.0 µg/L). Concentrations of cis-1,2-Dichlorethene were detected above LDLs in all three wells, however concentrations were below VGES and VGPA.

- The main plume of CVOC–impacted groundwater appears to have migrated approximately 100 feet east of GAI-1S towards GAI-3S in the Depot Avenue area. CVOC concentrations also increased in wells J-GW-DEP9 and J-GW-DEP8, east of the source area which suggests further migration of the groundwater plume east.

- The CVOC-impacted groundwater appears primarily contained to the top ten feet of the surficial Depot Avenue aquifer, as CVOCs detected in deeper wells (GAI-1D and GAI-3D) were not detected above VGES, and only tetrachloroethene was detected above VGPA within both wells.

- Concentrations of tetrachloroethene degradation products, specifically cis-1,-2-Dichloroethene, trichloroethene and vinyl chloride did not appear to increase with the exception of concentrations detected in groundwater collected from monitoring well GAI-3S. The increased concentrations within GAI-3S, appeared more related to movement of the groundwater plume, rather than increased degradation of CVOCs across the site.

Based on these findings, ECS has the following recommendations:

- Re-installation of monitoring wells including at least (Stacey)-MW-202, (Stacey)-MW-201, JGW-DEP5, JGW-DEP6 and JGW-DEP11.

- Groundwater monitoring and reporting should continue on a bi-annual basis to further assess the migration of the CVOC plume across the site.

- Indoor air quality should be monitored again within the Windsor Station Restaurant due to the presence CVOC impacted groundwater migrating towards the structure.

1.0 INTRODUCTION

On behalf of the Vermont DEC, ECS has completed monitoring well inventory and assessment activities and site monitoring activities on January 29, February 1 and February 3, 2016 at the Depot Avenue site (VT Hazardous Site #20093977) in Windsor, Vermont. The work was performed on behalf of the VT DEC in accordance with the Work Plan and Cost Estimate prepared by ECS dated December 17, 2015. The Work Plan was approved by the DEC in email correspondence dated December 22, 2015.

The site consists of multiple properties in downtown Windsor, Vermont primarily in the area of Depot Avenue. A detailed site locus and site plan are included as Figure 1 and Figure 2, respectively.

1.1 SCOPE OF WORK

The scope of work included the assessment and inventory of previously installed site monitoring wells; gauging of site wells for depth to light and dense non-aqueous phase liquid (LNAPL and DNAPL) and for depth to water; screening the PVC well heads for Total Organic Vapors (TOVs) with a photoionization detector (PID); determining groundwater elevations, flow directions and gradients; and, the collection of groundwater samples via low flow purging techniques. In addition, one drum of impacted purge water was disposed of as hazardous waste.

In total 15 monitoring wells (GAI-1S, GAI-1D, GAI-2S, GAI-3S, GAI-3D, J-GW-APT2, J-GW-APT3, KAS-1, J-GW-DEP8, J-GW-DEP9, CBM-1, CBM-2, CBM-3, CBM-4 and CBM-5) were located and deemed viable for sampling. Samples were collected via low flow techniques and were submitted for laboratory analysis of Volatile Organic Compounds (VOCs) via Environmental Protection Agency (EPA) method 8260C.

1.2 SITE BACKGROUND

The site has undergone numerous environmental site investigations which has included the assessment of chlorinated solvents in soil, groundwater, sediment and vapor across the site and nearby properties. Initial investigations of the site occurred in 1997 and 1998 by Heindel and Noyes (H&N). Tetrachloroethene (PCE) and trichloroethene (TCE)-impacted groundwater was initially discovered on the CN Real Estate Property (formerly Stacey Fuels) located east of Depot Avenue. At that time the highest concentrations of chlorinated VOCs (CVOCs) were detected within monitoring well MW-202 which was located on the western edge of the Stacey Fuels property where it meets Depot Avenue. In a follow-up investigation by H&N in 2000, the former Windsor Dry Cleaning operation located at 9 Depot Avenue was identified as the most likely source of CVOC impacts to groundwater.

In 2002 AEGIS Engineering Services Inc. (AEGIS) performed a limited subsurface investigation of the 9 Depot Avenue property. The property was owned at the time by Carter and Carter Construction Inc., and therefore is referred to as the Carter & Carter property. Three soil borings were completed as monitoring wells and soil and groundwater samples were collected for VOC analysis. Concentrations of CVOCs were not detected within soil samples from the site; however, PCE was detected within groundwater monitoring well CC-MW-2 at 2 micrograms per liter (µg/L), which was located downgradient of the Carter and Carter building. AEGIS concluded that the release was not associated with the Carter and Carter property based on low levels of CVOCs detected in groundwater and the absence of CVOCs detected in soil samples.

In 2005, The Johnson Company (TJC) performed a Targeted Brownfields Assessment of the downtown Windsor, Depot Avenue area. TJC conducted groundwater quality screening and sampling, soil vapor

screening and soil type and quality sampling. Analysis of groundwater samples concluded that the highest concentrations of PCE exist in an isolated area around MW-202, which was located in the approximate center of a large 10-inch thick concrete pad, immediately northwest of the Windsor Station Restaurant. TJC also found elevated concentrations of PCE degradation products, specifically TCE and 1,2-Dichloroethene (cis-1,2-DCE) above Vermont Standards, indicating the degradation of PCE in the area. Groundwater samples collected from cross-gradient wells to MW-202, J-GW-APT1 and J-GW-APT3, revealed concentrations of PCE above Vermont Standards. TJC concluded that this data suggests that PCE-impacted groundwater observed at monitoring well MW-202 was not the source area of the PCE-impacted groundwater plume. Additional soil vapor data collected by TJC, supported this conclusion and TJC concluded that the source was upgradient of MW-202 in the vicinity of the Carter and Carter (Former Windsor Dry Cleaning) property.

In 2006, Stone Environmental (Stone) conducted indoor air quality and soil gas monitoring at properties located in the Depot Avenue area. Stone collected 28 soil gas and 32 indoor air quality samples. PCE concentrations were detected near the Carter & Carter building and Windsor Station Restaurant at concentrations of 3.6 micrograms per cubic meter (µg/m^3) and 19 µg/m^3, respectively. Stone also assessed whether the sanitary sewer and storm sewer lines were providing a preferential pathway for CVOC impacted groundwater in the Depot Avenue area. Stone did not detect PCE in water samples collected from sanitary sewer lines or within soil in the vicinity of MW-202. However, PCE was detected within a sludge/sediment sample collected from sanitary sewer lines beneath the Windsor Station Restaurant at concentrations of 1,380 µg/L. The source of PCE within the sludge sample was undetermined.

In 2007 Golder Associates Inc. (Golder) further assessed the site area via a Limited Phase II Site Assessment. Golder concluded that the CVOC-impacted groundwater plume appeared to migrate from the Carter and Carter building (Former Windsor Dry Cleaner). The highest CVOC concentrations were detected within groundwater samples collected from monitoring well GAI-1S which was located forty feet downgradient of the Carter and Carter building. CVOCs were detected at higher concentrations within groundwater from GAI-1S than in groundwater samples from MW-202. In addition, Golder found that CVOC-impacted groundwater was primarily contained to the upper portion (top ten feet) of the surficial Depot Avenue aquifer. CVOCs observed in the shallow aquifer were two orders of magnitude greater than those observed in the deeper portions of the surficial aquifer.

1.3 PURPOSE AND OBJECTIVES

The purpose of this work was to further characterize the degree and extent of CVOC contamination located in the Depot Avenue Area in Downtown Windsor, Vermont as part of a long-term monitoring plan. The objective was to further assess groundwater contamination in the area and to determine the extent and migration of the CVOC plume in shallow and deep surficial aquifers. The purpose was to also assess the viability of site monitoring wells as the wells had not been sampled since 2007.

1.4 UPDATED CONCEPTUAL SITE MODEL

The source of the CVOC-impacted groundwater plume appears to be from the vicinity of the Carter & Carter building (former Windsor Dry Cleaner) located at 9 Depot Avenue. In 2007, Golder detected the highest CVOC concentrations in the groundwater sample collected from monitoring well GAI-1S (located approximately 40 feet downgradient of the Carter & Carter building). In 2016, the highest CVOC groundwater concentrations were detected in GAI-3S which is approximately 100 feet east of GAI-1S. In addition increases in CVOC concentrations were observed during the 2016 monitoring event in wells J-GW-DEP9 and J-GW-DEP8, both located along Depot Avenue, northeast of the Windsor Station Restaurant. It appears as though the main plume of CVOC impacted groundwater has migrated east, as CVOC concentrations within GAI-1S also dramatically decreased by an order of magnitude. The CVOC-

impacted groundwater is primarily confined to the upper portion (approximately top ten feet) of the surficial aquifer on Depot Avenue. The CVOC concentrations observed in the shallow interval are two to three orders of magnitude higher than the CVOC concentrations observed in the deeper portion of the surficial aquifer.

ECS' groundwater table surface map shows a groundwater flow direction from the area around the Carter and Carter building towards GAI-3S to the east, the Windsor Station Restaurant and the Former Stacey Fuels Property. The groundwater flow direction parallels the sanitary drain line that runs from the Carter & Carter building towards The Windsor Station Restaurant and GAI-3S. In addition, according to Golder, a water line runs parallel to Depot Avenue towards the east/northeast along the southern side of Depot Avenue. Both the water line and the sanitary drain line utility trench transects the water table near GAI-1S. Given the groundwater flow direction, the sanitary drain line and the water line running parallel to groundwater flow, and the preferential pathway along the sanitary drain and water line trench, the CVOC-impacted groundwater may be flowing within the utility trench towards the east/northeast. ECS was unable to located MW-202 which is located downgradient of GAI-3S and in between GAI-3S and the Windsor Station Restaurant. Data from this monitoring well would further confirm the easterly movement of the CVOC impacted groundwater plume.

2.0 INVESTIGATIVE PROCEDURES

2.1 MONITORING WELL INVENTORY AND ASSESSMENT EVENT

On January 29, 2016 and February 1, 2016, ECS visited the site and attempted to locate previously installed monitoring wells. The wells extend across multiple properties in Downtown Windsor and had not been sampled since 2007. Utilizing a metal detector, ECS was able to locate fifteen of thirty-four previously installed monitoring wells. Once the wells were located they were gauged for depth to water, depth to NAPL and were checked for structural integrity in order to determine if they could be sampled. No issues were identified with the viability of located monitoring wells with the exception of monitoring well GAI-2S which had a broken road box cover and J-GW-APT2, which had kinked PVC at six inches below grade. Both wells were deemed viable for sampling. Former wells which were previously located east of the Former Hunter Oil Co. building (current Paradise Sports Shop) and north/northwest of the Windsor Station Restaurant were presumed paved over (GAI-6, GAI-4, J-GW-APT1, GAI-5, MW-203 and MW-202). Former wells located on the Town of Windsor Highway Department property (J-GW-STA2, J-GW-STA3 and J-GW-STA4) were covered by a large sand pile. Former wells located in the grassy field, east of the railroad tracks and northeast of the Windsor Station Restaurant (Stacey-MW-102, GAI-7 and GAI-8) were not located due to metal interference with the metal detector and frozen ground. Monitoring wells CBM-1 through CBM-5 were all stick-up wells and were located.

2.2 NAPL, GROUNDWATER GAUGING AND TOV SCREENING

On January 29, February 1 and February 3, fifteen of thirty-four previously installed wells north of River Street were located and gauged for water levels and were also checked for LNAPL and DNAPL with an electronic interface probe. LNAPL or DNAPL was not identified in any of the wells gauged.

In addition each well was screened for TOVs utilizing a Tiger Ionscience PID equipped with a 10.7 ev lamp. The PID was referenced to isobutylene and calibrated to 100 ppmv with isobutylene span gas. Weather at the time of calibration was cloudy with temperatures at approximately 35 degrees Fahrenheit. TOVs were measured by screening headspace concentrations from the top of monitoring well PVC within each well. In summary maximum TOVs were detected at 5.9 ppmv within monitoring well GAI-1S. With the exception of GAI-3S (0.1 ppmv) and J-GW-DEP9 (0.8 ppmv), TOVs were not detected within the headspace of any other wells.

Static water-table elevations were computed for each monitoring well by subtracting the measured depth-to-water readings from the surveyed top-of-casing elevations. Horizontal gradients were calculated by dividing the groundwater elevation differences between two wells by the lateral distance between the wells.

2.3 GROUNDWATER SAMPLING

On February 1 and 3, 2016, groundwater samples were collected using low-flow sampling methods from fifteen site monitoring wells. These wells included GAI-1S, GAI-1D, GAI-2S, GAI-3S, GAI-3D, J-GW-APT2, J-GW-APT3, J-GW-DEP8, J-GW-DEP9, CBM-1, CBM-2, CBM-3, CMB-4 and CBM-5. The samples were submitted for laboratory analysis of VOCs by EPA Method 8260C.

All monitoring wells were purged and sampled using low-flow techniques in accordance with EPA Region I, “Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells”, revised January 2010 and ECS Standard Operating Procedures. The monitoring wells were purged and sampled using low-flow sampling techniques through a peristaltic

pump. Field indicator parameters including oxidation reduction potential (ORP), dissolved oxygen (DO), temperature, specific conductance, and pH were obtained during well purging for all wells via a portable multi-parameter water quality meter and flow through cell. In accordance with EPA recommended practices, samples for turbidity evaluation were collected prior to the flow through cell and measured with a turbidity meter. After stabilization of field indicator parameters, samples were collected from all wells for laboratory analysis. Turbidity values remained elevated and did not stabilize at monitoring wells CMB-3, J-GW-DEP8 and KAS-1 throughout the purging process while all other parameters stabilized. The appearance of the water was cloudy through one hour of purging. Due to the elevated turbidity after one hour, ECS re-sampled the three affected wells on February 3, in an effort to get the turbidity values to stabilize. Turbidity values stabilized (<1.58 NTU) within monitoring wells CBM-3 and KAS-1 on February 3, and groundwater samples were collected. On February 3, after two hours of purging there was no improved clarity of the groundwater (>1,000 NTU) from monitoring well J-GW-DEP8, so in accordance with the EPA guidance and correspondence with VT DEC personnel a sample was collected. Analytical data may be biased high due to the turbidity of the sample.

Oxidation-Reduction Potential (ORP) measures available oxygen used to reduce petroleum contaminants aerobically. A negative ORP would indicate an anaerobic environment, ideal of reductive dechlorination. Monitoring wells GAI-1D, GAI-3S, GAI-3D, J-GW-APT2, J-GW-DEP9, KAS-1, CBM-1 and CBM-3 exhibited negative ORP values. Chlorinated solvents naturally attenuate in anaerobic environments via reductive dechlorination. PCE will typically degrade via anaerobic dechlorination into TCE to 1,2-DCE to Vinyl Chloride to ethene and finally ethane.

Literature indicates that anaerobic environments occur when dissolved oxygen (DO) concentrations are below 2.0 milligrams per liter (mg/L). Monitoring wells GAI-1S, GAI-2S, GAI-3S, GAI-3D, J-GW-APT2 all had DO concentrations below 2.0 mg/L.

Samples were transported under chain of custody in an ice-filled cooler to Eurofins Spectrum Analytical, Inc. (Spectrum) of Agawam, Massachusetts. All field procedures were conducted in accordance with ECS standard protocols. A summary of stabilized field parameters is presented in Table 1. Low flow field sheets are included as Appendix A.

Trip blanks, equipment blank and duplicate samples were collected to ensure that adequate quality assurance/quality control (QA/QC) standards were maintained.

2.4 WASTE MANAGEMENT

Purge water was collected from each monitoring well across the site and temporarily stored in 5-gallon buckets with secured plastic lids. After completion of sampling each well, the purge water was then emptied into a metal 55-gallon drum temporarily staged at the Windsor Fire Department.

The drum was subsequently picked-up for disposal by Environmental Products and Solutions of Williston, Vermont on February 18, 2016 and was subsequently transported to their Syracuse, New York facility for disposal. Waste manifest documents are presented in Appendix B.

3.0 INVESTIGATIVE RESULTS

3.1 GROUNDWATER FLOW DIRECTION AND GRADIENTS

Groundwater was generally encountered at depths ranging from 1.00 ft bgs at KAS-1, located on the former Hunter Oil Co. property, to 8.28 ft bgs at GAI-2S, located south of the Carter and Carter property within shallow site wells. Groundwater within the deep surficial aquifer (greater than 10 feet) was encountered at depths ranging from 13.61 at GAI-1D to 15.27 at GAI-3D. Groundwater generally flows west to east across the Carter and Carter property and then appears to flow east/northeasterly along Depot Street and southeast towards the Windsor Station Restaurant.

A hydraulic gradient of 0.026 feet per foot was calculated on March 1, 2016 between GAI-1S and CBM-3. The two wells are separated by a distance of approximately 800 feet. The hydraulic relationship between the shallow unconfined overburden aquifer and the deeper aquifer (greater than 10 ft bgs) is currently unknown.

A groundwater contour map (**Figure 3**) was prepared using these data. Measurements and groundwater elevation calculations are presented in **Table 1**. Due to the various top of casing (TOC) elevations from multiple investigations at these sites, ECS utilized the 2007 survey data from Golder to calculate groundwater elevation at all wells in the sampling plan.

3.2 DISSOLVED-PHASE GROUNDWATER ANALYTICAL

VOC laboratory analytical results are summarized in **Table 2**. Laboratory analytical reports are presented in Appendix C. Dissolved VOC contaminant distribution maps are presented as Figures 4 through 6. A total of fifteen out of thirty-four wells north of River Street were sampled. Data was compared to the Vermont Groundwater Quality Enforcement Standards (VGES).

The groundwater sample collected from monitoring well GAI-3S contained the highest concentrations of total CVOCs. Tetrachloroethene was detected at 9,240 µg/L, trichloroethene was detected at 1,460 µg/L and cis-1,2-Dichloroethene was detected at 3,050 µg/L. No other VOCs were detected in groundwater samples from this well; however, due to elevated concentrations of CVOCs, the laboratory detection limit (LDL) for the sample was elevated (200 µg/L). All three detected CVOCs were detected above the VGES. In the associated deeper aquifer monitoring well GAI-3D, only tetrachloroethene was detected above laboratory detection limits and the Vermont Groundwater Quality Preventative Action Level (VGPA). However, tetrachloroethene was detected below the VGES in this deep well.

Groundwater collected from monitoring well GAI-1S, exhibited the second highest concentrations of CVOCs across the site. This well previously contained the highest concentrations of CVOCs during the 2007 sampling event completed by Golder. Tetrachloroethene was detected at 250 µg/L, trichloroethene was detected at 912 µg/L, cis-1,2-Dichloroethene was detected at 6,280, and vinyl chloride was detected at 74.8 µg/L. All concentrations exceeded the VGES for each compound. In addition, trans-1,2-Dichloroethene was detected below VGES but above the VGPA. In the associated deeper aquifer monitoring well GAI-1D, only tetrachloroethene was detected above LDL and VGPA but below VGES.

Concentrations of tetrachloroethene were detected above VGES in groundwater samples collected from J-GW-APT3 (8.8 µg/L), J-GW-DEP8 (9.2 µg/L) and J-GW-DEP9 (76.0 µg/L).

Concentrations of trichloroethene were detected above VGES in J-GW-DEP9 (7.0 µg/L). Concentrations of trichloroethene were detected above VGPA in J-GW-APT3 (1.8 µg/L) but below VGES.

Concentrations of cis-1,2-Dichlorethene were detected above LDLs in all three wells mentioned above; however, concentrations were below VGES and VGPA.

Concentrations of tetrachloroethene were detected within two of five wells located on the former Perne Building property, east of Depot Avenue and the former Stacey Fuel property at concentrations above the VGPA but below VGES; monitoring wells CBM-2 (4.5 µg/L) and CBM-3 (2.0 µg/L). No other CVOCs were detected above LDLs within these wells.

CVOCs were not detected above LDLs within groundwater samples collected from GAI-2S, KAS-1 or J-GW-APT2. These wells are located crossgradient of the source area on Depot Avenue.

In general, site concentrations of CVOCs decreased in groundwater with the exception of monitoring wells GAI-3S, J-GW-DEP8 and J-GW-DEP9. In addition, CVOCs concentrations, specifically tetrachloroethene, increased in monitoring wells CBM-2 and CBM-3, though these concentrations were below VGES.

The plume of CVOC-impacted groundwater appears to have migrated approximately 100 feet east of GAI-1S towards GAI-3S in the Depot Avenue area. The CVOC-impacted groundwater appears primarily contained to the top ten feet of the surficial Depot Avenue aquifer, as CVOCs detected in deeper wells (GAI-1D and GAI-3D) were not detected above VGES, and only tetrachloroethene was detected above VGPA. CVOC concentrations also increased in wells east of the source area specifically in J-GW-DEP9 and J-GW-DEP8, which suggests further migration of the groundwater plume to the east.

Concentrations of tetrachloroethene degradation products, specifically cis-1,-2-Dichloroethene, trichloroethene and vinyl chloride did not appear to increase with the exception of concentrations detected in groundwater collected from monitoring well GAI-3S. The increased concentrations within GAI-3S appeared more related to movement of the groundwater plume, rather than increased degradation of CVOCs across the site.

3.3 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

No VOCs were detected in the trip blank samples collected on February 1, 2016 or February 3, 2016. Additionally, VOCs were not detected within the equipment blank sample collected on February 1, 2015 (Table 2). Analytical results of VOCs in the duplicate sample collected from GAI-3D were all within the EPA's relative percent difference (RPD) guidance value of 30 percent for groundwater. The RPD values for the VOC analysis was 24.56 percent.

According to the laboratory, six VOC compounds (1,2-Dibromo-3-chloropropane, bromoform, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and tert-butlybenzene) were outside of individual acceptance criteria in the Laboratory Control Sample (LCS), but within overall method allowances. 1,2-Dibromo-3-chloropropane, bromoform and naphthalene could potentially have a low bias in the sample results while 1,2,4-trimethylbenznene, 1,3,5-trimethylbenzene and tert-butylbenzene could potentially have a high bias within the sampling data. As none of these compounds are contaminants of concern at the site, the biases are not expected to impact sampling results. Additional qualifiers were identified in the analytical report, however none appeared to affect the integrity of the sampling data.

To assure sample representativeness, all sampling methods were in accordance with EPA sampling policies currently in effect. Upon receipt of groundwater samples to the laboratory, all temperatures were within 6 degrees Celsius range with an infrared thermometer with a tolerance of +/- 1.0 degree. All groundwater samples were stored in a cooler with ice as required at the time of collection and later stored in a sample

refrigerator until the samples were picked-up by a currier for Eurofins Spectrum Analytical and transported within an iced cooler to the laboratory in Agawam, Massachusetts. All sampling containers and preservation methods complied with all applicable method requirements. All groundwater samples were analyzed within recommended analytical holding times.

4.0 FINDINGS AND RECOMMENDATIONS

Our findings based on this work are as follows:

- ECS visited the site and attempted to locate previously installed monitoring wells. Utilizing a metal detector, ECS was able to locate fifteen of thirty-four previously installed monitoring wells north of River Street. Former wells which were previously located east of the Former Hunter Oil Co. building (current Paradise Sports Shop) and west of the Windsor Station Restaurant were presumed paved over (GAI-6, GAI-4, J-GW-APT1, GAI-5, MW-203 and MW-202). Former wells located on the Town of Windsor Highway Department property (J-GW-STA2, J-GW-STA3 and J-GW-STA4) were covered by a large sand pile. Former wells located in the grassy field, east of the railroad tracks and northeast of the Windsor Station Restaurant (MW-102, GAI-7 and GAI-8) were not located due to metal interference with the metal detector and frozen ground.

- LNAPL or DNAPL was not identified in any of the wells gauged. Maximum TOVs were detected at 5.9 ppmv within monitoring well GAI-1S. With the exception of GAI-3S (0.1 ppmv) and J-GW-DEP9 (0.8 ppmv), TOVs were not detected within the headspace of any other wells.

- Groundwater was generally encountered at depths ranging from 1.00 ft bgs at KAS-1, located on the former Hunter Oil Co. property, to 8.28 ft bgs at GAI-2S, located south of the Carter and Carter property within shallow site wells. Groundwater was encountered at depths ranging from 13.61 ft bgs at GAI-1D to 29.10 ft bgs at CBM-1; both of these wells were installed to monitor the deep surficial aquifer (greater than 10 feet). Groundwater generally flows west to east across the Carter and Carter property and then appears to flow east/northeasterly along Depot Street and southeast towards the Windsor Station Restaurant.

- The groundwater sample collected from monitoring well GAI-3S contained the highest concentrations of total CVOCs. Tetrachloroethene was detected at 9,240 µg/L, trichloroethene was detected at 1,460 µg/L and cis-1,2-Dichloroethene was detected at 3,050 µg/L. In the associated deeper aquifer monitoring well GAI-3D, only tetrachloroethene was detected above laboratory detection limits and the Vermont Groundwater Quality Preventative Action Level (VGPA); however, below the VGES.

- Groundwater collected from monitoring well GAI-1S, exhibited the second highest concentrations of CVOCs across the site. This well previously contained the highest concentrations of CVOCs during the 2007 sampling event completed by Golder. All concentrations exceeded the VGES for each compound. In the associated deeper aquifer monitoring well GAI-1D, only tetrachloroethene was detected above LDL and VGPA, however below VGES.

- Additional VGES exceedances of tetrachloroethene were detected in groundwater samples collected from J-GW-APT3 (8.8 µg/L), J-GW-DEP8 (9.2 µg/L) and J-GW-DEP9 (76. 0 µg/L). Concentrations of trichloroethene were detected above VGES in J-GW-DEP9 (7.0 µg/L). Concentrations of cis-1,2-Dichlorethene were detected above LDLs in all three wells, however concentrations were below VGES and VGPA.

- The main plume of CVOC–impacted groundwater appears to have migrated approximately 100 feet east of GAI-1S towards GAI-3S in the Depot Avenue area. CVOC concentrations also increased in wells J-GW-DEP9 and J-GW-DEP8, east of the source area which suggests further migration of the groundwater plume east.

- The CVOC-impacted groundwater appears primarily contained to the top ten feet of the surficial Depot Avenue aquifer, as CVOCs detected in deeper wells (GAI-1D and GAI-3D) were not detected above VGES, and only tetrachloroethene was detected above VGPA within both wells.

- Concentrations of tetrachloroethene degradation products, specifically cis-1,-2-Dichloroethene, trichloroethene and vinyl chloride did not appear to increase with the exception of concentrations detected in groundwater collected from monitoring well GAI-3S. The increased concentrations within GAI-3S, appeared more related to movement of the groundwater plume, rather than increased degradation of CVOCs across the site.

Based on these findings, ECS has the following recommendations:

- Re-installation of monitoring wells including at least (Stacey)-MW-202, (Stacey)-MW-201, JGW-DEP5, JGW-DEP6 and JGW-DEP11.

- Groundwater monitoring and reporting should continue on a bi-annual basis to further assess the migration of the CVOC plume across the site.

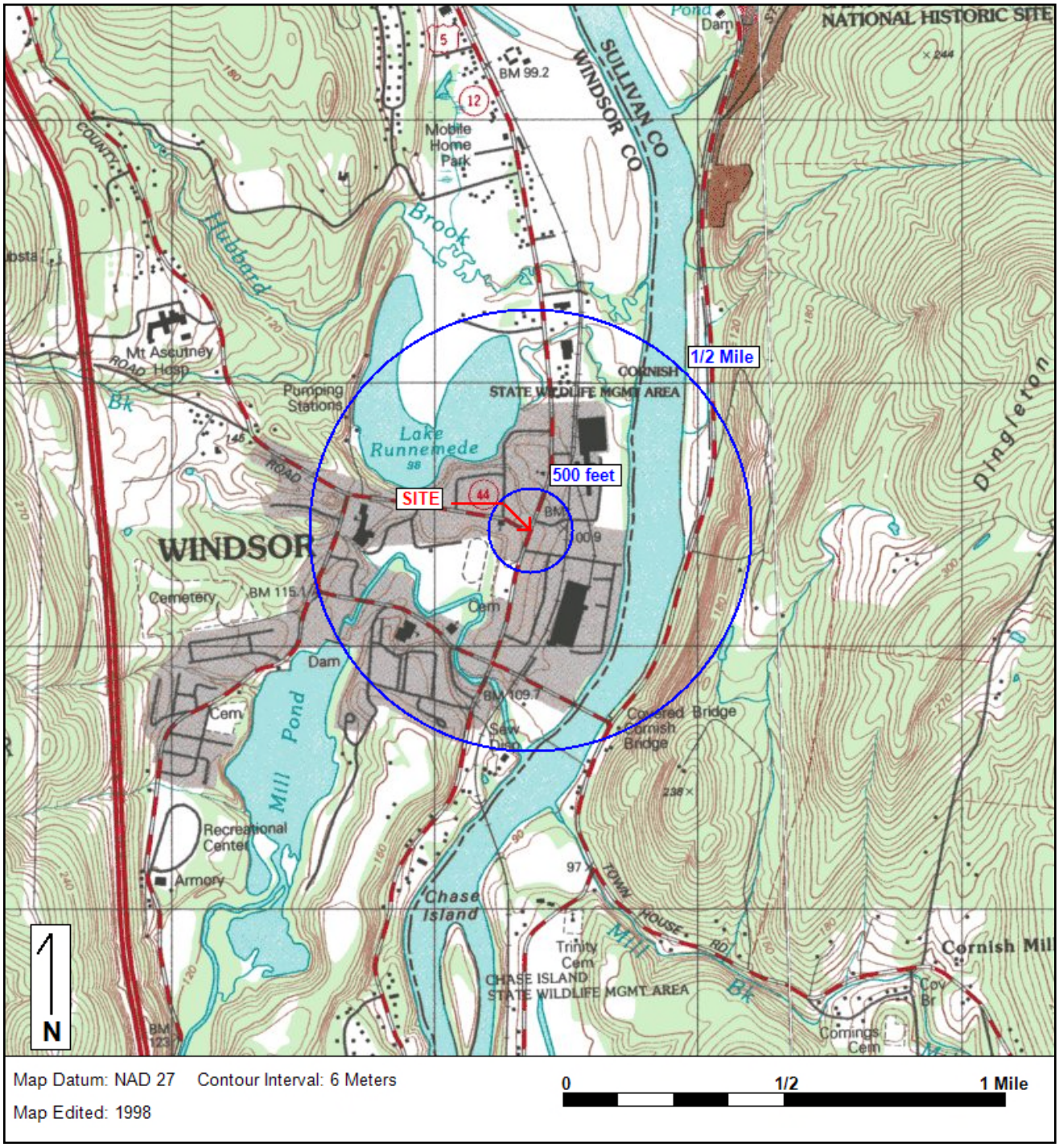
- Indoor air quality should be monitored again within the Windsor Station Restaurant due to the presence CVOC impacted groundwater migrating towards the structure.

FIGURES

Environmental Compliance Services, Inc.
70 Landmark Hill Drive
Brattleboro, VT 05301
Phone 802-257-1195 Fax 802-257-1603
www.ecsconsult.com

Downtown Windsor
Depot Avenue
Windsor, VT

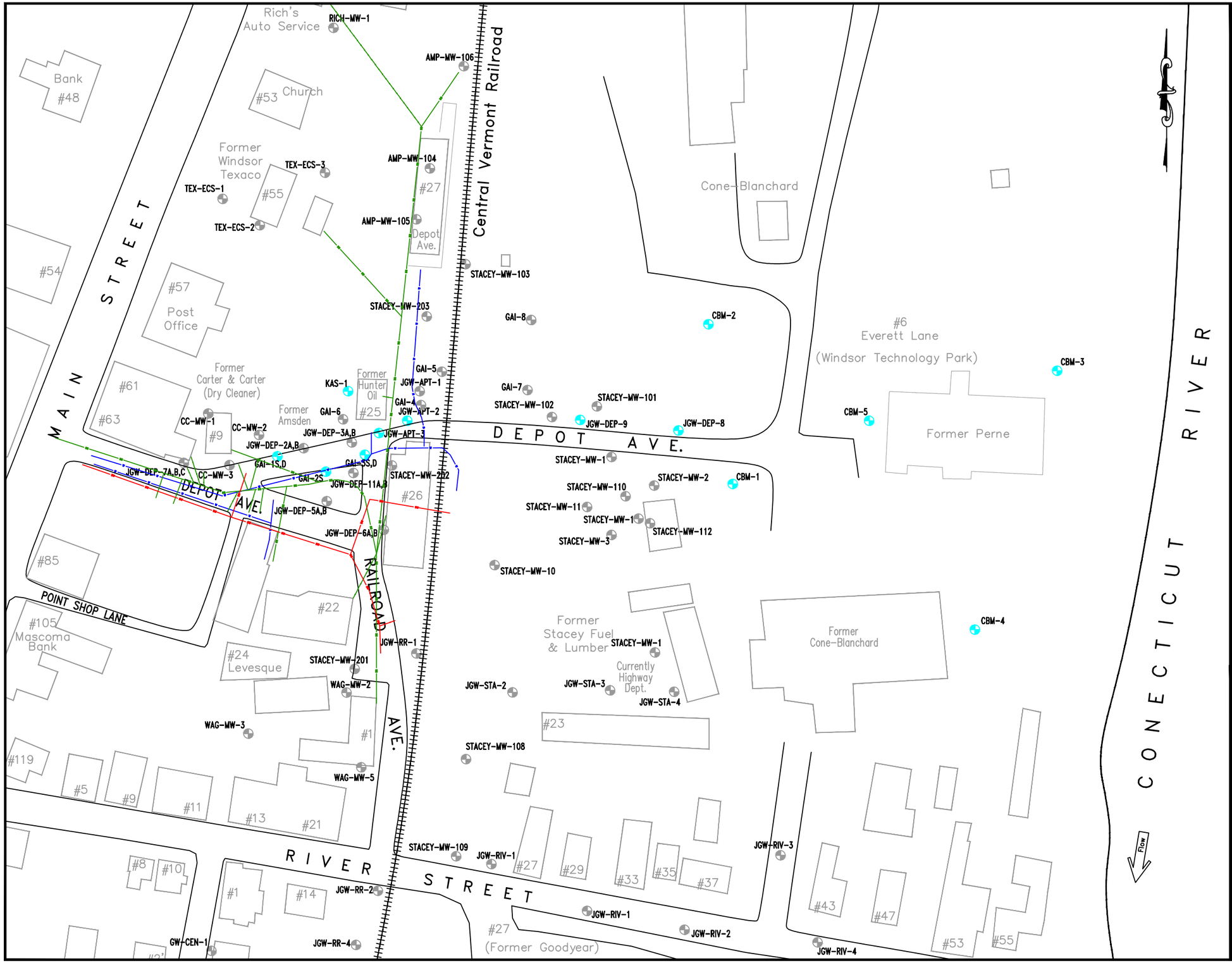
Figure 1: SITE LOCUS



Base Map: U.S. Geological Survey; Quadrangle Location: Windsor, VT

Lat/Lon: 43 28' 48.08" NORTH, 72 23' 11.65" WEST - UTM Coordinates: 18 711354.7 EAST / 4817440.7 NORTH

Generated By: Carol Farrington



Legend

- Railroad Track
- Sanitary Sewer Line
- Water Line
- Storm Sewer Line
- Monitoring Well Sampled
- Monitoring Wells Not Located

General Notes:

Site plan based on Town of Windsor Assessors Maps, an airphoto by Google Earth circa 9/19/13, plans and information from previous reports by various consultants and observations by representatives of ECS.

All locations and dimensions on this plan are are approximate only. This plan should not be used for construction or land conveyance purposes.

ecs
70 Landmark Hill * Brattleboro, VT 05301
Phone: 888-718-1195 Fax: 802-257-1603
ecsconsult.com

PROJECT:
Downtown Windsor
Downtown Windsor Area
Windsor, Vermont

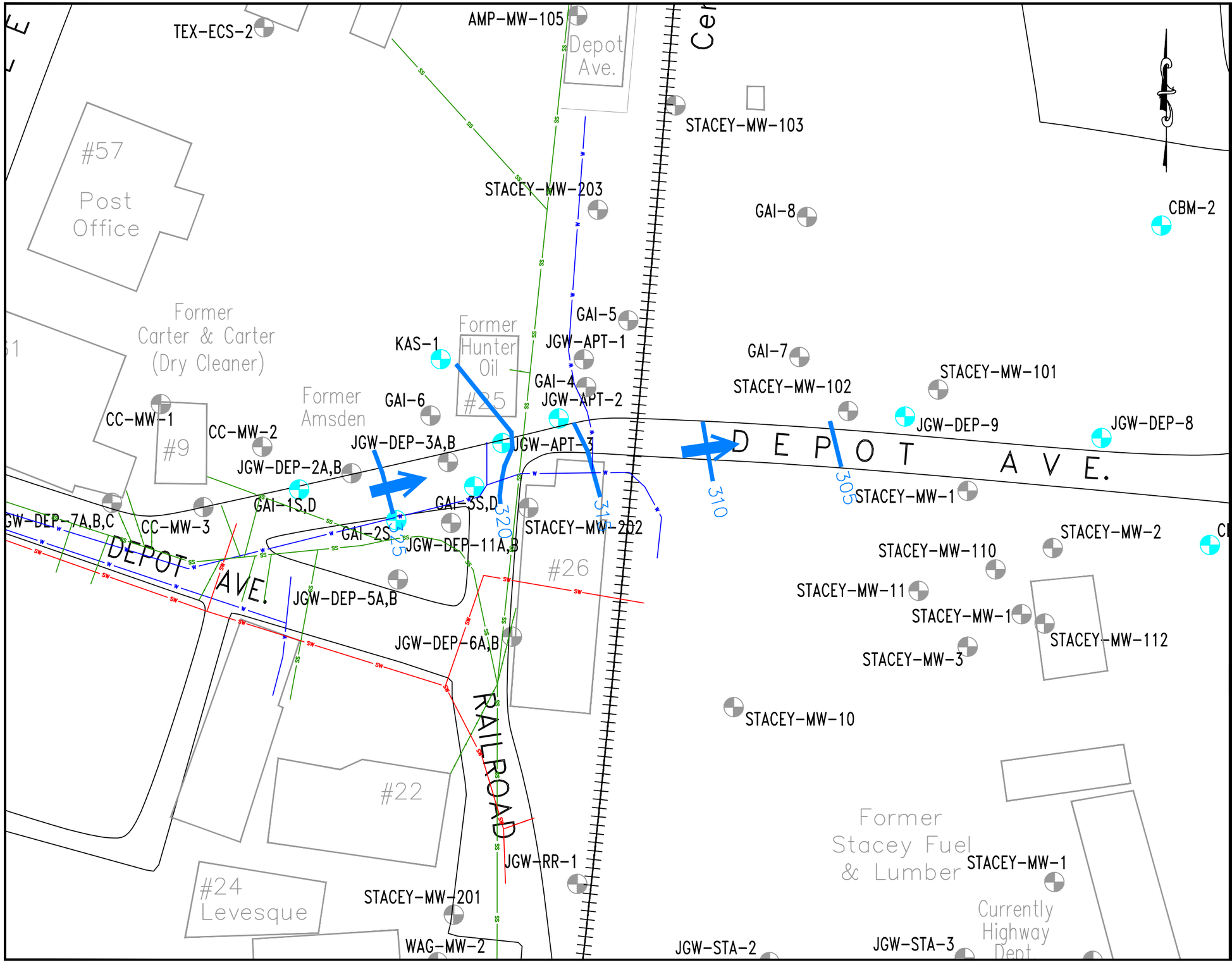
TITLE:
Site Plan

CLIENT:
State of Vermont

GRAPHIC SCALE: 100 50 0 50 100

COMPUTER CADFILE : 224488e.dwg

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
RAS	WV	WV	
SCALE:	**DATE:**	**JOB NO.:**	**FIGURE NO.:**
1" = 100'	4/7/16	224488	2



Legend

- Railroad Track
- Sanitary Sewer Line
- Water Line
- Storm Sewer Line
- Monitoring Well Sampled
- Monitoring Wells Not Located

General Notes:

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ecs
70 Landmark Hill • Brattleboro, VT 05301
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ecsconsult.com

PROJECT:
Downtown Windsor
Downtown Windsor Area
Windsor, Vermont

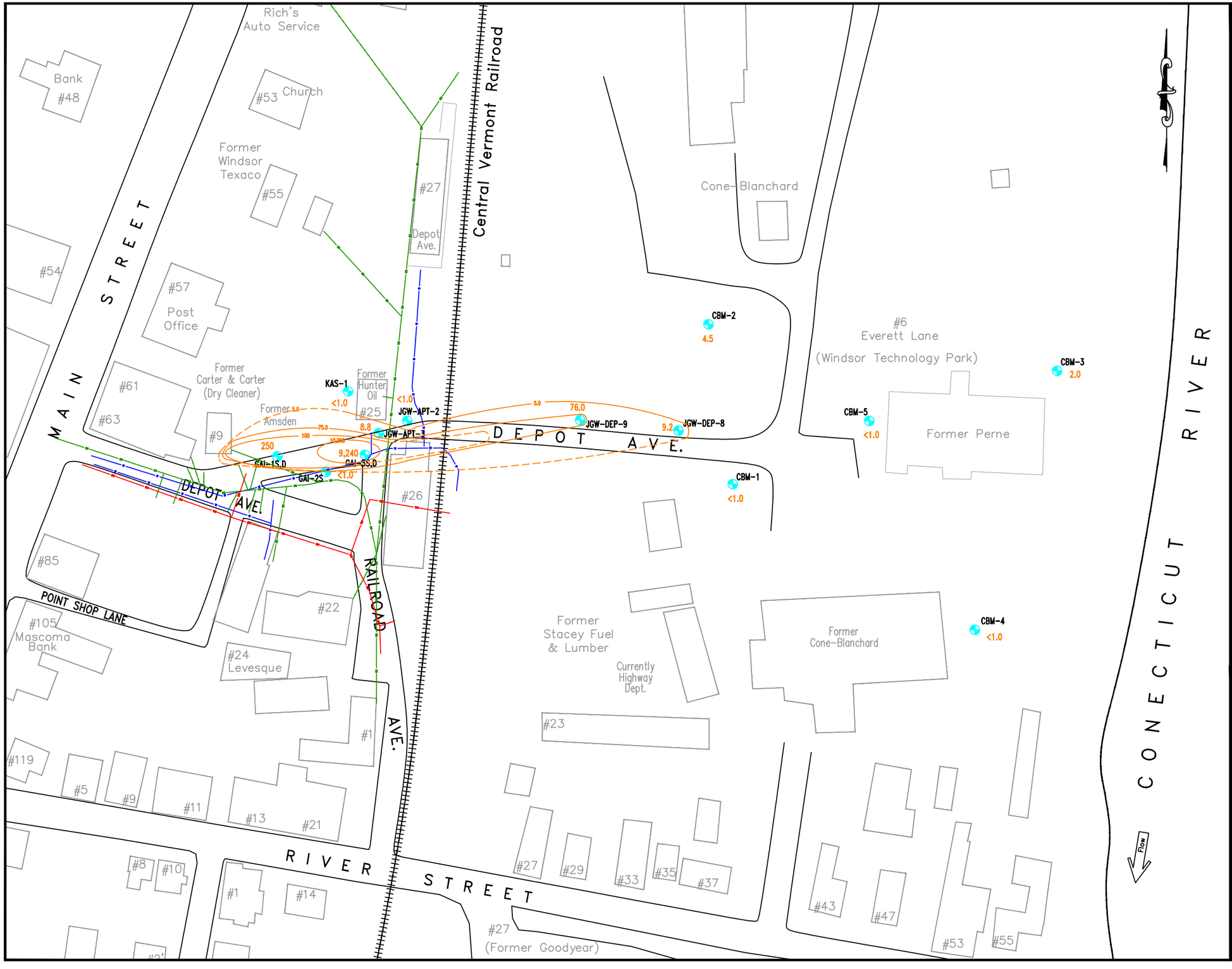
TITLE:
Site Plan

CLIENT:
State of Vermont

GRAPHIC SCALE: 50 25 0 25 50

COMPUTER CADFILE : 224488e.dwg

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
RAS	WV	WV	AF
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1" = 50'	4/7/16	224488	3



Legend

- Railroad Track
- Sanitary Sewer Line
- Water Line
- Storm Sewer Line
- Monitoring Well Sampled
- Interpreted PCE ISO-Concen.(dashed where inferred)
- 9,280 PCE Concentration ug/L

General Notes:

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ecs
70 Landmark Hill * Brattleboro, VT 05301
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ecsconsult.com

PROJECT:
Downtown Windsor
Downtown Windsor Area
Windsor, Vermont

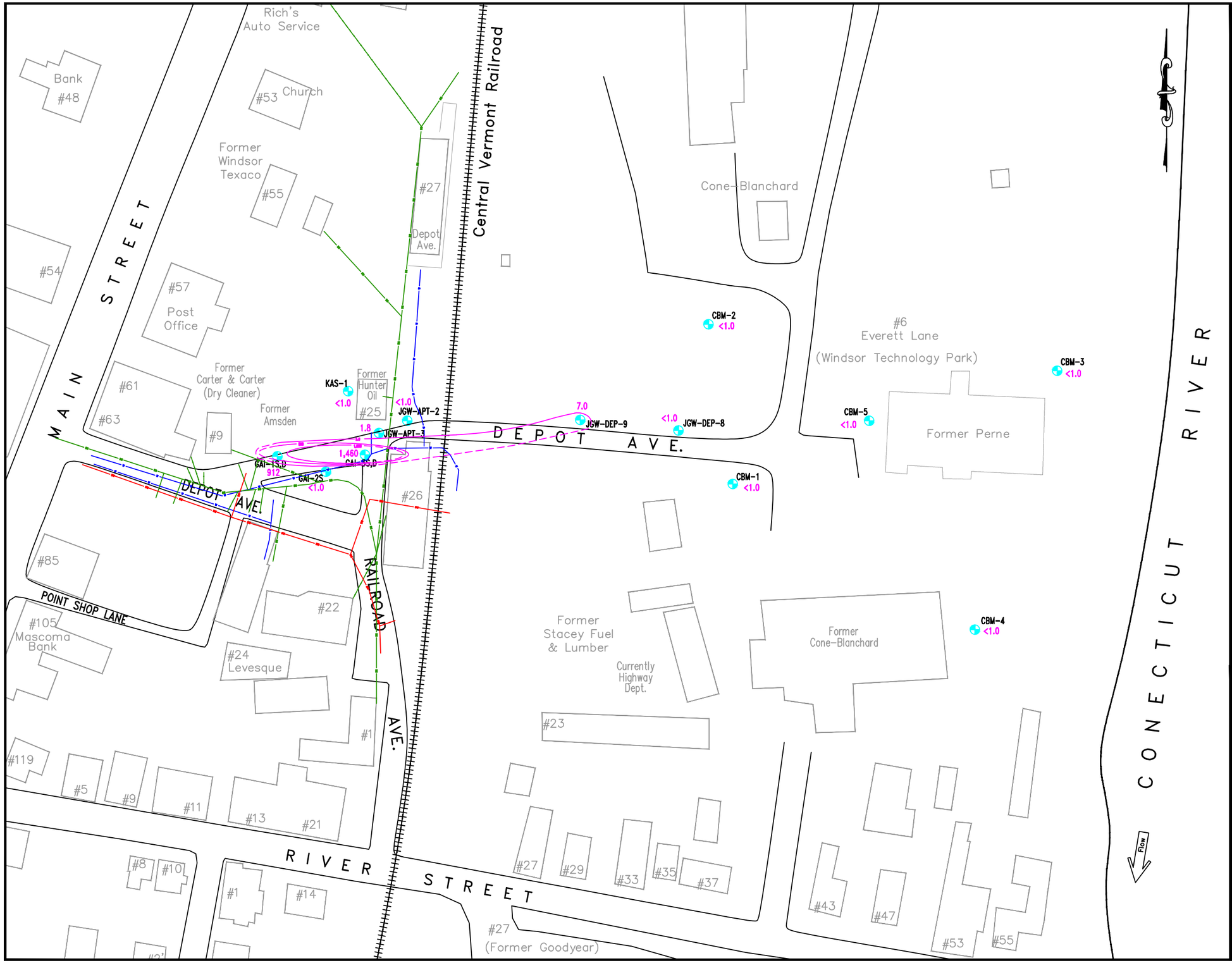
TITLE:
PCE Iso-Concentration Map

CLIENT:
State of Vermont

GRAPHIC SCALE: 100 50 0 50 100

COMPUTER CADFILE : 224488e.dwg

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
RAS	WV	WV	AF
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1" = 100'	4/7/16	224488	4



Legend

- Railroad Track
- Sanitary Sewer Line
- Water Line
- Storm Sewer Line
- Monitoring Well Sampled
- Interpreted TCE ISO-Concen. (dashed where inferred)
- 1,460 TCE Concentration ug/L

General Notes:

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ecs
70 Landmark Hill * Brattleboro, VT 05301
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ecsconsult.com

PROJECT:
Downtown Windsor
Downtown Windsor Area
Windsor, Vermont

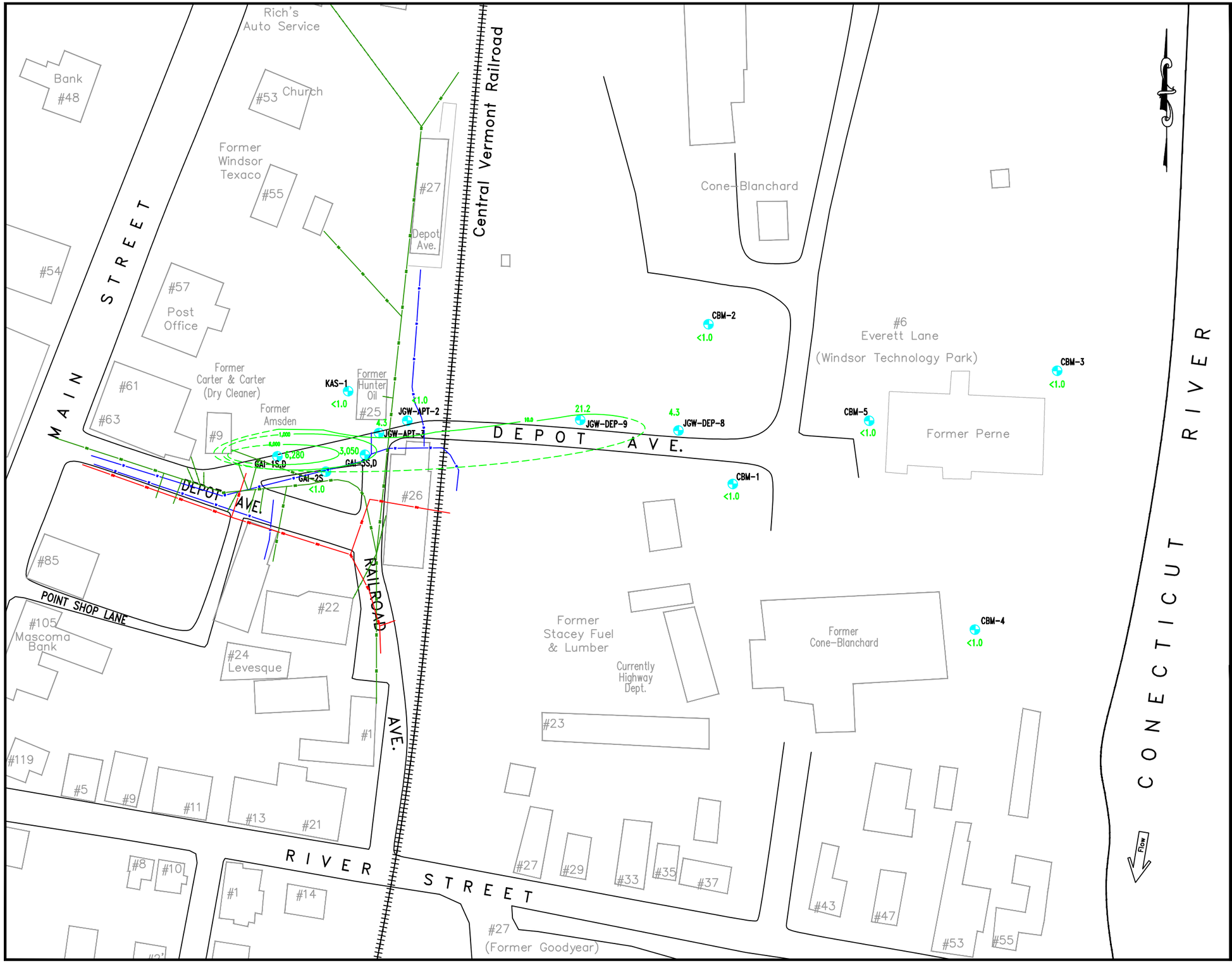
TITLE:
TCE Iso-Concentration Map

CLIENT:
State of Vermont

GRAPHIC SCALE: 100 50 0 50 100

COMPUTER CADFILE : 224488e.dwg

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
RAS	WV	WV	AF
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1" = 100'	4/7/16	224488	5



Legend

- Railroad Track
- Sanitary Sewer Line
- Water Line
- Storm Sewer Line
- Monitoring Well Sampled
- Interpreted 1,2-DCE ISO-Concen.(dashed where inferred)
- 6,280 1,2-DCE Concentration ug/L

General Notes:

Site plan based on Town of Windsor Assessors Maps, an airphoto by Google Earth circa 9/19/13, plans and information from previous reports by various consultants and observations by representatives of ECS.

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ecs
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ecsconsult.com

PROJECT:
Downtown Windsor
Downtown Windsor Area
Windsor, Vermont

TITLE:
1,2-DCE Iso-Concentration Map

CLIENT:
State of Vermont

GRAPHIC SCALE: 100 50 0 50 100

COMPUTER CADFILE : 224488e.dwg

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
RAS	WV	WV	AF
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1" = 100'	4/7/16	224488	6

TABLES

Environmental Compliance Services, Inc.
70 Landmark Hill, Brattleboro, Vermont 05301
(802) 257-1195 FAX (802) 257-1603

GROUNDWATER SAMPLING LOG

Client/Site: **Depot Avenue** Job Number: **04-224488**
Location: **Windsor, VT** Date: **1/29/16**
Personnel: **Jason Scholz-Karabakakis, Bradley Conway** Weather Conditions: **Cloudy 35 degrees F**

Well ID	Time Sampled	D (in.)	Point of Reference (PVC/Rim)	Total Depth (feet)	Depth to Product (feet)	Depth to Water (feet)	Water Height (feet)	Standing Volume (gallons)	Volume Purged (gallons)	Odors (Y/N)	pH	Temp (°C)	Sp. Cond. (umhos/sec)	ORP/Eh (mV)	Dissolved Oxygen (mg/L)	TOV	Comments
GAI-1S	13:12	2	PVC	15.28	NA	7.53	7.75	1.26	2.00	N	7.18	10.2	1373	6.6	1.90	5.9	
GAI-1D	18:37	2	PVC	25.99	NA	12.380	13.61	2.22	2.00	N	8.81	11.25	940	-246	5.91	0.0	
GAI-2S	17:25	2	PVC	14.88	NA	6.60	8.28	1.35	2.00	N	6.93	9.04	1236	10.7	1.83	0.0	Broken Cover
GAI-2D		2	PVC	28.38													1/29/2016 Unable to find
GAI-3S	16:25	2	PVC	14.83	NA	8.05	6.78	1.11	1.50	N	8.40	11.3	1783	-329.6	0.52	0.1	
GAI-3D	17:35	2	PVC	26.28	NA	11.01	15.27	2.49	2.5	N	8.73	11.2	1359	-295.3	1.03	0.0	
GAI-4		2	PVC	22.81													1/29/2016 Unable to find
GAI-5		2	PVC	19.53													1/29/2016 Unable to find
GAI-6		2	PVC	14.38													1/29/2016 Unable to find
GAI-7		2	PVC	26.28													1/29/2016 Unable to find
GAI-8		2	PVC	29.23													1/29/2016 Unable to find
J-GW-APT1		1	PVC	16.71													1/29/2016 Unable to find
J-GW-APT2	15:35	1	PVC	15.10	NA	13.00	2.10	0.34	2.0	N	8.5	11.4	1452	-34.9	0.80	0.0	PVC Kinked/Pinched at 6" below grade
J-GW-APT3	15:55	1	PVC	16.08	NA	8.45	7.63	1.24	2.5	N	6.9	10.58	1890	25.9	3.11	0.0	
J-GW-STA2		1	PVC	26.78													1/29/2016 Unable to find
J-GW-STA3		1	PVC	26.88													1/29/2016 Unable to find
J-GW-STA4		1	PVC	26.73													1/29/2016 Unable to find
J-GW-DEP8	14:05	1	PVC	29.58	NA	25.50	4.08	0.67	1.25	N	6.4	10.97	1074	74.5	5.54	0.0	
J-GW-DEP9	14:12	1	PVC	28.88	NA	26.00	2.88	0.47	1.2	N	7.8	10.66	1029	-252	5.98	0.8	
KAS-1	18:42	1	PVC	8.50	NA	7.50	1.00	0.16	3.6	N	8.0	3.83	405	-202.2	10.34	0.0	
MW-1																	1/29/2016 Unable to find
MW-2																	1/29/2016 Unable to find
MW-3																	1/29/2016 Unable to find
MW-4																	1/29/2016 Unable to find
Stacey-MW-101																	1/29/2016 Unable to find
Stacey-MW-102																	1/29/2016 Unable to find
Stacey-MW-103																	1/29/2016 Unable to find
Stacey-MW-104																	1/29/2016 Unable to find
Stacey-MW-105																	1/29/2016 Unable to find
Stacey-MW-106																	1/29/2016 Unable to find
Stacey-MW-107																	1/29/2016 Unable to find
Stacey-MW-108																	1/29/2016 Unable to find
Stacey-MW-109																	1/29/2016 Unable to find
Stacey-MW-110																	1/29/2016 Unable to find
Stacey-MW-111																	1/29/2016 Unable to find
Stacey- MW-112																	1/29/2016 Unable to find
Stacey- MW-201																	1/29/2016 Unable to find
MW-202																	1/29/2016 Unable to find
MW-203																	10/16/07 Destroyed
CC-MW-2																	1/29/2016 Unable to find
CC-MW-3																	1/29/2016 Unable to find
CBM-1	13:20	2	PVC	35.65	NA	29.10	6.55	1.07	1.25	N	7.5	11.14	1634	-251.4	7.01	0.0	Raised well
CBM-2	13:05	2	PVC	30.20	NA	21.50	8.70	1.42	1.25	N	6.5	10.85	1287	88.4	5.55	0.0	Raised well
CBM-3	12:25	2	PVC	34.20	NA	28.50	5.70	0.93	1.5	N	7.5	9.94	569	-274.8	4.29	0.0	Raised well
CBM-4	11:43	2	PVC	33.70	NA	23.20	10.50	1.71	1.25	N	5.0	10.47	533	34.3	6.22	0.0	Raised well
CBM-5	11:20	2	PVC	34.53	NA	26.10	8.43	1.37	1.2	N	7.72	10.8	3.14	264.6	6.12	0.0	Raised well
							(FORMULA	(FORMULA									

Field Instrumentation	I.D. Number	Calibration	Notes
Solinst groundwater level indicator			
Hanna Handheld PH and Temp Meter			

NOTES:
CBM-4 Could not remove cover
GAI-1S PVC riser below grade
GAI-2S Broken cover

Standing Volume (liters) = $\pi r^2(H)(7.48/144)(3.785) = r^2(H)(0.617)$
Standing Volume (gallons) = $r^2(H)(0.163)$
Where: r = inside radius of well (inches)
H = standing height of water (feet)

Depot Avenue
Windsor, Vermont
04-224488

Table 1
Summary of
Volatile Organic Compound
in Groundwater

WELL ID / Sampling Date		n-Butylbenzene	tert-Butyl Benzene	4-Chlorotoluene	Isopropylbenzene	1,2-Dibromo-3-chloropropane	1,1-Dichloroethene	cis-1,2-Dichloroethene (DCE)	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Ethylbenzene	4-Isopropyltoluene	Naphthalene	n-Propylbenzene	Tetrachloroethene (PCE)	Toluene	Trichloroethene (TCE)	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride (VC)	m,p-Xylene	o-Xylene
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	Enforcement Standard	**NS**	**NS**	**100**	**NS**	**0.2**	**7**	**70**	**100**	**0.5**	**700**	**NS**	**20**	**NS**	**5**	**1,000**	**5**	**5**	**350**		**2**	**10,000**	
	Preventive Action Level	**NS**	**NS**	**50**	**NS**	**0.2**	**0.7**	**35**	**50**	**0.5**	**350**	**NS**	**10**	**NS**	**0.5**	**500**	**0.5**	**0.5**	**2.5**	**2**	**0.5**	**5,000**	
CBM-1																							
7/11/1996		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS	NS	NS	NS	NS	NS
2/1/2016		<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
CBM-2																							
7/11/1996		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6**	NS	ND	NS	NS	NS	NS	NS	NS
2/1/2016		<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	**4.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
CBM-3																							
7/11/1996		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2**	NS	ND	NS	NS	NS	NS	NS	NS
2/3/2016		<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	**2.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
CBM-4																							
7/11/1996		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2**	NS	ND	NS	NS	NS	NS	NS	NS
2/1/2016		<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
CBM-5																							
7/11/1996		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**0.8**	NS	ND	NS	NS	NS	NS	NS	NS
2/1/2016		<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
GAI-1S																							
6/18/2007		**6.4**	<5.0	<5.0	<5.0	<5.0	**5**	**41,000**	<2,000	**7.7**	<5.0	<5.0	**9.8**	<5.0	**9,700**	**48**	**10,000**	<5.0	**29**	**5.7**	**870**	**5.6**	**9.6**
2/1/2016		<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	**6,280**	**56.5**	<12.5	<25.0	<25.0	<25.0	<25.0	**250**	<25.0	**912**	<25.0	<25.0	<25.0	**74.8**	<50.0	<25.0
GAI-1D																							
6/18/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**41**	<5.0	**7.7**	<5.0	<5.0	<5.0	<5.0	**9.6**	<5.0	**18**	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
2/1/2016		<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
GAI-2S																							
6/19/2007		<5.0	**5.3**	<5.0	<5.0	<5.0	<5.0	**7,800**	**120**	<5.0	<5.0	<5.0	<5.0	<5.0	**1,100**	<5.0	**960**	<5.0	<5.0	<5.0	**160**	<5.0	<5.0
2/1/2016		<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
GAI-2D																							
6/19/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
GAI-3S																							
6/20/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**160**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**140**	<5.0	**41**	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
2/1/2016		<200	<200	<200	<200	<400	<200	**3,050**	<200	<100	<200	<200	<200	<200	**9,240**	<200	**1,460**	<200	<200	<200	<200	<400	<200
GAI-3D																							
6/20/2007		<5.0	**5.3**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
2/1/2016		<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	**3.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
DUPLICATE (GAI-3D)																							
2/1/2016		<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	**2.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
GAI-4																							
6/19/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
GAI-5																							
6/19/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
GAI-6																							
6/19/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**11**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**12**	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
GAI-7																							
6/20/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**17**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**40**	<5.0	**5.2**	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
GAI-8																							
6/20/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
DUP-01 (GAI-8)																							
6/20/2007		<5.0	<5.0	<5.0	<5.0	**7.9**	<5.0	<5.0	<5.0	**7.7**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
J-GW-APT1																							
11/9/2005		NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	**5**	ND	ND	NS	NS	NS	NS	ND	ND
6/21/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
J-GW-APT2																							
11/9/2005		NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	ND	ND	NS	NS	NS	NS	ND	ND
6/20/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
2/1/2016		<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
J-GW-APT3																							
11/9/2005		NS	NS	NS	NS	NS	NS	**100**	NS	NS	ND	NS	NS	NS	**55**	ND	**26**	NS	NS	NS	NS	ND	ND
6/20/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**120**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**65**	<5.0	**25**	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
2/1/2016		<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	**4.3**	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	**8.8**	<1.0	**1.8**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
J-GW-DEP8																							
9/2/2005		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1**	NS	NS	NS	NS	NS	NS	NS	NS
6/21/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
2/3/2016		<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	**4.3**	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	**9.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
J-GW-DEP9																							
9/2/2005		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**56**	NS	NS	NS	NS	NS	NS	NS	NS
6/21/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**8.6**	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
2/1/2016		<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	**21.2**	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	**76.0**	<1.0	**7.0**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0

Depot Avenue
Windsor, Vermont
04-224488

Table 1
Summary of
Volatile Organic Compound
in Groundwater

WELL ID / Sampling Date		n-Butylbenzene	tert-Butyl Benzene	4-Chlorotoluene	Isopropylbenzene	1,2-Dibromo-3-chloropropane	1,1-Dichloroethene	cis-1,2-Dichloroethene (DCE)	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Ethylbenzene	4-Isopropyltoluene	Naphthalene	n-Propylbenzene	Tetrachloroethene (PCE)	Toluene	Trichloroethene (TCE)	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride (VC)	m,p-Xylene	o-Xylene
J-GW-STA2																							
9/2/2005		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**61**	NS	NS	NS	NS	NS	NS	NS	NS
6/19/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**19**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**64**	<5.0	**6.5**	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
J-GW-STA3																							
9/2/2005		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17**	NS	NS	NS	NS	NS	NS	NS	NS
6/19/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**5.5**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**6.5**	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
J-GW-STA4																							
9/2/2005		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.3**	NS	NS	NS	NS	NS	NS	NS	NS
6/19/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
KAS-1																							
2/3/2016		<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0
MW-102																							
6/20/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**14**	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
MW-202																							
8/17/2005		NS	NS	NS	NS	NS	NS	**2,500**	**50**	ND	ND	NS	NS	NS	**2,700**	ND	**470**	NS	NS	NS	ND	ND	ND
9/14/2005		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/21/2007		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**810**	**18**	<5.0	<5.0	<5.0	<5.0	<5.0	**1,300**	<5.0	**230**	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
MW-203																							
6/21/2007		<5.0	<5.0	**9.1**	**6.2**	**14**	<5.0	<5.0	<5.0	<5.0	**24**	**6.1**	**270**	**6.4**	<5.0	<5.0	<5.0	**6**	**190**	**76**	<2.0	**70**	<5.0

NOTES:
All measurements referenced to an arbitrary datum of 100 feet.
NS = Not Sampled
NA = Not Analyzed
All results recorded in micrograms per liter (ug/l).

Bold-faced yellow highlighted values indicate concentration in excess of Vermont Primary Groundwater Quality Standards - Enforcement Standards

Bold-faced green highlighted values indicate concentration in excess of Vermont Primary Groundwater Quality Standards - Preventative Action Limits

APPENDIX A

ID	Photo #
CC-MW-2	19
driveway w/ former GA1-4, S-GW-AST1, etc...	20
interfering metal objects found across site	21
vicinity of MW-106	22
field w/ unfound wells + sprout station in background	23

Call AF

Back @ office / demob 4:30

04-224488.00 Windsor GWS 2/1/15

Mob truck, drive to site.
5:55 BC + SSA on-site

Set up @ CBM-5
Cal YSI:
2-pt pH → pH 10 Buffer, geotech LOT # ZAK399, pH 7 Buffer, geotech LOT #5AD829, Conductivity Std, geotech, lot # 56M560, ORP std, geotech LOT # 3AE309, DO, DI #0.

34.53 - 26.1 = 8.43
8.43 / 2 = 4.215
4.215 + ~~8.43 = 12.64~~ → Set tube 26.1 = 30.315
8.43 x 0.163 = 1.37 gal
1.37 x 3 = 4.11 gal (3x well vol)

★ See low flow field work-sheets

used OD FEP Nalgene lined LDPE tubing for sampling.
(geotech LOT # 2156472)

Set up @ CMB-3 DTW: 26.7 } previous
DTB: 34.2 } w/ data

Set up @ CMB-1
" " @ S-GW-DEP9
" " @ S-GW-APT2

S-GW-APT2 pvc is pinched,
cannot get i-probe in
used historic well construction
data for GW level + DTB

Setup @ GA1-3D + GA1-3S

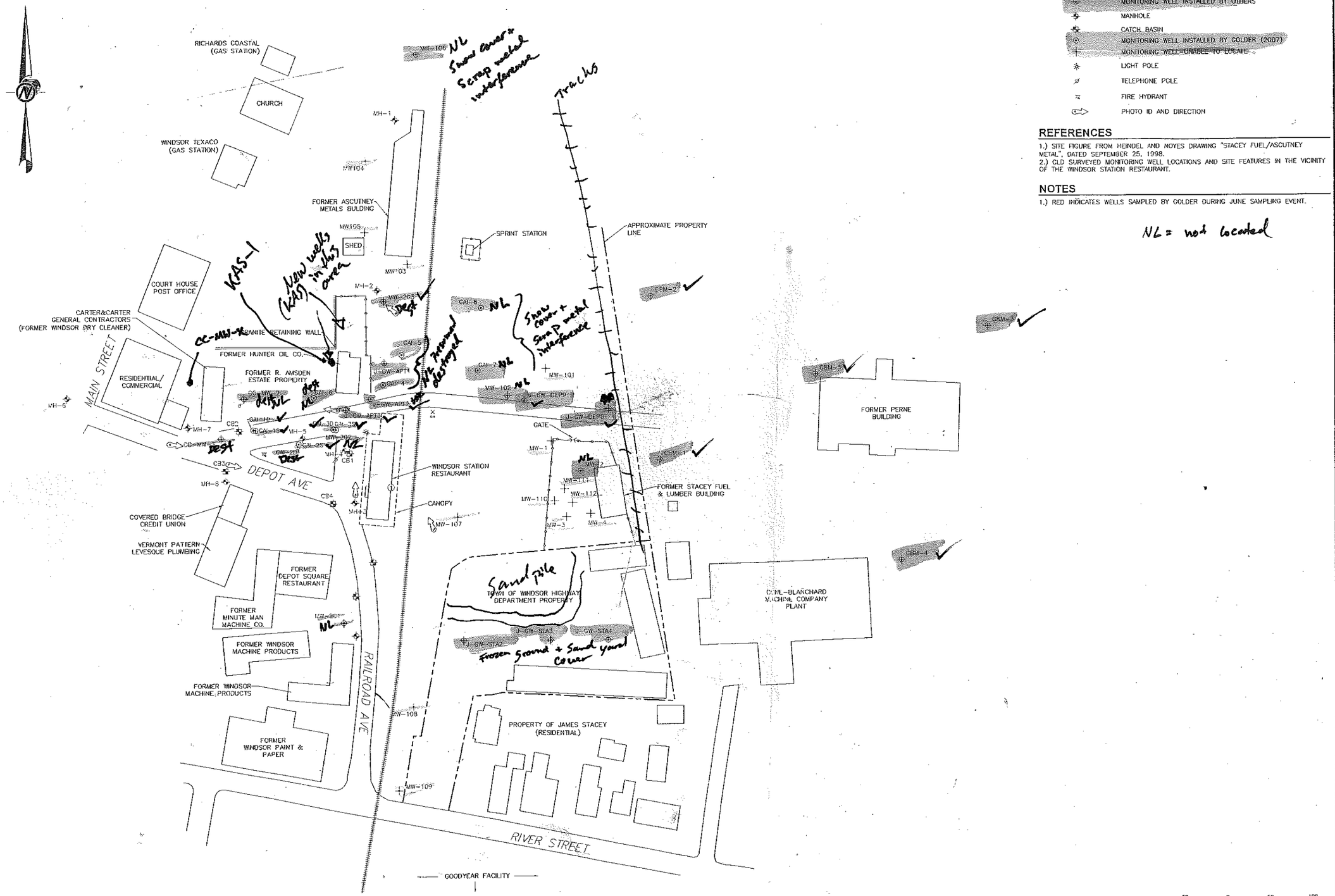
GA1-3D began to recharge over
initial GW level - needs re-development

* Collected duplicate @ GA1-3D
once stabilized

Set up @ GA1-1D

19:00 done sampling
drop drum (1-55 gal drum) @ FD
+ Label

done back to office, demob
21:00 Done



LEGEND

- CHAIN-LINK FENCE
- EXISTING RAILROAD LINE
- MONITORING WELL INSTALLED BY OTHERS
- MANHOLE
- CATCH BASIN
- MONITORING WELL INSTALLED BY GOLDER (2007)
- MONITORING WELL UNABLE TO LOCATE
- LIGHT POLE
- TELEPHONE POLE
- FIRE HYDRANT
- PHOTO ID AND DIRECTION

REFERENCES

1.) SITE FIGURE FROM HEINDEL AND NOYES DRAWING "STACEY FUEL/ASCUTNEY METAL", DATED SEPTEMBER 25, 1998.
2.) CLD SURVEYED MONITORING WELL LOCATIONS AND SITE FEATURES IN THE VICINITY OF THE WINDSOR STATION RESTAURANT.

NOTES

1.) RED INDICATES WELLS SAMPLED BY GOLDER DURING JUNE SAMPLING EVENT.

NL = not located

Golder Associates
Manchester, New Hampshire

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW

PROJECT
CANADIAN-NATIONAL RAILROAD
PHASE II ASSESSMENT REPORT
WINDSOR, VERMONT
FENV 7060 28481

TITLE
SITE PLAN

PROJECT No.	063-6937	
FILE No.	0636937A003	
REV. 0	SCALE	AS SHOWN
DESIGN	JLF	10/16/07
CADD	MPB	10/16/07
CHECK	JLF	10/16/07
REVIEW	JSP	10/16/07

FIGURE 2

Monitoring Well ID	Present	Absent	Destroyed	Not Located	TOVs	DTP	DTW (feet)	DTB (feet)	Comments / Condition
CBM-4	✓	–	–	–	–	bottom	~~24.4~~ 23.2	~~34.5~~ 33.?	Could not remove lid
CBM-5	✓	–	–	–	–	–	26.1	34.52	cannot Screen Headspace
CBM-3	✓	–	–	–	0.0	–	26.7	34.2	Raised well
CBM-2	✓	–	–	–	–	–	26.8	30.2	Could not Screen TOV
CBM-1	✓	–	–	–	0.0	–	29.1	35.65	Raised well
J-GW-DEP 8	✓	–	–	–	0.0	–	25.5	29.4	1" well
J-GW-DEP 9	✓	–	–	–	0.8	–	25.5	28.6	Along Depot rd 1"
MW-203	✓	–	✓	–	–	–	~~5.45~~	–	Destroyed
J-GW-Apt 3	✓	–	–	–	0.0	–	8.45	15.62	along sidewalk
J-GW-Apt 2	✓	–	–	–	0.0	–	~~2.29~~	~~34.3~~	along sidewalk
Gai 3S	✓	–	–	–	–	–	7.25	14.7	Eastern Well
Gai 3D	✓	–	–	–	–	–	9.6	25.9	Western well
Gai-2S	✓	–	–	–	–	–	6.6	13.45	Broken Cover
~~Gai-2D~~ GAI-2D	✓	–	–	✓	–	–	–	–	DNE
Kas-1	✓	–	–	–	–	–	7.5	8.5	located NW of Corner of Paradise Sports Parkway
Gai-1D	✓	–	–	–	–	–	9.3	23.1	Bright orange Sediment
Gai-1S	✓	–	–	–	–	–	7.53	14.7	PVC Riser Below grade, Bright orange facility sediment
CC-MW-X	–	–	–	–	–	–	–	11.05	Dry well

Raised

Pinched pvc @ 0.5 feet, not Probed

2/1/2016

Material usage: Depth of tubing in well =

Approximately 8 ft of tubing above each well
8 x 14 = 112 ft

204.45

28.4	ft	CBM-4
30.3		CBM-5
30.45		CBM-3
28.5		CBM-2
32.3		CBM-1
27.45		J-GW-DEP 8
27.05		11 DEP 9
		~~MW-203~~
14		J-GW-Apt 2
10.7		11 Apt 3
17.75		GAI 3D
10.02		~~GAI-2S~~ GAI-2S
		~~GAI-2D~~ -1
~~26.28~~		KAS-1
16.2		GAI-1D
11.1		GAI-1S

Total Teflon tubing: 112 + 292.2 = 404.2 ft

Total feet of → 292.2 ft
Dedicated tubing in well =

Does not include 8' of tube above each well

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Windsor GWS
Project No.: 04-224488.00
Date: 2/1/15
Weather: 38°F overcast

Well ID: CMB-5
Sample ID: CMB-5
Sampler: JSK, ~~BC~~ ~~RC~~

Well Condition Observations	
Protective Casing:	metal
Lock:	Broken
Label:	under lid
Surface Seal:	NA
PVC Well Casing:	✓

Well Volume Calculations	
Well Diameter:	2"
Depth to Water:	26.1'
Total Depth:	34.53'
Volume Purged:	~4.25gal ~1.2gal

Pump Start:	10:25

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
10:32	26.1'	6.71	11.55	395	7.75	-240.3	2.1
10:37	26.21'	6.50	11.23	370	7.79	-225.6	2.0
10:42	26.20'	6.77	11.19	343	7.29	-236.9	4.6
10:47	26.16'	7.00	11.14	334	6.85	-246.4	5.1
10:52	26.14'	7.24	11.07	322	6.52	-253.8	4.2
10:57	26.15'	7.45	10.95	317	6.37	-259.4	3.4
11:02	26.16'	7.50	10.72	317	6.30	-254.1	2.1
11:02	26.15'	7.70	10.87	315	6.00	-261.9	2.4
11:12	26.15'	7.69	10.87	314	6.10	-262.2	1.0
11:17	26.16'	7.72	10.80	314	6.12	-264.6	1.1
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Geotech I-Probe #3687
pH/S.C./Dissolved Oxygen/ORP:	YSI 05E2243 4D
Turbidity:	HACH Turbidimeter 2100P
Pump:	Spectra field 300 Model 77200-52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3x VOA	HCl	VOC 8260

Sample Time:	11:20

Comments: Clear purgewater, no odors, no sheen.

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site:	Windsor Depot St	**Well ID:**	CBM-4
Project No.:	04-224488.00	**Sample ID:**	CBM-4
Date:	2/1/2016	**Sampler:**	Bradley C.
Weather:	50°F Cloudy/windy		

Well Condition Observations	
Protective Casing:	4" Raised, 2" well
Lock:	Broken
Label:	CBM-4, on Cap
Surface Seal:	Cap
PVC Well Casing:	2"

Well Volume Calculations	
Well Diameter:	2"
Depth to Water:	23.2
Total Depth:	33.7
Volume Purged:	~~1.266~~ 1.25G

Pump Start:	11:11

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
11:11	23.2	4.96	11.9	569	7.12	188.8	7.91
11:16	23.2	4.64	10.89	555	6.74	171.8	4.77
11:21	23.1	5.06	10.63	543	6.53	103.2	2.45
11:26	23.0	5.0	10.51	534	6.34	101.2	2.14
11:31	23.1	5.04	10.47	533	6.22	94.3	2.08
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment		
Water Level Meter:	Heron Dipper T	
pH/S.C./Dissolved Oxygen/ORP:	GeoTech YSI	556 MPS
Turbidity:	Hach 2100P Turbidometer	
Pump:	Spectra Field Pro	77200-52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3X VOA	HCl	VOC 8260

Sample Time:	11:43

Comments: [redacted] clear purge, no sheen/odors

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site:	Windsor GWS	**Well ID:**	CMB-3
Project No.:	04-224488.00	**Sample ID:**	CMB-3
Date:	2/1/16	**Sampler:**	JSK
Weather:	33°F, overcast		

Well Condition Observations	
Protective Casing:	Metal
Lock:	Broken
Label:	CMB-3
Surface Seal:	NA
PVC Well Casing:	✓

Well Volume Calculations	
Well Diameter:	2
Depth to Water:	28.51
Total Depth:	34.2
Volume Purged:	~1.5gal

Pump Start:	11:52

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
11:57	28.50	7.47	9.94	572	6.54	-762.3	39.4
12:02	28.50	7.63	9.78	573	5.45	-266.8	27.8
12:07	28.46	7.64	9.76	571	4.55	-272.4	18.1
12:12	28.48	7.54	9.81	570	4.38	-272.9	14.8
12:17	28.45	7.51	9.90	568	4.26	-273.0	11.4
12:22	28.46	7.48	9.94	569	4.29	-274.8	9.6
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Geotech 1-probe #3689
pH/S.C./Dissolved Oxygen/ORP:	YSI 05B72343 AD
Turbidity:	HACH Turbidimeter 2100P
Pump:	Spectra Field pro Model # 7200.52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3x VOA	HCl	VOC 8260

Sample Time:	12:25

Comments: Clear purge, no odors, no sheen

Turbidity not stable, however, below 10 NTU @ sample time.

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Windsor VT, Depot St
Project No.: 04-224488
Date:
Weather: Cloudy, 45°F

Well ID: CBM-2
Sample ID: CBM-2
Sampler: Brad C.

Well Condition Observations	
Protective Casing:	4" Raised Steel, 2" PVC
Lock:	Broken
Label:	CBM-2, on cap
Surface Seal:	PVC
PVC Well Casing:	2"

Well Volume Calculations	
Well Diameter:	2"
Depth to Water:	21.5
Total Depth:	30.2
Volume Purged:	1.25G

Pump Start: 12:25

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
12:30	[redacted]	6.7	11.3	1232	6.62	98.9	106
1235	27.5	6.6	11.03	1235	6.24	89.6	69.0
12:40	27.4	6.65	11.04	1239	6.28	87.9	65.1
12:45	27.4	6.61	10.97	1253	5.90	87.0	38.9
12:50	27.45	6.59	11.1	1262	5.73	87.4	27.2
12:55	27.5	6.54	10.88	1281	5.75	87.5	27.1
13:00	27.45	6.49	10.85	1287	5.55	88.4	26.0
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Heron Dipper-T
pH/S.C./Dissolved Oxygen/ORP:	Geotech YSI 556 MPS
Turbidity:	Hach 2100P Turbidimeter
Pump:	Spectra field-pro # 77200-52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3x VOA	HCl	VOC 8260

Sample Time: 13:05

Comments: ~~Turbidity~~ ~~Turbidity~~ Turbidity was initially high, BOE Disturbed while setting Iprobe

~~Water Sample~~

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Windsor GWS
Project No.: 09-224488.00
Date: 2/1/16
Weather: Partly Sunny, 45°F

Well ID: CMB-1
Sample ID: CMB-1
Sampler: JSH

Well Condition Observations	
Protective Casing:	metal
Lock:	Broken
Label:	water cap
Surface Seal:	NA
PVC Well Casing:	✓

Well Volume Calculations	
Well Diameter:	2"
Depth to Water:	29.1'
Total Depth:	35.65'
Volume Purged:	~1.25 gal

Pump Start:	12:55

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
13:00	29.0'	7.59	11.18	1611	7.34	-252.5	6.8
13:05	29.14'	7.50	11.15	1626	7.21	-252.5	3.8
13:10	29.08'	7.46	11.12	1629	7.00	-252.2	3.4
13:15	29.09'	7.47	11.14	1634	7.01	-251.4	3.8
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Geotech 1-probe # 3689
pH/S.C./Dissolved Oxygen/ORP:	YSI 05E2343 AD
Turbidity:	HACH Turbidimeter 2100P
Pump:	Spectra field pro model # 7700.52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3x VOA	HCl	VOC 8260

Sample Time:	13:20

Comments: Clear purge, no odors, no sheen

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Windsor, VT Depot St
Project No.: 04-224488
Date: 2/1/2016
Weather: Cloudy, Windy 50°F

Well ID: ~~J-GW-DEP 8~~
Sample ID: J-GW-DEP8
Sampler: Brad C.

Well Condition Observations	
Protective Casing:	Steel, in-road
Lock:	N
Label:	On PVC Cap
Surface Seal:	Well Cap
PVC Well Casing:	1"

Well Volume Calculations	
Well Diameter:	1"
Depth to Water:	~~25~~ 25.5
Total Depth:	29.4
Volume Purged:	1.25 G

Pump Start:	~~13:30~~ 13:35

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
13:40	25.5	6.42	11.24	1017	52.2	113.8	17.2
13:45	25.5	6.44	11.22	1026	5.27	93.4	7.82
13:50	25.9	6.45	11.07	1075	5.25	81.8	3.39
13:55	25.45	6.41	11.05	1076	5.64	76.9	2.23
1400	25.45	6.36	10.97	1074	5.54	74.5	8.1
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Heron Dipper-T
pH/S.C./Dissolved Oxygen/ORP:	Geotech YSI 556 MPS
Turbidity:	Hach 2100P Turbidometer
Pump:	Spectra field-Pro #77200-52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3X VOA	HCl	VOC 8260

Sample Time:	14:05

Comments: Unable to stabilize turbidity, however, below 10 NTU @ Sample time

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Windsor GWS
Project No.: 04-224488.00
Date: 2/1/16
Weather: partly sunny, 48°F

Well ID: S-GW-DEP9
Sample ID: S-GW-DEP9
Sampler: JSK

Well Condition Observations	
Protective Casing:	metal
Lock:	NA
Label:	tag in well
Surface Seal:	no rubber gasket
PVC Well Casing:	✓

Well Volume Calculations	
Well Diameter:	1"
Depth to Water:	26.0
Total Depth:	28.5
Volume Purged:	≈ 1.2 gal

Pump Start:	13:40

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
13:45	26.0'	7.63	11.2	935	7.17	-261.4	57.4
13:50	26.0'	7.67	10.90	924	6.73	-260.5	35.0
13:55	26.0'	7.67	10.73	953	6.34	-258.7	22.8
14:00	26.0'	7.74	10.74	975	6.09	-250.2	7.1
14:05	26.0'	7.75	10.71	1002	6.00	-250.8	4.1
14:10	26.0'	7.82	10.66	1029	5.98	-252.0	2.7
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Geotech 1-probe # 36897
pH/S.C./Dissolved Oxygen/ORP:	YSI 05E23143 A.D.
Turbidity:	HACH Turbidimeter 2100P
Pump:	Spectra Field pro model #77202-52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3x VOA	HCl	VOC 8260

Sample Time:	14:12

Comments: Initial silty purge then clear no odors no sheen
Unable to stabilize turbidity, however, below 10 NTU @ Sample time

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site:	Windsor GWS	**Well ID:**	S-GW-APT2
Project No.:	04-224488.00	**Sample ID:**	S-GW-APT2
Date:	2/1/16	**Sampler:**	JSK
Weather:	partly Sunny, 48°F		

Well Condition Observations	
Protective Casing:	metal
Lock:	NA
Label:	Not present
Surface Seal:	yes
PVC Well Casing:	yes, pinched @ 6"

Well Volume Calculations	
Well Diameter:	1"
Depth to Water:	~13' est*
Total Depth:	~15' est*
Volume Purged:	~2.0

Pump Start:	14:40

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
14:45	NA	8.08	11.4	1457	3.88	-281.8	19.2
14:50	NA	8.19	11.48	1457	2.39	-295.1	79.6
14:55	NA	8.39	11.58	1458	1.25	-332.6	28.5
15:00	NA	8.37	11.66	1458	0.39	-323.0	17.7
15:05	NA	8.43	11.68	1456	0.62	-337.4	7.6
15:10	NA	8.44	11.67	1455	0.94	-331.0	3.9
15:15	NA	8.51	11.40	1455	0.50	-345.5	0.9
15:20	NA	8.47	11.49	1452	0.34	-328.8	0.5
15:25	NA	8.46	11.44	1452	0.39	-350.7	0.9
15:30	NA	8.48	11.38	1452	0.39	-343.9	0.8
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Geotech 1-probe #3689
pH/S.C./Dissolved Oxygen/ORP:	YSI 05E2343AD
Turbidity:	HACH Turbidimeter Z1007
Pump:	Spectra field pro model # 77200.52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3x VOA	HCl	VOC 8260

Sample Time:	15:35

Comments: * well casing pinched @ ~6". Cannot advance 1-probe, used historic well construction data to set tubing.

Purgewater generally clear, with small black particulates

ORP still exhibited some levels outside stabilization parameters (last 3 sample readings) @ sample event

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Depot St, Windsor VT
Project No.: 04-224488.00
Date: 2/1/2016
Weather: Cloudy, Windy 45°F

Well ID: J-GW-Apt 3
Sample ID: J-GW-APT 3
Sampler: Brad C

Well Condition Observations	
Protective Casing:	in-road Steel
Lock:	N
Label:	On well cap
Surface Seal:	Observation well cap
PVC Well Casing:	1"

Well Volume Calculations	
Well Diameter:	1"
Depth to Water:	8.45
Total Depth:	15.62
Volume Purged:	2.5 G

Pump Start: 14:45

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	
14:50	8.45	6.75	11.25	2124	6.63	83.0	9.44	
14:55	9.5	6.85	11.39	2078	6.17	45.5	27.7	
15.00	9.65	6.87	11.30	2049	6.85	37.6	41.1	
15.05	9.4	6.85	11.28	1998	3.52	33.7	26.5	
15:10	9.4	6.82	11.3	1975	3.45	32.2	~400	
1515	9.3	6.85	11.15	1960	4.01	31.2	~700	-lifted tubing ~1 foot
15:20	9.3	6.85	10.98	1953	3.81	30.5	744	
1525	9.3	6.84	10.92	1945	3.45	29.3	763	
1530	9.3	6.86	10.9	1917	3.25	27.7	454	
1535	9.3	6.85	10.91	1912	3.20	27.2	367	
1540	9.3	6.85	10.88	1905	3.41	27.0	301	
15:45	9.3	6.85	10.81	1901	3.24	26.8	321	
1550	9.3	6.86	10.58	1890	3.11	25.9	123	could not Stabilize Turbidity
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%	

Sampling/Purging Equipment	
Water Level Meter:	Heron Dipper T
pH/S.C./Dissolved Oxygen/ORP:	Geotech YSI 556 Mps
Turbidity:	Hach 2100P Turbidimeter
Pump:	Spectra field-pro #77200-52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3X VOA	HCl	VOC8260

Sample Time: 15:55

Comments: Turbidity not stabilized. Iprobe, new line disturbed BOE at 15:10

15.62
- 8.45
7.17/2 = ~~3.585~~ ~3.6 + 8.45 = 12.05

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site:	Windsor GWS	**Well ID:**	GA1-25
Project No.:	04-224488.00	**Sample ID:**	GA1-25
Date:	2/1/16	**Sampler:**	JSK
Weather:	partly Sunny, 45°F		

Well Condition Observations	
Protective Casing:	metal
Lock:	NA
Label:	wrong label on cap based on site plan*
Surface Seal:	yes
PVC Well Casing:	✓

Well Volume Calculations	
Well Diameter:	2
Depth to Water:	~~8.05~~ 8.05
Total Depth:	14.3
Volume Purged:	~1.5 gal

Pump Start:	15:45

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
15:50	8.08	8.25	11.11	1781	2.75	-319.7	13.7
15:55	~~8.32~~ 8.09	8.32	11.11	1792	0.86	-307.3	1.3
16:00	8.25	8.33	11.09	1792	0.78	-310.4	9.4
16:05	8.30	8.34	11.10	1792	0.70	-323.4	12.0
16:10	8.31	8.35	11.13	1796	0.60	-323.8	8.84
16:15	8.32	8.37	11.11	1787	0.59	-331.8	6.08
16:20	8.32	8.40	11.13	1783	0.52	-329.6	5.04
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Geotech I-probe #3689
pH/S.C./Dissolved Oxygen/ORP:	YSI 05E2343AB
Turbidity:	HACH turbidimeter 2100P
Pump:	Spectra field Pro model #7Z200-52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3x VOA	HCl	VOC 8260

Sample Time:	16:25

Comments: Clear purge, no odors, no sheen

Unable to stabilize turbidity. However, Samples below 10 NTU At Sample time

TOVs: 0.0

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site:	Windsor, VT. Depot St	**Well ID:**	GAI-2S
Project No.:	04-224488.00	**Sample ID:**	GAI-2S
Date:	2/1/2016	**Sampler:**	Brad C.
Weather:	Cloudy, Windy 40°F		

Well Condition Observations	
Protective Casing:	Steel, in-ground
Lock:	N
Label:	N
Surface Seal:	Broken
PVC Well Casing:	2" Yes

Well Volume Calculations	
Well Diameter:	2"
Depth to Water:	6.6
Total Depth:	13.45
Volume Purged:	2.0

Pump Start:	16:25

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
16:30	6.6	6.63	9.97	1219	.70	90.3	5.00
16:35	6.6	6.85	9.99	1220	.56	56.3	6.12
16:40	6.45	6.91	9.85	1221	.67	40.7	4.9
16:45	6.4	6.92	9.79	1221	.53	31.3	3.38
16:50	6.4	6.92	9.75	1221	.66	24.8	3.95
16:55	6.4	6.93	9.70	1222	.93	22.7	5.24
17:00	6.4	6.93	9.33	1233	1.18	17.9	3.66
17:05	6.4	6.92	9.09	1232	1.58	10.6	5.15
17:10	6.35	6.92	9.05	1235	1.76	10.8	4.20
17:15	6.35	6.93	9.06	1236	1.74	11.0	4.03
17:20	6.35	6.93	9.04	1236	1.83	10.7	4.14
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Heron Dipper T
pH/S.C./Dissolved Oxygen/ORP:	Geotech YSI 556MPS
Turbidity:	Hach 2100P Turbidimeter
Pump:	Spectra Field-Pro #77200-52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3X VOA	HCl	VOC 8260

Sample Time:	17:25

Comments: Clear purge, no odors, no sheen

6.6 13.45 / 6.6 / 2 + 6.6 = 10.025

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site:	Windsor GWS	**Well ID:**	GA1-3D
Project No.:	04-224488.00	**Sample ID:**	GA1 3D
Date:	2/11/16	**Sampler:**	
Weather:	overcast 41 °F		JSK

Well Condition Observations	
Protective Casing:	metal
Lock:	NA
Label:	none
Surface Seal:	YES
PVC Well Casing:	yes

Well Volume Calculations	
Well Diameter:	2"
Depth to Water:	11.01
Total Depth:	25.9
Volume Purged:	~25

Pump Start:	16:30

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (ug/l)	ORP (mv)	TURBIDITY (NTU)
16:35	11.09	8.33	12.04	1343	3.52	-255.7	46
16:40	11.12	8.38	11.99	1341	3.41	-256.5	39.5
16:45	11.20	8.44	11.93	1339	3.18	-258.6	26.7
16:50	11.03	8.5	11.65	1342	3.05	-266	3.6
16:55	11.02	8.56	11.55	1338	2.63	-265.4	34.7
17:00	10.90	8.60	11.57	1344	2.37	-268.1	25.5
17:05	10.82	8.63	11.44	1347	1.92	-291.3	25.2
17:10	10.69	8.59	11.36	1347	1.68	-291.0	26.1
17:15	10.69	8.59	11.3	1352	1.32	-265.6	27.4
17:20	10.7	8.7	11.33	1357	1.22	-277.2	23.1
17:25	10.7	8.71	11.27	1356	1.12	-285.5	22.7
17:30	10.7	8.73	11.20	1359	1.03	-295.3	23.1
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Geotech 1-probe #3689
pH/S.C./Dissolved Oxygen/ORP:	YSI 05E2343AB
Turbidity:	HACH turbidimeter 21007
Pump:	Spectra field pro model # 77200-52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3# VOA	HCl	VOC 8260

Sample Time:	17:35

Comments: Clear purge, no odors, no sheen

TOVS: 0.0 0.1

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Depot St. Windsor VT
Project No.: 04-224488.00
Date: 2/1/2016
Weather:

Well ID: GAI 1D
Sample ID: GAI 1D
Sampler: Jason SK

Well Condition Observations	
Protective Casing:	metal
Lock:	none
Label:	none
Surface Seal:	yes
PVC Well Casing:	✓

Well Volume Calculations	
Well Diameter:	2"
Depth to Water:	12.38'
Total Depth:	23.1'
Volume Purged:	2 Gal

Pump Start: 17:55

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
18:00	12.40	8.86	11.25	941	7.05	-233.8	27.7
18:05	12.71	8.84	11.31	932	6.82	-237.9	24.9
18:10	12.84	8.87	11.24	939	6.65	-238.6	21.6
18:15	12.92	8.87	11.18	940	6.54	-238.0	19.5
18:20	13.10	8.86	11.27	938	6.42	-240.6	14.6
18:25	13.23	8.86	11.25	938	6.26	-240.9	4.2
18:30	13.46	8.85	11.34	938	5.99	-241.3	2.4
18:35	13.51	8.81	11:40	940	5.91	-246.0	2.0
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Geotech I-Probe # 3689
pH/S.C./Dissolved Oxygen/ORP:	YSI ODE 2343 AD
Turbidity:	HACH Turbidimeter 2100P
Pump:	Spectra field Pro Model #77200.52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3x VOA	HCl	VOC 8260

Sample Time: 18:37

Comments: Turbidity not stable, but below 10 NTU

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Depot St., Windsor, VT
Project No.: 04-22448.00
Date: 2/1/2016
Weather: Cloudy, 45°F

Well ID: GAI-1S
Sample ID: GAI-1S
Sampler: Bradley C

Well Condition Observations	
Protective Casing:	2" PVC, Steel Rd Cap
Lock:	N
Label:	N
Surface Seal:	Y
PVC Well Casing:	2", yes

Well Volume Calculations	
Well Diameter:	2"
Depth to Water:	7.53
Total Depth:	14.7
Volume Purged:	2 Gal

Pump Start: 17:50

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
18:00	~7.5	7.2	10.36	1410	1.29	18.9	22.9
18:05	~7.5	7:17	10.2	1412	1.15	7.6	14.8
18:10	~7.5	7.16	10.09	1411	1.06	-3.0	11
18:15	~7.5	7.15	10.04	1411	1.04	-6.2	91.9
18:20	~7.5	7.14	9.75	1412	1.02	-8.6	59.5
18:25	~7.5	7.14	9.58	1407	1.01	-11.5	42.1
1830	~7.5	7.14	9.65	1402	1.2	-10.7	22.7
18:35	~7.5	7.15	10.01	1389	1.62	+5.2	19.1
18:40	~7.5	7.16	10.24	1381	1.79	3.1	12.9
1845	~7.5	7.17	10.29	1376	1.83	6.4	10.4
1850	~7.5	7.18	10.2	1373	1.90	6.6.	10.1
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

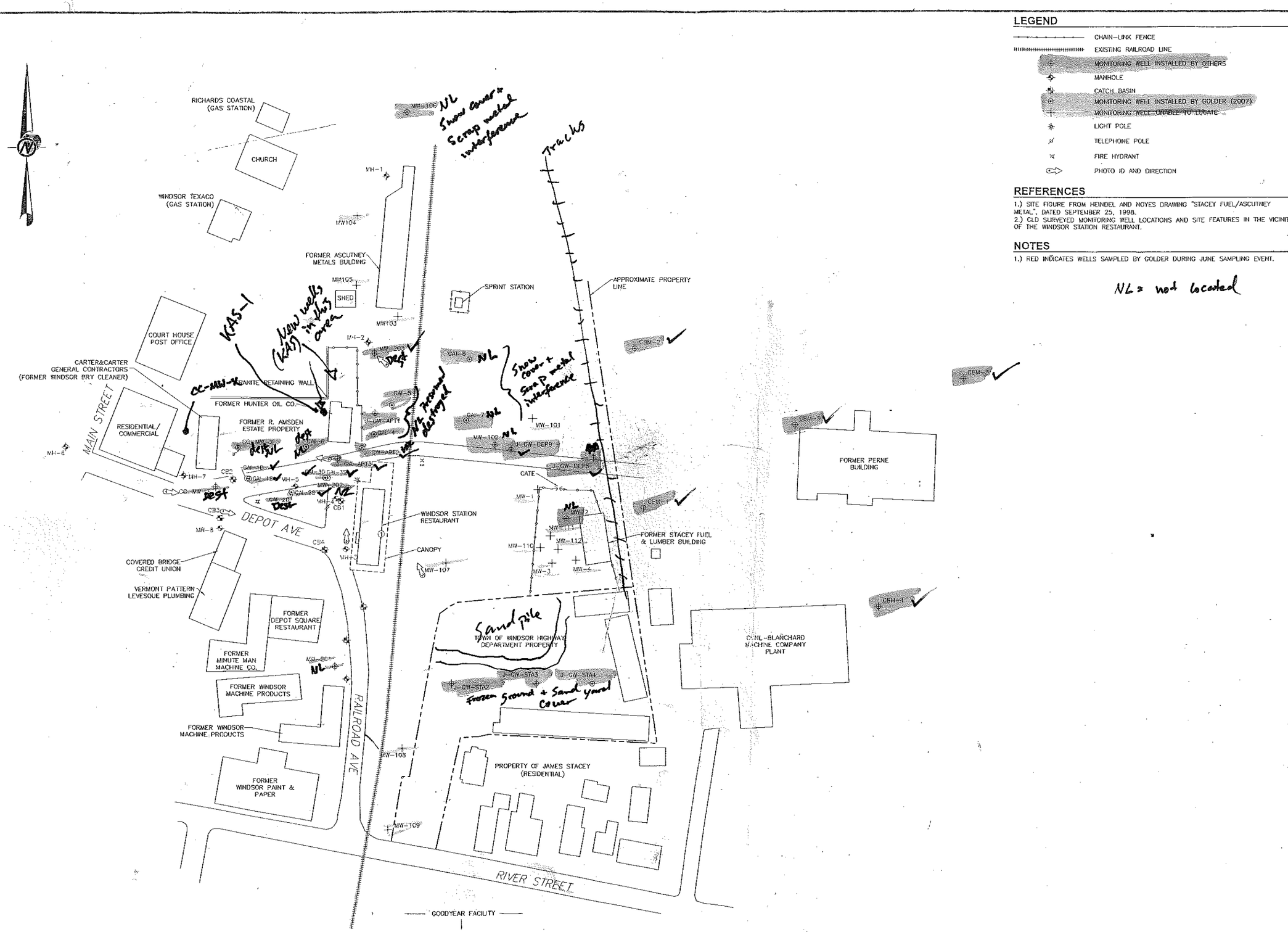
Sampling/Purging Equipment	
Water Level Meter:	Heron Dipper T
pH/S.C./Dissolved Oxygen/ORP:	Geotech YSI 556 MPS
Turbidity:	Hach 2100P Turbidometer
Pump:	Spectra field-pro #7200-52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3X VOA	HCl	VOC 8260

Sample Time: 18:55

Comments: PVC Riser below grade. Turbidity disturbed at 18:15 and stabilized at 18:40 for sampling.
TOV's detected at 5.9 in headspace and 0.1 in purge water

TOV
5.9 - headspace
0.1 - purge water



LEGEND

- CHAIN-LINK FENCE
- EXISTING RAILROAD LINE
- MONITORING WELL INSTALLED BY OTHERS
- MANHOLE
- CATCH BASIN
- MONITORING WELL INSTALLED BY GOLDER (2007)
- MONITORING WELL UNABLE TO LOCATE
- LIGHT POLE
- TELEPHONE POLE
- FIRE HYDRANT
- PHOTO ID AND DIRECTION

REFERENCES

1.) SITE FIGURE FROM HEINDEL AND NOYES DRAWING "STACEY FUEL/ASCUTNEY METAL", DATED SEPTEMBER 25, 1998.
2.) CLD SURVEYED MONITORING WELL LOCATIONS AND SITE FEATURES IN THE VICINITY OF THE WINDSOR STATION RESTAURANT.

NOTES

1.) RED INDICATES WELLS SAMPLED BY GOLDER DURING JUNE SAMPLING EVENT.

NL = not located

Golder Associates
Manchester, New Hampshire

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW

PROJECT
CANADIAN NATIONAL RAILROAD
PHASE II ASSESSMENT REPORT
WINDSOR, VERMONT
FENV 7060 28481

TITLE
SITE PLAN

PROJECT No.		063-6937
FILE No.		0636937A003
REV. 0	SCALE	AS SHOWN
DESIGN	JLF	10/16/07
CADD	MPB	10/16/07
CHECK	JLF	10/16/07
REVIEW	JSP	10/16/07

FIGURE 2

Location Depot St Windsor Date 2/1/2016

Project / Client VT DEC 04-224488.00

Mobilize 8:00 AM, leave 9:00 AM

on site 10:00 AM

CBM-4- 26" Teflon poly, 6" flexi

CBM-2- 3.4 ÷ 2 = 1.7 + 26.8 = 28.5

J-GW-DEP 8 — 29.4 - 25.5 = 3.9 ÷ 2 = 1.95

= 27.45

Iprobe that was used by Brad was worn and most Depth readings were time-consuming to read

TOV Detected in Well GAT-1S

TOV 5.9 in Head space

0.1 in purge-water.

Stopped for food in Windsor. 7:15pm

left 55 Gal drum ½ full at Windsor Fire Dept Hazardous Waste 7:45pm. labeled

Return to Shop 8:45pm, leave Shop 9:15 PM

Location Date

Project / Client

Iprobe feet #s were worn off and illegible in many cases.

JSK Calibrated YSI x2 at 10:05 am in the field

☆ See low-flow field worksheets for readings

Materials used:

- ~8 feet outside of Well X 14 wells
- ~8" flexitube per well X 14 wells
- 292.2 ft Tubing total in all wells calculations (See depth Sheet in field notes, PDF)
- P-Pumps X2
- Iprobe X2
- field supplies
- Turbidometer X2
- YSI x2
- 1 55 Gal Drum

BJC

Location Depot St Windsor VT Date 2/3/2016

Project / Client Vermont DEC 04-22445.00

Groundwater Sampling #2

~~Travel~~ Mob 10:00AM, leave Shop 11:00AM
on-site 12:00pm

Calibrate YSI @ ORP - 215
Conductivity - 1614
DO Mg/L = 10.02
DO % - 102.4
PH - 10.00 & 7.00

RE Sample Wells
CMB-3
J-GW-DEP-8
J-GW-APT3
GAI 3S

GAI-3S filled with water, not viable sample

~~Calculations~~

Off-Site 7:15
Stopped at fire department. Transferred fluid to Barrel left at f. Dept 2/1/16 8:45pm
Return to Shop
Depart 9:15 pm

Rain Stopped at 5:00pm

GAI 2S, The well with a broken cover. IS completely inundated with water. no water was seen entering pit

Location _____ Date _____

Project / Client _____

Materials:
P-Pumps x2
Ipope x 1
Turbidometer x 1
YSI x 1
109 ft 1/4" Teflon poly Tube
2 ft flexitube

BJC

Calibrated ORP @ 215
conduct ~~1287~~ Calibrated @ 1614
culibrate DO mg/L @ 10.02
DO % @ 102.4

Calculations:

CMB-3- 28.51
34.2 - 5.69 = h_c hang @ 31.35

$h_c/2 = 2.84$

J-GW-DEP-8

25.5
29.4 > - 3.9 = h_c $h_c/2 = 1.95$ hang @ 27.45

J-GW-APT3

8.45
15.62 > 7.17 = h_c $h_c/2 = 3.585$

12.03 hang @

GAI-3S

8.05
14.3) 6.25 = h_c $h_c/2 = 3.125$

16.03 + 8x4 =

11.175 hang

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Depot St, Windsor, VT
Project No.: 04-224488.00
Date: 2/3
Weather: Rainy 40°F

Well ID: CBM-3
Sample ID: CBM-3
Sampler: Brad C BJC

Well Condition Observations	
Protective Casing:	Metal
Lock:	Broken
Label:	CMB-3
Surface Seal:	NA
PVC Well Casing:	✓

Well Volume Calculations	
Well Diameter:	2"
Depth to Water:	28.451
Total Depth:	34.2
Volume Purged:	3.0 Gallons

Pump Start: 12:45

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
13:00		5.95	7.82	499	4.92	-203.7	3.2
13:05		6.49	7.31	498	4.72	-206.5	3.7
13:10		6.98	7.43	495	4.57	-214.3	1.57
13:15		7.03	7.44	497	4.57	-230.1	1.63
13:20		7.06	7.40	496	4.59	-234.2	1.57
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	GEOTECH IProbe #3689
pH/S.C./Dissolved Oxygen/ORP:	YSI 05 2343 AD
Turbidity:	Hach Turbidimeter 2100P
Pump:	Spectra field pro Model # 77200-52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3x VOC	HCl	VOC 8260

Sample Time: 13:25

Comments: let purge for 15 min before testing field parameters. Clear purge, no odors/sheen

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Depot St, Windsor, VT
Project No.: 04-22448.00
Date: 2/3/2016
Weather: Rainy 45°F

Well ID: J-GW-DEP8
Sample ID: J-GW-DEP8
Sampler: Brad C

Well Condition Observations	
Protective Casing:	Steel, in Road
Lock:	N
Label:	on PVC Cap
Surface Seal:	Well Cap
PVC Well Casing:	1"

Well Volume Calculations	
Well Diameter:	1"
Depth to Water:	25.5
Total Depth:	29.4
Volume Purged:	4 Gallons

Pump Start: 12:50

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (ug/l)	ORP (mv)	TURBIDITY (NTU)
13:40	25.55	7.04	8.26	937	8.85	-245.6	1.29
13:45		7.51	8.19	952	6.97	-251.3	3.5
13:50		7.76	8.28	959	6.33	-250.6	
13:55	25.54	7.86	8.40	965	6.15	-250.1	1.08
14:00		7.89	8.46	967	6.05	-248.5	1.12
14:05		7.90	8.70	966	5.98	-247.7	.90
14:10	25.5	7.95	8.60	968	5.95	-246.5	1.07
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Geotech Iprobe #3659
pH/S.C./Dissolved Oxygen/ORP:	Geotech YSI 556MPS
Turbidity:	Hach 2100P Turbidometer
Pump:	Spectra Field Pro# 77200-52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3X VOA	HCl	VOC 8260

Sample Time: 14:15

Comments: No odors / Sheen, Clear purge

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Depot St, Windsor VT
Project No.: 04-224488.00
Date: 2/3/2016
Weather: Rainy, 45°

Well ID: J-GW-APT 3
Sample ID: J-GW-APT#3
Sampler: Brad C

Well Condition Observations	
Protective Casing:	In-Road Steel
Lock:	N
Label:	on well cap
Surface Seal:	Observation Well Cap
PVC Well Casing:	1"

Well Volume Calculations	
Well Diameter:	1"
Depth to Water:	8.45
Total Depth:	15.62
Volume Purged:	~7 Gal

Pump Start: 1500

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
1600		8.35	9.03	1701	4.80	-269.7	>1000
1605		8.35	8.78	1693	3.63	-257	>1000
1610		8.42	8.51	1687	3.59	-262.3	>1000
16:15		8.34	8.75	1662	3.20	-266.0	>1000
16:20		8.30	8.83	1640	2.95	-268.0	>1000
16:25		8.57	7.82	1641	2.71	-274.0	
1630		8.62	7.65	1635	2.79	-274.3	428
1635		8.63	6.87	1672	3.29	-241.2	
1640		8.63	7.14	1698	4.74	-239.2	697
16:45		8.60	7.25	1692	4.86	-258.5	590
16:50		8.55	7.25	1657	3.74	-266.1	800
16:55		8.55	7.41	1662	3.03	-114.1	996
17:00		8.57	7.08	1668	2.97	-267.8	212
1705							
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Geotech Forbex # 3689
pH/S.C./Dissolved Oxygen/ORP:	Geotech YSI 556MPS
Turbidity:	HACH Turbidimeter 2100P
Pump:	Spectra Field Pro # 77200-52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3X VOA	HCl	VOC8260

Sample Time: 1800

Comments: Turbidity Spikes intermitantly, Sediment entering.
Did not measure Depth to Water out of concer
~~Stopped due to turbidity~~ disturbing Sediments

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Depot St, Windsor
Project No.: 04-224488.00
Date: 2/3/2016
Weather: Rainy, 45°F

Well ID: J-GW-APT 3
Sample ID: J-GW-APT 3
Sampler: Brad C

Well Condition Observations	
Protective Casing:	1h-road, Steel
Lock:	N
Label:	on Well cap
Surface Seal:	observation Well cap
PVC Well Casing:	1"

Well Volume Calculations	
Well Diameter:	1"
Depth to Water:	8.49
Total Depth:	~15.62
Volume Purged:	~7 Gal

Pump Start: 1500

TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (ug/l)	ORP (mv)	TURBIDITY (NTU)
17:05		8.6	[illegible]	1676	3.08	-265.0	569
17:10		8.41	9.05	1638	2.69	-266.4	>1000
17:15		8.37	9.47	1647	2.70	-264	>1000
17:20		8.39	9.37	1643	2.84	-264	>1000
17:25		8.41	8.79	1644	3.19	-265.3	354
17:30		8.51	7.01	1703	3.40	-263.9	396
17:35		8.48	~~7.46~~ 7.76	1667	3.0	-261.5	>1000
17:40		8.51	7.25	1683	3.79	-243.6	>1000
17:45		8.54	6.47	1693	4.75	-236.4	390
17:50		8.45	8.60	1611	4.13	-261.5	>1000
17:55		8.40	8.23	1657	3.27	-267.8	>1000
18:00		8.44	8.34	1630	2.77	-265.0	>1000
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Geotech Iprobe #3689
pH/S.C./Dissolved Oxygen/ORP:	Geotech YSI 556MPS
Turbidity:	HACH 2100P Turbidometer
Pump:	Spectra field Pro #77200-52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3x VOA	HCl	VOA 8260

Sample Time: 18:00

Comments: Did not monitor Depth to water in effort to not stir up sediment from well-screen.

Turbidity spikes intermitantly

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Depot St, Windsor
Project No.: 04-224488.00
Date: 2/3/2016
Weather: Rainy, 40°

Well ID: KAS-1
Sample ID: ~~KAS-1~~ KAS-1
Sampler: Brad C

Well Condition Observations	
Protective Casing:	Metal
Lock:	None
Label:	None
Surface Seal:	Metal cover, Concrete
PVC Well Casing:	Yes

Well Volume Calculations	
Well Diameter:	1"
Depth to Water:	4'
Total Depth:	8.5'
Volume Purged:	3G

Gauged 2/3/2016

Pump Start: 16:30

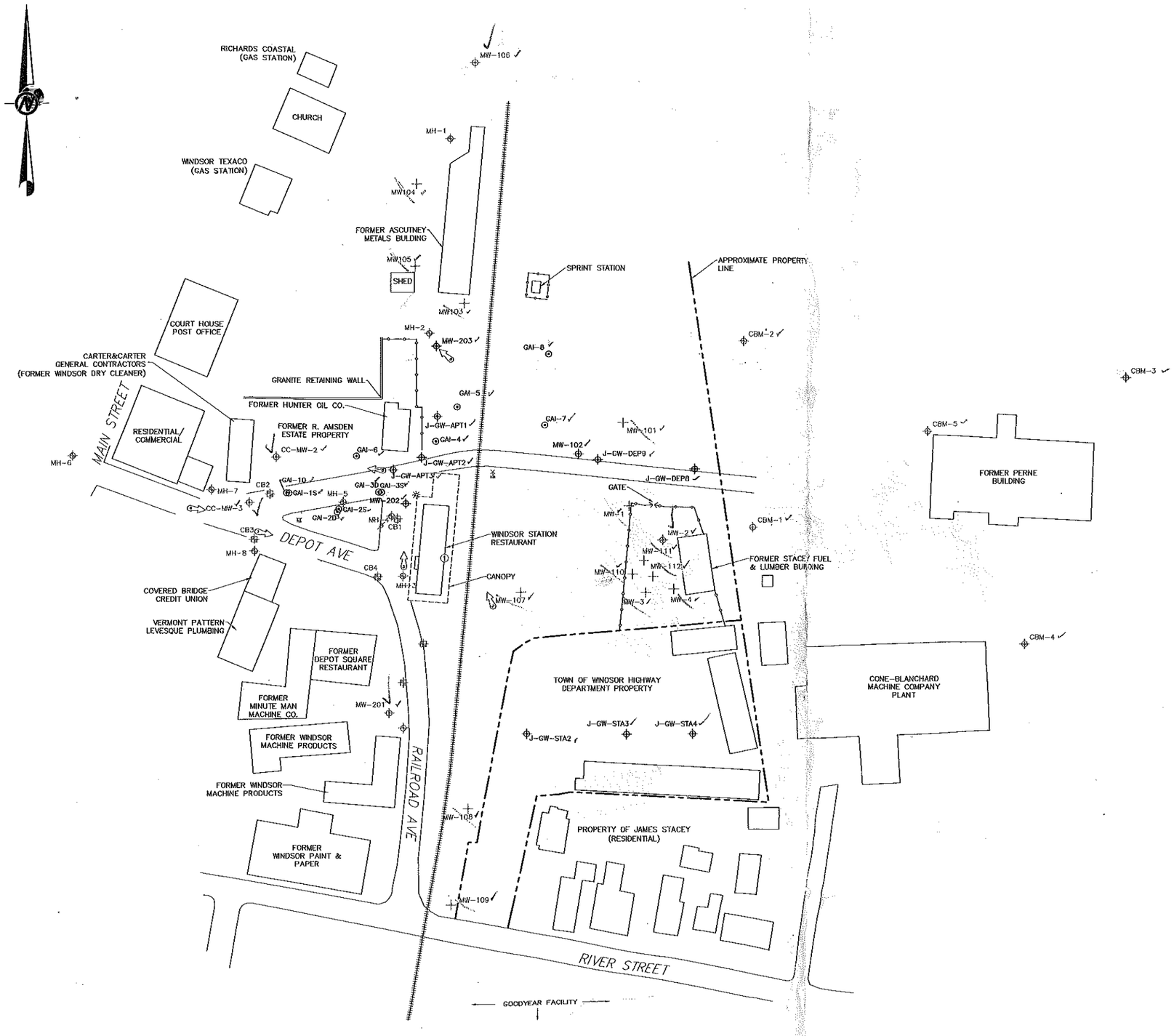
TIME	DEPTH TO WATER (feet)	pH (SU)	TEMP (C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)
18:22		7.18	3.85	404	11.03	-186.1	14
18:27		7.74	3.86	405	10.87	-191.5	4.3
18:32		7.93	3.85	404	10.43	-198.0	4.85
18:37		7.98	3.84	405	10.47	-200.1	3.32
18:42		8.00	3.83	405	10.34	-202.2	4.58
Stabilization Criteria	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10%	+/- 10 mv	10%

Sampling/Purging Equipment	
Water Level Meter:	Geotech Iprobe #3689
pH/S.C./Dissolved Oxygen/ORP:	YSI 05 2343 AD
Turbidity:	HACH Turbidometer 2100P
Pump:	Spectra Field Pro Model # 77200.52

Laboratory Analyses/Containers		
Container	Preservative	Analysis
3x VOA	HCl	VOC 8260

Sample Time: 18:47

Comments: Allowed to purge slowly for ~2 hrs prior to Monitoring field parameters ~~to~~ 2 gal



LEGEND

- CHAIN-LINK FENCE
- EXISTING RAILROAD LINE
- MONITORING WELL INSTALLED BY OTHERS
- MANHOLE
- CATCH BASIN
- MONITORING WELL INSTALLED BY GOLDER (2007)
- MONITORING WELL-UNABLE TO LOCATE
- LIGHT POLE
- TELEPHONE POLE
- FIRE HYDRANT
- PHOTO ID AND DIRECTION

REFERENCES

1.) SITE FIGURE FROM HEINDEL AND NOYES DRAWING "STACEY FUEL/ASCUTNEY METAL", DATED SEPTEMBER 25, 1998.
2.) CLD SURVEYED MONITORING WELL LOCATIONS AND SITE FEATURES IN THE VICINITY OF THE WINDSOR STATION RESTAURANT.

NOTES

1.) RED INDICATES WELLS SAMPLED BY GOLDER DURING JUNE SAMPLING EVENT.

Golder Associates
Manchester, New Hampshire

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW

PROJECT
CANADIAN NATIONAL RAILROAD
PHASE II ASSESSMENT REPORT
WINDSOR, VERMONT
FENV 7060 28481

TITLE
SITE PLAN

PROJECT No.		063-8937
FILE No.		0836937A003
REV. 0	SCALE	AS SHOWN
DESIGN	JLF	10/16/07
CADD	MPB	10/16/07
CHECK	JLF	10/16/07
REVIEW	JSP	10/16/07

FIGURE 2

Drawing file: 0836937A003.dwg Oct 16, 2007 - 4:33pm

APPENDIX B

eurofins | Spectrum Analytical

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Report Date:
16-Feb-16 15:16

Laboratory Report

Environmental Compliance Services
70 Landmark Hill
Brattleboro, VT 05301
Attn: Alicia Flammia

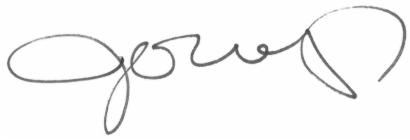
Project: Windsor GWS-Depot St-Windsor, VT
Project #: 04-224488.00

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC17886-01	CBM-5	Ground Water	01-Feb-16 11:20	04-Feb-16 15:33
SC17886-02	CBM-4	Ground Water	01-Feb-16 11:43	04-Feb-16 15:33
SC17886-03	CBM-2	Ground Water	01-Feb-16 13:05	04-Feb-16 15:33
SC17886-04	CBM-1	Ground Water	01-Feb-16 13:20	04-Feb-16 15:33
SC17886-05	J-GW-DEP9	Ground Water	01-Feb-16 14:12	04-Feb-16 15:33
SC17886-06	J-GW-APT2	Ground Water	01-Feb-16 15:35	04-Feb-16 15:33
SC17886-07	J-GW-APT3	Ground Water	01-Feb-16 15:55	04-Feb-16 15:33
SC17886-08	GAI-3S	Ground Water	01-Feb-16 16:25	04-Feb-16 15:33
SC17886-09	GAI-2S	Ground Water	01-Feb-16 17:25	04-Feb-16 15:33
SC17886-10	GAI-3D	Ground Water	01-Feb-16 17:35	04-Feb-16 15:33
SC17886-11	GAI-1D	Ground Water	01-Feb-16 18:37	04-Feb-16 15:33
SC17886-12	GAI-1S	Ground Water	01-Feb-16 18:55	04-Feb-16 15:33
SC17886-13	Trip Blank	Deionized Water	01-Feb-16 08:00	04-Feb-16 15:33
SC17886-14	Duplicate	Ground Water	01-Feb-16 00:00	04-Feb-16 15:33
SC17886-15	Equipment Blank	Deionized Water	01-Feb-16 08:05	04-Feb-16 15:33
SC17886-16	Trip Blank	Deionized Water	03-Feb-16 09:00	04-Feb-16 15:33
SC17886-17	CMB-3	Ground Water	03-Feb-16 13:25	04-Feb-16 15:33
SC17886-18	J-GW-DEP8	Ground Water	03-Feb-16 14:15	04-Feb-16 15:33
SC17886-20	KAS-1	Ground Water	03-Feb-16 18:47	04-Feb-16 15:33

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00098
USDA # S-51435

Authorized by:



June O'Connor
Laboratory Director

Eurofins Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 75 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

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Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

The samples were received 2.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260C

Calibration:

1601034

Analyte quantified by quadratic equation type calibration.

1,1,2-Trichlorotrifluoroethane (Freon 113)
1,2,4-Trichlorobenzene
Carbon tetrachloride
Naphthalene
trans-1,3-Dichloropropene
Trichlorofluoromethane (Freon 11)

This affected the following samples:

1602314-BLK1
1602314-BS1
1602314-BSD1
1602363-BLK1
1602363-BS1
1602363-BSD1
1602363-MS1
1602363-MSD1
CBM-1
CBM-2
CBM-4
CBM-5
Duplicate
Equipment Blank
GAI-1D
GAI-1S
GAI-2S
GAI-3D
GAI-3S
J-GW-APT2
J-GW-APT3
S600574-ICV1
S601007-CCV1
S601047-CCV1
Trip Blank

1602007

Analyte quantified by quadratic equation type calibration.

Naphthalene
sec-Butylbenzene

SW846 8260C

Calibration:

1602007

This affected the following samples:

1602364-BLK1
1602364-BS1
1602364-BSD1
CMB-3
J-GW-DEP8
KAS-1
S600831-ICV1
S601048-CCV1
Trip Blank

1602027

Analyte quantified by quadratic equation type calibration.

1,1,2-Trichlorotrifluoroethane (Freon 113)
1,1-Dichloropropene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trimethylbenzene
4-Chlorotoluene
4-Isopropyltoluene
Bromoform
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
Dichlorodifluoromethane (Freon12)
m,p-Xylene
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene
Trichlorofluoromethane (Freon 11)

This affected the following samples:

1602521-BLK1
1602521-BS1
1602521-BSD1
J-GW-DEP9
S601125-CCV1
S601145-ICV1

S600574-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

1,1-Dichloroethene (122%)
Carbon disulfide (124%)

SW846 8260C

Calibration:

S600574-ICV1

This affected the following samples:

1602314-BLK1
1602314-BS1
1602314-BSD1
1602363-BLK1
1602363-BS1
1602363-BSD1
1602363-MS1
1602363-MSD1
CBM-1
CBM-2
CBM-4
CBM-5
Duplicate
Equipment Blank
GAI-1D
GAI-1S
GAI-2S
GAI-3D
GAI-3S
J-GW-APT2
J-GW-APT3
S601007-CCV1
S601047-CCV1
Trip Blank

S600831-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

n-Butylbenzene (122%)
trans-1,4-Dichloro-2-butene (124%)

This affected the following samples:

1602364-BLK1
1602364-BS1
1602364-BSD1
CMB-3
J-GW-DEP8
KAS-1
S601048-CCV1
Trip Blank

S601145-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

1,1-Dichloroethene (130%)

This affected the following samples:

1602521-BLK1
1602521-BS1
1602521-BSD1
J-GW-DEP9
S601125-CCV1

Blanks:

SW846 8260C

Blanks:

1602314-BLK1

The method blank contains analyte at a concentration above the MRL, however no reportable concentration is present in the sample.

1,4-Dioxane
Carbon disulfide

Laboratory Control Samples:

1602314 BS/BSD

1,2-Dibromo-3-chloropropane percent recoveries (138/126) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

CBM-1
CBM-2
CBM-4
CBM-5

Bromoform percent recoveries (133/122) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

CBM-1
CBM-2
CBM-4
CBM-5

1602314-BS1

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

1,4-Dioxane
Carbon disulfide

1602314-BSD1

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

1,4-Dioxane
Carbon disulfide

1602363 BS/BSD

Naphthalene percent recoveries (65/64) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Duplicate
Equipment Blank
GAI-1D
GAI-1S
GAI-2S
GAI-3D
GAI-3S
J-GW-APT2
J-GW-APT3
Trip Blank

1602364 BS/BSD

SW846 8260C

Laboratory Control Samples:

1602364 BS/BSD

1,2,4-Trimethylbenzene percent recoveries (131/125) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

CMB-3
J-GW-DEP8
KAS-1
Trip Blank

1,3,5-Trimethylbenzene percent recoveries (134/128) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

CMB-3
J-GW-DEP8
KAS-1
Trip Blank

tert-Butylbenzene percent recoveries (132/124) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

CMB-3
J-GW-DEP8
KAS-1
Trip Blank

Spikes:

1602363-MS1 *Source: SC17886-05*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

2,2-Dichloropropane
Bromomethane
Carbon disulfide
Chloroethane
Chloromethane
Dichlorodifluoromethane (Freon12)

1602363-MSD1 *Source: SC17886-05*

RPD out of acceptance range.

Vinyl chloride

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

2,2-Dichloropropane
Bromomethane
Chloroethane
Chloromethane
Dichlorodifluoromethane (Freon12)
Vinyl chloride

Samples:

S601007-CCV1

SW846 8260C

Samples:

S601007-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,1,2,2-Tetrachloroethane (20.1%)
1,2-Dibromo-3-chloropropane (24.6%)
Bromoform (22.3%)
Bromomethane (-30.8%)
Carbon disulfide (20.2%)
Ethyl ether (-20.9%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Trichlorofluoromethane (Freon 11) (-20.1%)

This affected the following samples:

1602314-BLK1
1602314-BS1
1602314-BSD1
CBM-1
CBM-2
CBM-4
CBM-5

S601047-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,1,2,2-Tetrachloroethane (20.5%)
Bromoform (23.2%)
Bromomethane (-25.5%)
Carbon disulfide (26.9%)
Ethyl ether (-20.7%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Naphthalene (-34.6%)

This affected the following samples:

1602363-BLK1
1602363-BS1
1602363-BSD1
1602363-MS1
1602363-MSD1
Duplicate
Equipment Blank
GAI-1D
GAI-1S
GAI-2S
GAI-3D
GAI-3S
J-GW-APT2
J-GW-APT3
Trip Blank

S601048-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,2,4-Trimethylbenzene (24.8%)
1,3,5-Trimethylbenzene (27.7%)
tert-Butylbenzene (23.7%)

SW846 8260C

Samples:

S601048-CCV1

This affected the following samples:

1602364-BLK1
1602364-BS1
1602364-BSD1
CMB-3
J-GW-DEP8
KAS-1
Trip Blank

S601125-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,1-Dichloroethene (21.6%)

This affected the following samples:

1602521-BLK1
1602521-BS1
1602521-BSD1
J-GW-DEP9

SC17886-08 *GAI-3S*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC17886-12 *GAI-1S*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC17886-12RE1 *GAI-1S*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client:	Environmental Compliance Services -Brattleboro, VT
Project:	Windsor GWS-Depot St-Windsor, VT / 04-224488.00
Work Order:	SC17886
Sample(s) received on:	2/4/2016

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples refrigerated upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: SC17886-03 **Client ID:** CBM-2

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Tetrachloroethene	4.5		1.0	µg/l	SW846 8260C

Lab ID: SC17886-05RE1 **Client ID:** J-GW-DEP9

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	21.2		1.0	µg/l	SW846 8260C
Tetrachloroethene	76.0		1.0	µg/l	SW846 8260C
Trichloroethene	7.0		1.0	µg/l	SW846 8260C

Lab ID: SC17886-07 **Client ID:** J-GW-APT3

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	4.3		1.0	µg/l	SW846 8260C
Tetrachloroethene	8.8		1.0	µg/l	SW846 8260C
Trichloroethene	1.8		1.0	µg/l	SW846 8260C

Lab ID: SC17886-08 **Client ID:** GAI-3S

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	3050	D	200	µg/l	SW846 8260C
Tetrachloroethene	9240	D	200	µg/l	SW846 8260C
Trichloroethene	1460	D	200	µg/l	SW846 8260C

Lab ID: SC17886-10 **Client ID:** GAI-3D

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Tetrachloroethene	3.2		1.0	µg/l	SW846 8260C

Lab ID: SC17886-11 **Client ID:** GAI-1D

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Tetrachloroethene	1.1		1.0	µg/l	SW846 8260C

Lab ID: SC17886-12 **Client ID:** GAI-1S

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	5240	D, E	25.0	µg/l	SW846 8260C
Tetrachloroethene	250	D	25.0	µg/l	SW846 8260C
trans-1,2-Dichloroethene	56.5	D	25.0	µg/l	SW846 8260C
Trichloroethene	912	D	25.0	µg/l	SW846 8260C
Vinyl chloride	74.8	D	25.0	µg/l	SW846 8260C

Lab ID: SC17886-12RE1 **Client ID:** GAI-1S

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	6280	D	100	µg/l	SW846 8260C

Lab ID: SC17886-14 **Client ID:** Duplicate

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Tetrachloroethene	2.5		1.0	µg/l	SW846 8260C

Lab ID: SC17886-17 **Client ID:** CMB-3

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Tetrachloroethene	2.0		1.0	µg/l	SW846 8260C

Lab ID: SC17886-18 **Client ID:** J-GW-DEP8

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Tetrachloroethene	9.2		1.0	µg/l	SW846 8260C

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
CBM-5	04-224488.00	Ground Water	01-Feb-16 11:20	04-Feb-16
SC17886-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	08-Feb-16	08-Feb-16	GMA	1602314	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
CBM-5	04-224488.00	Ground Water	01-Feb-16 11:20	04-Feb-16
SC17886-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	08-Feb-16	08-Feb-16	GMA	1602314	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*98*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
CBM-4	04-224488.00	Ground Water	01-Feb-16 11:43	04-Feb-16
SC17886-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	08-Feb-16	08-Feb-16	GMA	1602314	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
CBM-4	04-224488.00	Ground Water	01-Feb-16 11:43	04-Feb-16
SC17886-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	08-Feb-16	08-Feb-16	GMA	1602314	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*98*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
CBM-2	04-224488.00	Ground Water	01-Feb-16 13:05	04-Feb-16
SC17886-03				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	08-Feb-16	08-Feb-16	GMA	1602314	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
CBM-2	04-224488.00	Ground Water	01-Feb-16 13:05	04-Feb-16
SC17886-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	08-Feb-16	08-Feb-16	GMA	1602314	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**4.5**		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*99*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
CBM-1	04-224488.00	Ground Water	01-Feb-16 13:20	04-Feb-16
SC17886-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	08-Feb-16	08-Feb-16	GMA	1602314	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
CBM-1	04-224488.00	Ground Water	01-Feb-16 13:20	04-Feb-16
SC17886-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	08-Feb-16	08-Feb-16	GMA	1602314	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*99*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-GW-DEP9	04-224488.00	Ground Water	01-Feb-16 14:12	04-Feb-16
SC17886-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	11-Feb-16	12-Feb-16	GMA	1602521	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**21.2**		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-GW-DEP9	04-224488.00	Ground Water	01-Feb-16 14:12	04-Feb-16
SC17886-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	SW846 8260C	11-Feb-16	12-Feb-16	GMA	1602521	X
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**76.0**		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	**7.0**		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*91*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*103*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-GW-APT2	04-224488.00	Ground Water	01-Feb-16 15:35	04-Feb-16
SC17886-06				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-GW-APT2	04-224488.00	Ground Water	01-Feb-16 15:35	04-Feb-16
SC17886-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*96*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-GW-APT3	04-224488.00	Ground Water	01-Feb-16 15:55	04-Feb-16
SC17886-07				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**4.3**		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-GW-APT3	04-224488.00	Ground Water	01-Feb-16 15:55	04-Feb-16
SC17886-07				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**8.8**		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	**1.8**		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*98*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*100*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GAI-3S	04-224488.00	Ground Water	01-Feb-16 16:25	04-Feb-16
SC17886-08				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 200	D	µg/l	200	107	200	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
67-64-1	Acetone	< 2000	D	µg/l	2000	495	200	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 100	D	µg/l	100	94.0	200	"	"	"	"	"	X
71-43-2	Benzene	< 200	D	µg/l	200	34.8	200	"	"	"	"	"	X
108-86-1	Bromobenzene	< 200	D	µg/l	200	22.2	200	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 200	D	µg/l	200	53.6	200	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 100	D	µg/l	100	35.6	200	"	"	"	"	"	X
75-25-2	Bromoform	< 200	D	µg/l	200	58.6	200	"	"	"	"	"	X
74-83-9	Bromomethane	< 400	D	µg/l	400	100	200	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2000	D	µg/l	2000	249	200	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 200	D	µg/l	200	52.6	200	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 200	D	µg/l	200	33.0	200	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 200	D	µg/l	200	42.6	200	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 400	D	µg/l	400	50.2	200	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 200	D	µg/l	200	45.2	200	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 200	D	µg/l	200	39.4	200	"	"	"	"	"	X
75-00-3	Chloroethane	< 400	D	µg/l	400	77.2	200	"	"	"	"	"	X
67-66-3	Chloroform	< 200	D	µg/l	200	81.6	200	"	"	"	"	"	X
74-87-3	Chloromethane	< 400	D	µg/l	400	68.6	200	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 200	D	µg/l	200	60.4	200	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 200	D	µg/l	200	41.0	200	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 400	D	µg/l	400	173	200	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 100	D	µg/l	100	48.6	200	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 100	D	µg/l	100	52.0	200	"	"	"	"	"	X
74-95-3	Dibromomethane	< 200	D	µg/l	200	51.4	200	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 200	D	µg/l	200	31.6	200	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 200	D	µg/l	200	43.8	200	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 200	D	µg/l	200	49.4	200	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 400	D	µg/l	400	117	200	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 200	D	µg/l	200	33.6	200	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 200	D	µg/l	200	32.4	200	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 200	D	µg/l	200	55.6	200	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**3,050**	D	µg/l	200	46.8	200	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 200	D	µg/l	200	41.6	200	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 200	D	µg/l	200	29.8	200	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 200	D	µg/l	200	43.0	200	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 200	D	µg/l	200	134	200	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 200	D	µg/l	200	56.0	200	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 100	D	µg/l	100	40.0	200	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 100	D	µg/l	100	53.8	200	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 200	D	µg/l	200	34.4	200	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 100	D	µg/l	100	80.4	200	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2000	D	µg/l	2000	107	200	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GAI-3S	04-224488.00	Ground Water	01-Feb-16 16:25	04-Feb-16
SC17886-08				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
98-82-8	Isopropylbenzene	< 200	D	µg/l	200	46.8	200	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
99-87-6	4-Isopropyltoluene	< 200	D	µg/l	200	75.0	200	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 200	D	µg/l	200	34.4	200	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2000	D	µg/l	2000	147	200	"	"	"	"	"	X
75-09-2	Methylene chloride	< 400	D	µg/l	400	57.6	200	"	"	"	"	"	X
91-20-3	Naphthalene	< 200	D	µg/l	200	80.0	200	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 200	D	µg/l	200	43.2	200	"	"	"	"	"	X
100-42-5	Styrene	< 200	D	µg/l	200	36.0	200	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 200	D	µg/l	200	47.6	200	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 100	D	µg/l	100	63.8	200	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**9,240**	D	µg/l	200	114	200	"	"	"	"	"	X
108-88-3	Toluene	< 200	D	µg/l	200	65.2	200	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 200	D	µg/l	200	50.4	200	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 200	D	µg/l	200	75.6	200	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 200	D	µg/l	200	40.4	200	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 200	D	µg/l	200	41.2	200	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 200	D	µg/l	200	38.6	200	"	"	"	"	"	X
79-01-6	Trichloroethene	**1,460**	D	µg/l	200	76.0	200	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 200	D	µg/l	200	97.4	200	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 200	D	µg/l	200	40.8	200	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 200	D	µg/l	200	79.8	200	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 200	D	µg/l	200	178	200	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 200	D	µg/l	200	67.8	200	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 400	D	µg/l	400	76.0	200	"	"	"	"	"	X
95-47-6	o-Xylene	< 200	D	µg/l	200	94.2	200	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 400	D	µg/l	400	145	200	"	"	"	"	"	
60-29-7	Ethyl ether	< 200	D	µg/l	200	39.2	200	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 200	D	µg/l	200	69.2	200	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 200	D	µg/l	200	29.2	200	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 200	D	µg/l	200	43.2	200	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 2000	D	µg/l	2000	1500	200	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 4000	D	µg/l	4000	2480	200	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 1000	D	µg/l	1000	223	200	"	"	"	"	"	X
64-17-5	Ethanol	< 80000	D	µg/l	80000	4550	200	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*99*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*98*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*97*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GAI-2S	04-224488.00	Ground Water	01-Feb-16 17:25	04-Feb-16
SC17886-09				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GAI-2S	04-224488.00	Ground Water	01-Feb-16 17:25	04-Feb-16
SC17886-09				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*97*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*100*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GAI-3D	04-224488.00	Ground Water	01-Feb-16 17:35	04-Feb-16
SC17886-10				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GAI-3D	04-224488.00	Ground Water	01-Feb-16 17:35	04-Feb-16
SC17886-10				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	3.2		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*99*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GAI-1D	04-224488.00	Ground Water	01-Feb-16 18:37	04-Feb-16
SC17886-11				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GAI-1D	04-224488.00	Ground Water	01-Feb-16 18:37	04-Feb-16
SC17886-11				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	1.1		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*98*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GAI-1S	04-224488.00	Ground Water	01-Feb-16 18:55	04-Feb-16
SC17886-12				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 25.0	D	µg/l	25.0	13.3	25	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
67-64-1	Acetone	< 250	D	µg/l	250	61.9	25	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 12.5	D	µg/l	12.5	11.8	25	"	"	"	"	"	X
71-43-2	Benzene	< 25.0	D	µg/l	25.0	4.4	25	"	"	"	"	"	X
108-86-1	Bromobenzene	< 25.0	D	µg/l	25.0	2.8	25	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 25.0	D	µg/l	25.0	6.7	25	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 12.5	D	µg/l	12.5	4.4	25	"	"	"	"	"	X
75-25-2	Bromoform	< 25.0	D	µg/l	25.0	7.3	25	"	"	"	"	"	X
74-83-9	Bromomethane	< 50.0	D	µg/l	50.0	12.5	25	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 250	D	µg/l	250	31.1	25	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 25.0	D	µg/l	25.0	6.6	25	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 25.0	D	µg/l	25.0	4.1	25	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 25.0	D	µg/l	25.0	5.3	25	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 50.0	D	µg/l	50.0	6.3	25	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 25.0	D	µg/l	25.0	5.6	25	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 25.0	D	µg/l	25.0	4.9	25	"	"	"	"	"	X
75-00-3	Chloroethane	< 50.0	D	µg/l	50.0	9.6	25	"	"	"	"	"	X
67-66-3	Chloroform	< 25.0	D	µg/l	25.0	10.2	25	"	"	"	"	"	X
74-87-3	Chloromethane	< 50.0	D	µg/l	50.0	8.6	25	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 25.0	D	µg/l	25.0	7.6	25	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 25.0	D	µg/l	25.0	5.1	25	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 50.0	D	µg/l	50.0	21.6	25	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 12.5	D	µg/l	12.5	6.1	25	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 12.5	D	µg/l	12.5	6.5	25	"	"	"	"	"	X
74-95-3	Dibromomethane	< 25.0	D	µg/l	25.0	6.4	25	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 25.0	D	µg/l	25.0	4.0	25	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 25.0	D	µg/l	25.0	5.5	25	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 25.0	D	µg/l	25.0	6.2	25	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 50.0	D	µg/l	50.0	14.6	25	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 25.0	D	µg/l	25.0	4.2	25	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 25.0	D	µg/l	25.0	4.0	25	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 25.0	D	µg/l	25.0	7.0	25	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**5,240**	D, E	µg/l	25.0	5.8	25	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	**56.5**	D	µg/l	25.0	5.2	25	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 25.0	D	µg/l	25.0	3.7	25	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 25.0	D	µg/l	25.0	5.4	25	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 25.0	D	µg/l	25.0	16.8	25	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 25.0	D	µg/l	25.0	7.0	25	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 12.5	D	µg/l	12.5	5.0	25	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 12.5	D	µg/l	12.5	6.7	25	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 25.0	D	µg/l	25.0	4.3	25	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 12.5	D	µg/l	12.5	10.0	25	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 250	D	µg/l	250	13.4	25	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GAI-1S SC17886-12	04-224488.00	Ground Water	01-Feb-16 18:55	04-Feb-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
98-82-8	Isopropylbenzene	< 25.0	D	µg/l	25.0	5.8	25	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
99-87-6	4-Isopropyltoluene	< 25.0	D	µg/l	25.0	9.4	25	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 25.0	D	µg/l	25.0	4.3	25	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 250	D	µg/l	250	18.4	25	"	"	"	"	"	X
75-09-2	Methylene chloride	< 50.0	D	µg/l	50.0	7.2	25	"	"	"	"	"	X
91-20-3	Naphthalene	< 25.0	D	µg/l	25.0	10.0	25	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 25.0	D	µg/l	25.0	5.4	25	"	"	"	"	"	X
100-42-5	Styrene	< 25.0	D	µg/l	25.0	4.5	25	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 25.0	D	µg/l	25.0	6.0	25	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 12.5	D	µg/l	12.5	8.0	25	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**250**	D	µg/l	25.0	14.3	25	"	"	"	"	"	X
108-88-3	Toluene	< 25.0	D	µg/l	25.0	8.2	25	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 25.0	D	µg/l	25.0	6.3	25	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 25.0	D	µg/l	25.0	9.4	25	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 25.0	D	µg/l	25.0	5.0	25	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 25.0	D	µg/l	25.0	5.2	25	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 25.0	D	µg/l	25.0	4.8	25	"	"	"	"	"	X
79-01-6	Trichloroethene	**912**	D	µg/l	25.0	9.5	25	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 25.0	D	µg/l	25.0	12.2	25	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 25.0	D	µg/l	25.0	5.1	25	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 25.0	D	µg/l	25.0	10.0	25	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 25.0	D	µg/l	25.0	22.2	25	"	"	"	"	"	X
75-01-4	Vinyl chloride	**74.8**	D	µg/l	25.0	8.5	25	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 50.0	D	µg/l	50.0	9.5	25	"	"	"	"	"	X
95-47-6	o-Xylene	< 25.0	D	µg/l	25.0	11.8	25	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 50.0	D	µg/l	50.0	18.1	25	"	"	"	"	"	
60-29-7	Ethyl ether	< 25.0	D	µg/l	25.0	4.9	25	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 25.0	D	µg/l	25.0	8.6	25	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 25.0	D	µg/l	25.0	3.6	25	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 25.0	D	µg/l	25.0	5.4	25	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 250	D	µg/l	250	187	25	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 500	D	µg/l	500	310	25	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 125	D	µg/l	125	27.8	25	"	"	"	"	"	X
64-17-5	Ethanol	< 10000	D	µg/l	10000	568	25	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*98*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*			"	"	"	"	"	
Re-analysis of Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
156-59-2	cis-1,2-Dichloroethene	**6,280**	D	µg/l	100	23.4	100	SW846 8260C	11-Feb-16	12-Feb-16	GMA	1602521	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GAI-1S SC17886-12	04-224488.00	Ground Water	01-Feb-16 18:55	04-Feb-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*91*			*70-130 %*			SW846 8260C	11-Feb-16	12-Feb-16	GMA	1602521	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*103*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	04-224488.00	Deionized Water	01-Feb-16 08:00	04-Feb-16
SC17886-13				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	04-224488.00	Deionized Water	01-Feb-16 08:00	04-Feb-16
SC17886-13				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*98*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Duplicate	04-224488.00	Ground Water	01-Feb-16 00:00	04-Feb-16
SC17886-14				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Duplicate	04-224488.00	Ground Water	01-Feb-16 00:00	04-Feb-16
SC17886-14				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**2.5**		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*99*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Equipment Blank	04-224488.00	Deionized Water	01-Feb-16 08:05	04-Feb-16
SC17886-15				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Equipment Blank	04-224488.00	Deionized Water	01-Feb-16 08:05	04-Feb-16
SC17886-15				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602363	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*98*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	04-224488.00	Deionized Water	03-Feb-16 09:00	04-Feb-16
SC17886-16				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602364	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	04-224488.00	Deionized Water	03-Feb-16 09:00	04-Feb-16
SC17886-16				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602364	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*92*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*107*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
CMB-3	04-224488.00	Ground Water	03-Feb-16 13:25	04-Feb-16
SC17886-17				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602364	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
CMB-3	04-224488.00	Ground Water	03-Feb-16 13:25	04-Feb-16
SC17886-17				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	09-Feb-16	09-Feb-16	GMA	1602364	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**2.0**		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*89*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*96*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*108*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-GW-DEP8	04-224488.00	Ground Water	03-Feb-16 14:15	04-Feb-16
SC17886-18				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	09-Feb-16	10-Feb-16	GMA	1602364	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
J-GW-DEP8	04-224488.00	Ground Water	03-Feb-16 14:15	04-Feb-16
SC17886-18				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	09-Feb-16	10-Feb-16	GMA	1602364	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	9.2		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*90*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*96*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*106*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
KAS-1	04-224488.00	Ground Water	03-Feb-16 18:47	04-Feb-16
SC17886-20				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	09-Feb-16	10-Feb-16	GMA	1602364	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
KAS-1	04-224488.00	Ground Water	03-Feb-16 18:47	04-Feb-16
SC17886-20				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	09-Feb-16	10-Feb-16	GMA	1602364	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*92*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*97*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*106*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602314 - SW846 5030 Water MS										
Blank (1602314-BLK1)						Prepared & Analyzed: 08-Feb-16				
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.5		µg/l	0.5						
Benzene	< 1.0		µg/l	1.0						
Bromobenzene	< 1.0		µg/l	1.0						
Bromochloromethane	< 1.0		µg/l	1.0						
Bromodichloromethane	< 0.5		µg/l	0.5						
Bromoform	< 1.0		µg/l	1.0						
Bromomethane	< 2.0		µg/l	2.0						
2-Butanone (MEK)	< 10.0		µg/l	10.0						
n-Butylbenzene	< 1.0		µg/l	1.0						
sec-Butylbenzene	< 1.0		µg/l	1.0						
tert-Butylbenzene	< 1.0		µg/l	1.0						
Carbon disulfide	**2.6**	QB2	µg/l	2.0						
Carbon tetrachloride	< 1.0		µg/l	1.0						
Chlorobenzene	< 1.0		µg/l	1.0						
Chloroethane	< 2.0		µg/l	2.0						
Chloroform	< 1.0		µg/l	1.0						
Chloromethane	< 2.0		µg/l	2.0						
2-Chlorotoluene	< 1.0		µg/l	1.0						
4-Chlorotoluene	< 1.0		µg/l	1.0						
1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0						
Dibromochloromethane	< 0.5		µg/l	0.5						
1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5						
Dibromomethane	< 1.0		µg/l	1.0						
1,2-Dichlorobenzene	< 1.0		µg/l	1.0						
1,3-Dichlorobenzene	< 1.0		µg/l	1.0						
1,4-Dichlorobenzene	< 1.0		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0						
1,1-Dichloroethane	< 1.0		µg/l	1.0						
1,2-Dichloroethane	< 1.0		µg/l	1.0						
1,1-Dichloroethene	< 1.0		µg/l	1.0						
cis-1,2-Dichloroethene	< 1.0		µg/l	1.0						
trans-1,2-Dichloroethene	< 1.0		µg/l	1.0						
1,2-Dichloropropane	< 1.0		µg/l	1.0						
1,3-Dichloropropane	< 1.0		µg/l	1.0						
2,2-Dichloropropane	< 1.0		µg/l	1.0						
1,1-Dichloropropene	< 1.0		µg/l	1.0						
cis-1,3-Dichloropropene	< 0.5		µg/l	0.5						
trans-1,3-Dichloropropene	< 0.5		µg/l	0.5						
Ethylbenzene	< 1.0		µg/l	1.0						
Hexachlorobutadiene	< 0.5		µg/l	0.5						
2-Hexanone (MBK)	< 10.0		µg/l	10.0						
Isopropylbenzene	< 1.0		µg/l	1.0						
4-Isopropyltoluene	< 1.0		µg/l	1.0						
Methyl tert-butyl ether	< 1.0		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0						
Methylene chloride	< 2.0		µg/l	2.0						
Naphthalene	< 1.0		µg/l	1.0						
n-Propylbenzene	< 1.0		µg/l	1.0						
Styrene	< 1.0		µg/l	1.0						
1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602314 - SW846 5030 Water MS										
Blank (1602314-BLK1)					Prepared & Analyzed: 08-Feb-16					
1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5						
Tetrachloroethene	< 1.0		µg/l	1.0						
Toluene	< 1.0		µg/l	1.0						
1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0						
1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0						
1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0						
1,1,1-Trichloroethane	< 1.0		µg/l	1.0						
1,1,2-Trichloroethane	< 1.0		µg/l	1.0						
Trichloroethene	< 1.0		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0						
1,2,3-Trichloropropane	< 1.0		µg/l	1.0						
1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0						
1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0						
Vinyl chloride	< 1.0		µg/l	1.0						
m,p-Xylene	< 2.0		µg/l	2.0						
o-Xylene	< 1.0		µg/l	1.0						
Tetrahydrofuran	< 2.0		µg/l	2.0						
Ethyl ether	< 1.0		µg/l	1.0						
Tert-amyl methyl ether	< 1.0		µg/l	1.0						
Ethyl tert-butyl ether	< 1.0		µg/l	1.0						
Di-isopropyl ether	< 1.0		µg/l	1.0						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	**30.0**	QB2	µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0						
Ethanol	< 400		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*51.0*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*50.0*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.5*		µg/l		*50.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*50.6*		µg/l		*50.0*		*101*	*70-130*		
LCS (1602314-BS1)					Prepared & Analyzed: 08-Feb-16					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.2**		µg/l		20.0		101	70-130		
Acetone	**18.4**		µg/l		20.0		92	70-130		
Acrylonitrile	**18.8**		µg/l		20.0		94	70-130		
Benzene	**19.8**		µg/l		20.0		99	70-130		
Bromobenzene	**21.2**		µg/l		20.0		106	70-130		
Bromochloromethane	**20.6**		µg/l		20.0		103	70-130		
Bromodichloromethane	**21.2**		µg/l		20.0		106	70-130		
Bromoform	**26.7**	QM9	µg/l		20.0		133	70-130		
Bromomethane	**15.4**		µg/l		20.0		77	70-130		
2-Butanone (MEK)	**19.2**		µg/l		20.0		96	70-130		
n-Butylbenzene	**22.0**		µg/l		20.0		110	70-130		
sec-Butylbenzene	**22.0**		µg/l		20.0		110	70-130		
tert-Butylbenzene	**22.0**		µg/l		20.0		110	70-130		
Carbon disulfide	**25.7**	B	µg/l		20.0		128	70-130		
Carbon tetrachloride	**21.0**		µg/l		20.0		105	70-130		
Chlorobenzene	**20.4**		µg/l		20.0		102	70-130		
Chloroethane	**17.2**		µg/l		20.0		86	70-130		
Chloroform	**19.1**		µg/l		20.0		95	70-130		
Chloromethane	**17.7**		µg/l		20.0		88	70-130		
2-Chlorotoluene	**21.6**		µg/l		20.0		108	70-130		
4-Chlorotoluene	**21.3**		µg/l		20.0		106	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602314 - SW846 5030 Water MS										
LCS (1602314-BS1)					Prepared & Analyzed: 08-Feb-16					
1,2-Dibromo-3-chloropropane	**27.6**	QM9	µg/l		20.0		138	70-130		
Dibromochloromethane	**23.6**		µg/l		20.0		118	70-130		
1,2-Dibromoethane (EDB)	**20.5**		µg/l		20.0		103	70-130		
Dibromomethane	**20.0**		µg/l		20.0		100	70-130		
1,2-Dichlorobenzene	**20.6**		µg/l		20.0		103	70-130		
1,3-Dichlorobenzene	**21.9**		µg/l		20.0		110	70-130		
1,4-Dichlorobenzene	**20.0**		µg/l		20.0		100	70-130		
Dichlorodifluoromethane (Freon12)	**22.6**		µg/l		20.0		113	70-130		
1,1-Dichloroethane	**20.0**		µg/l		20.0		100	70-130		
1,2-Dichloroethane	**18.8**		µg/l		20.0		94	70-130		
1,1-Dichloroethene	**17.8**		µg/l		20.0		89	70-130		
cis-1,2-Dichloroethene	**19.8**		µg/l		20.0		99	70-130		
trans-1,2-Dichloroethene	**20.6**		µg/l		20.0		103	70-130		
1,2-Dichloropropane	**20.0**		µg/l		20.0		100	70-130		
1,3-Dichloropropane	**19.6**		µg/l		20.0		98	70-130		
2,2-Dichloropropane	**19.9**		µg/l		20.0		100	70-130		
1,1-Dichloropropene	**20.2**		µg/l		20.0		101	70-130		
cis-1,3-Dichloropropene	**22.7**		µg/l		20.0		114	70-130		
trans-1,3-Dichloropropene	**22.0**		µg/l		20.0		110	70-130		
Ethylbenzene	**21.1**		µg/l		20.0		105	70-130		
Hexachlorobutadiene	**21.2**		µg/l		20.0		106	70-130		
2-Hexanone (MBK)	**20.9**		µg/l		20.0		105	70-130		
Isopropylbenzene	**21.4**		µg/l		20.0		107	70-130		
4-Isopropyltoluene	**21.1**		µg/l		20.0		105	70-130		
Methyl tert-butyl ether	**20.1**		µg/l		20.0		100	70-130		
4-Methyl-2-pentanone (MIBK)	**20.8**		µg/l		20.0		104	70-130		
Methylene chloride	**22.4**		µg/l		20.0		112	70-130		
Naphthalene	**22.9**		µg/l		20.0		114	70-130		
n-Propylbenzene	**21.8**		µg/l		20.0		109	70-130		
Styrene	**21.9**		µg/l		20.0		110	70-130		
1,1,1,2-Tetrachloroethane	**24.1**		µg/l		20.0		120	70-130		
1,1,2,2-Tetrachloroethane	**25.6**		µg/l		20.0		128	70-130		
Tetrachloroethene	**20.3**		µg/l		20.0		102	70-130		
Toluene	**19.9**		µg/l		20.0		100	70-130		
1,2,3-Trichlorobenzene	**24.4**		µg/l		20.0		122	70-130		
1,2,4-Trichlorobenzene	**23.1**		µg/l		20.0		116	70-130		
1,3,5-Trichlorobenzene	**22.2**		µg/l		20.0		111	70-130		
1,1,1-Trichloroethane	**21.4**		µg/l		20.0		107	70-130		
1,1,2-Trichloroethane	**20.4**		µg/l		20.0		102	70-130		
Trichloroethene	**18.6**		µg/l		20.0		93	70-130		
Trichlorofluoromethane (Freon 11)	**16.9**		µg/l		20.0		84	70-130		
1,2,3-Trichloropropane	**21.4**		µg/l		20.0		107	70-130		
1,2,4-Trimethylbenzene	**22.6**		µg/l		20.0		113	70-130		
1,3,5-Trimethylbenzene	**22.0**		µg/l		20.0		110	70-130		
Vinyl chloride	**17.7**		µg/l		20.0		89	70-130		
m,p-Xylene	**21.5**		µg/l		20.0		107	70-130		
o-Xylene	**21.6**		µg/l		20.0		108	70-130		
Tetrahydrofuran	**19.8**		µg/l		20.0		99	70-130		
Ethyl ether	**16.9**		µg/l		20.0		85	70-130		
Tert-amyl methyl ether	**19.5**		µg/l		20.0		98	70-130		
Ethyl tert-butyl ether	**19.9**		µg/l		20.0		100	70-130		
Di-isopropyl ether	**19.8**		µg/l		20.0		99	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602314 - SW846 5030 Water MS										
LCS (1602314-BS1)						Prepared & Analyzed: 08-Feb-16				
Tert-Butanol / butyl alcohol	**180**		µg/l		200		90	70-130		
1,4-Dioxane	**226**	B	µg/l		200		113	70-130		
trans-1,4-Dichloro-2-butene	**24.3**		µg/l		20.0		122	70-130		
Ethanol	**358**		µg/l		400		90	70-130		
Surrogate: 4-Bromofluorobenzene	*51.3*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*49.4*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.6*		µg/l		*50.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*51.0*		µg/l		*50.0*		*102*	*70-130*		
LCS Dup (1602314-BSD1)						Prepared & Analyzed: 08-Feb-16				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**18.8**		µg/l		20.0		94	70-130	7	20
Acetone	**18.2**		µg/l		20.0		91	70-130	1	20
Acrylonitrile	**17.0**		µg/l		20.0		85	70-130	10	20
Benzene	**19.1**		µg/l		20.0		96	70-130	4	20
Bromobenzene	**20.4**		µg/l		20.0		102	70-130	4	20
Bromochloromethane	**20.4**		µg/l		20.0		102	70-130	0.8	20
Bromodichloromethane	**20.4**		µg/l		20.0		102	70-130	4	20
Bromoform	**24.4**		µg/l		20.0		122	70-130	9	20
Bromomethane	**15.2**		µg/l		20.0		76	70-130	1	20
2-Butanone (MEK)	**18.7**		µg/l		20.0		94	70-130	2	20
n-Butylbenzene	**20.6**		µg/l		20.0		103	70-130	6	20
sec-Butylbenzene	**20.5**		µg/l		20.0		103	70-130	7	20
tert-Butylbenzene	**20.4**		µg/l		20.0		102	70-130	8	20
Carbon disulfide	**24.1**	B	µg/l		20.0		121	70-130	6	20
Carbon tetrachloride	**19.4**		µg/l		20.0		97	70-130	8	20
Chlorobenzene	**19.7**		µg/l		20.0		98	70-130	4	20
Chloroethane	**16.6**		µg/l		20.0		83	70-130	4	20
Chloroform	**18.4**		µg/l		20.0		92	70-130	4	20
Chloromethane	**17.1**		µg/l		20.0		85	70-130	4	20
2-Chlorotoluene	**20.3**		µg/l		20.0		101	70-130	6	20
4-Chlorotoluene	**20.3**		µg/l		20.0		101	70-130	5	20
1,2-Dibromo-3-chloropropane	**25.2**		µg/l		20.0		126	70-130	9	20
Dibromochloromethane	**22.5**		µg/l		20.0		113	70-130	4	20
1,2-Dibromoethane (EDB)	**20.2**		µg/l		20.0		101	70-130	2	20
Dibromomethane	**19.0**		µg/l		20.0		95	70-130	5	20
1,2-Dichlorobenzene	**20.0**		µg/l		20.0		100	70-130	3	20
1,3-Dichlorobenzene	**20.7**		µg/l		20.0		103	70-130	6	20
1,4-Dichlorobenzene	**19.5**		µg/l		20.0		98	70-130	2	20
Dichlorodifluoromethane (Freon12)	**21.4**		µg/l		20.0		107	70-130	5	20
1,1-Dichloroethane	**19.3**		µg/l		20.0		96	70-130	4	20
1,2-Dichloroethane	**18.5**		µg/l		20.0		92	70-130	2	20
1,1-Dichloroethene	**17.0**		µg/l		20.0		85	70-130	5	20
cis-1,2-Dichloroethene	**19.2**		µg/l		20.0		96	70-130	3	20
trans-1,2-Dichloroethene	**19.3**		µg/l		20.0		97	70-130	6	20
1,2-Dichloropropane	**19.2**		µg/l		20.0		96	70-130	4	20
1,3-Dichloropropane	**19.0**		µg/l		20.0		95	70-130	3	20
2,2-Dichloropropane	**19.0**		µg/l		20.0		95	70-130	5	20
1,1-Dichloropropene	**18.9**		µg/l		20.0		95	70-130	7	20
cis-1,3-Dichloropropene	**21.4**		µg/l		20.0		107	70-130	6	20
trans-1,3-Dichloropropene	**21.4**		µg/l		20.0		107	70-130	3	20
Ethylbenzene	**19.7**		µg/l		20.0		99	70-130	7	20
Hexachlorobutadiene	**19.7**		µg/l		20.0		98	70-130	7	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602314 - SW846 5030 Water MS										
LCS Dup (1602314-BSD1)					Prepared & Analyzed: 08-Feb-16					
2-Hexanone (MBK)	**19.8**		µg/l		20.0		99	70-130	5	20
Isopropylbenzene	**20.0**		µg/l		20.0		100	70-130	7	20
4-Isopropyltoluene	**19.9**		µg/l		20.0		100	70-130	6	20
Methyl tert-butyl ether	**19.4**		µg/l		20.0		97	70-130	3	20
4-Methyl-2-pentanone (MIBK)	**19.9**		µg/l		20.0		100	70-130	4	20
Methylene chloride	**21.4**		µg/l		20.0		107	70-130	4	20
Naphthalene	**20.8**		µg/l		20.0		104	70-130	10	20
n-Propylbenzene	**20.3**		µg/l		20.0		102	70-130	7	20
Styrene	**20.8**		µg/l		20.0		104	70-130	5	20
1,1,1,2-Tetrachloroethane	**22.7**		µg/l		20.0		113	70-130	6	20
1,1,2,2-Tetrachloroethane	**24.4**		µg/l		20.0		122	70-130	5	20
Tetrachloroethene	**19.4**		µg/l		20.0		97	70-130	5	20
Toluene	**19.0**		µg/l		20.0		95	70-130	5	20
1,2,3-Trichlorobenzene	**23.1**		µg/l		20.0		116	70-130	6	20
1,2,4-Trichlorobenzene	**21.6**		µg/l		20.0		108	70-130	7	20
1,3,5-Trichlorobenzene	**21.3**		µg/l		20.0		106	70-130	4	20
1,1,1-Trichloroethane	**20.1**		µg/l		20.0		101	70-130	6	20
1,1,2-Trichloroethane	**19.5**		µg/l		20.0		98	70-130	4	20
Trichloroethene	**17.5**		µg/l		20.0		88	70-130	6	20
Trichlorofluoromethane (Freon 11)	**16.0**		µg/l		20.0		80	70-130	5	20
1,2,3-Trichloropropane	**20.9**		µg/l		20.0		104	70-130	3	20
1,2,4-Trimethylbenzene	**21.3**		µg/l		20.0		106	70-130	6	20
1,3,5-Trimethylbenzene	**20.6**		µg/l		20.0		103	70-130	7	20
Vinyl chloride	**17.8**		µg/l		20.0		89	70-130	0.2	20
m,p-Xylene	**20.1**		µg/l		20.0		101	70-130	7	20
o-Xylene	**20.4**		µg/l		20.0		102	70-130	6	20
Tetrahydrofuran	**18.7**		µg/l		20.0		94	70-130	6	20
Ethyl ether	**16.7**		µg/l		20.0		83	70-130	1	20
Tert-amyl methyl ether	**18.9**		µg/l		20.0		95	70-130	3	20
Ethyl tert-butyl ether	**19.2**		µg/l		20.0		96	70-130	4	20
Di-isopropyl ether	**19.1**		µg/l		20.0		96	70-130	3	20
Tert-Butanol / butyl alcohol	**175**		µg/l		200		87	70-130	3	20
1,4-Dioxane	**215**	B	µg/l		200		107	70-130	5	20
trans-1,4-Dichloro-2-butene	**22.4**		µg/l		20.0		112	70-130	8	20
Ethanol	**344**		µg/l		400		86	70-130	4	20
Surrogate: 4-Bromofluorobenzene	*51.4*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*49.8*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.0*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*51.2*		µg/l		*50.0*		*102*	*70-130*		
Batch 1602363 - SW846 5030 Water MS										
Blank (1602363-BLK1)					Prepared & Analyzed: 09-Feb-16					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.5		µg/l	0.5						
Benzene	< 1.0		µg/l	1.0						
Bromobenzene	< 1.0		µg/l	1.0						
Bromochloromethane	< 1.0		µg/l	1.0						
Bromodichloromethane	< 0.5		µg/l	0.5						
Bromoform	< 1.0		µg/l	1.0						
Bromomethane	< 2.0		µg/l	2.0						
2-Butanone (MEK)	< 10.0		µg/l	10.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602363 - SW846 5030 Water MS										
Blank (1602363-BLK1)					Prepared & Analyzed: 09-Feb-16					
n-Butylbenzene	< 1.0		µg/l	1.0						
sec-Butylbenzene	< 1.0		µg/l	1.0						
tert-Butylbenzene	< 1.0		µg/l	1.0						
Carbon disulfide	< 2.0		µg/l	2.0						
Carbon tetrachloride	< 1.0		µg/l	1.0						
Chlorobenzene	< 1.0		µg/l	1.0						
Chloroethane	< 2.0		µg/l	2.0						
Chloroform	< 1.0		µg/l	1.0						
Chloromethane	< 2.0		µg/l	2.0						
2-Chlorotoluene	< 1.0		µg/l	1.0						
4-Chlorotoluene	< 1.0		µg/l	1.0						
1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0						
Dibromochloromethane	< 0.5		µg/l	0.5						
1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5						
Dibromomethane	< 1.0		µg/l	1.0						
1,2-Dichlorobenzene	< 1.0		µg/l	1.0						
1,3-Dichlorobenzene	< 1.0		µg/l	1.0						
1,4-Dichlorobenzene	< 1.0		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0						
1,1-Dichloroethane	< 1.0		µg/l	1.0						
1,2-Dichloroethane	< 1.0		µg/l	1.0						
1,1-Dichloroethene	< 1.0		µg/l	1.0						
cis-1,2-Dichloroethene	< 1.0		µg/l	1.0						
trans-1,2-Dichloroethene	< 1.0		µg/l	1.0						
1,2-Dichloropropane	< 1.0		µg/l	1.0						
1,3-Dichloropropane	< 1.0		µg/l	1.0						
2,2-Dichloropropane	< 1.0		µg/l	1.0						
1,1-Dichloropropene	< 1.0		µg/l	1.0						
cis-1,3-Dichloropropene	< 0.5		µg/l	0.5						
trans-1,3-Dichloropropene	< 0.5		µg/l	0.5						
Ethylbenzene	< 1.0		µg/l	1.0						
Hexachlorobutadiene	< 0.5		µg/l	0.5						
2-Hexanone (MBK)	< 10.0		µg/l	10.0						
Isopropylbenzene	< 1.0		µg/l	1.0						
4-Isopropyltoluene	< 1.0		µg/l	1.0						
Methyl tert-butyl ether	< 1.0		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0						
Methylene chloride	< 2.0		µg/l	2.0						
Naphthalene	< 1.0		µg/l	1.0						
n-Propylbenzene	< 1.0		µg/l	1.0						
Styrene	< 1.0		µg/l	1.0						
1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0						
1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5						
Tetrachloroethene	< 1.0		µg/l	1.0						
Toluene	< 1.0		µg/l	1.0						
1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0						
1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0						
1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0						
1,1,1-Trichloroethane	< 1.0		µg/l	1.0						
1,1,2-Trichloroethane	< 1.0		µg/l	1.0						
Trichloroethene	< 1.0		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602363 - SW846 5030 Water MS										
Blank (1602363-BLK1)					Prepared & Analyzed: 09-Feb-16					
1,2,3-Trichloropropane	< 1.0		µg/l	1.0						
1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0						
1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0						
Vinyl chloride	< 1.0		µg/l	1.0						
m,p-Xylene	< 2.0		µg/l	2.0						
o-Xylene	< 1.0		µg/l	1.0						
Tetrahydrofuran	< 2.0		µg/l	2.0						
Ethyl ether	< 1.0		µg/l	1.0						
Tert-amyl methyl ether	< 1.0		µg/l	1.0						
Ethyl tert-butyl ether	< 1.0		µg/l	1.0						
Di-isopropyl ether	< 1.0		µg/l	1.0						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	< 20.0		µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0						
Ethanol	< 400		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*49.0*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*49.8*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.3*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*51.3*		µg/l		*50.0*		*103*	*70-130*		
LCS (1602363-BS1)					Prepared & Analyzed: 09-Feb-16					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**21.7**		µg/l		20.0		109	70-130		
Acetone	**16.5**		µg/l		20.0		82	70-130		
Acrylonitrile	**15.4**		µg/l		20.0		77	70-130		
Benzene	**19.3**		µg/l		20.0		96	70-130		
Bromobenzene	**19.8**		µg/l		20.0		99	70-130		
Bromochloromethane	**20.4**		µg/l		20.0		102	70-130		
Bromodichloromethane	**20.3**		µg/l		20.0		102	70-130		
Bromoform	**24.3**		µg/l		20.0		121	70-130		
Bromomethane	**15.4**		µg/l		20.0		77	70-130		
2-Butanone (MEK)	**18.0**		µg/l		20.0		90	70-130		
n-Butylbenzene	**20.5**		µg/l		20.0		102	70-130		
sec-Butylbenzene	**21.4**		µg/l		20.0		107	70-130		
tert-Butylbenzene	**21.4**		µg/l		20.0		107	70-130		
Carbon disulfide	**25.1**		µg/l		20.0		126	70-130		
Carbon tetrachloride	**20.8**		µg/l		20.0		104	70-130		
Chlorobenzene	**19.4**		µg/l		20.0		97	70-130		
Chloroethane	**17.2**		µg/l		20.0		86	70-130		
Chloroform	**18.5**		µg/l		20.0		92	70-130		
Chloromethane	**16.4**		µg/l		20.0		82	70-130		
2-Chlorotoluene	**20.5**		µg/l		20.0		102	70-130		
4-Chlorotoluene	**20.0**		µg/l		20.0		100	70-130		
1,2-Dibromo-3-chloropropane	**23.0**		µg/l		20.0		115	70-130		
Dibromochloromethane	**22.0**		µg/l		20.0		110	70-130		
1,2-Dibromoethane (EDB)	**19.9**		µg/l		20.0		100	70-130		
Dibromomethane	**19.3**		µg/l		20.0		97	70-130		
1,2-Dichlorobenzene	**19.9**		µg/l		20.0		100	70-130		
1,3-Dichlorobenzene	**20.4**		µg/l		20.0		102	70-130		
1,4-Dichlorobenzene	**19.1**		µg/l		20.0		96	70-130		
Dichlorodifluoromethane (Freon12)	**17.0**		µg/l		20.0		85	70-130		
1,1-Dichloroethane	**19.4**		µg/l		20.0		97	70-130		
1,2-Dichloroethane	**18.4**		µg/l		20.0		92	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602363 - SW846 5030 Water MS										
LCS (1602363-BS1)						Prepared & Analyzed: 09-Feb-16				
1,1-Dichloroethene	**17.7**		µg/l		20.0		88	70-130		
cis-1,2-Dichloroethene	**19.5**		µg/l		20.0		98	70-130		
trans-1,2-Dichloroethene	**20.0**		µg/l		20.0		100	70-130		
1,2-Dichloropropane	**19.1**		µg/l		20.0		96	70-130		
1,3-Dichloropropane	**18.9**		µg/l		20.0		95	70-130		
2,2-Dichloropropane	**19.2**		µg/l		20.0		96	70-130		
1,1-Dichloropropene	**20.7**		µg/l		20.0		103	70-130		
cis-1,3-Dichloropropene	**20.8**		µg/l		20.0		104	70-130		
trans-1,3-Dichloropropene	**20.1**		µg/l		20.0		100	70-130		
Ethylbenzene	**20.2**		µg/l		20.0		101	70-130		
Hexachlorobutadiene	**20.9**		µg/l		20.0		105	70-130		
2-Hexanone (MBK)	**18.6**		µg/l		20.0		93	70-130		
Isopropylbenzene	**20.8**		µg/l		20.0		104	70-130		
4-Isopropyltoluene	**20.6**		µg/l		20.0		103	70-130		
Methyl tert-butyl ether	**19.2**		µg/l		20.0		96	70-130		
4-Methyl-2-pentanone (MIBK)	**18.9**		µg/l		20.0		95	70-130		
Methylene chloride	**19.1**		µg/l		20.0		96	70-130		
Naphthalene	**13.1**	QC2	µg/l		20.0		65	70-130		
n-Propylbenzene	**20.7**		µg/l		20.0		103	70-130		
Styrene	**20.4**		µg/l		20.0		102	70-130		
1,1,1,2-Tetrachloroethane	**21.8**		µg/l		20.0		109	70-130		
1,1,2,2-Tetrachloroethane	**23.8**		µg/l		20.0		119	70-130		
Tetrachloroethene	**20.6**		µg/l		20.0		103	70-130		
Toluene	**19.3**		µg/l		20.0		97	70-130		
1,2,3-Trichlorobenzene	**17.0**		µg/l		20.0		85	70-130		
1,2,4-Trichlorobenzene	**16.2**		µg/l		20.0		81	70-130		
1,3,5-Trichlorobenzene	**20.0**		µg/l		20.0		100	70-130		
1,1,1-Trichloroethane	**21.1**		µg/l		20.0		106	70-130		
1,1,2-Trichloroethane	**19.8**		µg/l		20.0		99	70-130		
Trichloroethene	**18.0**		µg/l		20.0		90	70-130		
Trichlorofluoromethane (Freon 11)	**18.3**		µg/l		20.0		91	70-130		
1,2,3-Trichloropropane	**20.2**		µg/l		20.0		101	70-130		
1,2,4-Trimethylbenzene	**21.2**		µg/l		20.0		106	70-130		
1,3,5-Trimethylbenzene	**21.0**		µg/l		20.0		105	70-130		
Vinyl chloride	**16.2**		µg/l		20.0		81	70-130		
m,p-Xylene	**20.3**		µg/l		20.0		102	70-130		
o-Xylene	**20.5**		µg/l		20.0		102	70-130		
Tetrahydrofuran	**18.0**		µg/l		20.0		90	70-130		
Ethyl ether	**15.9**		µg/l		20.0		80	70-130		
Tert-amyl methyl ether	**17.6**		µg/l		20.0		88	70-130		
Ethyl tert-butyl ether	**18.5**		µg/l		20.0		92	70-130		
Di-isopropyl ether	**18.9**		µg/l		20.0		94	70-130		
Tert-Butanol / butyl alcohol	**169**		µg/l		200		85	70-130		
1,4-Dioxane	**205**		µg/l		200		103	70-130		
trans-1,4-Dichloro-2-butene	**20.4**		µg/l		20.0		102	70-130		
Ethanol	**321**		µg/l		400		80	70-130		
Surrogate: 4-Bromofluorobenzene	*50.7*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*50.0*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.1*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*51.5*		µg/l		*50.0*		*103*	*70-130*		
LCS Dup (1602363-BSD1)						Prepared & Analyzed: 09-Feb-16				

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602363 - SW846 5030 Water MS										
LCS Dup (1602363-BSD1)					Prepared & Analyzed: 09-Feb-16					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.7**		µg/l		20.0		98	70-130	10	20
Acetone	**15.6**		µg/l		20.0		78	70-130	5	20
Acrylonitrile	**15.4**		µg/l		20.0		77	70-130	0.3	20
Benzene	**18.2**		µg/l		20.0		91	70-130	6	20
Bromobenzene	**19.4**		µg/l		20.0		97	70-130	2	20
Bromochloromethane	**19.5**		µg/l		20.0		98	70-130	4	20
Bromodichloromethane	**19.2**		µg/l		20.0		96	70-130	6	20
Bromoform	**22.3**		µg/l		20.0		112	70-130	8	20
Bromomethane	**14.3**		µg/l		20.0		72	70-130	7	20
2-Butanone (MEK)	**17.9**		µg/l		20.0		89	70-130	0.4	20
n-Butylbenzene	**19.1**		µg/l		20.0		95	70-130	7	20
sec-Butylbenzene	**20.0**		µg/l		20.0		100	70-130	7	20
tert-Butylbenzene	**20.5**		µg/l		20.0		102	70-130	5	20
Carbon disulfide	**23.3**		µg/l		20.0		117	70-130	7	20
Carbon tetrachloride	**19.0**		µg/l		20.0		95	70-130	9	20
Chlorobenzene	**18.7**		µg/l		20.0		94	70-130	4	20
Chloroethane	**16.0**		µg/l		20.0		80	70-130	7	20
Chloroform	**17.6**		µg/l		20.0		88	70-130	5	20
Chloromethane	**15.6**		µg/l		20.0		78	70-130	5	20
2-Chlorotoluene	**19.3**		µg/l		20.0		96	70-130	6	20
4-Chlorotoluene	**19.0**		µg/l		20.0		95	70-130	5	20
1,2-Dibromo-3-chloropropane	**21.2**		µg/l		20.0		106	70-130	8	20
Dibromochloromethane	**20.9**		µg/l		20.0		104	70-130	5	20
1,2-Dibromoethane (EDB)	**19.0**		µg/l		20.0		95	70-130	5	20
Dibromomethane	**18.6**		µg/l		20.0		93	70-130	4	20
1,2-Dichlorobenzene	**18.6**		µg/l		20.0		93	70-130	7	20
1,3-Dichlorobenzene	**19.5**		µg/l		20.0		97	70-130	5	20
1,4-Dichlorobenzene	**17.9**		µg/l		20.0		90	70-130	6	20
Dichlorodifluoromethane (Freon12)	**17.9**		µg/l		20.0		90	70-130	5	20
1,1-Dichloroethane	**18.4**		µg/l		20.0		92	70-130	5	20
1,2-Dichloroethane	**17.6**		µg/l		20.0		88	70-130	4	20
1,1-Dichloroethene	**16.8**		µg/l		20.0		84	70-130	5	20
cis-1,2-Dichloroethene	**18.2**		µg/l		20.0		91	70-130	7	20
trans-1,2-Dichloroethene	**19.0**		µg/l		20.0		95	70-130	5	20
1,2-Dichloropropane	**18.3**		µg/l		20.0		92	70-130	4	20
1,3-Dichloropropane	**17.8**		µg/l		20.0		89	70-130	6	20
2,2-Dichloropropane	**17.4**		µg/l		20.0		87	70-130	10	20
1,1-Dichloropropene	**19.1**		µg/l		20.0		96	70-130	8	20
cis-1,3-Dichloropropene	**19.7**		µg/l		20.0		98	70-130	5	20
trans-1,3-Dichloropropene	**19.6**		µg/l		20.0		98	70-130	2	20
Ethylbenzene	**19.3**		µg/l		20.0		96	70-130	5	20
Hexachlorobutadiene	**19.2**		µg/l		20.0		96	70-130	9	20
2-Hexanone (MBK)	**18.8**		µg/l		20.0		94	70-130	1	20
Isopropylbenzene	**19.6**		µg/l		20.0		98	70-130	6	20
4-Isopropyltoluene	**19.0**		µg/l		20.0		95	70-130	8	20
Methyl tert-butyl ether	**18.3**		µg/l		20.0		92	70-130	4	20
4-Methyl-2-pentanone (MIBK)	**18.4**		µg/l		20.0		92	70-130	3	20
Methylene chloride	**15.9**		µg/l		20.0		80	70-130	18	20
Naphthalene	**12.7**	QC2	µg/l		20.0		64	70-130	3	20
n-Propylbenzene	**19.5**		µg/l		20.0		98	70-130	6	20
Styrene	**19.3**		µg/l		20.0		97	70-130	5	20
1,1,1,2-Tetrachloroethane	**20.7**		µg/l		20.0		104	70-130	5	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602363 - SW846 5030 Water MS										
LCS Dup (1602363-BSD1)					Prepared & Analyzed: 09-Feb-16					
1,1,2,2-Tetrachloroethane	**23.4**		µg/l		20.0		117	70-130	2	20
Tetrachloroethene	**19.5**		µg/l		20.0		97	70-130	6	20
Toluene	**18.1**		µg/l		20.0		90	70-130	7	20
1,2,3-Trichlorobenzene	**16.2**		µg/l		20.0		81	70-130	5	20
1,2,4-Trichlorobenzene	**15.7**		µg/l		20.0		78	70-130	3	20
1,3,5-Trichlorobenzene	**18.8**		µg/l		20.0		94	70-130	6	20
1,1,1-Trichloroethane	**19.9**		µg/l		20.0		100	70-130	6	20
1,1,2-Trichloroethane	**18.7**		µg/l		20.0		93	70-130	6	20
Trichloroethene	**17.1**		µg/l		20.0		86	70-130	5	20
Trichlorofluoromethane (Freon 11)	**17.1**		µg/l		20.0		86	70-130	6	20
1,2,3-Trichloropropane	**19.7**		µg/l		20.0		98	70-130	3	20
1,2,4-Trimethylbenzene	**20.2**		µg/l		20.0		101	70-130	4	20
1,3,5-Trimethylbenzene	**19.9**		µg/l		20.0		99	70-130	6	20
Vinyl chloride	**18.2**		µg/l		20.0		91	70-130	11	20
m,p-Xylene	**19.3**		µg/l		20.0		97	70-130	5	20
o-Xylene	**19.6**		µg/l		20.0		98	70-130	4	20
Tetrahydrofuran	**17.7**		µg/l		20.0		89	70-130	1	20
Ethyl ether	**15.5**		µg/l		20.0		77	70-130	3	20
Tert-amyl methyl ether	**17.1**		µg/l		20.0		85	70-130	3	20
Ethyl tert-butyl ether	**17.9**		µg/l		20.0		89	70-130	3	20
Di-isopropyl ether	**18.0**		µg/l		20.0		90	70-130	5	20
Tert-Butanol / butyl alcohol	**164**		µg/l		200		82	70-130	3	20
1,4-Dioxane	**196**		µg/l		200		98	70-130	5	20
trans-1,4-Dichloro-2-butene	**19.0**		µg/l		20.0		95	70-130	7	20
Ethanol	**319**		µg/l		400		80	70-130	0.5	20
Surrogate: 4-Bromofluorobenzene	*51.6*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*49.6*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.6*		µg/l		*50.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*51.5*		µg/l		*50.0*		*103*	*70-130*		
Matrix Spike (1602363-MS1)			**Source: SC17886-05**		Prepared & Analyzed: 09-Feb-16					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**18.5**	D	µg/l		20.0	BRL	92	70-130		
Acetone	**15.8**	D	µg/l		20.0	BRL	79	70-130		
Acrylonitrile	**16.0**	D	µg/l		20.0	BRL	80	70-130		
Benzene	**17.4**	D	µg/l		20.0	BRL	87	70-130		
Bromobenzene	**20.0**	D	µg/l		20.0	BRL	100	70-130		
Bromochloromethane	**18.9**	D	µg/l		20.0	BRL	94	70-130		
Bromodichloromethane	**17.8**	D	µg/l		20.0	BRL	89	70-130		
Bromoform	**19.9**	D	µg/l		20.0	BRL	99	70-130		
Bromomethane	**10.6**	QM7, D	µg/l		20.0	BRL	53	70-130		
2-Butanone (MEK)	**17.1**	D	µg/l		20.0	BRL	85	70-130		
n-Butylbenzene	**19.1**	D	µg/l		20.0	BRL	96	70-130		
sec-Butylbenzene	**21.0**	D	µg/l		20.0	BRL	105	70-130		
tert-Butylbenzene	**21.0**	D	µg/l		20.0	BRL	105	70-130		
Carbon disulfide	**14.5**	QM7, D	µg/l		20.0	1.0	67	70-130		
Carbon tetrachloride	**15.9**	D	µg/l		20.0	BRL	79	70-130		
Chlorobenzene	**19.0**	D	µg/l		20.0	BRL	95	70-130		
Chloroethane	**13.5**	QM7, D	µg/l		20.0	BRL	68	70-130		
Chloroform	**17.4**	D	µg/l		20.0	BRL	87	70-130		
Chloromethane	**11.2**	QM7, D	µg/l		20.0	BRL	56	70-130		
2-Chlorotoluene	**19.7**	D	µg/l		20.0	BRL	99	70-130		
4-Chlorotoluene	**19.8**	D	µg/l		20.0	BRL	99	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602363 - SW846 5030 Water MS										
Matrix Spike (1602363-MS1)			**Source: SC17886-05**		Prepared & Analyzed: 09-Feb-16					
1,2-Dibromo-3-chloropropane	**18.8**	D	µg/l		20.0	BRL	94	70-130		
Dibromochloromethane	**19.1**	D	µg/l		20.0	BRL	95	70-130		
1,2-Dibromoethane (EDB)	**18.4**	D	µg/l		20.0	BRL	92	70-130		
Dibromomethane	**18.1**	D	µg/l		20.0	BRL	91	70-130		
1,2-Dichlorobenzene	**19.2**	D	µg/l		20.0	BRL	96	70-130		
1,3-Dichlorobenzene	**20.1**	D	µg/l		20.0	BRL	100	70-130		
1,4-Dichlorobenzene	**18.5**	D	µg/l		20.0	BRL	93	70-130		
Dichlorodifluoromethane (Freon12)	**11.7**	QM7, D	µg/l		20.0	BRL	59	70-130		
1,1-Dichloroethane	**18.0**	D	µg/l		20.0	BRL	90	70-130		
1,2-Dichloroethane	**17.6**	D	µg/l		20.0	BRL	88	70-130		
1,1-Dichloroethene	**14.7**	D	µg/l		20.0	BRL	74	70-130		
cis-1,2-Dichloroethene	**21.2**	D	µg/l		20.0	3.4	89	70-130		
trans-1,2-Dichloroethene	**16.9**	D	µg/l		20.0	BRL	85	70-130		
1,2-Dichloropropane	**18.0**	D	µg/l		20.0	BRL	90	70-130		
1,3-Dichloropropane	**18.2**	D	µg/l		20.0	BRL	91	70-130		
2,2-Dichloropropane	**13.3**	QM7, D	µg/l		20.0	BRL	67	70-130		
1,1-Dichloropropene	**17.4**	D	µg/l		20.0	BRL	87	70-130		
cis-1,3-Dichloropropene	**17.1**	D	µg/l		20.0	BRL	86	70-130		
trans-1,3-Dichloropropene	**16.2**	D	µg/l		20.0	BRL	81	70-130		
Ethylbenzene	**19.4**	D	µg/l		20.0	BRL	97	70-130		
Hexachlorobutadiene	**20.0**	D	µg/l		20.0	BRL	100	70-130		
2-Hexanone (MBK)	**18.5**	D	µg/l		20.0	BRL	93	70-130		
Isopropylbenzene	**20.0**	D	µg/l		20.0	BRL	100	70-130		
4-Isopropyltoluene	**19.6**	D	µg/l		20.0	BRL	98	70-130		
Methyl tert-butyl ether	**17.6**	D	µg/l		20.0	BRL	88	70-130		
4-Methyl-2-pentanone (MIBK)	**18.6**	D	µg/l		20.0	BRL	93	70-130		
Methylene chloride	**19.8**	D	µg/l		20.0	BRL	99	70-130		
Naphthalene	**11.2**	QC2, D	µg/l		20.0	BRL	56	70-130		
n-Propylbenzene	**19.9**	D	µg/l		20.0	BRL	99	70-130		
Styrene	**19.8**	D	µg/l		20.0	BRL	99	70-130		
1,1,1,2-Tetrachloroethane	**18.9**	D	µg/l		20.0	BRL	95	70-130		
1,1,2,2-Tetrachloroethane	**23.8**	D	µg/l		20.0	BRL	119	70-130		
Tetrachloroethene	**30.6**	D	µg/l		20.0	13.1	88	70-130		
Toluene	**18.0**	D	µg/l		20.0	BRL	90	70-130		
1,2,3-Trichlorobenzene	**14.6**	D	µg/l		20.0	BRL	73	70-130		
1,2,4-Trichlorobenzene	**14.2**	D	µg/l		20.0	BRL	71	70-130		
1,3,5-Trichlorobenzene	**18.7**	D	µg/l		20.0	BRL	93	70-130		
1,1,1-Trichloroethane	**17.8**	D	µg/l		20.0	BRL	89	70-130		
1,1,2-Trichloroethane	**19.4**	D	µg/l		20.0	BRL	97	70-130		
Trichloroethene	**17.8**	D	µg/l		20.0	1.2	83	70-130		
Trichlorofluoromethane (Freon 11)	**15.0**	D	µg/l		20.0	BRL	75	70-130		
1,2,3-Trichloropropane	**20.2**	D	µg/l		20.0	BRL	101	70-130		
1,2,4-Trimethylbenzene	**20.7**	D	µg/l		20.0	BRL	104	70-130		
1,3,5-Trimethylbenzene	**20.4**	D	µg/l		20.0	BRL	102	70-130		
Vinyl chloride	**13.9**	D	µg/l		20.0	BRL	70	70-130		
m,p-Xylene	**19.4**	D	µg/l		20.0	BRL	97	70-130		
o-Xylene	**20.1**	D	µg/l		20.0	BRL	100	70-130		
Tetrahydrofuran	**17.9**	D	µg/l		20.0	BRL	89	70-130		
Ethyl ether	**14.4**	D	µg/l		20.0	BRL	72	70-130		
Tert-amyl methyl ether	**16.1**	D	µg/l		20.0	BRL	81	70-130		
Ethyl tert-butyl ether	**17.0**	D	µg/l		20.0	BRL	85	70-130		
Di-isopropyl ether	**17.8**	D	µg/l		20.0	BRL	89	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602363 - SW846 5030 Water MS										
Matrix Spike (1602363-MS1)			**Source: SC17886-05**		Prepared & Analyzed: 09-Feb-16					
Tert-Butanol / butyl alcohol	**158**	D	µg/l		200	BRL	79	70-130		
1,4-Dioxane	**202**	D	µg/l		200	BRL	101	70-130		
trans-1,4-Dichloro-2-butene	**18.0**	D	µg/l		20.0	BRL	90	70-130		
Ethanol	**344**	D	µg/l		400	BRL	86	70-130		
Surrogate: 4-Bromofluorobenzene	*51.7*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*49.5*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.6*		µg/l		*50.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*50.2*		µg/l		*50.0*		*100*	*70-130*		
Matrix Spike Dup (1602363-MSD1)			**Source: SC17886-05**		Prepared & Analyzed: 09-Feb-16					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**18.7**	D	µg/l		20.0	BRL	94	70-130	1	20
Acetone	**16.8**	D	µg/l		20.0	BRL	84	70-130	6	20
Acrylonitrile	**15.8**	D	µg/l		20.0	BRL	79	70-130	2	20
Benzene	**18.0**	D	µg/l		20.0	BRL	90	70-130	3	20
Bromobenzene	**20.2**	D	µg/l		20.0	BRL	101	70-130	1	20
Bromochloromethane	**19.6**	D	µg/l		20.0	BRL	98	70-130	4	20
Bromodichloromethane	**18.6**	D	µg/l		20.0	BRL	93	70-130	4	20
Bromoform	**21.0**	D	µg/l		20.0	BRL	105	70-130	5	20
Bromomethane	**11.4**	QM7, D	µg/l		20.0	BRL	57	70-130	8	20
2-Butanone (MEK)	**18.6**	D	µg/l		20.0	BRL	93	70-130	8	20
n-Butylbenzene	**19.4**	D	µg/l		20.0	BRL	97	70-130	1	20
sec-Butylbenzene	**20.8**	D	µg/l		20.0	BRL	104	70-130	0.5	20
tert-Butylbenzene	**21.0**	D	µg/l		20.0	BRL	105	70-130	0.4	20
Carbon disulfide	**14.9**	D	µg/l		20.0	1.0	70	70-130	3	20
Carbon tetrachloride	**16.4**	D	µg/l		20.0	BRL	82	70-130	4	20
Chlorobenzene	**19.2**	D	µg/l		20.0	BRL	96	70-130	0.8	20
Chloroethane	**13.6**	QM7, D	µg/l		20.0	BRL	68	70-130	0.2	20
Chloroform	**18.2**	D	µg/l		20.0	BRL	91	70-130	4	20
Chloromethane	**11.3**	QM7, D	µg/l		20.0	BRL	56	70-130	0.6	20
2-Chlorotoluene	**20.0**	D	µg/l		20.0	BRL	100	70-130	1	20
4-Chlorotoluene	**19.5**	D	µg/l		20.0	BRL	98	70-130	1	20
1,2-Dibromo-3-chloropropane	**19.4**	D	µg/l		20.0	BRL	97	70-130	3	20
Dibromochloromethane	**20.0**	D	µg/l		20.0	BRL	100	70-130	5	20
1,2-Dibromoethane (EDB)	**19.2**	D	µg/l		20.0	BRL	96	70-130	5	20
Dibromomethane	**19.1**	D	µg/l		20.0	BRL	95	70-130	5	20
1,2-Dichlorobenzene	**19.9**	D	µg/l		20.0	BRL	100	70-130	4	20
1,3-Dichlorobenzene	**20.2**	D	µg/l		20.0	BRL	101	70-130	0.8	20
1,4-Dichlorobenzene	**18.8**	D	µg/l		20.0	BRL	94	70-130	1	20
Dichlorodifluoromethane (Freon12)	**12.3**	QM7, D	µg/l		20.0	BRL	62	70-130	5	20
1,1-Dichloroethane	**18.3**	D	µg/l		20.0	BRL	91	70-130	2	20
1,2-Dichloroethane	**18.1**	D	µg/l		20.0	BRL	91	70-130	3	20
1,1-Dichloroethene	**14.7**	D	µg/l		20.0	BRL	73	70-130	0.2	20
cis-1,2-Dichloroethene	**22.0**	D	µg/l		20.0	3.4	93	70-130	4	20
trans-1,2-Dichloroethene	**17.2**	D	µg/l		20.0	BRL	86	70-130	2	20
1,2-Dichloropropane	**18.5**	D	µg/l		20.0	BRL	92	70-130	3	20
1,3-Dichloropropane	**18.8**	D	µg/l		20.0	BRL	94	70-130	3	20
2,2-Dichloropropane	**13.9**	QM7, D	µg/l		20.0	BRL	69	70-130	4	20
1,1-Dichloropropene	**17.7**	D	µg/l		20.0	BRL	88	70-130	2	20
cis-1,3-Dichloropropene	**18.0**	D	µg/l		20.0	BRL	90	70-130	5	20
trans-1,3-Dichloropropene	**17.2**	D	µg/l		20.0	BRL	86	70-130	6	20
Ethylbenzene	**19.5**	D	µg/l		20.0	BRL	98	70-130	0.6	20
Hexachlorobutadiene	**20.0**	D	µg/l		20.0	BRL	100	70-130	0.05	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602363 - SW846 5030 Water MS										
Matrix Spike Dup (1602363-MSD1)			**Source: SC17886-05**		Prepared & Analyzed: 09-Feb-16					
2-Hexanone (MBK)	**18.8**	D	µg/l		20.0	BRL	94	70-130	2	20
Isopropylbenzene	**20.1**	D	µg/l		20.0	BRL	101	70-130	0.5	20
4-Isopropyltoluene	**20.0**	D	µg/l		20.0	BRL	100	70-130	2	20
Methyl tert-butyl ether	**18.3**	D	µg/l		20.0	BRL	92	70-130	4	20
4-Methyl-2-pentanone (MIBK)	**19.5**	D	µg/l		20.0	BRL	97	70-130	4	20
Methylene chloride	**19.9**	D	µg/l		20.0	BRL	99	70-130	0.6	20
Naphthalene	**11.8**	QC2, D	µg/l		20.0	BRL	59	70-130	6	20
n-Propylbenzene	**20.3**	D	µg/l		20.0	BRL	101	70-130	2	20
Styrene	**20.0**	D	µg/l		20.0	BRL	100	70-130	1	20
1,1,1,2-Tetrachloroethane	**19.2**	D	µg/l		20.0	BRL	96	70-130	1	20
1,1,2,2-Tetrachloroethane	**23.8**	D	µg/l		20.0	BRL	119	70-130	0.3	20
Tetrachloroethene	**30.9**	D	µg/l		20.0	13.1	89	70-130	1	20
Toluene	**18.4**	D	µg/l		20.0	BRL	92	70-130	2	20
1,2,3-Trichlorobenzene	**15.3**	D	µg/l		20.0	BRL	77	70-130	5	20
1,2,4-Trichlorobenzene	**14.4**	D	µg/l		20.0	BRL	72	70-130	1	20
1,3,5-Trichlorobenzene	**18.9**	D	µg/l		20.0	BRL	95	70-130	1	20
1,1,1-Trichloroethane	**18.1**	D	µg/l		20.0	BRL	90	70-130	2	20
1,1,2-Trichloroethane	**20.0**	D	µg/l		20.0	BRL	100	70-130	3	20
Trichloroethene	**18.0**	D	µg/l		20.0	1.2	84	70-130	1	20
Trichlorofluoromethane (Freon 11)	**15.2**	D	µg/l		20.0	BRL	76	70-130	1	20
1,2,3-Trichloropropane	**20.9**	D	µg/l		20.0	BRL	104	70-130	3	20
1,2,4-Trimethylbenzene	**20.8**	D	µg/l		20.0	BRL	104	70-130	0.2	20
1,3,5-Trimethylbenzene	**20.7**	D	µg/l		20.0	BRL	104	70-130	1	20
Vinyl chloride	**10.8**	QM7, QR5, D	µg/l		20.0	BRL	54	70-130	25	20
m,p-Xylene	**19.8**	D	µg/l		20.0	BRL	99	70-130	2	20
o-Xylene	**20.1**	D	µg/l		20.0	BRL	101	70-130	0.1	20
Tetrahydrofuran	**18.4**	D	µg/l		20.0	BRL	92	70-130	3	20
Ethyl ether	**14.6**	D	µg/l		20.0	BRL	73	70-130	1	20
Tert-amyl methyl ether	**16.6**	D	µg/l		20.0	BRL	83	70-130	3	20
Ethyl tert-butyl ether	**17.5**	D	µg/l		20.0	BRL	87	70-130	3	20
Di-isopropyl ether	**18.3**	D	µg/l		20.0	BRL	91	70-130	2	20
Tert-Butanol / butyl alcohol	**165**	D	µg/l		200	BRL	83	70-130	4	20
1,4-Dioxane	**208**	D	µg/l		200	BRL	104	70-130	3	20
trans-1,4-Dichloro-2-butene	**17.6**	D	µg/l		20.0	BRL	88	70-130	2	20
Ethanol	**364**	D	µg/l		400	BRL	91	70-130	6	20
Surrogate: 4-Bromofluorobenzene	*51.1*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*50.2*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.1*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*50.9*		µg/l		*50.0*		*102*	*70-130*		
Batch 1602364 - SW846 5030 Water MS										
Blank (1602364-BLK1)					Prepared & Analyzed: 09-Feb-16					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.5		µg/l	0.5						
Benzene	< 1.0		µg/l	1.0						
Bromobenzene	< 1.0		µg/l	1.0						
Bromochloromethane	< 1.0		µg/l	1.0						
Bromodichloromethane	< 0.5		µg/l	0.5						
Bromoform	< 1.0		µg/l	1.0						
Bromomethane	< 2.0		µg/l	2.0						
2-Butanone (MEK)	< 10.0		µg/l	10.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602364 - SW846 5030 Water MS										
Blank (1602364-BLK1)					Prepared & Analyzed: 09-Feb-16					
n-Butylbenzene	< 1.0		µg/l	1.0						
sec-Butylbenzene	< 1.0		µg/l	1.0						
tert-Butylbenzene	< 1.0		µg/l	1.0						
Carbon disulfide	< 2.0		µg/l	2.0						
Carbon tetrachloride	< 1.0		µg/l	1.0						
Chlorobenzene	< 1.0		µg/l	1.0						
Chloroethane	< 2.0		µg/l	2.0						
Chloroform	< 1.0		µg/l	1.0						
Chloromethane	< 2.0		µg/l	2.0						
2-Chlorotoluene	< 1.0		µg/l	1.0						
4-Chlorotoluene	< 1.0		µg/l	1.0						
1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0						
Dibromochloromethane	< 0.5		µg/l	0.5						
1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5						
Dibromomethane	< 1.0		µg/l	1.0						
1,2-Dichlorobenzene	< 1.0		µg/l	1.0						
1,3-Dichlorobenzene	< 1.0		µg/l	1.0						
1,4-Dichlorobenzene	< 1.0		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0						
1,1-Dichloroethane	< 1.0		µg/l	1.0						
1,2-Dichloroethane	< 1.0		µg/l	1.0						
1,1-Dichloroethene	< 1.0		µg/l	1.0						
cis-1,2-Dichloroethene	< 1.0		µg/l	1.0						
trans-1,2-Dichloroethene	< 1.0		µg/l	1.0						
1,2-Dichloropropane	< 1.0		µg/l	1.0						
1,3-Dichloropropane	< 1.0		µg/l	1.0						
2,2-Dichloropropane	< 1.0		µg/l	1.0						
1,1-Dichloropropene	< 1.0		µg/l	1.0						
cis-1,3-Dichloropropene	< 0.5		µg/l	0.5						
trans-1,3-Dichloropropene	< 0.5		µg/l	0.5						
Ethylbenzene	< 1.0		µg/l	1.0						
Hexachlorobutadiene	< 0.5		µg/l	0.5						
2-Hexanone (MBK)	< 10.0		µg/l	10.0						
Isopropylbenzene	< 1.0		µg/l	1.0						
4-Isopropyltoluene	< 1.0		µg/l	1.0						
Methyl tert-butyl ether	< 1.0		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0						
Methylene chloride	< 2.0		µg/l	2.0						
Naphthalene	< 1.0		µg/l	1.0						
n-Propylbenzene	< 1.0		µg/l	1.0						
Styrene	< 1.0		µg/l	1.0						
1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0						
1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5						
Tetrachloroethene	< 1.0		µg/l	1.0						
Toluene	< 1.0		µg/l	1.0						
1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0						
1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0						
1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0						
1,1,1-Trichloroethane	< 1.0		µg/l	1.0						
1,1,2-Trichloroethane	< 1.0		µg/l	1.0						
Trichloroethene	< 1.0		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602364 - SW846 5030 Water MS										
Blank (1602364-BLK1)						Prepared & Analyzed: 09-Feb-16				
1,2,3-Trichloropropane	< 1.0		µg/l	1.0						
1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0						
1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0						
Vinyl chloride	< 1.0		µg/l	1.0						
m,p-Xylene	< 2.0		µg/l	2.0						
o-Xylene	< 1.0		µg/l	1.0						
Tetrahydrofuran	< 2.0		µg/l	2.0						
Ethyl ether	< 1.0		µg/l	1.0						
Tert-amyl methyl ether	< 1.0		µg/l	1.0						
Ethyl tert-butyl ether	< 1.0		µg/l	1.0						
Di-isopropyl ether	< 1.0		µg/l	1.0						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	< 20.0		µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0						
Ethanol	< 400		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*45.4*		µg/l		*50.0*		*91*	*70-130*		
Surrogate: Toluene-d8	*48.9*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.4*		µg/l		*50.0*		*109*	*70-130*		
Surrogate: Dibromofluoromethane	*52.8*		µg/l		*50.0*		*106*	*70-130*		
LCS (1602364-BS1)						Prepared & Analyzed: 09-Feb-16				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**25.5**		µg/l		20.0		128	70-130		
Acetone	**23.3**		µg/l		20.0		116	70-130		
Acrylonitrile	**22.2**		µg/l		20.0		111	70-130		
Benzene	**22.1**		µg/l		20.0		110	70-130		
Bromobenzene	**21.8**		µg/l		20.0		109	70-130		
Bromochloromethane	**23.7**		µg/l		20.0		119	70-130		
Bromodichloromethane	**20.9**		µg/l		20.0		105	70-130		
Bromoform	**23.7**		µg/l		20.0		119	70-130		
Bromomethane	**20.4**		µg/l		20.0		102	70-130		
2-Butanone (MEK)	**20.9**		µg/l		20.0		104	70-130		
n-Butylbenzene	**25.2**		µg/l		20.0		126	70-130		
sec-Butylbenzene	**22.5**		µg/l		20.0		112	70-130		
tert-Butylbenzene	**26.5**	QM9	µg/l		20.0		132	70-130		
Carbon disulfide	**22.6**		µg/l		20.0		113	70-130		
Carbon tetrachloride	**25.3**		µg/l		20.0		127	70-130		
Chlorobenzene	**20.8**		µg/l		20.0		104	70-130		
Chloroethane	**21.1**		µg/l		20.0		106	70-130		
Chloroform	**21.4**		µg/l		20.0		107	70-130		
Chloromethane	**18.7**		µg/l		20.0		94	70-130		
2-Chlorotoluene	**23.7**		µg/l		20.0		119	70-130		
4-Chlorotoluene	**23.7**		µg/l		20.0		118	70-130		
1,2-Dibromo-3-chloropropane	**21.3**		µg/l		20.0		106	70-130		
Dibromochloromethane	**21.1**		µg/l		20.0		106	70-130		
1,2-Dibromoethane (EDB)	**21.6**		µg/l		20.0		108	70-130		
Dibromomethane	**22.2**		µg/l		20.0		111	70-130		
1,2-Dichlorobenzene	**21.8**		µg/l		20.0		109	70-130		
1,3-Dichlorobenzene	**22.6**		µg/l		20.0		113	70-130		
1,4-Dichlorobenzene	**19.9**		µg/l		20.0		100	70-130		
Dichlorodifluoromethane (Freon12)	**24.2**		µg/l		20.0		121	70-130		
1,1-Dichloroethane	**21.2**		µg/l		20.0		106	70-130		
1,2-Dichloroethane	**20.4**		µg/l		20.0		102	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602364 - SW846 5030 Water MS										
LCS (1602364-BS1)						Prepared & Analyzed: 09-Feb-16				
1,1-Dichloroethene	**24.2**		µg/l		20.0		121	70-130		
cis-1,2-Dichloroethene	**22.0**		µg/l		20.0		110	70-130		
trans-1,2-Dichloroethene	**22.3**		µg/l		20.0		111	70-130		
1,2-Dichloropropane	**21.1**		µg/l		20.0		105	70-130		
1,3-Dichloropropane	**20.6**		µg/l		20.0		103	70-130		
2,2-Dichloropropane	**23.2**		µg/l		20.0		116	70-130		
1,1-Dichloropropene	**24.8**		µg/l		20.0		124	70-130		
cis-1,3-Dichloropropene	**22.0**		µg/l		20.0		110	70-130		
trans-1,3-Dichloropropene	**21.6**		µg/l		20.0		108	70-130		
Ethylbenzene	**23.1**		µg/l		20.0		115	70-130		
Hexachlorobutadiene	**24.2**		µg/l		20.0		121	70-130		
2-Hexanone (MBK)	**21.2**		µg/l		20.0		106	70-130		
Isopropylbenzene	**24.0**		µg/l		20.0		120	70-130		
4-Isopropyltoluene	**24.3**		µg/l		20.0		121	70-130		
Methyl tert-butyl ether	**21.4**		µg/l		20.0		107	70-130		
4-Methyl-2-pentanone (MIBK)	**23.3**		µg/l		20.0		116	70-130		
Methylene chloride	**20.9**		µg/l		20.0		104	70-130		
Naphthalene	**17.9**		µg/l		20.0		89	70-130		
n-Propylbenzene	**24.2**		µg/l		20.0		121	70-130		
Styrene	**23.4**		µg/l		20.0		117	70-130		
1,1,1,2-Tetrachloroethane	**21.8**		µg/l		20.0		109	70-130		
1,1,2,2-Tetrachloroethane	**21.6**		µg/l		20.0		108	70-130		
Tetrachloroethene	**23.7**		µg/l		20.0		118	70-130		
Toluene	**21.3**		µg/l		20.0		107	70-130		
1,2,3-Trichlorobenzene	**23.8**		µg/l		20.0		119	70-130		
1,2,4-Trichlorobenzene	**22.9**		µg/l		20.0		114	70-130		
1,3,5-Trichlorobenzene	**23.5**		µg/l		20.0		117	70-130		
1,1,1-Trichloroethane	**24.0**		µg/l		20.0		120	70-130		
1,1,2-Trichloroethane	**21.2**		µg/l		20.0		106	70-130		
Trichloroethene	**22.3**		µg/l		20.0		111	70-130		
Trichlorofluoromethane (Freon 11)	**25.9**		µg/l		20.0		130	70-130		
1,2,3-Trichloropropane	**21.3**		µg/l		20.0		107	70-130		
1,2,4-Trimethylbenzene	**26.1**	QM9	µg/l		20.0		131	70-130		
1,3,5-Trimethylbenzene	**26.8**	QM9	µg/l		20.0		134	70-130		
Vinyl chloride	**22.9**		µg/l		20.0		115	70-130		
m,p-Xylene	**24.9**		µg/l		20.0		124	70-130		
o-Xylene	**25.0**		µg/l		20.0		125	70-130		
Tetrahydrofuran	**20.4**		µg/l		20.0		102	70-130		
Ethyl ether	**21.4**		µg/l		20.0		107	70-130		
Tert-amyl methyl ether	**23.4**		µg/l		20.0		117	70-130		
Ethyl tert-butyl ether	**21.3**		µg/l		20.0		106	70-130		
Di-isopropyl ether	**21.6**		µg/l		20.0		108	70-130		
Tert-Butanol / butyl alcohol	**198**		µg/l		200		99	70-130		
1,4-Dioxane	**239**		µg/l		200		120	70-130		
trans-1,4-Dichloro-2-butene	**20.7**		µg/l		20.0		103	70-130		
Ethanol	**415**		µg/l		400		104	70-130		
Surrogate: 4-Bromofluorobenzene	*51.2*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*49.5*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.6*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*50.5*		µg/l		*50.0*		*101*	*70-130*		
LCS Dup (1602364-BSD1)						Prepared & Analyzed: 09-Feb-16				

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602364 - SW846 5030 Water MS										
LCS Dup (1602364-BSD1)					Prepared & Analyzed: 09-Feb-16					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**23.1**		µg/l		20.0		115	70-130	10	20
Acetone	**21.9**		µg/l		20.0		110	70-130	6	20
Acrylonitrile	**21.2**		µg/l		20.0		106	70-130	5	20
Benzene	**20.7**		µg/l		20.0		104	70-130	7	20
Bromobenzene	**20.7**		µg/l		20.0		104	70-130	5	20
Bromochloromethane	**22.6**		µg/l		20.0		113	70-130	5	20
Bromodichloromethane	**19.9**		µg/l		20.0		100	70-130	5	20
Bromoform	**22.8**		µg/l		20.0		114	70-130	4	20
Bromomethane	**19.4**		µg/l		20.0		97	70-130	5	20
2-Butanone (MEK)	**22.1**		µg/l		20.0		111	70-130	6	20
n-Butylbenzene	**22.4**		µg/l		20.0		112	70-130	12	20
sec-Butylbenzene	**21.4**		µg/l		20.0		107	70-130	5	20
tert-Butylbenzene	**24.7**		µg/l		20.0		124	70-130	7	20
Carbon disulfide	**20.8**		µg/l		20.0		104	70-130	8	20
Carbon tetrachloride	**23.4**		µg/l		20.0		117	70-130	8	20
Chlorobenzene	**19.8**		µg/l		20.0		99	70-130	5	20
Chloroethane	**19.4**		µg/l		20.0		97	70-130	8	20
Chloroform	**20.1**		µg/l		20.0		100	70-130	6	20
Chloromethane	**17.9**		µg/l		20.0		90	70-130	4	20
2-Chlorotoluene	**22.6**		µg/l		20.0		113	70-130	5	20
4-Chlorotoluene	**22.4**		µg/l		20.0		112	70-130	6	20
1,2-Dibromo-3-chloropropane	**20.1**		µg/l		20.0		100	70-130	6	20
Dibromochloromethane	**20.4**		µg/l		20.0		102	70-130	3	20
1,2-Dibromoethane (EDB)	**21.0**		µg/l		20.0		105	70-130	3	20
Dibromomethane	**21.4**		µg/l		20.0		107	70-130	4	20
1,2-Dichlorobenzene	**19.8**		µg/l		20.0		99	70-130	9	20
1,3-Dichlorobenzene	**21.7**		µg/l		20.0		109	70-130	4	20
1,4-Dichlorobenzene	**18.1**		µg/l		20.0		91	70-130	9	20
Dichlorodifluoromethane (Freon12)	**22.8**		µg/l		20.0		114	70-130	6	20
1,1-Dichloroethane	**20.0**		µg/l		20.0		100	70-130	6	20
1,2-Dichloroethane	**19.6**		µg/l		20.0		98	70-130	4	20
1,1-Dichloroethene	**22.3**		µg/l		20.0		112	70-130	8	20
cis-1,2-Dichloroethene	**21.0**		µg/l		20.0		105	70-130	5	20
trans-1,2-Dichloroethene	**20.9**		µg/l		20.0		105	70-130	6	20
1,2-Dichloropropane	**19.8**		µg/l		20.0		99	70-130	6	20
1,3-Dichloropropane	**19.3**		µg/l		20.0		97	70-130	6	20
2,2-Dichloropropane	**21.2**		µg/l		20.0		106	70-130	9	20
1,1-Dichloropropene	**22.8**		µg/l		20.0		114	70-130	8	20
cis-1,3-Dichloropropene	**21.1**		µg/l		20.0		105	70-130	5	20
trans-1,3-Dichloropropene	**21.1**		µg/l		20.0		106	70-130	2	20
Ethylbenzene	**21.7**		µg/l		20.0		108	70-130	6	20
Hexachlorobutadiene	**22.0**		µg/l		20.0		110	70-130	10	20
2-Hexanone (MBK)	**21.0**		µg/l		20.0		105	70-130	1	20
Isopropylbenzene	**22.6**		µg/l		20.0		113	70-130	6	20
4-Isopropyltoluene	**21.9**		µg/l		20.0		110	70-130	10	20
Methyl tert-butyl ether	**20.8**		µg/l		20.0		104	70-130	3	20
4-Methyl-2-pentanone (MIBK)	**22.6**		µg/l		20.0		113	70-130	3	20
Methylene chloride	**19.9**		µg/l		20.0		100	70-130	5	20
Naphthalene	**16.6**		µg/l		20.0		83	70-130	7	20
n-Propylbenzene	**22.8**		µg/l		20.0		114	70-130	6	20
Styrene	**22.2**		µg/l		20.0		111	70-130	5	20
1,1,1,2-Tetrachloroethane	**21.0**		µg/l		20.0		105	70-130	4	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602364 - SW846 5030 Water MS										
LCS Dup (1602364-BSD1)					Prepared & Analyzed: 09-Feb-16					
1,1,2,2-Tetrachloroethane	**20.8**		µg/l		20.0		104	70-130	3	20
Tetrachloroethene	**22.0**		µg/l		20.0		110	70-130	7	20
Toluene	**20.2**		µg/l		20.0		101	70-130	5	20
1,2,3-Trichlorobenzene	**21.7**		µg/l		20.0		108	70-130	9	20
1,2,4-Trichlorobenzene	**21.1**		µg/l		20.0		105	70-130	8	20
1,3,5-Trichlorobenzene	**21.2**		µg/l		20.0		106	70-130	10	20
1,1,1-Trichloroethane	**22.5**		µg/l		20.0		112	70-130	7	20
1,1,2-Trichloroethane	**20.4**		µg/l		20.0		102	70-130	4	20
Trichloroethene	**20.9**		µg/l		20.0		105	70-130	6	20
Trichlorofluoromethane (Freon 11)	**23.7**		µg/l		20.0		118	70-130	9	20
1,2,3-Trichloropropane	**20.5**		µg/l		20.0		103	70-130	4	20
1,2,4-Trimethylbenzene	**25.0**		µg/l		20.0		125	70-130	5	20
1,3,5-Trimethylbenzene	**25.5**		µg/l		20.0		128	70-130	5	20
Vinyl chloride	**21.3**		µg/l		20.0		107	70-130	7	20
m,p-Xylene	**23.4**		µg/l		20.0		117	70-130	6	20
o-Xylene	**24.0**		µg/l		20.0		120	70-130	4	20
Tetrahydrofuran	**20.6**		µg/l		20.0		103	70-130	1	20
Ethyl ether	**20.6**		µg/l		20.0		103	70-130	3	20
Tert-amyl methyl ether	**22.7**		µg/l		20.0		113	70-130	3	20
Ethyl tert-butyl ether	**20.6**		µg/l		20.0		103	70-130	3	20
Di-isopropyl ether	**20.8**		µg/l		20.0		104	70-130	4	20
Tert-Butanol / butyl alcohol	**195**		µg/l		200		98	70-130	1	20
1,4-Dioxane	**229**		µg/l		200		114	70-130	4	20
trans-1,4-Dichloro-2-butene	**20.3**		µg/l		20.0		102	70-130	2	20
Ethanol	**393**		µg/l		400		98	70-130	6	20
Surrogate: 4-Bromofluorobenzene	*52.2*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*49.9*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.2*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*49.8*		µg/l		*50.0*		*100*	*70-130*		
Batch 1602521 - SW846 5030 Water MS										
Blank (1602521-BLK1)					Prepared & Analyzed: 11-Feb-16					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.5		µg/l	0.5						
Benzene	< 1.0		µg/l	1.0						
Bromobenzene	< 1.0		µg/l	1.0						
Bromochloromethane	< 1.0		µg/l	1.0						
Bromodichloromethane	< 0.5		µg/l	0.5						
Bromoform	< 1.0		µg/l	1.0						
Bromomethane	< 2.0		µg/l	2.0						
2-Butanone (MEK)	< 10.0		µg/l	10.0						
n-Butylbenzene	< 1.0		µg/l	1.0						
sec-Butylbenzene	< 1.0		µg/l	1.0						
tert-Butylbenzene	< 1.0		µg/l	1.0						
Carbon disulfide	< 2.0		µg/l	2.0						
Carbon tetrachloride	< 1.0		µg/l	1.0						
Chlorobenzene	< 1.0		µg/l	1.0						
Chloroethane	< 2.0		µg/l	2.0						
Chloroform	< 1.0		µg/l	1.0						
Chloromethane	< 2.0		µg/l	2.0						
2-Chlorotoluene	< 1.0		µg/l	1.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602521 - SW846 5030 Water MS										
Blank (1602521-BLK1)					Prepared & Analyzed: 11-Feb-16					
4-Chlorotoluene	< 1.0		µg/l	1.0						
1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0						
Dibromochloromethane	< 0.5		µg/l	0.5						
1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5						
Dibromomethane	< 1.0		µg/l	1.0						
1,2-Dichlorobenzene	< 1.0		µg/l	1.0						
1,3-Dichlorobenzene	< 1.0		µg/l	1.0						
1,4-Dichlorobenzene	< 1.0		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0						
1,1-Dichloroethane	< 1.0		µg/l	1.0						
1,2-Dichloroethane	< 1.0		µg/l	1.0						
1,1-Dichloroethene	< 1.0		µg/l	1.0						
cis-1,2-Dichloroethene	< 1.0		µg/l	1.0						
trans-1,2-Dichloroethene	< 1.0		µg/l	1.0						
1,2-Dichloropropane	< 1.0		µg/l	1.0						
1,3-Dichloropropane	< 1.0		µg/l	1.0						
2,2-Dichloropropane	< 1.0		µg/l	1.0						
1,1-Dichloropropene	< 1.0		µg/l	1.0						
cis-1,3-Dichloropropene	< 0.5		µg/l	0.5						
trans-1,3-Dichloropropene	< 0.5		µg/l	0.5						
Ethylbenzene	< 1.0		µg/l	1.0						
Hexachlorobutadiene	< 0.5		µg/l	0.5						
2-Hexanone (MBK)	< 10.0		µg/l	10.0						
Isopropylbenzene	< 1.0		µg/l	1.0						
4-Isopropyltoluene	< 1.0		µg/l	1.0						
Methyl tert-butyl ether	< 1.0		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0						
Methylene chloride	< 2.0		µg/l	2.0						
Naphthalene	< 1.0		µg/l	1.0						
n-Propylbenzene	< 1.0		µg/l	1.0						
Styrene	< 1.0		µg/l	1.0						
1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0						
1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5						
Tetrachloroethene	< 1.0		µg/l	1.0						
Toluene	< 1.0		µg/l	1.0						
1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0						
1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0						
1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0						
1,1,1-Trichloroethane	< 1.0		µg/l	1.0						
1,1,2-Trichloroethane	< 1.0		µg/l	1.0						
Trichloroethene	< 1.0		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0						
1,2,3-Trichloropropane	< 1.0		µg/l	1.0						
1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0						
1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0						
Vinyl chloride	< 1.0		µg/l	1.0						
m,p-Xylene	< 2.0		µg/l	2.0						
o-Xylene	< 1.0		µg/l	1.0						
Tetrahydrofuran	< 2.0		µg/l	2.0						
Ethyl ether	< 1.0		µg/l	1.0						
Tert-amyl methyl ether	< 1.0		µg/l	1.0						
Ethyl tert-butyl ether	< 1.0		µg/l	1.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602521 - SW846 5030 Water MS										
Blank (1602521-BLK1)						Prepared & Analyzed: 11-Feb-16				
Di-isopropyl ether	< 1.0		µg/l	1.0						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	< 20.0		µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0						
Ethanol	< 400		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*46.5*		µg/l		*50.0*		*93*	*70-130*		
Surrogate: Toluene-d8	*50.4*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*52.2*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Dibromofluoromethane	*52.0*		µg/l		*50.0*		*104*	*70-130*		
LCS (1602521-BS1)						Prepared & Analyzed: 11-Feb-16				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.1**		µg/l		20.0		101	70-130		
Acetone	**20.4**		µg/l		20.0		102	70-130		
Acrylonitrile	**21.0**		µg/l		20.0		105	70-130		
Benzene	**22.1**		µg/l		20.0		110	70-130		
Bromobenzene	**21.3**		µg/l		20.0		106	70-130		
Bromochloromethane	**21.5**		µg/l		20.0		108	70-130		
Bromodichloromethane	**22.0**		µg/l		20.0		110	70-130		
Bromoform	**20.4**		µg/l		20.0		102	70-130		
Bromomethane	**20.4**		µg/l		20.0		102	70-130		
2-Butanone (MEK)	**21.0**		µg/l		20.0		105	70-130		
n-Butylbenzene	**18.6**		µg/l		20.0		93	70-130		
sec-Butylbenzene	**19.5**		µg/l		20.0		98	70-130		
tert-Butylbenzene	**19.8**		µg/l		20.0		99	70-130		
Carbon disulfide	**20.3**		µg/l		20.0		102	70-130		
Carbon tetrachloride	**20.2**		µg/l		20.0		101	70-130		
Chlorobenzene	**20.1**		µg/l		20.0		100	70-130		
Chloroethane	**21.1**		µg/l		20.0		106	70-130		
Chloroform	**20.6**		µg/l		20.0		103	70-130		
Chloromethane	**19.7**		µg/l		20.0		99	70-130		
2-Chlorotoluene	**22.0**		µg/l		20.0		110	70-130		
4-Chlorotoluene	**19.9**		µg/l		20.0		99	70-130		
1,2-Dibromo-3-chloropropane	**20.4**		µg/l		20.0		102	70-130		
Dibromochloromethane	**20.7**		µg/l		20.0		104	70-130		
1,2-Dibromoethane (EDB)	**22.2**		µg/l		20.0		111	70-130		
Dibromomethane	**21.3**		µg/l		20.0		107	70-130		
1,2-Dichlorobenzene	**21.1**		µg/l		20.0		105	70-130		
1,3-Dichlorobenzene	**21.8**		µg/l		20.0		109	70-130		
1,4-Dichlorobenzene	**19.2**		µg/l		20.0		96	70-130		
Dichlorodifluoromethane (Freon12)	**21.0**		µg/l		20.0		105	70-130		
1,1-Dichloroethane	**21.0**		µg/l		20.0		105	70-130		
1,2-Dichloroethane	**20.8**		µg/l		20.0		104	70-130		
1,1-Dichloroethene	**22.6**		µg/l		20.0		113	70-130		
cis-1,2-Dichloroethene	**21.0**		µg/l		20.0		105	70-130		
trans-1,2-Dichloroethene	**21.1**		µg/l		20.0		106	70-130		
1,2-Dichloropropane	**21.7**		µg/l		20.0		109	70-130		
1,3-Dichloropropane	**21.5**		µg/l		20.0		107	70-130		
2,2-Dichloropropane	**17.9**		µg/l		20.0		90	70-130		
1,1-Dichloropropene	**20.2**		µg/l		20.0		101	70-130		
cis-1,3-Dichloropropene	**20.0**		µg/l		20.0		100	70-130		
trans-1,3-Dichloropropene	**20.4**		µg/l		20.0		102	70-130		
Ethylbenzene	**21.9**		µg/l		20.0		110	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602521 - SW846 5030 Water MS										
LCS (1602521-BS1)						Prepared & Analyzed: 11-Feb-16				
Hexachlorobutadiene	**20.5**		µg/l		20.0		103	70-130		
2-Hexanone (MBK)	**21.6**		µg/l		20.0		108	70-130		
Isopropylbenzene	**21.1**		µg/l		20.0		106	70-130		
4-Isopropyltoluene	**19.5**		µg/l		20.0		97	70-130		
Methyl tert-butyl ether	**18.7**		µg/l		20.0		93	70-130		
4-Methyl-2-pentanone (MIBK)	**22.8**		µg/l		20.0		114	70-130		
Methylene chloride	**20.2**		µg/l		20.0		101	70-130		
Naphthalene	**21.9**		µg/l		20.0		110	70-130		
n-Propylbenzene	**19.5**		µg/l		20.0		98	70-130		
Styrene	**20.1**		µg/l		20.0		101	70-130		
1,1,1,2-Tetrachloroethane	**21.3**		µg/l		20.0		107	70-130		
1,1,2,2-Tetrachloroethane	**21.1**		µg/l		20.0		105	70-130		
Tetrachloroethene	**20.9**		µg/l		20.0		104	70-130		
Toluene	**21.6**		µg/l		20.0		108	70-130		
1,2,3-Trichlorobenzene	**22.1**		µg/l		20.0		110	70-130		
1,2,4-Trichlorobenzene	**21.0**		µg/l		20.0		105	70-130		
1,3,5-Trichlorobenzene	**19.6**		µg/l		20.0		98	70-130		
1,1,1-Trichloroethane	**21.7**		µg/l		20.0		109	70-130		
1,1,2-Trichloroethane	**21.2**		µg/l		20.0		106	70-130		
Trichloroethene	**21.5**		µg/l		20.0		107	70-130		
Trichlorofluoromethane (Freon 11)	**20.8**		µg/l		20.0		104	70-130		
1,2,3-Trichloropropane	**21.6**		µg/l		20.0		108	70-130		
1,2,4-Trimethylbenzene	**19.6**		µg/l		20.0		98	70-130		
1,3,5-Trimethylbenzene	**19.8**		µg/l		20.0		99	70-130		
Vinyl chloride	**20.6**		µg/l		20.0		103	70-130		
m,p-Xylene	**20.0**		µg/l		20.0		100	70-130		
o-Xylene	**20.6**		µg/l		20.0		103	70-130		
Tetrahydrofuran	**19.0**		µg/l		20.0		95	70-130		
Ethyl ether	**21.5**		µg/l		20.0		108	70-130		
Tert-amyl methyl ether	**22.1**		µg/l		20.0		110	70-130		
Ethyl tert-butyl ether	**18.5**		µg/l		20.0		92	70-130		
Di-isopropyl ether	**20.5**		µg/l		20.0		103	70-130		
Tert-Butanol / butyl alcohol	**186**		µg/l		200		93	70-130		
1,4-Dioxane	**210**		µg/l		200		105	70-130		
trans-1,4-Dichloro-2-butene	**20.4**		µg/l		20.0		102	70-130		
Ethanol	**466**		µg/l		400		117	70-130		
Surrogate: 4-Bromofluorobenzene	*51.1*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*50.8*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.9*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*50.2*		µg/l		*50.0*		*100*	*70-130*		
LCS Dup (1602521-BSD1)						Prepared & Analyzed: 11-Feb-16				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**21.4**		µg/l		20.0		107	70-130	6	20
Acetone	**21.5**		µg/l		20.0		108	70-130	6	20
Acrylonitrile	**21.4**		µg/l		20.0		107	70-130	1	20
Benzene	**22.9**		µg/l		20.0		114	70-130	4	20
Bromobenzene	**21.7**		µg/l		20.0		109	70-130	2	20
Bromochloromethane	**22.0**		µg/l		20.0		110	70-130	2	20
Bromodichloromethane	**22.9**		µg/l		20.0		114	70-130	4	20
Bromoform	**21.0**		µg/l		20.0		105	70-130	3	20
Bromomethane	**20.7**		µg/l		20.0		103	70-130	1	20
2-Butanone (MEK)	**22.0**		µg/l		20.0		110	70-130	5	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602521 - SW846 5030 Water MS										
LCS Dup (1602521-BSD1)					Prepared & Analyzed: 11-Feb-16					
n-Butylbenzene	**20.2**		µg/l		20.0		101	70-130	9	20
sec-Butylbenzene	**21.0**		µg/l		20.0		105	70-130	7	20
tert-Butylbenzene	**21.2**		µg/l		20.0		106	70-130	6	20
Carbon disulfide	**21.6**		µg/l		20.0		108	70-130	6	20
Carbon tetrachloride	**21.6**		µg/l		20.0		108	70-130	7	20
Chlorobenzene	**20.9**		µg/l		20.0		104	70-130	4	20
Chloroethane	**21.7**		µg/l		20.0		108	70-130	2	20
Chloroform	**21.2**		µg/l		20.0		106	70-130	3	20
Chloromethane	**21.1**		µg/l		20.0		106	70-130	7	20
2-Chlorotoluene	**22.9**		µg/l		20.0		115	70-130	4	20
4-Chlorotoluene	**21.0**		µg/l		20.0		105	70-130	5	20
1,2-Dibromo-3-chloropropane	**20.1**		µg/l		20.0		100	70-130	1	20
Dibromochloromethane	**21.0**		µg/l		20.0		105	70-130	2	20
1,2-Dibromoethane (EDB)	**22.7**		µg/l		20.0		114	70-130	2	20
Dibromomethane	**22.2**		µg/l		20.0		111	70-130	4	20
1,2-Dichlorobenzene	**21.8**		µg/l		20.0		109	70-130	3	20
1,3-Dichlorobenzene	**22.6**		µg/l		20.0		113	70-130	4	20
1,4-Dichlorobenzene	**20.2**		µg/l		20.0		101	70-130	5	20
Dichlorodifluoromethane (Freon12)	**21.9**		µg/l		20.0		110	70-130	4	20
1,1-Dichloroethane	**21.8**		µg/l		20.0		109	70-130	4	20
1,2-Dichloroethane	**21.2**		µg/l		20.0		106	70-130	2	20
1,1-Dichloroethene	**24.3**		µg/l		20.0		122	70-130	7	20
cis-1,2-Dichloroethene	**21.6**		µg/l		20.0		108	70-130	2	20
trans-1,2-Dichloroethene	**22.1**		µg/l		20.0		110	70-130	4	20
1,2-Dichloropropane	**21.8**		µg/l		20.0		109	70-130	0.6	20
1,3-Dichloropropane	**21.7**		µg/l		20.0		109	70-130	1	20
2,2-Dichloropropane	**18.8**		µg/l		20.0		94	70-130	5	20
1,1-Dichloropropene	**21.6**		µg/l		20.0		108	70-130	7	20
cis-1,3-Dichloropropene	**20.6**		µg/l		20.0		103	70-130	3	20
trans-1,3-Dichloropropene	**20.7**		µg/l		20.0		104	70-130	2	20
Ethylbenzene	**23.4**		µg/l		20.0		117	70-130	6	20
Hexachlorobutadiene	**22.1**		µg/l		20.0		110	70-130	7	20
2-Hexanone (MBK)	**22.5**		µg/l		20.0		112	70-130	4	20
Isopropylbenzene	**22.3**		µg/l		20.0		111	70-130	5	20
4-Isopropyltoluene	**20.5**		µg/l		20.0		103	70-130	5	20
Methyl tert-butyl ether	**19.3**		µg/l		20.0		97	70-130	3	20
4-Methyl-2-pentanone (MIBK)	**23.2**		µg/l		20.0		116	70-130	2	20
Methylene chloride	**20.5**		µg/l		20.0		103	70-130	2	20
Naphthalene	**23.3**		µg/l		20.0		116	70-130	6	20
n-Propylbenzene	**21.2**		µg/l		20.0		106	70-130	8	20
Styrene	**21.0**		µg/l		20.0		105	70-130	4	20
1,1,1,2-Tetrachloroethane	**22.4**		µg/l		20.0		112	70-130	5	20
1,1,2,2-Tetrachloroethane	**21.9**		µg/l		20.0		110	70-130	4	20
Tetrachloroethene	**22.0**		µg/l		20.0		110	70-130	5	20
Toluene	**22.3**		µg/l		20.0		111	70-130	3	20
1,2,3-Trichlorobenzene	**23.2**		µg/l		20.0		116	70-130	5	20
1,2,4-Trichlorobenzene	**21.4**		µg/l		20.0		107	70-130	2	20
1,3,5-Trichlorobenzene	**21.1**		µg/l		20.0		106	70-130	7	20
1,1,1-Trichloroethane	**23.1**		µg/l		20.0		115	70-130	6	20
1,1,2-Trichloroethane	**21.8**		µg/l		20.0		109	70-130	3	20
Trichloroethene	**23.0**		µg/l		20.0		115	70-130	7	20
Trichlorofluoromethane (Freon 11)	**22.1**		µg/l		20.0		110	70-130	6	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1602521 - SW846 5030 Water MS										
LCS Dup (1602521-BSD1)					Prepared & Analyzed: 11-Feb-16					
1,2,3-Trichloropropane	**22.1**		µg/l		20.0		111	70-130	2	20
1,2,4-Trimethylbenzene	**20.6**		µg/l		20.0		103	70-130	5	20
1,3,5-Trimethylbenzene	**20.8**		µg/l		20.0		104	70-130	5	20
Vinyl chloride	**21.1**		µg/l		20.0		106	70-130	2	20
m,p-Xylene	**21.1**		µg/l		20.0		105	70-130	5	20
o-Xylene	**21.3**		µg/l		20.0		107	70-130	3	20
Tetrahydrofuran	**21.5**		µg/l		20.0		108	70-130	12	20
Ethyl ether	**22.0**		µg/l		20.0		110	70-130	2	20
Tert-amyl methyl ether	**22.6**		µg/l		20.0		113	70-130	3	20
Ethyl tert-butyl ether	**18.9**		µg/l		20.0		94	70-130	2	20
Di-isopropyl ether	**21.2**		µg/l		20.0		106	70-130	3	20
Tert-Butanol / butyl alcohol	**191**		µg/l		200		96	70-130	3	20
1,4-Dioxane	**229**		µg/l		200		114	70-130	9	20
trans-1,4-Dichloro-2-butene	**20.8**		µg/l		20.0		104	70-130	2	20
Ethanol	**495**		µg/l		400		124	70-130	6	20
Surrogate: 4-Bromofluorobenzene	*52.1*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*50.6*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.2*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*49.6*		µg/l		*50.0*		*99*	*70-130*		

Notes and Definitions

B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
QB2	The method blank contains analyte at a concentration above the MRL, however no reportable concentration is present in the sample.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR5	RPD out of acceptance range.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly LaPlante

SC 17886

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of ~~3~~ 2 BC

Special Handling:
- ~~X~~ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: ECS Brattleboro
70 Landmark Hill Rd
Brattleboro, VT, 05301

Telephone #: 802-257-1195
Project Mgr: Alicia Flammia

Invoice To: ECS AGAWAM

P.O No.: _____ Quote/RQN: Extreme

Project No: 04-22488.00
Site Name: ~~Depot St.~~ BJC, Windsor GWS
Location: Windsor, VT. Depot St. State: VT
Sampler(s): Bradley Conway, Jason S.K.

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= Ice 12= _____

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: List Preservative Code below: 2,11 — VOC 8260		Check if chlorinated	QA/QC Reporting Notes: * additional charges may appply
17886 01	CBM-5	2/1/2016	11:20	G	GW	3				X		☐	MA DEP MCP CAM Report? ☐ Yes ☒ No; CT DPH RCP Report? ☐ Yes ☒ No; ☒ Standard ☐ No QC ☐ DQA* ☐ ASP A* ☐ ASP B* ☐ NJ Reduced* ☐ NJ Full* ☐ Tier II* ☐ Tier IV* ☒ Other: VT DEC; State-specific reporting standards:
02	CBM-4		11:43			3				X		☐	
	~~CBM-3~~		~~12:25~~			3				X	BC	☐	
03	CBM-2		13:05			3				X		☐	
04	CBM-1		13:20			3				X		☐	
	~~J-GW-DEP 8~~		~~14:05~~			3				X	BC	☐	
05	J-GW-DEP9		14:12			3				X		☐	
06	J-GW-APT 2		15:35			3				X		☐	
07	J-GW-APT 3		15:55			3				X		☐	Hold until notified
08	GAI-35		16:25			3				X		☐	

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	2-4-16	1100
[signature]	[signature]	2/4/16	1533

Temp °C: Observed 2.6; Correction factor 0; Corrected 2.6; IR ID # 02

☐ EDD format:
☒ E-mail to: AFLAMMIA@ECSCONSULT.COM
JSKARABAKAKIS@ECSCONSULT.COM

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☒ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SC17886e

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 3

Special Handling:
- [x] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: ECS Brattleboro
70 Landmark Hill Rd.
Brattleboro, VT, 05301

Telephone #: 802-257-1195
Project Mgr: Alicia Flammia

Invoice To: ECS AGAWAM

P.O No.: _____ Quote/RQN: Extreme

Project No: 04-274488.00
Site Name: ~~Depot St.~~ BSC, Windsor, GWS
Location: Windsor, VT, Depot St. State: VT
Sampler(s): Bradley Conway, JASON SK

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= ICE 12= _____

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= DI H_2O / HCl X2= _____ X3= _____

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	List Preservative Code below: 2, 11	Analysis: VOC 8260	Check if chlorinated
1788-09	GAI-2S	2/1/2016	17:25	G	GW	3					X	☐
-10	GAI-3D		17:35			3					X	☐
-11	GAI-1D		18:37			3					X	☐
-12	GAI-1S		18:55		↓	3					X	☐
-13	Trip Blank		8:00		X1	1					X	☐
-14	Duplicate		~~AA~~ BX		GW	3					X	☐
-15	Equipment Blank	↓	8:05	↓	X1	1					X	☐
-16	Trip Blank	2/3/2016	9:00	G	X1	1					X	☐
-17	CMB-3	↓	13:25	↓	GW	3					X	☐
-18	J-GW-DEP 8	↓	14:15	↓	↓	3					X	☐

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☒ No
CT DPH RCP Report? ☐ Yes ☒ No
☒ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☒ Other: VT DEC
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	2-4-16	1100
[signature]	[signature]	2/4/16	1533

Temp °C: Observed 2.6; Correction Factor 0; Corrected 2.6; IR ID # 02

☐ EDD format:
☒ E-mail to: AFLAMMIA@ECSCONSULT.COM
JKARAKAKIS@ECSCONSULT.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☒ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SC17886 e

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 3

Special Handling:
- [x] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: ECS Brattleboro
70 Landmark Hill Rd
Brattleboro, VT. 05301

Telephone #: 802-257-1195
Project Mgr: Alicia Flammia

Invoice To: ECS Agawam

P.O No.: _____ Quote/RQN: Extreme

Project No: 04.224488.00
Site Name: Windsor GWS
Location: Windsor, VT, Depot St State: VT
Sampler(s): Bradley Conway

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= Ice 12= _____

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= DI H_2O/HCl X2= _____ X3= _____

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: List Preservative Code below: 2, 11 — VOC 8260	Check if chlorinated
17886-19	J-GW-APT 3	2/3/2016	18:00			3				X	☐
↓ 20	KAS-1	↓	18:47			3				X	☐
											☐
											☐
											☐
											☐
											☐
											☐
											☐
											☐

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☒ No
CT DPH RCP Report? ☐ Yes ☒ No
☒ Standard ☐ No QC
☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☒ Other: VT DEC
State-specific reporting standards:

Hold until notified

Relinquished by:	Received by:	Date:	Time:	Temp °C
		2-4-16	1100	Observed 2.6
		2/4/16	1533	Correction Factor 0
				Corrected 2.6
				IR ID# 02

☒ EDD format: AFLAMMIA@ECSConsult.com
☐ E-mail to: JKarabakakis@ECSConsult.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☒ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SC 17886 e

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of ~~2~~ 3 BC

Special Handling:

- [x] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed:

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: ECS Brattleboro, 70 Landmark Hill Rd, Brattleboro, VT, 05301
Telephone #: 802-257-1195
Project Mgr: Alicia Flammia

Invoice To: ECS AGAWAM
P.O No.:
Quote/RQN: Extreme

Project No: 04-224488.00
Site Name: ~~Depot~~ BJC St., Windsor GWS
Location: Windsor, VT. Depot St. State: VT
Sampler(s): Bradley Conway, Jason S.K.

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= Ice 12=

List Preservative Code below: 2,11

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= X2= X3=

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC 8260	Check if chlorinated
17886-01	CBM-5	2/1/2016	11:20	G	GW	3				X	☐
-02	CBM-4	↓	11:43	↓	↓	3				X	☐
	~~CBM-3~~		~~12:25~~			~~3~~				~~X~~ BC	☐
-03	CBM-2		13:05			3				X	☐
-04	CBM-1		13:20			3				X	☐
	~~J-GW-DEP 8~~		~~14:05~~			~~3~~				~~X~~ BC	☐
-05	J-GW-DEP9		14:12			3				X	☐
-06	J-GW-APT 2		15:35			3				X	☐
-07	J-GW-APT 3		15:55			3				X	☐ ~~Hold until notified~~ Run per client req 2/5/16
-08	GAI-35	↓	16:25	↓	↓	3				X	☐

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☒ No
CT DPH RCP Report? ☐ Yes ☒ No
☒ Standard ☐ No QC
☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☒ Other: VT DEC
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp °C
[signature]	[signature]	2-4-16	1100	Observed 2.6
[signature]	[signature]	2/4/16	1533	Correction Factor 0
				Corrected 2.6
				IR ID# 02

☐ EDD format:
☒ E-mail to: AFLAMMIA@ECSCONSULT.COM, JKARABAKAKIS@ECSCONSULT.COM

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☒ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen