2362 Fairview Street, Burlington

Interim

Phase Two Environmental Site Assessment

Project Location:

2362 Fairview Street, Burlington, ON

Prepared for:

Lockwood Auto Group Inc.
2400 South Service Road West
Oakville, ON L6L 5M9

Prepared by:

MTE Consultants
1016 Sutton Drive, Unit A
Burlington, ON L7L 6B8

June 9, 2020

MTE File No.: 38934-100

Engineers, Scientists, Surveyors.

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1.0 Executive Summary

MTE Consultants Inc. was retained by Lockwood Auto Group Inc., to conduct a Phase Two Environmental Site Assessment (ESA) for the property located at 2362 Fairview Street in Burlington, Ontario (the "Phase Two Property" or "Site"). The purpose of the Phase Two ESA was to further assess Areas of Potential Environmental Concern (APECs) on the Site, which were identified in a previous Phase One ESA (MTE, 2017).

The Phase Two ESA was conducted following the process and report format according to O.Reg.153/04, and was prepared under the direct supervision of a Qualified Person (QP_{ESA}). The report was completed to support an O.Reg.153/04 Risk Assessment (RA) and the future filing of a Record of Site Condition (RSC).

Site Description and History

The Phase Two Property is approximately 0.76 hectares (1.87 acres) in area, is rectangular in shape and is located on the south side of Fairview Street, between Guelph Line and Drury Lane in a mixed commercial and residential area. The Site consists of a vacant, gravel surfaced lot, surrounded by a chain link fence. There is a small wood-sided shed in the southeastern corner of the Site that houses a groundwater pump and treat system.

Historical records indicated that the Phase Two Property was agricultural or vacant land until 1960 when the property was developed with an industrial building by Wiens Screw Products Ltd. An additional structure (Quonset building) was added to the Site in 1963. Wiens Screw Products operated a machine shop on the Site from 1960 to 1976. Historical records suggest that Wiens Screw Products may have also conducted some diesel truck repairs during this period. In 1976 the Site was purchased by Parker-Hannifin Limited who also operated a machine shop, primarily for the manufacturing of fluid injectors, screw fittings, hose connectors and adaptors until 1989.

In 1989 and 1990 the Site was decommissioned, which included the removal of the buildings and one or more waste oil underground storage tanks (USTs). The USTs were found to have leaked and soil remedial projects (excavation and off-Site disposal) were completed on the Site in four stages between 1990 and 1997. The initial soil remediation project was completed to remove petroleum hydrocarbon (PHC) impacted soil in the waste oil UST area and subsequent remediation projects were focused on the removal of soil impacted by trichloroethylene (TCE).

Subsequent environmental investigations conducted on the Site in the 1990s identified the presence of chlorinated volatile organic compounds (VOCs) in groundwater. The VOCs primarily consisted of TCE and TCE degradation products, and the extent of VOCs in groundwater was found to extend laterally across the Site from north to south and vertically into bedrock. Previous environmental reports also indicated the likelihood that VOC impacted groundwater was migrating onto the Site from up-gradient properties to the north.

The Site has been a gravel surfaced lot since 1989 and is currently being leased to a local automobile dealer for use as an overflow parking lot. A recovery well and a groundwater pump and treat system was installed on the Site in 1992 to remediate and control the migration of impacted groundwater to the south of the Site. The pump and treat system continues to operate.

Summary of Phase Two ESA Results

The results of the Phase Two ESA determined that Contaminants of Concern (COCs) are present in soil and groundwater on the Site at concentrations above the applicable Ontario Ministry of the Environment, Conservation and Parks (MECP) 2011 Table 2 Site Condition Standards (SCSs) for residential land use and medium-fine textured soil. The COCs identified

in soil included metals (cadmium, copper and zinc), arsenic, multiple polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons (PHCs) F1, F2 and F3, trichloroethylene (TCE), tetrachloroethylene (PCE), 1,1-dichloroethylene (1,1-DCE), cis-1,2-dichloroethylene (c-1,2-DCE), vinyl chloride (VC) and 1,1,2-trichloroethane (1,1,2-TCA). The COCs identified in groundwater included uranium, TCE, PCE, 1,1-dichloroethane (1,1-DCA), 1,1-DCE, c-1,2-DCE, trans-1,2-dichloroethylene (t-1,2-DCE), VC and 1,1,2-TCA.

The lateral and vertical extent of the COCs in soil and groundwater has been delineated.

Remediation

No soil remediation activities were completed during this Phase Two ESA.

Soil Brought to the Property

No soil was brought to the Site during this Phase Two ESA.

Risk Assessment

The results of the Phase Two ESA will be used to complete a Risk Assessment to develop Property Specific Standards (PSSs) for the Site.

2.0 Introduction

MTE Consultants Inc. was retained by Lockwood Auto Group Inc. to conduct a Phase Two Environmental Site Assessment (ESA) for the property located at 2362 Fairview Street in Burlington, Ontario (the "Phase Two Property" or "Site"). The Site location is illustrated on **Figure 1a**. The Phase Two ESA was completed by MTE between November 2017 and June 2020 according to Reference Number 38934-100.

The purpose of the Phase Two ESA was to further assess Areas of Potential Environmental Concern (APECs) on the Site, which were identified in a previous Phase One ESA (MTE, 2017). The Phase Two ESA was conducted following the process and report format according to O.Reg.153/04, and was prepared under the direct supervision of a Qualified Person (QP_{ESA}). The report was completed to support an O.Reg.153/04 Risk Assessment (RA) and the future filing of a Record of Site Condition (RSC).

It is noted that the Ontario Ministry of the Environment, Conservation and Parks (MECP) was previously named the Ontario Ministry of the Environment (MOE) and the Ontario Ministry of the Environment and Climate Change (MOECC). For ease of discussion in this report, "MECP" is used to represent this provincial ministry and is inclusive of MOE and MOECC.

(i) Site Description

The Phase Two Property is approximately 0.76 hectares (1.87 acres) in area, is rectangular in shape and is located on the south side of Fairview Street, between Guelph Line and Drury Lane in a mixed commercial and residential area. The Site consists of a vacant, gravel surfaced lot, surrounded by a chain link fence. There is a small wood-sided shed in the southeastern corner of the Site that houses a groundwater pump and treat system. The Site Layout is illustrated on **Figure 2a**.

The Site is bounded by Fairview Street to the north, commercial properties to the east and west, and a residential subdivision to the south. There is a vehicle entrance to the Site from Fairview Street.

The legal description for the Phase Two Property is *PT LTS 13 & 14, PL 203, PTS 2, 3, 6 & 7, 20R2584; S/T 149878, 149880, 437322E Burlington*. A copy of a legal survey for the Site is provided in **Appendix A5**.

Enhanced Investigation Property (EIP)

The Phase Two Property was classified as an enhanced investigation property (EIP) according to O.Reg.153/04 as a result of historical industrial uses, including a machine shop and potential truck repairs.

(ii) Property Ownership

The Phase Two ESA was commissioned by Lockwood Auto Group Inc., who also owns the Phase Two Property. The contact information for Lockwood Auto Group Inc. is as follows:

Mr. Jay Lockwood
Lockwood Auto Group Inc.
2400 South Service Road West
Oakville, ON, L6L 5M9
jlockwood@lockwoodleasing.ca

(iii) Current and Proposed Future Uses

The Site is currently used as an overflow lot for a local automobile dealer (commercial use). The proposed future use of the Site is combined commercial and residential use, potentially including a multi-story condominium building. Because the new development plans include a change in land use from commercial use to include residential use, the filing of an RSC is required in accordance with O.Reg.153/04 and Section 168.3.1 of the Environmental Protection Act.

(iv) Applicable Site Condition Standard

The applicable Site Condition Standards (SCSs) for the Phase Two ESA were determined based on the following information:

- Subsurface investigations on the Site determined there is more than 2 metres of overburden above bedrock.
- There are no surface water bodies on or within 30 metres of the Site.
- The Site is not on or within an area of natural significance and soil pH was within the acceptable range. The Site was not considered to be an “Environmentally Sensitive Area” as defined by O.Reg.153/04.
- Written Notifications of Intent to use non-potable groundwater SCSs were sent to the City of Burlington and Regional Municipality of Halton on May 10th, 2018. The Region of Halton responded in a letter dated May 31st, 2018 and objected to the use of non-potable groundwater condition standards based on the presence of a “highly vulnerable aquifer” in the vicinity of the Site.
- The results of the borehole drilling identified the native soils to primarily consist of silty clay till over silty fine sand, which represent more than 2/3 of the Site soil by volume. The results of soil grain size analyses indicated that both soil units are characterized as medium and fine texture soil.

Based on the above, the analytical results were compared to the Table 2 Generic Site Condition Standards in a Potable Groundwater Condition from the document “*Soil, Groundwater and*

Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, MOE, April 15, 2011", and those for Residential/Parkland/Institutional property use and medium-fine textured soil (the "2011 Table 2 RPI SCSs").

The measured depth to the water table on the Site was generally less than 3m below ground surface at the Site. As a result, some of the assumptions used to develop the 2011 Table 2 RPI SCSs for volatile parameters in groundwater may not be valid. To address this, the analytical data for volatile parameters in groundwater will also be compared to the 2011 Table 6 SCSs during the future Risk Assessment to identify other potential Contaminants of Concern (COCs) that should be evaluated.

There were no other hydrogeological and geological interpretations in the Phase Two ESA identified that differ from assumptions on which the generic soil or groundwater Standards are based.

3.0 Background Information

(i) Physical Setting

The Site is located within the Iroquois Plain physiographic region, which is situated in the low lying area between Lake Ontario and the Niagara Escarpment extending from the Niagara River to the Trent River (Chapman and Putnam, 1984). Quaternary geology mapping (MNDM, 1986) indicated regional shallow soil conditions in the area of the Phase One Property consist of lacustrine deposits of sand.

The geodetic ground surface elevation of the Site is approximately 98m to 99m above sea level and the UTM coordinates for the approximate center of the Phase Two Property are 597,237m east and 4,799,747m north in Zone 17T. The topography of the Site is relatively flat and the regional topography decreases in elevation to the southeast towards Lake Ontario (approximately 2km from the Site).

Surface drainage on the Phase Two Property is currently directed towards catch basins located in the central and northern areas of the Site as well as low lying areas for surface infiltration. There are no water bodies on or within 30m of the Site.

(ii) Past Investigations

MTE was provided with 19 4" binders of environmental documents pertaining to the Phase Two Property and multiple other properties located north of Fairview Street (hydraulically up-gradient of the Site) as a result of MECP Freedom of Information requests. The documents included previous environmental investigation and groundwater monitoring reports, letters, emails and various other communications, including with the MECP dating back to 1990.

In general, the documents were related to one or more of the following:

- Soil and groundwater investigations, soil and groundwater remediation efforts and groundwater quality monitoring completed on the 2362 Fairview Street Site;
- A significant subsurface release of trichloroethylene (TCE) from three leaking solvent USTs at 2360/2380 McDowell Road, which is up-gradient of the Site and occupied by Hood Packaging Corporation; and
- Subsequent soil and groundwater investigations, groundwater remediation efforts and groundwater monitoring on the 2360/2380 McDowell Road property and properties located to the south of this property on the north side of Fairview Street (i.e., between the Site and 2360/2380 McDowell Road).

For the purpose of the Phase One/Two ESA and the objective of determining the PCAs on the Site and in the Study Area, MTE reviewed the entirety of the environmental documents in the binders that were provided. Based on this review, information contained in the documents included in the references section at the end of this report sufficiently described the known environmental concerns on the Site and the known environmental conditions of properties to the north and up-gradient of the Site. The results of the document review are summarized in the following sections.

Previous Environmental Reports – Site

The following is a summary of the information obtained from previous environmental reports pertaining to the Site.

Initial environmental investigations were completed at the Site in 1990 and 1991 by Golder Associates Limited (Golder) and Ecotech Planners & Advisors (Ecotech) following the closure of the Parker Hannifin operations and concurrent with Site decommissioning. The results of these investigations were as follows:

- One or more waste oil USTs (unclear from the reporting) was located between the main building and the former Quonset building (see **Figure 2b**) and were removed.
- A preliminary sampling program was conducted by Golder that identified on-Site soils impacted by oil from the previous machine shop operations and the former waste oil USTs.
- A soil remediation program was conducted and 2,700 cubic yards of oil-contaminated soils was excavated and transported off-site for disposal between December 1989 and February 1990. The machine shop building was removed to complete the remedial efforts. The 1990 soil remediation area is shown on **Figure 2b**.
- Groundwater impacted with TCE, vinyl chloride, and minimally with other VOCs, was identified in monitoring wells screened in the overburden and bedrock.
- Elevated concentrations of TCE and vinyl chloride were detected in groundwater at the south (down-gradient) property boundary and at the north (up-gradient) property boundary and Golder interpreted that there was a potential for impacted groundwater to be migrating off-Site to the south and onto the Site from an unknown source to the north.

Based on meetings with the MECP, additional investigations were conducted on the Site by Golder and Ecotech from 1990 to 1993 to further assess soil and groundwater quality. The results were as follows:

- Additional soil sampling and analysis for TCE was completed and approximately 150 cubic metres of additional TCE contaminated soil that exceeded the former “Interim Guideline” values was excavated and transported off-Site for disposal in two stages.
- Additional nested groundwater well sets were installed (overburden/bedrock).
- Groundwater impacted with TCE (up to 20,000 µg/L) was measured in the overburden wells. TCE was also detected up to 370 µg/L in a bedrock well.
- Off-Site wells were installed in the residential area to the south of the Site and TCE was detected in the overburden and bedrock aquifers.
- The highest concentrations of VOCs, including soil impacted with TCE and tetrachloroethylene (PCE), were located within the southeastern quadrant of the Site.

- The analytical results for shallow soil samples collected in the southeast adjoining residential backyards did not identify evidence to suggest off-Site migration of VOCs in soil.
- A groundwater recovery well was installed near the southeastern boundary of the Site and a pump test was completed that indicated hydraulic control of the groundwater plume to the south could be obtained.
- A groundwater recovery program was commenced, which included pumping groundwater from an extraction well (RW1) at the southeast corner of the Site (see **Figure 2b**), dual granular activated carbon (GAC) media treatment and discharge to the sanitary sewer. The GAC media was found to effectively remove TCE from the discharged water.
- Sampling of off-Site wells installed in the Fairview Street road allowance (up-gradient to the north) identified high concentrations of TCE in groundwater. TCE concentrations were found to be higher on the north side of Fairview Street than the south side of Fairview Street, indicating the presence of an off-Site up-gradient source of TCE.
- The reports during this period inferred that a TCE groundwater plume extended from north of Fairview Street, under the majority of the Site and below the southeast adjoining residential properties.

Between 1996 and 1999, additional investigations and soil remediation projects were conducted on the Site, on properties off-Site to the south and in the Fairview Street road allowance. The results were as follows:

- 37 monitoring wells that had been installed on the Site and adjacent properties to the southeast (residential area) and northwest (along Fairview Street), including nested overburden and bedrock wells were sampled.
- TCE impacted soils were removed in one additional area in 1997 (see **Figure 2b**). The soil remediation was considered complete to the 1997 Ministry guideline values in place at that time. This was acknowledged in a letter from the Ministry dated April 19, 1999.
- Parker Hannifin operated the pump and treat system on the Site from 1992 to 1997. With agreement from the MECP the system was shut down in 1997 based on observed significant increases in TCE concentrations on the Site and the concern that the system was accelerating the movement of TCE impacted groundwater contamination from 2360/2380 McDowell Road to the Site.

A Site-Specific Risk Assessment (SSRA) was completed in 2001 to evaluate potential risks from exposure to multiple chlorinated VOCs including TCE and degradation products to Site users.

- The results of the SSRA indicated that if the Site was redeveloped for purposes other than a parking lot, there would be a potential risk to Site users as a result of the VOCs in groundwater.
- Risk management measures or remedial options would be required to reduce or mitigate potential exposures.

In 2003 Jacques Whitford Environment Limited (JWEL) conducted a study to re-evaluate the potential for the pump and treat system to be accelerating the movement of TCE impacted groundwater contamination from 2360/2380 McDowell Road, and based on the results the

study, the system was re-started in January 2003 with Ministry approval.

Annual groundwater sampling has been completed at the Site (and off-Site to the north and south since 2002). The results of the monitoring indicated the continued presence of high concentrations of VOCs, including TCE and degradation products at concentrations above the applicable 2011 Table 2 RPI SCSs in overburden and bedrock monitoring wells. The groundwater pump and treat system continues to be operated on the Site. The locations of the existing monitoring wells and the groundwater recovery well on the Phase Two Property are depicted on **Figure 2a**.

Previous Environmental Reports – Off-Site

Numerous environmental investigations and reports have been completed for properties off-Site to the north across Fairview Street by the owners of 2360/2380 McDowell Road (currently Hood Manufacturing and formerly Bonar and Bemis, and Bonar Inc.) since 1994. The results of these investigations document a significant release of TCE to the subsurface and high concentrations of TCE and degradation products in the overburden and bedrock groundwater migrating southerly toward the Site, and subsequent off-Site groundwater remediation efforts to control contaminant migration and recover VOCs.

The previous reports and other documents indicated the following:

- The property located at 2360/2380 McDowell Road (See **Figure 3**) is currently occupied by Hood Packaging Corporation, manufacturers of paper and plastic packaging.
- Previous reports (Beak, 1994 and 1995) indicated that this property was first developed as a paper packaging facility in 1948 by Bonar and Bemis. The facility was expanded in 1962 with the construction of a plastics packaging manufacturing building (western portion), and in 1965 with the addition of a flammable materials storage room.
- The flammable materials storage room included four solvent underground storage tanks (USTs) below the floor of the room. These included; three USTs one 5,000 gallon and two 3,000 gallons for the storage of virgin TCE, and one 1,000 gallon UST for spent TCE solvent.
- The USTs were indicated to have last been used in 1985. In 1993, pressure tests were completed on three of the four USTs and the results indicated that all three had leaked (Beak, 1995).
- Subsequent environmental sampling completed by Beak between 1994 and 1997 in the vicinity of the flammable materials storage room identified concentrations of TCE in overburden groundwater as high as 1,670,000 µg/L (monitoring well MW-2S). This suggested the presence of separate phase solvent as a Dense Non-Aqueous Phase Liquid (DNAPL).
- In addition to TCE, elevated concentrations of TCE degradation products cis-1,2-DCE and vinyl chloride were also detected at concentrations as high as 113,000 µg/L and 6,720 µg/L respectively.
- Starting in 1994 phased soil and groundwater investigations were completed at 2360/2380 McDowell Road, and properties to the south of 2360/2380 McDowell Road, which have included the installation of approximately 84 monitoring wells to characterize the extent of TCE and degradation products from this property.

- In 1997 groundwater extraction wells and trenches were installed in the vicinity of the former hazardous materials storage room and in 2000, three additional trenches were installed on the Fairview Chrysler property (2377 Fairview Street – north of the Site). VOC impacted groundwater recovered from these trenches was pumped to an air stripper system on the Hood Packaging property for treatment.
- Between 2002 and 2008 a multiphase extraction system was installed on the Hood property and operated to further treat VOC impacted groundwater recovered from the trenches.
- In 2006 permeable reactive barriers (PRBs) with zero-valent iron were installed at 2387 Fairview Street (currently Wendy's restaurant) and 2349 Fairview Street (currently Burlington Office Center) to remediate VOCs in the overburden groundwater.
- The analytical results for groundwater sampling completed by Geosyntec in 2014 continued to show high levels of TCE and breakdown products in overburden and bedrock groundwater north of Fairview Street and up-gradient of the Site. Some wells show a decreasing trend and others show an increasing trend.
- As of 2011 it was reported that approximately 4,300kg (approximately 3,000L) of VOC mass had been recovered by Hood though the operation of the pump and treat and multiphase extraction systems (Geosyntec, 2012).

Historical Analytical Data Quality Review

1990-early 2000s

MTE completed a data quality evaluation for historical analytical data collected by others during previous investigations and soil remediation activities at the Site. Analytical data collected from the Site in the 1990s and early 2000s was used for information purposes only for one or more of the following reasons:

- Laboratory Certificates of Analysis were not available;
- Field methods were not appropriate (e.g., composite soil sampling for VOCs);
- The figures in these reports were not sufficiently accurate to determine sampling locations;
- The analytical methods were not in accordance with current MECP requirements; or
- Because Site conditions have significantly changed since that time period (e.g., significant changes in groundwater quality).

The results of the review of historical reports from the 1990s to the early 2000s identified the following areas or locations on the Site where COCs may be present above the applicable 2011 Table 2 RPI SCSs.

1. High concentrations of TCE, cis-1,2-dichloroethylene and vinyl chloride (above current 2011 Table 2 RPI SCSs) were historically measured in groundwater samples collected from monitoring wells through the central portion of the property (from the north boundary to the south boundary). The highest historical concentrations were measured at monitoring wells BH1S and BH3S.
2. There was a potential for soil containing TCE, TCE degradation products or PHCs at concentrations above the 2011 Table 2 RPI SCSs to remain in the former remediation areas as illustrated on **Figure 2b**. The confirmatory samples collected following the

remediation were not collected using appropriate field methods (composite sampling) and not using current MECP approved analytical methods (e.g., “oil and grease” analysis). In addition, the current MECP Site Condition Standards are lower than the former MOE Guideline Values in place at that time.

This analytical data from these reports was evaluated in the Phase One ESA and used to design the Phase Two ESA sampling program including:

- The identification of appropriate APEC boundaries;
- The installation of new boreholes in locations where historical data identified COCs but the analytical data could not be relied upon;
- The collection of new groundwater samples from existing monitoring wells on the Site that were suitable for sampling (e.g., BH1S and BH3S); and
- The replacement of former or damaged monitoring wells and the collection of new groundwater samples from these wells.

2002 – 2020 Groundwater Monitoring

A semi-annual groundwater monitoring program has been completed at the Site by Mr. Andre Breberina, P.Geo., QP_{ESA} since 2002 and included the collection of groundwater samples for VOC analysis. To evaluate the representativeness of this analytical data set, trend graphs (concentration vs time) were created for wells where sufficient data had been collected. The groundwater analytical results collected by MTE during this Phase Two ESA were also included on these graphs where these wells still exist. Copies of the trend graphs are included in **Appendix A8**.

The trend graphs show that significant changes to groundwater quality have occurred over this period. Based on this evaluation, the historical analytical results for VOCs in groundwater collected since 2016 were relied upon during this Phase Two ESA. This analytical data was considered to be most representative of current conditions and incorporate the expected current maximum concentrations of the COCs in groundwater.

Historical results collected in and prior to 2015 were not relied upon in this Phase Two ESA based on the following:

- The pump and treat system has been operating on the Site since the 1990s. This system has generally lowered the concentrations of VOCs on the Site over this time period;
- Natural processes (e.g., reductive dechlorination) in groundwater have altered the concentrations of VOC parameters and the ratios of TCE and TCE degradation products over time (some higher, some lower);
- VOC contaminated groundwater is interpreted to have continued to migrate onto the Site from an off-Site source over this time period; and
- The analytical results for recent groundwater samples collected by MTE from the existing monitoring wells as part of the Phase Two ESA were in some cases not consistent with older historical results (e.g., prior to 2015).

The historical analytical results for VOCs in groundwater from 2010 to 2015 are included in the analytical data tables for general information purposes but were R-qualified (rejected) in the Phase Two ESA data set.

The historical analytical data collected during the monitoring period of 2016 to 2020, together with the additional groundwater analytical data collected by MTE during this Phase Two ESA in 2017, 2018 and 2020 were considered sufficient and appropriate to evaluate the current environmental condition of the Site. This data set includes the collection of multiple samples from locations where the maximum concentrations of COCs were currently or historically detected at the Site.

2010 – 2015 Soil Analytical Data

Concurrent with the semi-annual groundwater monitoring program, some soil analytical data was also collected at the Site by Mr. Andre Breberina, P.Geo., QP_{ESA}. This included soil samples submitted for analysis of metals, EC, pH and VOCs between 2010 and 2015. The quality and representativeness of the soil analytical data collected from 2010 to 2015 was evaluated through a review of the laboratory Certificates of Analysis, the results of QC samples submitted during this period, and the analytical results as compared to soil sample results collected by MTE in the same areas. Based on this review, the historical soil analytical data was considered suitably precise and was included in the Phase Two ESA.

Migration of VOCs from Off-Site

The results of the document review completed during the Phase One ESA indicated that VOC contaminated groundwater has migrated onto the Site from properties to the north. The source of the VOCs, including TCE and TCE degradation products, was interpreted to be a significant release of TCE from three leaking TCE USTs at the Hood Packaging property at 2360/2380 McDowell Road.

In 2018, MTE completed an evaluation of the potential sources of groundwater contamination by VOCs at the Site, and specifically to evaluate the potential that VOC contaminated groundwater has migrated, and is presently migrating onto the Site from up-gradient properties to the north. The results of this study concluded the following:

- A significant spill of TCE occurred at the Hood Packaging property at 2360/2380 McDowell Road as result of three leaking USTs. The spill is estimated to have occurred between 1985 when the USTs were no longer used and 1993 when failed leak tests were conducted.
- In 1994 concentrations of TCE in groundwater were measured as high as 1,670,000 µg/L in the UST area suggesting the presence of separate-phase DNAPL.
- A sharp increase in groundwater TCE concentrations (in some instances to concentrations greater than 200,000 µg/L) was observed in multiple overburden and bedrock monitoring wells north of Fairview Street, south of Fairview Street and on the Site between 1996 and 1998, approximately 11-13 years after the Hood USTs were taken out of service and 3-5 years after the leaks were discovered.
- There were no operations on the Phase Two Property after 1989, and no other sources or explanation for steep significant increases in VOC concentrations between 1996 and 1998 on the Site were identified (i.e., other than migration from an off-Site source).
- A local scale, steady-state, three-dimensional numerical groundwater flow model was developed to assess groundwater flow pathways and advective travel times. The model was created based on the results of borehole drilling, hydraulic conductivity tests and historical groundwater elevation measurements collected between 1994 and 2017 on and off-Site.

- Backward particle track simulations showed that the potential contribution area reaches up-gradient toward the Hood Packaging property where the TCE release area was located within an approximate seven-year time of travel. This falls within the time frame of when the sharp increase in TCE concentrations on the Site were observed between 1996 and 1998 (i.e., 3-5 years after the leaks were identified and 11-13 years after the USTs were taken out of service). Based on the results of the model it was considered very likely that the TCE release area on the Hood Packaging property is a contributing contamination source of VOCs to the Site.
- An evaluation of the lateral extent of TCE in overburden and groundwater shows a continuous plume from the UST area at Hood Packaging through the Site. The path of migration of TCE in groundwater from the UST area to the northern boundary of the Site matches the path predicted by the numerical groundwater flow model.
- Concentration trend graphs show a correlation between off-Site TCE groundwater concentrations to the north of the Site and concentrations on the Site. Sharp increases in TCE concentrations off-Site to the north in 1996-1998 match sharp increases in on-Site concentrations. Similar decreasing TCE concentration trends are observed in on and off-Site monitoring wells after 2000 when a remediation pumping trench was installed at the southern end of 2377 Fairview Street (north of the Site and Fairview Street).
- Analytical data for TCE in groundwater in some of the original wells installed on the Phase Two Property, including well BH1S located at the northern end of the Site and well BH3S located at the southern end of the Site, was available back to the time of Site decommissioning (1990). A trend graph illustrating the measured concentrations of TCE in groundwater in these wells is included in **Appendix A8** and demonstrates the significant increase in TCE concentrations (first at BH1S, then at BH3S) following the discovery of the leaking USTs at 2360/2380 McDowell Road, and the subsequent decreasing concentrations following the installation of pumping trenches north of the Site and Fairview Street.
- Compound-Specific Isotope Analysis (CSIA) was completed on samples of off-Site groundwater representative of the Hood Packaging plume and samples collected from the Site. The CSIA report concluded that it is likely that TCE from on-Site wells BH1D, BH47S, BH117S, BH102S, and BH43U originated from the same source as off-Site wells BH17S and BH17D based on the following:
  - A general linear trend of increasing δ13C and δ37Cl values between all wells in the dual-isotope plot indicated that the TCE in all of the samples could have originated from the same source.
  - The carbon isotope fractionation of the TCE increased along the flow path moving away from off-Site well BH17S (representing the source). The linear trend suggested a single contaminant origin.
- A linear Kuder Plot trend observed for seven of the eight samples indicated that the TCE from these wells originally had the same isotopic ratio and each have undergone degradation through identical mechanisms. It was considered highly improbable that TCE from two different sources could share this same linear trend.

The combined results of the 1) historical document review, 2) numerical groundwater flow model, 3) assessment of historical analytical results for TCE, cis-1,2-DCE and vinyl chloride in overburden and bedrock groundwater, 4) evaluation VOC concentration trends, and 5) Compound-Specific Isotope Analysis individually and collectively indicated that VOC

contaminated groundwater originating at the Hood Packaging facility source area between 1985 and 1993 migrated to the 2362 Fairview Site and has adversely affected both overburden and bedrock groundwater quality. The results of more recent groundwater samples suggest that VOC contamination is continuing to migrate to the Site.

It is noted that some of the analytical data collected by others was not relied upon during this Phase Two ESA due to elevated laboratory detection limits. Further discussion of the data that was excluded is included in **Section 6(x)** Quality Assurance and Quality Control Results.

4.0 Scope of The Investigation

(i) Overview of the Site Investigation

This Phase Two ESA applies to the entire Site and was commenced within 18 months of the completion of the Phase One ESA. The Phase Two ESA was supervised by a QP_{ESA} and completed following the requirements of O.Reg.153/04.

The Phase Two ESA Site investigations included:

- Preparing a Site Specific Health and Safety Plan (HASP) including safety provisions for project team members and personal protective equipment;
- Preparing a Sampling and Analysis Plan (SAP) based on the results of the Phase One ESA and the proposed scope of work for this Phase Two ESA;
- Review of MTE Standard Operating Procedures (SOPs) for borehole and monitoring well installation, equipment calibration, groundwater sampling, disposal of investigation derived wastes and equipment decontamination;
- Review and evaluation of previous soil and groundwater analyses collected at the Site;
- Completing a monitoring well survey to evaluate the condition and functionality of existing monitoring wells previously installed at the Phase Two Property;
- Drilling 54 boreholes, completing 16 of these boreholes as shallow (overburden) monitoring wells and 4 of the boreholes as deeper (bedrock) monitoring wells, to investigate the APECs and to delineate the extent of contamination;
- Collecting soil samples from each borehole for field screening of organic vapours using a field instrument and for possible laboratory analysis;
- Submitting selected soil samples from boreholes under chain-of-custody for laboratory analysis of one or more of the Contaminants of Potential Concern (COPCs), which included metals, hydride-forming metals (As, Sb, Se), mercury (Hg), hexavalent chromium (Cr VI), hot water soluble boron (HWS-B), cyanide (CN^-), electrical conductivity (EC), sodium adsorption ratio (SAR), pH, acid-base-neutral compounds (ABNs), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene and xylene (BTEX) and volatile organic compounds (VOCs);
- Developing and purging monitoring wells and monitoring field chemistry parameters during well development and prior to sampling;

- Collection of groundwater samples from the existing and newly installed monitoring wells for laboratory for analysis of one or more of the COPCs, which included metals, As, Sb, Se, ABNs, PAHs, PCBs, PHCs, BTEX and VOCs;
- Measurement of groundwater levels and elevation surveying of the existing and new monitoring wells to a geodetic datum to determine the groundwater flow direction and hydraulic gradients;
- Conducting single-well recovery tests on selected wells to estimate hydraulic conductivity;
- Implementing Quality Assurance/Quality Control (QA/QC) procedures for the field activities;
- Preparing a Phase Two Conceptual Site Model (CSM); and
- Field and analytical data evaluation and interpretation and preparation of this Phase Two ESA report.

The Phase Two ESA Sampling and Analysis Plans are included in **Appendix A1**. The SAP describes the field sampling procedures with reference to MTE SOPs, field screening and record keeping procedures, the media to be tested, the number of samples to be collected, the COPCs to be analyzed and a description of the QA/QC plan.

The sampling program was conducted in accordance with the SAP, industry standard procedures, MTE SOPs and the document *"Guidance on Sampling and Analytical Methods of Use at Contaminated Sites in Ontario, MOE December 1996*". All chemical analyses were performed in accordance with the document "*Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act,"* dated March 2004.

(ii) Media Investigated

The media investigated during this Phase Two ESA included soil and groundwater. There is no surface water or sediment on the Phase Two Property and therefore no surface water or sediment samples were collected.

The field investigations included the collection of soil samples through borehole drilling and the collection of groundwater samples from permanent monitoring wells. The more detailed sampling methodologies are summarized in **Section 5**.

The borehole and monitoring well locations and depths were selected based on the Phase One ESA (MTE, 2017) and the APECs that were identified, the results of the previous investigations, and considering underground utility locations and Site boundaries to achieve lateral and vertical delineation of the identified Contaminants of Concern (COCs).

(iii) Phase One Conceptual Site Model

The Phase One Conceptual Site Model (CSM) was developed based on the results of the MTE Phase One ESA completed in 2017. The Phase One CSM was completed in accordance with the requirements of Part V in Schedule D of O. Reg. 153/04. The CSM consists of two parts; the following narrative description, which follows the sub-headings in Table 1 of Schedule D and supporting **Figures 1a** through **Figure 4**, which are also included in this Phase Two ESA report.

The following was noted with respect to the Phase One CSM:

(i) There are no buildings located on the Phase One Property. The current Site layout is illustrated on **Figure 2a**.

(ii) There are no water bodies located on the Phase One Property or within 30m of the Site.

(iii) There are no areas of natural significance located on the Phase One Property or within 30m of the Site.

(iv) There are no drinking water wells on the Phase One Property.

(v) Roads located near the Phase One Property include Fairview Street to the north and Barclay Road to the south. Other roads within the Phase One Study Area are indicated on **Figure 3**.

(vi) Properties adjoining the Phase One Property include commercial properties to the east and west, Fairview Street to the north and residential properties to the south.

(vii) The locations of the PCAs on the Phase One Property and in the Study Area are illustrated on **Figure 3**.

(viii) The locations of the APECs on the Phase One Property are illustrated on **Figure 4**.

Phase One Property Location and Description

The Phase One Property is rectangular in shape, 0.76 hectares (1.87 acres) in area and consists of a vacant, gravel surfaced lot, surrounded by a chain link fence. There is a small wood-sided shed in the southeastern corner of the Site that houses a groundwater pump and treat system. The Site Layout is illustrated on **Figure 2a**.

The legal description for the Phase One Property, as provided on the Plan of Survey is *PT LTS 13 & 14, PL 203, PTS 2, 3, 6 & 7, 20R2584; S/T 149878, 149880, 437322E Burlington*.

Phase One Property History

Historical records indicated that the Phase One Property was agricultural or vacant land until 1960 when the property was developed with an industrial building by Wiens Screw Products Ltd. An additional structure (Quonset building) was added to the Site in 1963. Wiens Screw Products operated a machine shop on the Site from 1960 to 1976. Historical records suggest that Wiens Screw Products may have also conducted some diesel truck repairs during this period. In 1976 the Site was purchased by Parker-Hannifin Limited who also operated a machine shop, primarily for the manufacturing of fluid injectors, screw fittings, hose connectors and adaptors until 1989. The locations of historical buildings and other Site features are illustrated on **Figure 2b**.

In 1989 and 1990 the Site was decommissioned, which included the removal of the buildings and one or more waste oil underground storage tanks (USTs). The USTs were found to have leaked and soil remedial projects (excavation and off-Site disposal) were completed on the Site in four stages between 1990 and 1997. The initial soil remediation project was completed to remove petroleum hydrocarbon (PHC) impacted soil in the waste oil UST area and subsequent remediation projects were focused on the removal of soil impacted by trichloroethylene (TCE). The reported boundaries of these remediation areas, as obtained from previous environmental reports, are shown on **Figure 2b**.

Subsequent environmental investigations conducted on the Site in the 1990s identified the presence of chlorinated volatile organic compounds (VOCs) in groundwater. The VOCs primarily consisted of TCE and TCE degradation products, and the extent of VOCs in groundwater was found to extend laterally across the Site from north to south and vertically into bedrock. Previous environmental reports also indicated the likelihood that VOC-impacted groundwater was migrating onto the Site from up-gradient properties to the north.

The Site has been a gravel surfaced lot since 1989 and is currently being leased to a local automobile dealer for use as an overflow parking lot. A recovery well and a groundwater pump and treat system was installed on the Site in 1992 to remediate and control the migration of impacted groundwater to the south of the Site. The pump and treat system continues to operate.

Proposed Future Use

The proposed future use of the Phase One Property will potentially include a multi-storey commercial and residential use condominium. Because the new development plans include a change from the current commercial use to include residential use, the filing of a Record of Site Condition is required.

Enhanced Investigation Property (EIP)

The Phase Two Property is classified as an enhanced investigation property (EIP) according to O.Reg.153/04 due to historical industrial land uses including a machine shop.

Areas where Potentially Contaminating Activity on or potentially affecting the Phase One Property has occurred

The Phase One ESA identified seven Potentially Contaminating Activities (PCAs) listed in Table 2 of Schedule D of O.Reg.153/04 on the Phase One Property. These included:

Potentially Contaminating Activity	Basis
8. Chemical Manufacturing, Processing and Bulk Storage	Historical records indicated kerosene and Varsol was stored in drums on the Site. A 1971 FIP shows a drum storage area along the east of side of the main building. Drum storage was also reported in the former Quonset building.
27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Historical records suggested that some diesel truck repairs may have been completed on the Site; however, the specific locations of these activities are not known.
28. Gasoline and Associated Products Storage in Fixed Tanks	One or more former waste oil USTs (size unknown) were located between main building and Quonset building. A 250-gallon fuel AST was formerly located along the east exterior wall of the main building.
30. Importation of Fill Material of Unknown Quality	Previous environmental investigations identified fill materials as the upper soil unit in several boreholes drilled on the Site. The source and quality of fill materials used to backfill four remedial excavations completed on the Site between 1990 and 1997 is not known.
34. Metal Fabrication	The Site was formerly occupied by two machine shops operated as Wiens Screw Products Ltd. and Parker-Hannifin (Canada) Ltd. between 1960 and 1989.

Potentially Contaminating Activity	Basis
51. Solvent Manufacturing, Processing and Bulk Storage	Historical records indicated a former TCE degreasing AST was located in the former machine shop building on-Site. The size and specific location of the AST within the building is not known.
55. Transformer Manufacturing, Processing and Use	FIPs and a historical Site plan show that a transformer was previously located west of the main building.

The Phase One ESA also identified one other potential environmental concern on the Phase One Property that is not a PCA listed in Table 2 of Schedule D of O.Reg.153/04, but was considered to result in an APEC; previous environmental investigations have identified groundwater contamination by VOCs across the Site.

The Phase One ESA identified multiple PCAs in the Study Area. The PCAs in the Study Area were assessed based on details of the PCA, Site reconnaissance observations, or the distance and location with respect to the Phase One Property. In general, the PCAs identified on adjoining properties or properties located north and up-gradient of Phase One Property based on the groundwater flow direction (southeasterly) as determined by previous on and off-Site investigations were considered to result in APECs.

The following PCAs within the Phase One Study Area were interpreted to result in an APEC on the Site. The off-Site PCA locations are illustrated on **Figure 3**.

Potentially Contaminating Activity	Location and Basis
27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	2339-2345 Fairview Street – Records indicate auto repairs have been conducted on this property (Fairview Tire and Auto). 2377 Fairview Street – Historical and current auto repair facilities at this property.
28. Gasoline and Associated Products Storage in Fixed Tanks	2321 Fairview Street – FIPs indicated the historical presence of one gasoline UST. 2377 Fairview St – TSSA record for an expired private fuel outlet with a UST.
34. Metal Fabrication	2349 Fairview Street - Former metal and industrial machinery & equipment manufacturing.
37. Operation of Dry Cleaning Equipment (where chemicals are used)	2388 Fairview Street - Former carpet retailer from 1975-2011 where carpet cleaning using chemicals may have been completed.
43. Plastics (including Fibreglass) Manufacturing and Processing	2360/2380 McDowell Road (Hood Packaging) - Plastic packaging manufacturing.
51. Solvent Manufacturing, Processing and Bulk Storage	2360/2380 McDowell Road (Hood Packaging) – Three former TCE USTs that were documented to have leaked and resulted in a significant release of TCE to the subsurface.

The off-Site PCA locations are illustrated on **Figure 3**. The on-Site PCA and APEC locations are illustrated on **Figure 4**.

The APECs identified at the Phase One Property are summarized in **Appendix A7** (APEC Table).

Contaminants of Potential Concern

The Contaminants of Potential Concern (COPCs) on the Phase One Property included metals, hydride-forming metals (As, Sb, Se), Hg, Cr VI, HWS-B, CN^-, EC, SAR, ABNs, PAHs, PCBs, PHCs, BTEX and VOCs. in soil and groundwater. The COPCs for each APEC are summarized in the APEC table.

Potential for Underground Utilities to Affect Contaminant Distribution

Underground utilities on the Site include an underground hydro line servicing the treatment shed in the southeastern corner of the Site, an abandoned water line in the western portion of the Site and two storm sewers lines located in the northern and central portions of the Site. The approximate locations are shown on **Figure 2a**. The depths of these utilities are not known.

Given the shallow depth to groundwater the presence of the underground utilities on the Phase Two Property may have the potential to promote contaminant distribution or transport.

Regional or site specific geological and hydrogeological information

The Site is located within the Iroquois Plain physiographic region, which is situated in the low lying area between Lake Ontario and the Niagara Escarpment extending from the Niagara River to the Trent River (Chapman and Putnam, 1984). Quaternary geology mapping (MNDM, 1986) indicated regional shallow soil conditions in the area of the Phase One Property consist of lacustrine deposits of sand.

Previous environmental investigations have identified the upper soil unit on the Site to consist of top soil or coarse texture fill (sand and gravel). The fill is underlain by silty fine sands, which grade to clayey silts in the western portion of the Site. The sand and silts are underlain by silty clay till that grade vertically into a discontinuous silty sand and sandy gravel unit over bedrock. The bedrock consists of red-brown to green shale of the Queenston Formation, and is present at depths of approximately 4.0 to 6.7m below ground surface (bgs). The upper meter of shale was typically described as weathered to highly weathered.

The geodetic ground surface elevation of the Site is approximately 98m to 99m above sea level and the UTM coordinates for the approximate center of the Phase One Property are 597,237m east and 4,799,747m north in Zone 17T. The topography of the Site is relatively flat and the regional topography decreases in elevation to the southeast towards Lake Ontario (approximately 2km from the Site).

Surface drainage on the Phase One Property is currently directed towards catch basins located in the central and northern areas of the Site as well as low lying areas for surface infiltration. There are no water bodies on or within 30m of the Site.

Uncertainty or absence of information that could affect the validity of the CSM

There were no limitations to the Phase One ESA that were interpreted to affect the conclusions or the validity of the CSM.

Subsequently Acquired Information

Based on MECP guidance, activities relating to vehicle repair activities (garages) and identified as PCA 52 in the Phase One ESA report (MTE, 2017), were changed to PCA 27 to better represent this use. These changes have also been made in the APEC table and applicable figures. The boundary of APEC 3 on **Figure 4** was also expanded from the Phase One ESA report to also include the Quonset Hut building, which was identified as an additional former drum storage area. For clarity and to allow for consistency with recent MECP guidance for APEC tables, the numbering of APEC 11 and APEC 18 were switched. Some modifications to the text of the Phase One Summary above were made for clarity in this Phase Two ESA report and consistency with current MECP expectations.

(iv) Deviations from Sampling and Analysis Plan

There were no deviations from the SAP during this Phase Two ESA.

(v) Impediments

MTE did not encounter any physical impediments to the Phase Two ESA and was not denied access to any areas on the Phase Two Property.

5.0 Investigation Method

(i) General

A Site Specific HASP was developed in accordance with MTE policy prior to commencement of the field work. The Site Specific HASP identified the location of the work, field activities, responsibilities of MTE and contractor personnel, the COPCs, physical hazards, environmental conditions, personal protective equipment required and directions to the nearest emergency health care provider. A copy of the HASP is maintained on file with MTE.

The field investigations were completed in accordance with the SAP, which references the following company Standard Operating Procedures:

- SOP 5.6.2(a) Borehole drilling;
- SOP 5.6.2(b) Excavating;
- SOP 5.6.2(c) Soil sampling;
- SOP 5.6.2(d) Field Screening measurements, including calibration procedures;
- SOP 5.6.2(e) Monitoring well installation;
- SOP 5.6.2(f) Monitoring well development;
- SOP 5.6.2(g) Field measurement of water quality indicators, including calibration procedures;
- SOP 5.6.2(h) Sediment sampling; and
- SOP 5.6.2(i) Ground water sampling.

(ii) Drilling and Excavating

(i) Borehole Drilling and Monitoring Well Installation.

The Phase Two ESA borehole drilling and monitoring well installation work was completed in three separate events: November 15th to 22nd, 2017; April 19th to 25th, 2018; and February 19th to 20th, 2020. Boreholes were advanced in 54 locations and 20 of the boreholes were completed as permanent monitoring wells. The maximum drilling depth was 22.87m bgs. The Phase Two ESA sampling locations are illustrated on **Figure 4**.

MTE retained Strata Drilling Group (Strata) of Markham, Ontario and Ground Force Environmental Inc. (GFEI), of Kitchener, Ontario, to complete the shallow borehole drilling and monitoring well installations at the Site. Strata and GFEI used track-mounted Geoprobe 7822DT and 6620DT drilling rigs to advance boreholes and install monitoring wells during the November 2017 (Strata), April 2018 (Strata) and February 2020 (GFEI) sampling events.

MTE retained Geo-Environmental Drilling Inc. (Geo-Environmental) of Acton, Ontario to complete the deep monitoring well installations at the Site. Geo-Environmental used a truck-mount CME 65 drill rig to install the monitoring wells. Strata, GFEI and Geo-Environmental are MECP licensed well contractors.

The drilling methods included advancement of split spoons (auger rig) or macro-core samplers (direct push rig) to collect continuous soil samples from each borehole where soil samples were to be collected under the SAP. Soils were logged by MTE for geological characteristics as well as visual and olfactory evidence of environmental impacts such as staining, odours or the presence of non-soil materials. The drilling equipment was cleaned between locations using soapy water and rinsed with a pressure washer, according to industry standard procedures, to avoid cross contamination. Soil cuttings were containerized in 205L drums that were temporarily stored on the Phase Two Property.

Deep monitoring wells BH109D, BH114D, BH118D and BH216D were advanced using telescopic drilling techniques to limit the potential for vertical cross-contamination. The telescopic drilling method is described in **Section 5(v)** below.

(iii) Soil Sampling

(i) Soil Sampling Equipment

Soil samples were collected from the split-spoon and macro-core samplers for field headspace screening and for potential laboratory analysis. Soil samples for F1 PHC, BTEX and VOC analyses were collected following USEPA SW-846 Method 5035 (field methanol preservation). This soil sampling procedure included collecting approximately 5 grams of sample from the undisturbed soil core using a Terra Core™ sampling device and placing the sample in a laboratory supplied VOC vial containing 10mL of methanol. Soil samples collected for moisture analyses were obtained directly from the soil core and placed into new laboratory supplied soil jars.

Soil samples for analysis of other parameters were placed directly into laboratory supplied glass sample jars. The MTE field technician utilized a stainless steel trowel that was cleaned between each sample using an Alconox detergent solution and distilled water rinse.

New nitrile gloves were worn during the handling of all samples, sampling equipment and sample jars and changed between each sample. The soil samples were placed in a cooler with ice for transportation to the analytical laboratory, ALS Laboratories of Waterloo, Ontario.

(ii) Geologic Description of Soil

The soil stratigraphy observed on the Site was consistent with the results of previous investigations with the upper unit at all borehole locations consisting of sand and gravel fill. The fill thickness on the Site was typically between approximately 1m and 2m with deeper areas observed in the central portion of the Site within the former soil remediation excavation areas. Native soils below the fill consisted of silty clay till to depths between 2m and 6m, overlying silty sand with intermittent sand and gravel seams. The silty sand/sand and gravel was found to extend to the shale bedrock surface encountered at depths of 4.0m to 6.7m. The shale bedrock extended to the maximum depth investigated of 22.87m bgs.

Borehole logs describing and illustrating the soil stratigraphy at each investigation location are included in **Appendix A2**. Geologic cross sections illustrating the soil stratigraphy are included on **Figures 7b** to **Figures 7f**.

(iv) Field Screening Measures

Soil samples were field screened by MTE using a pre-cleaned and calibrated RKI Instruments Eagle 2 multi-gas detector to measure total hydrocarbons and VOC gasses in the soil sample headspace. The Eagle 2 detection limits for VOCs are capable of 0-50ppm with 0.1ppm resolution or 200-2000ppm VOCs with 1ppm resolution. The Eagle 2 measures hydrocarbons in the 0-50,000ppm or 0-100% LEL ranges.

Equipment calibration was performed by MTE according to the manufacturer's recommendations to ensure proper operation in the field. The RKI Eagle 2 calibration process includes a fresh air/zero calibration and a single sensor calibration for VOCs using isobutylene and hydrocarbons using hexane. The fresh air/zero calibration to background conditions was completed by using a charcoal filter and ambient air. After completing a fresh air/zero calibration and moisture test response, a calibration test using isobutylene and/or hexane was completed.

(v) Groundwater Monitoring Well Installation

Groundwater monitoring wells were installed in 20 of the boreholes drilled by Strata, GFEI and Geo-Environmental, who are each MECP licensed well contractors.

Monitoring Well ID	Dates of Installation
BH101S, BH102S, BH103S, BH104S, BH105S, BH106S, BH107S, BH109D, BH110S, BH112S, BH113S, BH114D, BH117S, BH118D, BH120S	November 15-22, 2017
BH211S, BH212S, BH213S, BH216D	April 19-25, 2018
BH302S	February 19, 2020

The monitoring wells were installed in accordance with Ontario Regulation 903 and in consideration of the guidance document "*Test Holes and Dewatering Wells – Requirements and Best Management Practices*" (MOE, April 2014). MTE was present during the monitoring well installations to observe and document the well construction details. Nitrile gloves were worn by MTE and driller staff during all work with the monitoring wells, including water level checks. No groundwater samples were collected prior to installation of the permanent wells.

The water table monitoring wells (denoted by 'S' at the end of the location name) were constructed with 3.0m long, 50mm diameter, No. 10 slotted PVC screens. The monitoring well

pipe and screens were new materials, sealed in a protective plastic wrap from the manufacturer. The riser pipe and screen sections were pre-threaded with O-ring seals. No glues or solvents were used to connect the pipe or screen sections. A coarse grained (#3) sand pack was placed around and 0.3m to 0.5m above the well screens to allow for groundwater collection in the well. Bentonite (holeplug) was placed immediately above the sand pack to hydraulically isolate the screened portion of the well. The holeplug was manually hydrated with potable water at the time of placement.

Deeper monitoring wells (denoted by 'D' at the end of the location name) were installed via telescopic drilling techniques to limit the potential for cross-contamination between the stratigraphic units. The procedure for telescopic drilling included augering to a depth of approximately 7.6m (within the shale bedrock and below the more contaminated overburden groundwater) using oversized hollow stem augers. The larger augers were then filled with a cement slurry, which was left to set for 24 hours.

Tri-cone drilling was completed within the larger augers following the 24-hour period to a depth of approximately 4.6m above the planned screened interval using larger diameter tri-cone tooling. Narrower diameter tri-cone tooling was then used to advance the borehole, within the larger diameter tri-cone tooling, to the finished depth. The deep monitoring wells were installed through the smaller tri-cone tooling and were constructed with a 1.5m long, 50mm diameter, No. 10 slotted PVC screens. A coarse grained (#3) sand pack was placed around the well screens to allow for groundwater collection in the well. Approximately 2m of bentonite was placed immediately above the sand pack and was manually hydrated with potable water to hydraulically isolate the screened portion of the well. The entire borehole was then grouted to ground surface using the Tremie method (i.e., from the bottom up) as the tri-cone tooling and larger augers were removed.

Each monitoring well was completed with a monument steel protective casing, which was cemented in place. The well contractors filed MECP well records for the monitoring wells in accordance with Ontario Regulation 903. The monitoring well installation details are summarized in **Table 1** and illustrated on the borehole logs in **Appendix A2**.

The monitoring wells were developed by pumping using dedicated low density polyethylene (LDPE) tubing and a foot valve device or dedicated tubing and a peristaltic pump to remove standing water and foreign material that may have been introduced during drilling. Well development included removing a minimum of three well volumes.

(vi) Groundwater Field Measurements of Water Quality Parameters

Prior to the collection of groundwater samples, each of the new and existing wells were purged to remove stagnant/standing water from the well and the surrounding sand pack, and to allow for the collection of a representative groundwater sample from the surrounding formation. Purging was similarly completed using dedicated LDPE tubing and a foot valve or dedicated LDPE tubing and a peristaltic pump.

Field chemistry parameters including: conductivity, pH, temperature, dissolved oxygen, oxidation reduction potential (ORP) and turbidity were monitored during well development using a HORIBA U-52 Water Quality Meter. Well purging was considered complete when stabilized measurements were recorded and a minimum of three well volumes were removed.

(vii) Groundwater Sampling

Following purging and well development, groundwater samples were collected using dedicated LDPE tubing and either a peristaltic pump (where sampling depths were less than 6m or

20 feet) or a Geotech GeoControl Bladder pump (where sampling depths were greater than 6m).

Groundwater samples were collected from the new MTE monitoring wells and the previously installed monitoring wells and placed directly into laboratory-supplied sample bottles, sealed, labeled and stored in a cooler for transportation under chain-of-custody to ALS Laboratories of Waterloo, Ontario and Bureau Veritas (formerly Maxxam Analytics) of Mississauga, Ontario. Refer to **Table 10** for a summary of the groundwater samples submitted for analysis. Groundwater samples were collected from selected monitoring wells at the Site by MTE during multiple sampling events between April 2016 and March 2020, and submitted for analysis of the COPCs.

During the purging and sampling activities groundwater was examined for visual and olfactory evidence of impact. No sheen, odours, free product or other evidence of potential environmental contamination was observed.

(viii) Sediment Sampling

There is no sediment on the Phase Two Property and therefore no sediment samples were collected.

(ix) Analytical Testing

The soil and groundwater samples collected by MTE during this Phase Two ESA were submitted to ALS Laboratories of Waterloo, Ontario and Bureau Veritas (formerly Maxxam Analytics) of Mississauga, Ontario. ALS and Bureau Veritas are accredited by the Standards Council of Canada (SCC), in accordance with ISO/IEC 17025:2005 for the analysis of all parameters and samples in the scope of work for which site condition standards have been established under O.Reg.153/04. The ALS contact is Ms. Mary-Lynn Pike at 60 Northland Road, Waterloo, Ontario. Ms. Pike can be reached at 519-886-6910. The Bureau Veritas contact is Mr. Ronklin Gracian at 6740 Campobello Road, Mississauga, Ontario. Mr. Gracian can be reached at 905-817-5752.

(x) Residue Management Procedures

Soil cuttings, purge water and equipment cleaning water were temporarily stored in sealed, steel 205L drums in the central portion of the Phase Two Property. A representative soil sample labelled “TCLP” was collected from the soil drums for waste classification. The soil was classified as nonhazardous for shipment and disposal based on the Toxicity Characteristic Leaching Procedure (TCLP) results.

The investigative derived wastes were in the process of being managed at the time of this Phase Two ESA. A copy of the TCLP laboratory Certificate of Analysis is provided in **Appendix A4**. Copies of the waste management documents will be included in the final Phase Two ESA report.

(xi) Elevation Survey

A location and elevation survey of all boreholes and new and existing monitoring wells was completed by Mackay & Peters Limited of Burlington, Ontario using a total station on December 11, 2017. The elevation survey was completed to a geodetic datum and included the ground surface adjacent to each monitoring well and the top of the highest point on the well riser pipe, which was used as the groundwater level measuring point. The geodetic elevations of new

boreholes and wells (installed after the survey date) were surveyed by MTE. The geodetic monitoring well elevations are provided in **Table 2**.

(xii) Quality Assurance and Quality Control Measures

The following describes the QA/QC procedures that were implemented during the Phase Two ESA.

Sample Containers, Preservation and Sample Handling

All soil and groundwater samples were placed into new laboratory supplied containers, which were clearly labeled with a unique sample identifier, project number, MTE contact name and the requested analytical parameters. Soil samples for PHC F1, BTEX and VOC analyses were collected following USEPA SW-846 Method 5035 (field methanol preservation) as described in **Section 5. (iii)(i)**. Soil samples collected for other analyses were collected in 250ml unpreserved clear glass jars supplied by the laboratory.

The following details the container types and preservatives for each soil analysis group:

Soil Analysis Group	Container Type	Preservative
PHC F1, BTEX, VOCs	2 – 40ml Glass Vials	Methanol
PHC F2-F4, PAHs, ABNs, Metals, As, Sb, Se, Hg, Cr VI, HWS-B, CN-, EC, SAR, PCBs	2 – 250ml Clear Glass Jar	None

Groundwater samples analyzed for VOCs, BTEX and PHC F1 were placed in septum vials with Teflon® lined lids with zero head space. The following details the container types and preservatives for each groundwater analysis group:

Groundwater Analysis Group	Container Type	Preservative
PHC F1, VOCs, BTEX	3 – 40ml Glass Septum Vials	$NaHS0_4$
PHC F2-F4, PAHs	2 – 500ml Amber Glass Bottle	$NaHS0_4$
ABNs	2 – 1L Amber Glass Bottle	$NaHS0_4$
Metals, As, Sb, Se	1 – 125ml Plastic Bottle (Field Filtered)	HNO_3
Hg	1 – 40ml Clear Glass Bottle (Field Filtered)	HCl
Cr(VI)	1 – 60ml Plastic Bottle (Field Filtered)	$(NH_4)_2SO_4NH_4OH$

The samples were placed directly into insulated coolers with bags of ice to initiate cooling, and during transportation to the laboratory under Chain-of-Custody.

Equipment Cleaning

Equipment decontamination and sampling procedures were completed in accordance with the SAP and the document "*Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario"* (MOE, 1996). The water level probe, interface probe and sampling tools (e.g., trowel) were decontaminated between sampling locations. This was accomplished by cleaning equipment between each sample using an Alconox detergent solution and tap water rinse.

Field and Laboratory Quality Control Measures

Field logbooks and field forms were used by technical staff to record data collection and sampling activities. The equipment used to collect samples was noted, along with the time of sampling, sampling description, depth from which the samples were collected and volume and number of containers. All samples were accompanied by a completed chain of custody record, which listed the sample identification, sample dates and time, sample matrix, the number of containers and requested analysis.

Other field QA/QC procedures included:

- Adherence to MTE standard operating procedures (SOPs), which meet industry standards and MECP guidance for field sample data collection;
- The use of new and dedicated sampling equipment and supplies; and
- The collection and analysis of QC samples including blind duplicate samples and trip blanks.

Laboratory QA/QC procedures were implemented internally by the laboratory and carried out in accordance with the requirements of the *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.* Analytical results were validated through a review of the sample Chain-of-Custody forms and Laboratory Certificates of Analysis. The laboratory QA/QC assessment included a review of the following:

- Sample holding times and arrival temperatures;
- Laboratory analytical methods (i.e., MECP approved methods were used);
- Results were received for all of the requested samples and analyses;
- Laboratory surrogate recovery and spike sample results;
- Dilution factors and method detection limits;
- Duplicate sample analytical results;
- Laboratory Certificate of Analysis notes; and
- Analytical results as compared to visual/olfactory observations and historical results.

Analytical data precision was assessed by calculating the Relative Percent Difference (RPD) between the investigation sample results (C1) and the field duplicate sample results (C2). The RPD was calculated as follows:

$$RPD = 2 \left| C1-C2 \right| / (C1 + C2) \times 100\%$$

RPDs are only calculated where both C1 and C2 are detected at concentrations in excess of 10 times the reported detection limits. The RPD acceptance criterion was 50% for soil analysis and 30% for groundwater analysis. There were no deviations from the SAP with respect to QA/QC.

6.0 Review and Evaluation

(i) Geology

The soil stratigraphy observed on the Site was consistent with the results of previous investigations with the upper unit at all borehole locations consisting of sand and gravel fill. The fill thickness on the Site was typically between approximately 1m and 2m with deeper areas observed in the central portion of the Site within the former soil remediation excavation areas.

Native soils below the fill consisted of silty clay till to depths between approximately 2m and 6m, overlying silty sand with intermittent sand and gravel seams. The silty sand/sand and gravel was found to extend to the shale bedrock surface encountered at depths of 4.0m to 6.7m. The shale bedrock extended to the maximum depth investigated of 22.87m bgs.

The approximate relative elevations of the stratigraphic units were interpreted as follows:

Stratigraphic Unit	Elevation Range (masl)*	
	Upper	Lower
fill	98.26	96.10
silty clay till	97.69	91.74
silty sand/sand and gravel	94.50	91.20
shale bedrock	92.50	74.99**

**metres above mean sea level, **maximum drilled depth*

Evidence of potential contamination, including dark staining and elevated headspace readings, was noted at a number of borehole locations and are discussed in **Section 6 (v)** below. Borehole logs illustrating the soil stratigraphy at each investigative location are included in **Appendix A2**. Geologic cross sections illustrating the soil stratigraphy are included on **Figures 7b** through **7f**.

One continuous aquifer was identified below the Site, which extends from the water table, which occurs in the overburden, into the shale bedrock. There were no unsaturated zones or aquitards identified on the Site during the Phase Two ESA and the measured depth to groundwater between overburden and upper bedrock wells was generally similar. Groundwater was investigated through the sampling of 28 existing monitoring wells and the installation of 20 additional monitoring wells on the Site with well screens placed at four general depth intervals, including:

- Shallow overburden monitoring wells were installed within the silty clay till (or deeper fill) and with screens that cross the water table;
- Deeper overburden wells were installed within silty sand and/or sand and gravel unit above the bedrock;
- Shallow bedrock wells were installed within the upper more fractured bedrock; and
- Deeper bedrock monitoring wells were installed with well screens at depths between approximately 16.77m and 22.87m to further delineate the vertical extent of VOCs in groundwater.

The monitoring well construction details are summarized in **Table 1**. Well screen intervals are also illustrated on the cross section figures.

(ii) Groundwater Elevations and Flow Direction

During this Phase Two ESA groundwater levels were measured on seven occasions between November 1st, 2017 and March 5th, 2020. The depth to the water table was measured between 0.08m and 2.83m bgs. The measured groundwater levels and their respective geodetic elevations that were calculated based on the elevation survey results are summarized in

Table 2. It is noted that the shallowest groundwater levels were measured in wells installed within the former remediation excavation areas and may be influenced by the presence of deeper fill.

Groundwater flow contours were developed based on the May 14th, 2018 groundwater elevations in the shallow screened wells, and are illustrated on **Figure 6**. The inferred groundwater flow direction was southerly in the overburden, which was the expected flow direction based on local and regional topography.

As discussed in **Section 5 (vii)**, during the purging and sampling activities no sheen, odours, free product or other evidence of potential environmental contamination was observed. MTE used an interface probe during all measurement events to determine if separate-phase liquids (i.e., LNAPL or DNAPL) were present on the Site. There was no detection or thickness of separate-phase liquids measured.

Given the depth to groundwater in the shallow-screened wells (shallowest measured 0.08m bgs) there is a potential that underground utilities on the Site may interact with the water table. The estimated locations of underground utilities are illustrated on **Figure 2a**. The depths of the utilities are not known, but it is assumed that most would be installed below 1m and therefore potentially in contact with the water table. The potential for utilities to affect contaminant transport is further discussed in **Section 6 (vii)(ii)**.

(iii) Groundwater Hydraulic Gradients

(i) Horizontal Hydraulic Gradients

Based on data collected on May 14th, 2018, the geodetic groundwater elevations in the shallow screen interval ranged from approximately 96.63m asl at BH105S in the northern portion of the Site to 96.02m asl at BH212S located in the southeastern portion of the Site. These wells are located approximately 82m apart. This represents a horizontal hydraulic gradient of approximately 0.007m/m at the water table (silty clay till).

Based on the same measurement event, the geodetic groundwater elevations in the bedrock wells ranged from approximately 95.58m asl at BH1D in the northwestern portion of the Site to 94.55m asl at BH45D located in the central/southeastern portion of the Site. These wells are located approximately 60m apart. This represents a horizontal hydraulic gradient of approximately 0.02m/m.

Hydraulic conductivity tests were completed by MTE on three wells screened within the silty clay till (BH102S, BH106S and BH212S). In addition, aquifer properties were calculated as part of a previous investigation (MTE, 2015) for wells screened within the shale bedrock (BH12D, BH13D, BH19D, BH43D). The results were as follows:

Well Location	Estimated Hydraulic Conductivity (m/s)
Silty Clay Till	
BH102S	5.60×10^{-8}
BH106S	1.49×10^{-7}
BH212S	3.34×10^{-7}
Shale Bedrock	
BH12D	3.61×10^{-6}
BH13D	3.63×10^{-6}

Well Location	Estimated Hydraulic Conductivity (m/s)
BH19D	5.35×10^{-6}
BH43D	3.52×10^{-8}

The average calculated hydraulic conductivity (geometric mean) of the silty clay till unit was 1.40×10^{-7} m/s. The average calculated hydraulic conductivity of the shale bedrock was 1.25×10^{-6} m/s.

Using the average hydraulic conductivity and the horizontal hydraulic gradient calculated for the shallow wells above, the average linear groundwater velocity was calculated using:

$$q = (-Ki)/n \rightarrow \text{(flux/porosity)}$$

Where:

q = groundwater flux (m^3/m^2/time)

K = effective hydraulic conductivity (m/sec)

i = horizontal hydraulic gradient (m/m)

n = soil porosity (0.35 to 0.50 for silty clay; 0.10 for shale, Freeze and Cherry, 1979)

The average linear groundwater velocity in the silty clay till unit was estimated to range between approximately 0.06m/year and 0.09m/year. The average linear groundwater velocity in the shale bedrock was estimated to be approximately 7.8m/year.

(ii) Vertical Hydraulic Gradients

Vertical hydraulic gradients were determined based on the measured depth to groundwater between adjacent shallow and deeper screened wells and the vertical distance between the mid-point of the shallow and deeper well screens. The average vertical hydraulic gradient between the shallow screens (those screened within the overburden) and deeper screens (those screened in the shallow shale bedrock) as measured at three locations (BH1S and BH1D; BH211S and BH14D; and BH212S and BH13D) was calculated to be 0.04m/m, which suggests a potential for downward movement of groundwater. It is noted that historically, periodic upward gradients have also been observed.

(iv) Fine-Medium Soil Texture

The analytical results for soil and groundwater samples were compared to the Site Condition Standards for medium-fine textured soils. The results of three soil grain size analysis from the native silty soils (silty clay till and silty sand) beneath the Site characterized the soil as fine grained (greater than 50% of soils did pass through the 0.75 micrometer sieve). The native silty soils represent greater than 2/3 of soil at the Site by volume.

(v) Soil: Field Screening

Soil samples were screened in the field using a pre-cleaned and calibrated RKI Instruments Eagle 2 multi-gas detector as described in **Section 5 (iv)** to measure total hydrocarbons and VOCs in the soil sample headspace. The field screening measurements are included on the borehole logs in **Appendix A2**.

The results of the field screening indicated elevated vapour measurements for VOCs in a number of soil samples. Visual and olfactory indicators of contamination were noted at two locations where intervals with elevated headspace measurements were noted, as outlined

below:

Sample Location	Observations	Sample Depth (m bgs)	Maximum Headspace Reading (ppmv)
BH101S	No obvious evidence of contamination.	4.57-4.73m	250
BH102S	No obvious evidence of contamination.	4.28-4.52m	560
BH108S	Dark staining and odours noted.	2.74-3.35m	30
BH109D	No obvious evidence of contamination.	2.29-2.90m	62
BH113S	Odours noted.	2.44-3.05m	1200
BH118D	No obvious evidence of contamination.	3.35-3.96m	241
BH201S	No obvious evidence of contamination.	4.57-4.73m	155
BH212S	No obvious evidence of contamination.	3.05-3.66m	320
BH213S	No obvious evidence of contamination.	3.05-3.66m	1050

(vi) Soil Quality

The COPCs for soil identified in the Phase One ESA included metals, hydride-forming metals (As, Sb, Se), mercury (Hg), hexavalent chromium (Cr VI), hot water soluble boron (B-HWS), cyanide (CN^-), polycyclic aromatic hydrocarbons (PAHs), acid/base/neutral compounds (ABNs), polychlorinated biphenyls (PCBs), petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene and xylene (BTEX) and volatile organic compounds (VOCs) in soil and groundwater. The COPCs for each APEC are summarized in the APEC table.

The analytical results for soil (MTE and historical samples) are summarized in **Table 4** through **Table 9**, along with a comparison to the 2011 Table 2 RPI SCSs. Laboratory Certificates of Analysis for all MTE samples relied upon in this Phase Two ESA are provided in **Appendix A3**. The following sections summarize the analytical results for soil for each Method Group.

(i) Metals and Other Regulated Parameters

Samples of soil fill and native soil (25 samples) were collected from across the Site and submitted for analysis of metals and hydride-forming metals including arsenic (As), antimony (Sb) and selenium (Se). Six of these soil samples were also submitted for analysis of CN^- and 12 samples were submitted for analysis of Hg, Cr(VI) and B-HWS. The analytical results are summarized in **Table 4**.

Metals and Hydride-forming Metals

The analytical results for cadmium, copper and zinc were above the 2011 Table 2 RPI SCSs in a sample of soil fill from BH120S, located in the northeastern portion of the Site (see **Figure 7a**). The analytical results for metals in all other samples of soil fill from across the Site were below

the 2011 Table 2 RPI SCSs, suggesting the horizontal extent of metals contamination is localized and has been delineated. The analytical results for metals in a sample of the underlying native soils from BH120S were below the 2011 Table 2 RPI SCSs, suggesting the metals contamination is limited to the fill and that the vertical extent has been delineated (refer to cross section **Figures 7b** through **7f**).

The analytical results for As, Sb and Se were below the 2011 Table 2 RPI SCSs with the exception of arsenic in one sample of soil fill from BH115S (see **Figure 7a**) located in the central portion of the Site. The remaining fill and native soil samples, including those submitted from a lower interval at BH115S, were below the 2011 Table 2 RPI SCSs and the extent of As was laterally and vertically delineated (refer to cross section **Figures 7b** through **7f**).

Chromium (VI), Mercury, Cyanide and Hot Water Soluble Boron

The analytical results for chromium (VI), Hg, CN^- and B-HWS were below the 2011 Table 2 RPI SCSs in samples of soil submitted from across the Phase Two Property.

(ii) pH

Ten soil samples were submitted for pH determination. The results for soil pH were between 7.52 and 7.86, within the acceptable range of 5.0-9.0 for surface soil (less than 1.5m bgs) and 5.0-11.0 for subsurface soil (greater than 1.5m bgs).

(iii) Electrical Conductivity and Sodium Adsorption Ratio

Samples of soil fill and native soil were collected from across the Site and submitted for analysis of EC (12 samples) and SAR (6 samples). The analytical results are summarized in **Table 4**. The results for EC and SAR were below the 2011 Table 2 RPI SCSs.

(iv) Acid-Base-Neutral Compounds (ABNs) and Polycyclic Aromatic Hydrocarbons (PAHs)

Samples of native soil and soil fill were collected and submitted for analysis of ABNs (3 samples in the area where the former machine shop was located - APEC 6) and PAHs (19 samples from across the Site). The analytical results are summarized in **Table 5** (ABNs) and **Table 6** (PAHs).

ABNs were not detected in the soil samples and the laboratory detection limits were below the 2011 Table 2 RPI SCSs.

The analytical results for one sample of soil fill from BH111S, located in the western portion the Site, had two PAHs (benzo(a)pyrene and fluoranthene) above the 2011 Table 2 RPI SCSs (see **Figure 8a**). The remaining fill and native soil samples, including those submitted from a lower interval at BH209S (located within 1m of BH111S), were below the 2011 Table 2 RPI SCS and the extent of PAHs was considered to be laterally and vertically delineated (refer to cross section **Figures 8b** through **8e**).

(v) Polychlorinated Biphenyls (PCBs)

Samples of soil fill were collected from seven borehole locations (eight samples total) located within and around the footprint of the former waste oil UST area (APEC 2) and the former transformer area (APEC 9) and submitted for analysis of PCBs. The analytical results are summarized in **Table 7** and were below the 2011 Table 2 RPI SCSs.

(vi) Petroleum Hydrocarbons (PHCs) Fractions F1-F4

Samples of native soil and soil fill (55 samples) were collected from across the Site and submitted for analysis of PHCs. The analytical results are summarized in **Table 8** and were

below the 2011 Table 2 RPI SCSs with the exception of F2 and F3 PHCs in one sample from BH108S (2.74-3.05m) (see **Figure 9a**).

The laboratory reportable detection limit (RDL) for F1 PHCs was elevated (above the 2011 Table 2 RPI SCS) in two samples of native soil, one from each of BH108S and BH113S. The concentrations of PHCs were below the 2011 Table 2 RPI SCSs in all other fill and native soil samples from across the Site, including those from a deeper interval at BH108S and BH113S and at BH210S (located within 1m of BH108S), indicating lateral and vertical delineation was achieved (refer to cross-section on **Figure 9b, 9c** and **9d**).

(vii) Benzene, Toluene, Ethylbenzene and Xylenes (BTEX)

Samples of soil fill and native soil (112 samples) were collected from across the Site and submitted for analysis of BTEX. The analytical results are summarized in **Table 9** and were below the 2011 Table 2 RPI SCSs.

(viii) Volatile Organic Compounds (VOCs)

Samples of native soil and soil fill (110 samples) were collected from across the Site and submitted for analysis of VOCs. The analytical results are summarized in **Table 9** and identified the following chlorinated VOC compounds at concentrations above the 2011 Table 2 RPI SCSs in the central and southeastern areas of the Site as illustrated on **Figure 10a**.

- tetrachloroethylene (PCE)
- trichloroethylene (TCE)
- 1,1-dichloroethylene (1,1-DCE)
- cis-1,2-dichloroethylene (c-1,2-DCE)
- vinyl chloride (VC)
- 1,1,2-trichloroethane (1,1,2-TCA)

The analytical results for all other analyzed VOCs were below the 2011 Table 2 RPI SCSs.

The sample intervals where VOCs were found at concentrations above the 2011 Table 2 RPI SCS generally ranged from 2.74m bgs to the shale bedrock surface (encountered between 4.0 and 6.7m bgs) (refer to cross section **Figures 10b** and **10c**). Some areas with more shallow VOC impacts to soil (<2m bgs) were identified in the northwestern (BH109D), central (BH113S) and southeastern (BH118D) areas of the Site.

The concentrations of VOCs in soil samples submitted from boreholes along the eastern and western boundaries of the Site, and from similar depth intervals as the impact soils identified in the central portion of the Site were below the 2011 Table 2 RPI SCS, suggesting the lateral extent of VOCs in soil to the east and west has been delineated (see **Figure 10a**).

(ix) Summary of Soil Analytical Results

The results of the soil sampling completed during the Phase Two ESA indicated the following with respect to the extent and potential sources of the COCs in soil:

- Soil samples that exceeded the 2011 Table 2 RPI SCSs for metals, arsenic and PAHs were limited to the fill unit and have been laterally and vertically delineated. The source of these COCs was inferred to most probably be related to on-Site PCA 30 – Importation of fill material of unknown quality (APEC 4 and APEC 5). The three sampling locations where these parameters exceeded the Table 2 RPI SCSs (BH115S and BH120S for metals, BH111S for PAHs) were located within the

footprint of the former soil remediation areas (central, eastern and northwestern portions of the Site) and the impacts were identified to depths of 1.2m bgs. There is also a potential for contribution of these parameters from the former machine shop activities (PCA 34, APEC 6).

- PHCs in soil were identified above the 2011 Table 2 RPI SCSs at three borehole locations (BH102S, BH108S and BH113S) in areas where petroleum products and petroleum wastes were historically stored, and where soil remediation for PHCs was previously completed. Specific sources may have included one or more of the drum storage area (PCA 8, APEC 1), the former waste oil USTs (PCA 28, APEC 2) or the former gasoline AST (PCA 28, APEC 3). The depth of PHC contamination ranged from 2.44 to 3.05m bgs and the analytical results for PHCs in all other samples on the Site, including from shallower and deeper intervals in the PHC area, were below the 2011 Table 2 RPI SCSs and therefore these impacts have been laterally and vertically delineated.
- The lateral extent of VOCs in soil above the 2011 Table 2 RPI SCSs was interpreted to extend from the northern to the southern Site boundaries within the central portion of the Site. Based on the analytical results, the lateral extent has also been delineated to the east and west. VOCs were identified in some samples of shallow fill, but were primarily above the 2011 Table 2 RPI SCSs in native soils at or below the water table. The vertical limit is the shale bedrock surface, encountered between 4.0 and 6.7m bgs.
- The VOCs in soil were interpreted to be a result of multiple sources including the use and storage of TCE (i.e., spills) by the former on-Site machine shop operations (PCA 34, APEC 6 and PCA 51, APEC 7) and as a result of VOC impacted groundwater migrating onto the Site from an off-Site source, specifically from multiple leaking TCE USTs at 2360/2380 McDowell Road (PCA 43, APEC 15 and PCA 51, APEC 16) (i.e., heavily contaminated groundwater acted as a source of VOC mass to soil).
- The soil analytical results indicate that the lateral and vertical extent of the COCs in soil on the Site has been delineated as illustrated in **Figures 7a** through **10c**.

Contaminants Related to Chemical or Biological Transformations

The presence of 1,1-DCE, c-1,2-DCE, t-1,2-DCE and VC in soil and groundwater on the Site were interpreted to be a result of the reductive dechlorination of TCE (i.e., breakdown of TCE by naturally occurring bacteria), as well as the migration of these parameters to the Site in groundwater from up-gradient sources to the north.

Soil as a Source of Contaminant Mass to Groundwater

The potential for COCs to be a source of contaminant mass to groundwater was further assessed through the collection of groundwater samples and is discussed in **Section 6(iv)**.

Potential Presence of Light or Dense Non-Aqueous Phase Liquids

No evidence of LNAPL or DNAPL was observed during the borehole drilling activities. The concentrations of the COCs in soil do not suggest the potential for LNAPL or DNAPL to be present, with the maximum concentrations of all COCs being well below their respective Free Phase Thresholds as provided in the MECP document *Rational for the Development of Soil and Ground Water Standards for Use at Contaminated Sites in Ontario, April 2011*.

(vii) Groundwater Quality

The COPCs for groundwater identified in the Phase One ESA included metals (including hydride-forming metals), Cr (VI), Hg, CN^-, ABNs, PAHs, PCBs, PHCs, BTEX and VOCs. The groundwater samples submitted for analysis during this Phase Two ESA and the previous investigations (from 2016 to present) are summarized in **Table 10**.

The analytical results for groundwater are summarized in **Table 11** through **Table 16**, along with a comparison to the 2011 Table 2 RPI SCSs. Laboratory Certificates of Analysis for all samples relied upon in this Phase Two ESA are included in **Appendix A3**.

The analytical results for groundwater were below the 2011 Table 2 RPI SCSs for all of the analyzed parameters with the exception of one metal (uranium) and VOCs.

(i) Metals and Other Regulated Parameters

Groundwater samples were collected from monitoring wells located across the Site, including shallow and deeper well screened intervals, and submitted for analysis of metals, hydride-forming metals (As, Sb and Se), Cr VI and Hg. Groundwater samples were also submitted for analysis of CN^- (5 samples). All groundwater samples collected for metals were field filtered using a high capacity 0.45 micron in-line filter. The analytical results for metals and ORPs are summarized in **Table 11**.

The analytical results for uranium in two groundwater samples collected from well BH104S were marginally above the 2011 Table 2 RPI SCS (concentrations of 21µg/L and 22.9µg/L versus 2011 Table 2 RPI Standard of 20µg/L). The results for uranium in all other groundwater samples submitted for analysis were below the 2011 Table 2 RPI SCS (as shown in plan view on **Figure 11a**). The extent has been laterally and vertical delineated (see cross-section **Figures 11b, 11c** and **11d**).

The analytical results for all other metals, hydride-forming metals, Cr(VI), Hg and CN^- and were below the 2011 Table 2 RPI SCSs in the groundwater samples submitted for analysis.

It is noted that the concentration of cobalt in a historical groundwater sample collected in 2012 from BH40S (well destroyed) was above the 2011 Table 2 RPI SCS. MTE installed and sampled a replacement monitoring well (BH113S) adjacent to former well location BH40S, which was sampled for metals in June 2018. The analytical result for cobalt in this sample was below the laboratory RDL and the RDL was below the 2011 Table 2 RPI SCS. Based on this result, and the absence of cobalt as a COC in groundwater in the other wells at the Site, the QP_{ESA} has R-Qualified (rejected) the sample result for cobalt from BH40S, and cobalt was not considered a COC in groundwater. Further discussion on the rationale for rejecting this data is provided in **Section 6(x)** below.

(ii) Volatile Organic Compounds (VOCs)

Groundwater samples were submitted for analysis of VOCs (249 samples) from wells located across the Site and from multiple depth intervals. The analytical results are summarized in **Table 16** and are illustrated on **Figure 12a** in plan view and indicate the following:

- Eight chlorinated VOCs were detected in groundwater at concentrations above the Table 2 RPI SCSs; PCE, TCE, 1,1-DCA, 1,1-DCE, c-1,2-DCE, t-1,2-DCE, VC and 1,1,2-TCA.
- The lateral extent of VOCs in groundwater was inferred to extend across the entire Site, with the exception of the northeastern and northwestern corners. The vertical extent of VOCs in groundwater has been delineated based on the analytical results for groundwater samples collected from the two deepest bedrock wells BH118D and

BH216D, both screened at depths of 21.35 to 22.87m bgs, as depicted on cross-section **Figures 12b**, **12c** and **12d**.

(iii) Summary of Groundwater Results

The results of the groundwater sampling indicated the following with respect to the potential sources and extent of the COCs in groundwater:

- Uranium was detected in groundwater at concentrations above the 2011 Table 2 RPI SCSs at one location (BH104S) located in the southwestern portion of the Site. The analytical results in groundwater for uranium were below the 2011 Table 2 RPI SCSs in all other analyzed samples and uranium was not detected in the soil samples submitted for analysis. The lateral and vertical extent has been delineated. The specific source of uranium in groundwater is not known but may be related to the former machine shop activities (PCA 34, APEC 6).
- Eight chlorinated VOCs were detected in groundwater at concentrations above the Table 2 RPI SCSs; PCE, TCE, 1,1-DCA, 1,1-DCE, c-1,2-DCE, t-1,2-DCE, VC and 1,1,2-TCA.
- The lateral extent of VOCs in groundwater was inferred to extend across the entire Site, with the exception of the northeastern and northwestern corners. The vertical extent of VOCs in groundwater has been delineated based on the analytical results for groundwater samples collected from the two deepest bedrock wells BH118D and BH216D, both screened at depths of 21.35 to 22.87m bgs.
- The VOCs in groundwater were interpreted to be a result of both on-Site sources, including the use and storage of TCE (i.e., spills) by the former on-Site machine shops (PCA 34, APEC 6 and PCA 51, APEC 7), and an off-Site source, specifically VOC impacted groundwater migrating onto the Site and originating from multiple leaking TCE USTs at 2360/2380 McDowell Road (PCA 43, APEC 15 and PCA 51, APEC 16).

<u>Soil as a Source of Contaminant Mass to Groundwater</u>

The results of the groundwater sampling did not find that metals (including As, Sb, Se), PAHs and PHCs in soil were acting as a source of contaminant mass to groundwater.

The VOCs in soil on the Site have the potential to be acting as a source of VOC mass to groundwater. VOCs mass in groundwater on the Site is also interpreted to be a result of the migration of VOC-impacted groundwater to the Site.

VOCs in soil at concentrations above the Table 2 RPI SCSs at the northern Site boundary and at depths below the water table were also interpreted to be a result of highly contaminated groundwater migrating onto the Site (i.e., groundwater acting as a source of contaminant mass to soil).

<u>Chemical or Biological Transformations</u>

The presence of 1,1-DCE, c-1,2-DCE, t-1,2-DCE and VC in groundwater was interpreted to be a result of the natural reductive dechlorination of TCE (i.e., breakdown of TCE by anaerobic bacteria).

Potential for the Presence of LNAPL or DNAPL

The dissolved concentrations of the COCs in groundwater on the Site were all well below the ½ solubility values as provided in the document *Rational for the Development of Soil and Ground Water Standards for Use at Contaminated Sites in Ontario, MOE, April 2011* and do not suggest the potential for LNAPL or DNAPL formation. MTE measured water levels in all wells on the Site using an interface probe and no separate-phase liquids were detected and no evidence of LNAPL or DNAPL was observed during the groundwater sampling activities.

Groundwater Concentration Trends

The Phase Two ESA analytical data suggests that the concentrations of TCE and TCE degradation products are declining in the majority of wells on the Site; however, there are some wells where concentrations show an increasing trend. In particular:

- Bedrock wells BH1D (up-gradient property boundary), BH15D (central portion of the property) and BH45D (down-gradient end of the property); and
- Overburden wells BH3S and BH8S at the southern end of the Site.

The increasing concentrations in bedrock groundwater are interpreted to be a result of VOC impacted groundwater continuing to migrate onto the Site from properties to the north as a result of the subsurface release of TCE from the leaking USTs at 2360/2380 McDowell Road. The reason for the recent localized increases in TCE concentrations in monitoring wells BH3S and BH8S is not known as there have been no Site activities since prior to 1989 that have used TCE. The Site has only been used for car dealer overflow parking.

The QP_{ESA} is satisfied that the Phase Two ESA scope of work that was completed has identified the current maximum concentrations of the COCs on the Site.

(viii) Quality Assurance and Quality Control Results

A data quality review process was implemented in the field and laboratory to demonstrate that the physical and analytical data that were generated during the Phase Two ESA were suitable to assess the site conditions and for comparison to the applicable 2011 Table 2 RPI SCSs. Field QA/QC procedures included:

- Adherence to the SAP and MTEs SOPs, which meet industry standards and MECP guidance for field sample data collection;
- The use of new laboratory-supplied sample containers;
- The use of new and dedicated sampling equipment;
- Implementing equipment cleaning procedures; and
- The collection of QC samples (blind field duplicates and trip blanks).

Laboratory QA/QC procedures were implemented internally by the laboratory and validated through a review of the sample Chain-of-Custody forms and Laboratory Certificates of Analysis. The laboratory QA/QC assessment included a review of the following:

- Sample holding times and arrival temperatures;
- Laboratory analytical methods (i.e., MECP approved methods were used);
- Results were received for all of the requested samples and analyses;
- Laboratory surrogate recovery and spike sample results;

- Dilution factors and method detection limits;
- Duplicate sample analytical results;
- Laboratory Certificate of Analysis notes; and
- Analytical results as compared to visual/olfactory observations.

Laboratory QA/QC Assessment

Laboratory Certificates of Analysis for all soil and groundwater samples analyzed and relied upon during this Phase Two ESA are included in **Appendix A3**. ALS Laboratories and Bureau Veritas are accredited by the Standards Council of Canada (SCC) in accordance with ISO/IEC 17025:2005 for the analysis of all parameters and samples in the scope of work for which Site Condition Standards have been established under O.Reg.153/04.

The lab reports meet the requirements of S.47 (2b) and (3) of O.Reg.153/04 and are signed by the lab managers. ALS and Bureau Veritas indicated that all samples were received in good condition. There were no lab qualifiers with respect to temperature, holding time, preservation method or sample container.

Field QA/QC Assessment

Quality Control Samples

Trip blank samples of ultra-pure water were prepared by the laboratory and submitted by MTE with samples collected on November 24th, 2017, November 28th, 2017, December 1st, 2017, April 24th, 2018, May 9th, 2018 and March 5th, 2020. The trip blanks remained with the sample containers prior to and after sampling, were pre-labeled “TRIP BLANK” and submitted for analysis of VOCs. There were no detections of VOCs in the samples suggesting no outside influences by VOCs during sample container and sample storage and transport.

Analytical data precision was assessed by calculating the Relative Percent Difference (RPD) between the investigation sample results (C1) and the field duplicate sample results (C2). The RPD was calculated as follows:

$$RPD = 2\ |C1-C2|\ /\ (C1 + C2) \times 100\%$$

RPDs are only calculated where both C1 and C2 are above the analytical method detection limits. During this Phase Two ESA the following field duplicate samples were submitted for analysis by MTE:

Sample Name	Field Duplicate	Media	Analysis
BH101 (15-15.5)	BH1010 (15-15.5)	Soil	PHCs, VOCs
BH102 (9-10)	BH1020 (9-10)	Soil	VOCs
BH109 (8-9)	BH1090 (8-9)	Soil	VOCs
BH115 (2-4)	BH1150 (2-4)	Soil	Metals, PAHs
BH116 (13-14)	BH1160 (13-14)	Soil	PHCs
BH118 (11-13)	BH1180 (11-13)	Soil	VOCs
BH204-18 3-4	BH1204-18 3-4	Soil	Metals, PAHs
BH210-18 18-19.5	BH1210-18 18-19.5	Soil	PHCs
BH215-18 1-2	BH1215-18 1-2	Soil	PCBs

Sample Name	Field Duplicate	Media	Analysis
BH302S 1-2	BH1302S 1-2	Soil	PHCs, VOCs
BH307S 1-2	BH1307S 1-2	Soil	PHCs, VOCs
BH3S	BH30S	Groundwater	PHCs
BH8S	BH8S0	Groundwater	VOCs
BH47S	BH470S	Groundwater	VOCs
BH48S	BH48S0	Groundwater	VOCs
BH109D	BH1090D	Groundwater	VOCs
BH110S	BH1100	Groundwater	VOCs
BH113S	BH11300	Groundwater	VOCs
BH211S	BH2110S	Groundwater	PHCs, BTEX
BH302S	BH1302S	Groundwater	PHCs, VOCs

Field duplicate RPD control limits were set at 30% for groundwater and 50% for soil. Where the concentration of the sample (C1) or field duplicate (C2) are less than 10 times the laboratory detection limits, lower precision is expected and the screening-level criterion does not apply.

The calculated RPDs for the samples and their field duplicates met the screening criteria of less than 50% for soil and 30% for groundwater for all of the analyzed parameters where a calculation could be completed, with the exception of copper in a soil sample submitted from BH115S. The original (61.2µg/g) and duplicate (121µg/g) sample concentrations were approximately 65% different, above the threshold for soil samples of 50%. Both concentrations were below the Table 2 RPI SCS of 180 µg/g, there was no change to the interpretation of the data, and the elevated RPD was not interpreted to be a data quality concern. No other potential concerns for data quality were identified and the analytical results were considered to be suitably precise.

Data Validation

Based on a review of the QC samples and QA program results, the analytical and field data was considered to be suitable for evaluation of the Site conditions and the soil and groundwater analytical results were considered to be suitable for comparison to the 2011 Table 2 RPI SCSs based on the following:

- The sampling program design was appropriate to characterize the subsurface media in each APEC.
- Soil samples were collected using industry standard methods in laboratory supplied containers, and transported in insulated coolers containing ice under Chain-of-Custody to the laboratory. No concerns with respect to sample collection, handling or control were noted.
- The field methods and laboratory methods were kept consistent throughout the Phase Two ESA sampling program and the analytical results were consistent with field observations and field screening results.
- Analytical results were obtained for all the samples submitted for analysis.
- The analytical results for similar samples of like materials across the Site gave similar and/or expected results.

- No concerns were noted with respect to lab internal quality indicators (e.g., surrogate recoveries) or Certificate of Analysis notes.
- No analytical results were rejected by the laboratory.

Elevated Detection Limits

The data validation process included a detailed review of the analytical data set by the QP_{ESA}. The results of the review identified elevated laboratory RDLs (i.e., above the 2011 Table 2 RPI SCSs) for some parameters in soil and groundwater. The following table summarizes the parameters where potential RDL issues were identified during the Phase Two ESA and whether these parameters were considered to be a COC.

Parameter with Elevated RDL	Media	COC	Rationale
PHC F1	Soil	Yes	• PHC F1 was identified as a COC in soil on the Site based on the results of other samples.
1,1,2-trichloroethane	Soil	Yes	• 1,1,2-trichloroethane was detected at concentrations above the 2011 Table 2 RPI SCSs in soil at other locations on the Site.
1,1,2,2- tetrachloroethane	Soil	No	• This parameter was not detected in other soil and groundwater samples collected from the Site. • The elevated RDLs were only noted in 2 of 87 soil samples submitted for VOC analysis.
benzene trans-1,2-dichloroethylene 1,1-dichloroethane 1,1,2-trichloroethane vinyl chloride	GW	Yes	• All of these parameters were detected in other soil and groundwater samples at the Site, some at concentrations above the Table 2 RPI SCSs.
bromodichloromethane bromoform bromomethane dibromochloromethane 1,2-dichlorobenzene 1,4-dichlorobenzene 1,2-dichloropropane 1,3-dichloropropene ethylbenzene methylene chloride methyl tert-butyl ether styrene 1,1,1,2-tetrachloroethane 1,1,2,2-tetrachloroethane 1,1,1-trichloroethane	GW	No	• These parameters were not detected in soil samples or other groundwater samples collected from the Site. • The results for subsequent groundwater samples analyzed for these parameters at the same locations with the elevated RDLs, had reported RDLs below the Table 2 RPI SCSs.

Rejected Data

As described in detail in **Section 3(ii)** of this report, soil and groundwater analytical data collected at the Site between the late 1990s and early 2000s, and groundwater data collected prior to 2015 was not considered to be representative of current site conditions. The following additional Phase Two ESA or historical groundwater analytical results were rejected on the basis that subsequent samples collected from the same well during the Phase Two ESA using better quality sampling procedures (i.e., low-flow minimal drawdown) could not reproduce the historical results. These rejected results were not considered to be representative of dissolved groundwater concentrations on the Site, and were not used in the evaluation of groundwater quality. The data that was rejected included the following:

Sample Location	Analysis R-Qualified	Rationale
BH3S	F1 PHC (Nov 24, 2017)	• The laboratory detection limits were raised due to high concentrations of other analytes (TCE). • Initial sampling results for F1 PHC were not consistent with subsequent and more recent sampling events using better sampling procedures where results were below the 2011 Table 2 RPI SCSs.
BH102S BH113S	F1 PHC (Nov 24, 2017)	• The laboratory detection limits were raised due to high concentrations of other analytes (TCE). • Initial sampling results for F1 PHC were not consistent with subsequent and more recent sampling events using better sampling procedures where results were below the 2011 Table 2 RPI SCS and/or below a standard RDL.
BH13D	F1 PHC (June 11, 2018)	• The Certificate of Analysis indicated the sample contained visible sediment (that must be included as part of analysis) and that measured concentrations can be biased high due to presence of sediment. • The initial sampling result for F1 PHC was not consistent with a subsequent and more recent sampling event using better sampling procedures where results were below the 2011 Table 2 RPI SCSs (not detected).
BH213S	F1 PHC (April 24, 2017) F1 PHC (May 23, 2018)	• For the April 2017 result, the laboratory detection limits were raised due to high concentrations of other analytes (TCE). • For the May 2018 result, the Certificate of Analysis indicated the sample contained visible sediment (must be included as part of analysis) and that measured concentrations can be biased high due to presence of sediment. • The initial sampling results for F1 PHC were not consistent with subsequent and more recent sampling events using better sampling procedures where results were below the Table 2 RPI SCSs (not detected).

Sample Location	Analysis R-Qualified	Rationale
BH40S	cobalt (May 4, 2012)	• The initial sample result for cobalt was collected by others in 2012 and this well was destroyed prior to the Phase Two ESA. • Cobalt was not detected (below standard RDL) in a groundwater sample collected from replacement monitoring well BH113S. • Cobalt was not detected at concentrations above the Table 2 RPI SCSs in any other soil or groundwater samples collected from the Site.
BH101S	benzo(a)pyrene (November 24, 2017)	• Suspected high bias due to sediment collected with samples. • Results for PAHs not consistent with subsequent and more recent sampling events using better sampling procedures.

Overall the QP_{ESA} was satisfied that the objectives of the Phase Two ESA were met and that the data set has allowed appropriate decisions to be made regarding the environmental conditions of the Site.

Additional Comparison to the Table 6 SCSs

The results of the Phase Two ESA indicated that the depth to groundwater was less than 3m below ground surface on the Site. For the purpose of identifying additional COCs that should be considered in the Risk Assessment, the analytical data for volatile parameters was also compared to the 2011 Table 6 SCSs. The results of this review identified the following additional COCs in groundwater based on this comparison:

- PHC F1; and
- 1,2-dichloroethane.

(ix) Phase Two Conceptual Site Model

A Phase Two Conceptual Site Model (CSM) was prepared in accordance with Schedule E, Part V, Table 1, S6(x) of O.Reg.153/04, and is included as **Appendix A6**.

7.0 Conclusions

The QP_{ESA} is satisfied that each APEC has been investigated, that sufficient samples have been collected and analyzed for the COPCs, and that the lateral and vertical extent of the COCs has been sufficiently determined on the Site.

The COCs identified in soil on the Site included metals (cadmium, copper and zinc), arsenic, multiple PAHs, PHCs F1, F2, and F3, PCE, TCE, 1,1-DCE, c-1,2-DCE, VC and 1,1,2-TCA.

The COCs identified in groundwater included uranium, PCE, TCE, 1,1-DCA, 1,1-DCE, c-1,2-DCE, t-1,2-DCE, VC and 1,1,2-TCA.

Remediation

No soil remediation activities were completed during this Phase Two ESA.

Soil Brought to the Property

No soil was brought to the Site during this Phase Two ESA.

Risk Assessment

The results of the Phase Two ESA will be used to complete a O.Reg.153/04 Tier 3 Risk Assessment to develop Property Specific Standards (PSSs) for the Site.

8.0 Limitations

Services performed by **MTE Consultants Inc.** (MTE) were conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the Environmental Engineering & Consulting profession. No other warranty or representation expressed or implied as to the accuracy of the information, conclusions or recommendations is included or intended in this report.

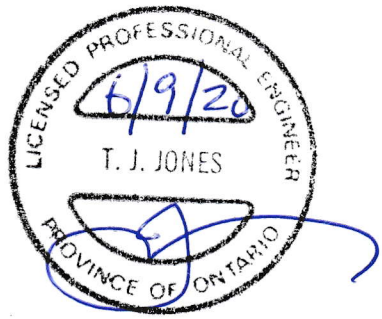
This report was completed for the sole use of MTE and Lockwood Auto Group Inc. It was carried out in accordance with the approved Scope of Work referred to in **Section 4**. As such, this report may not deal with all issues potentially applicable to the site and may omit issues, which are or may be of interest to the reader. MTE makes no representation that the present report has dealt with any and all of the important features, including any or all important environmental features, except as provided in the Scope of Work. All findings and conclusions presented in this report are based on site conditions as they existed during the time period of the investigation. This report is not intended to be exhaustive in scope or to imply a risk-free facility.

Any use which a third party makes of this report, or any reliance on, or decisions to be made based upon it, are the responsibility of such third parties. MTE accepts no responsibility for liabilities incurred by or damages, if any, suffered by any third party as a result of decisions made or actions taken, based upon this report. Others with interest in the site should undertake their own investigations and studies to determine how or if the condition affects them or their plans.

It should be recognized that the passage of time may affect the views, conclusions and recommendations (if any) provided in this report because environmental conditions of a property can change. Should additional or new information become available, MTE recommends that it be brought to our attention in order that we may re-assess the contents of this report.

Respectfully Submitted,

MTE Consultants Inc.



Spencer Buck, B.Sc.
Project Manager, Environmental
905-639-2552 ext. 2411
sbuck@mte85.com

Thomas Jones, P.Eng., QP$_{ESA}$
Manager, Environmental
905-639-2552 ext. 2406
tjones@mte85.com

SDB:axd

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Figures



Project: 38934–100 CAD: P:\38934\100\38934–100–EV25.DWG

1a SITE LOCATION MAP

June 11, 2020 — 12:05 PM — Plotted By: TSchneider

MTE

Engineers, Scientists, Surveyors

Ph. (905) 639-2552

0 2 4 6 8 10km

Scale(8.5x11): 1:200 000

CLIENT: Lockwood Auto Group Inc.

TITLE: SITE LOCATION MAP

PROJECT: Phase Two Environmental Site Assessment

SITE: 2362 Fairview Street Burlington, Ontario

Reviewed By	TJJ
Prepared By	SBD
Drawn By	TXS
Date	June 2020
Project No.	38934–100
Figure No.	1a

N

NORTH



NORTH

N
PROJECT NORTH

LEGEND

Property Boundary

0 5 10 15 20 25m

Scale(11x17): 1:500

MTE
Engineers, Scientists, Surveyors
Ph. (905) 639-2552

CLIENT
Lockwood Auto Group Inc.

PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
AERIAL PHOTOGRAPH

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	1b
Date	June 2020		

Project: 38934-100 CAD: P:\P\38934\100\38934-100-EV25.DWG
1b AERIAL PHOTOGRAPH — Plotted By: TSchneider
June 11, 2020 — 12:05 PM

2345 Fairview Street
(Fairview Tire and Auto)

2349 Fairview Street
(Multi-tenant
Commercial/Industrial)

2363-2377 Fairview Street
(Fairview Dodge, Jeep, Ram)

Fairview Street

BH48D BH48S BH47D BH47S BH1S BH1D BH46D BH46S

Existing
Billboard

BH29D

Existing
Hydro Pole

BH40(U,S,D)

BH30D

2340 Fairview Street
(Value Village)

BH41(U,S,D) BH42(U,S,D)

BH15D BH22S

2388 Fairview Street
(Multi-tenant Commercial)

BH2S

BH43(U,S,D)

BH45D

BH5S

BH3S

Existing
Shed

BH4S

Existing
Light Standard

BH10S BH14D BH9S BH8S BH13D BH7S RW1 BH12D BH6S

Existing
Light Standard

BH14D (old)

Recovery
Well

2345-2367 Barclay Road
(Residential)

N

NORTH

PROJECT
NORTH

LEGEND

- Phase One Property Boundary
- Overburden Monitoring Well
- Bedrock Monitoring Well
- Catch Basin
- Utility Pole
- Electrical Service Line (Approx.)
- Storm Sewer Line (Approx.)
- Water Supply Line (Approx.)

0 5 10 15 20 25m

Scale(11x17): 1:500

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CLIENT
Lockwood Auto Group Inc.

PROJECT
Phase Two
Environmental Site Assessment

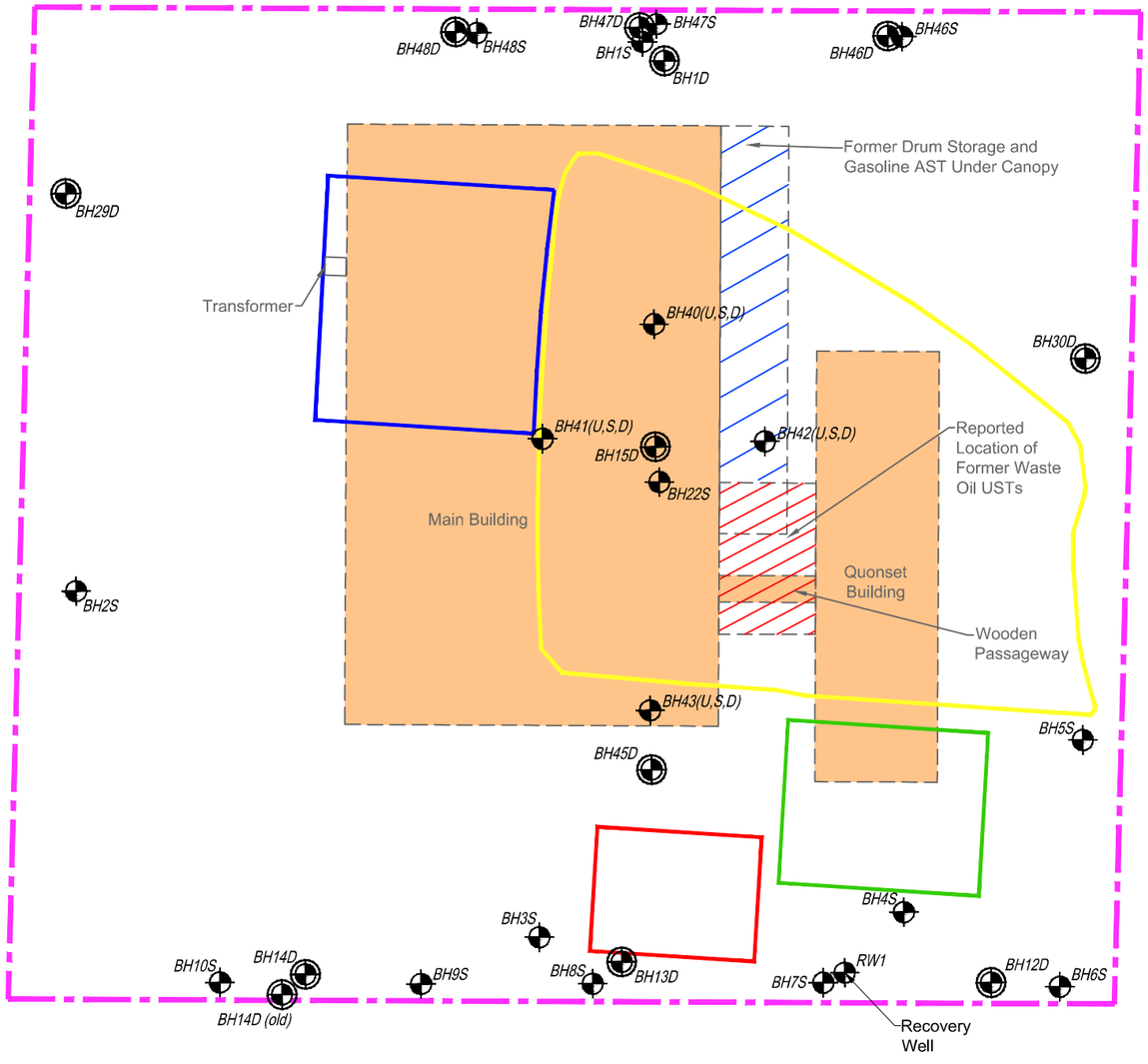
SITE
2362 Fairview Street
Burlington, Ontario

TITLE
SITE LAYOUT AND FEATURES

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	2a
Date	June 2020		

Project: 38934-100 CAD: P:\P\38934\100\38934-100-EV25.DWG
2a SITE LAYOUT AND FEATURES
June 11, 2020 - 6:37 PM - Plotted By: TSchneider

Fairview Street



NORTH

N

PROJECT NORTH

LEGEND

- Property Boundary
- Former Building
- Overburden Monitoring Well
- Bedrock Monitoring Well
- Site Excavation Phase 1 - 1990
- Site Excavation Phase 2 - 1991
- Site Excavation Phase 3 - 1995
- Site Excavation Phase 4 - 1997

0 5 10 15 20 25m

Scale(11x17): 1:500

MTE

Engineers, Scientists, Surveyors

Ph. (905) 639-2552

CLIENT

Lockwood Auto Group Inc.

PROJECT

Phase Two
Environmental Site Assessment

SITE

2362 Fairview Street
Burlington, Ontario

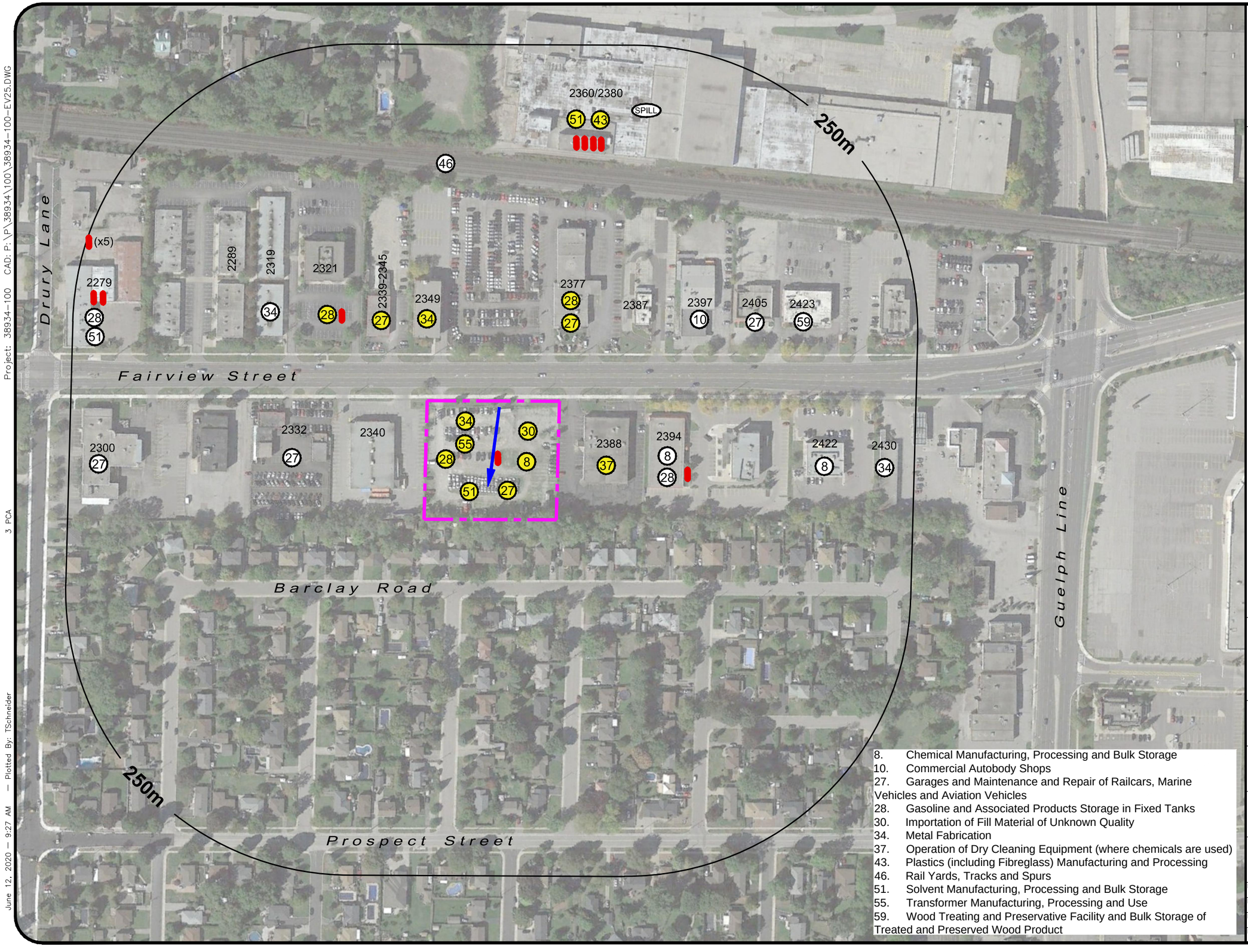
TITLE

HISTORICAL SITE FEATURES

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	2b
Date	June 2020		

Project: 38934-100 CAD: P:\38934\100\38934-100-EV25.DWG 2b HIST SITE FEATURES

June 11, 2020 — 12:05 PM — Plotted By: TSchneider



8. Chemical Manufacturing, Processing and Bulk Storage
10. Commercial Autobody Shops
27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
28. Gasoline and Associated Products Storage in Fixed Tanks
30. Importation of Fill Material of Unknown Quality
34. Metal Fabrication
37. Operation of Dry Cleaning Equipment (where chemicals are used)
43. Plastics (including Fibreglass) Manufacturing and Processing
46. Rail Yards, Tracks and Spurs
51. Solvent Manufacturing, Processing and Bulk Storage
55. Transformer Manufacturing, Processing and Use
59. Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Product

NORTH

PROJECT NORTH

LEGEND

- Property Boundary
- 30 — PCA Resulting in APEC
- SPILL — Ontario Spills Record
- Underground Storage Tank (Approx.)
- Inferred Groundwater Flow Direction

0 25 50 75 100 125m

Scale(11x17): 1:2500

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CLIENT
Lockwood Auto Group Inc.

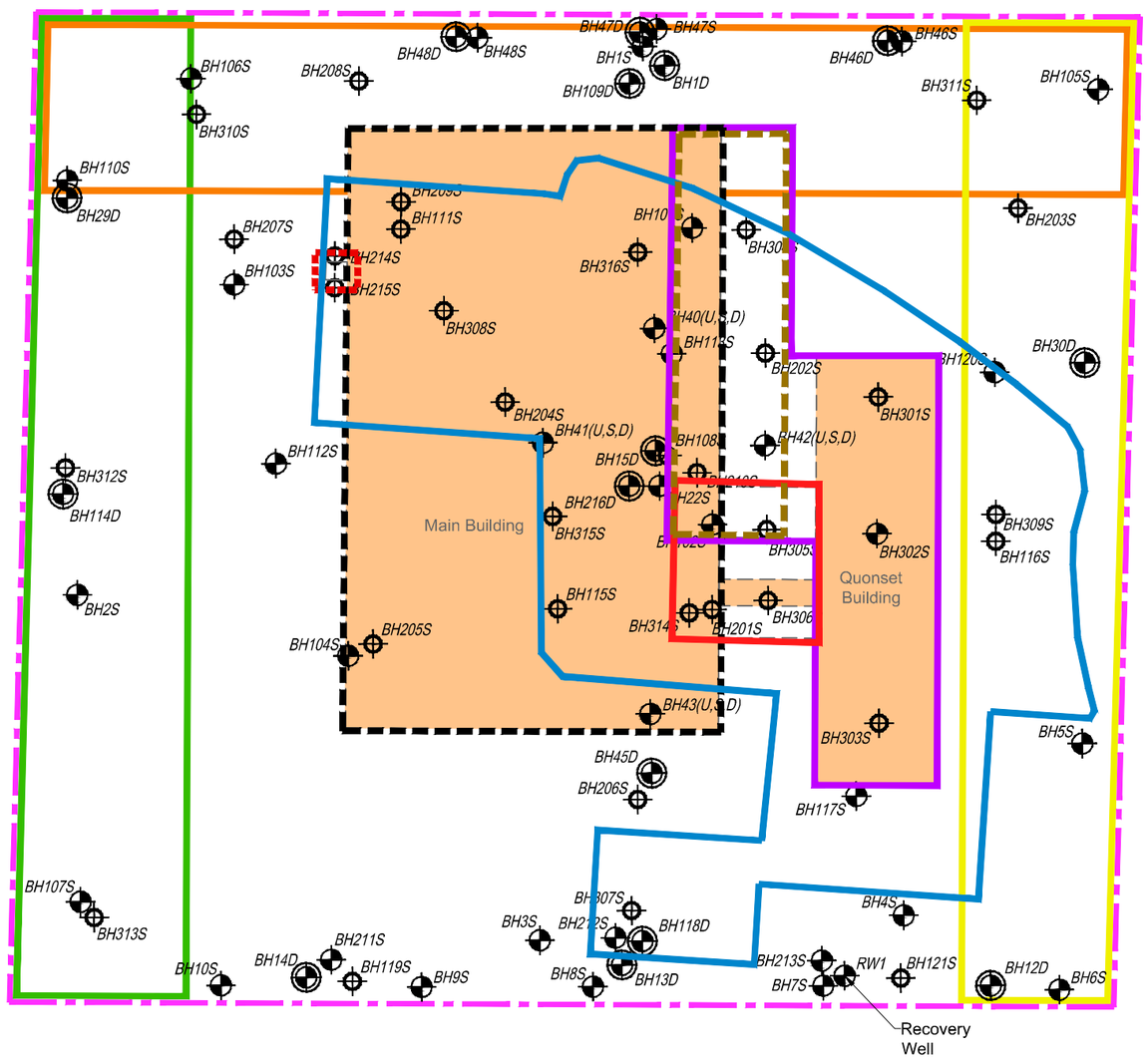
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
POTENTIALLY CONTAMINATING ACTIVITIES

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934–100
Drawn By	TXS	Figure No.	3
Date	June 2020		

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3 PCA
June 12, 2020 — 9:27 AM — Plotted By: TSchneider



- APEC 1 (PCA 8) Chemical Manufacturing, Processing and Bulk Storage
- APEC 2 (PCA 28) Gasoline and Associated Products Storage in Fixed Tanks
- APEC 3 (PCA 28) Gasoline and Associated Products Storage in Fixed Tanks
- APEC 4 (PCA 30) Importation of Fill Material of Unknown Quality
- APEC 8 (PCA 27) Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
- APEC 10 (N/A) VOCs detected in soil and groundwater across the Site
- APEC 5 (PCA 30) Importation of Fill Material of Unknown Quality
- APEC 6 (PCA 34) Metal Fabrication
- APEC 7 (PCA 51) Solvent Manufacturing, Processing and Bulk Storage
- APEC 9 (PCA 55) Transformer Manufacturing, Processing and Use
- APEC 11 (Off-Site PCA 28) Gasoline and Associated Products Storage in Fixed Tanks
- APEC 12 (Off-Site PCA 28) Gasoline and Associated Products Storage in Fixed Tanks
- APEC 13 (Off-Site PCA 34) Metal Fabrication
- APEC 14 (Off-Site PCA 37) Operation of Dry Cleaning Equipment (where chemicals are used)
- APEC 15 (Off-Site PCA 43) Plastics (including Fibreglass) Manufacturing and Processing
- APEC 16 (Off-Site PCA 51) Solvent Manufacturing, Processing and Bulk Storage
- APEC 17 (Off-Site PCA 27) Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
- APEC 18 (Off-Site PCA 27) Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles

NORTH

PROJECT NORTH

LEGEND

- Property Boundary
- Former Building
- Borehole
- Overburden Monitoring Well
- Bedrock Monitoring Well

0 5 10 15 20 25m

Scale(11x17): 1:500

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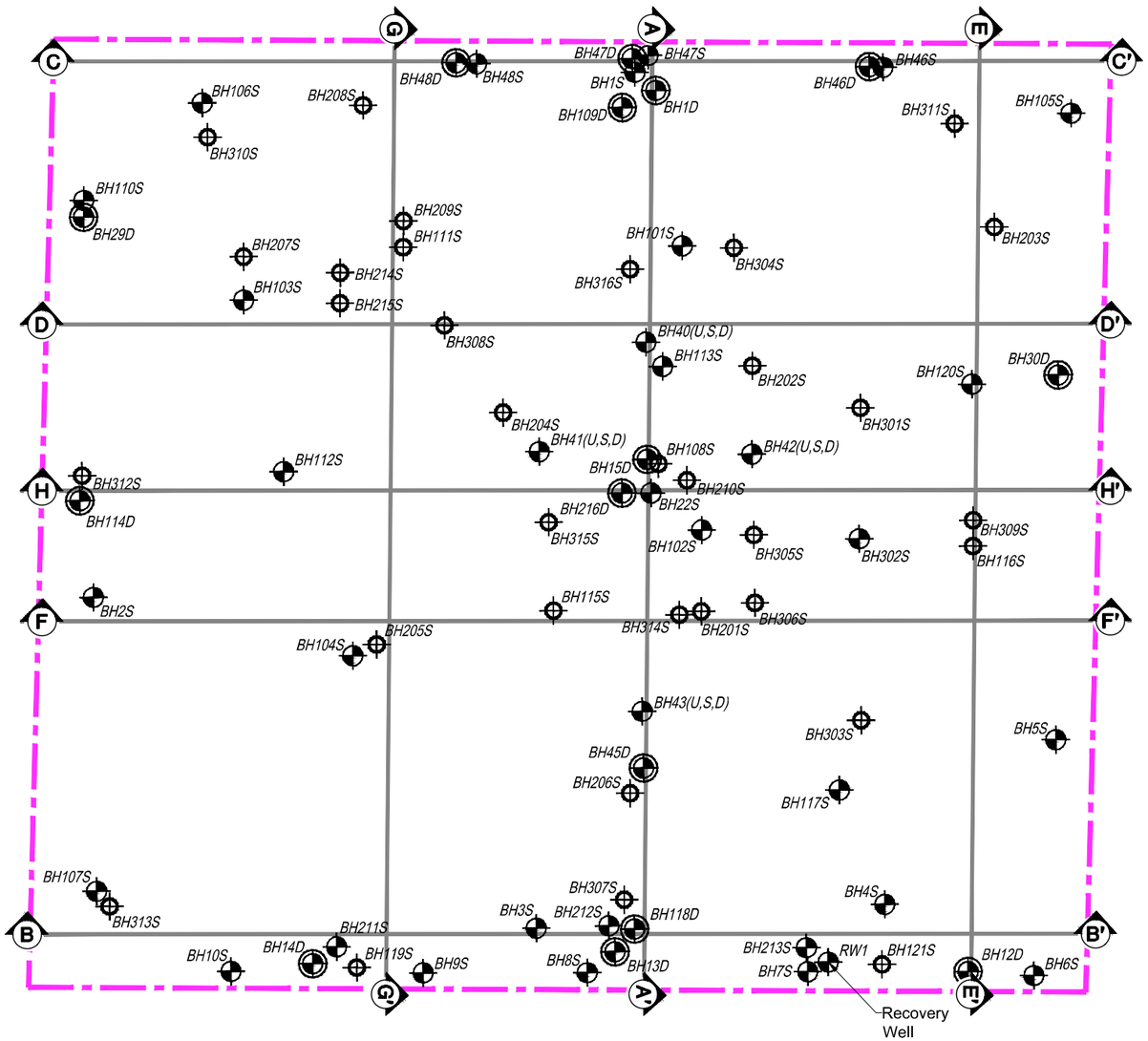
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
APECs AND
SAMPLING LOCATIONS

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934–100
Drawn By	TXS	Figure No.	4
Date	June 2020		

Project: 38934–100 CAD: P:\P\38934\100\38934–100–EV25.DWG
June 17, 2020 — 9:51 PM — Plotted By: TSchneider
4 APEC



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PROJECT
Phase Two
Environmental Site Assessment

SITE
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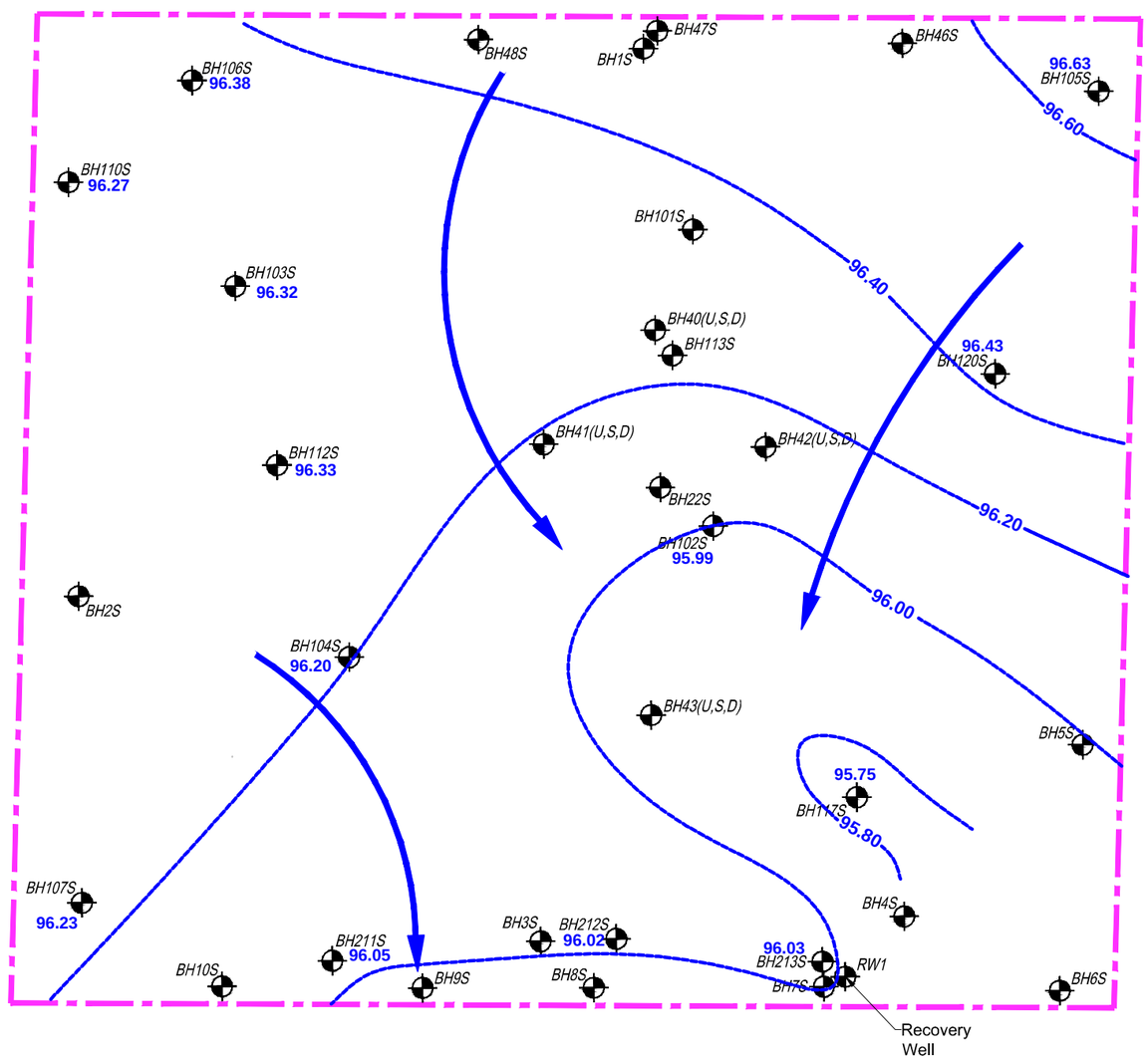
TITLE
CROSS-SECTION LOCATIONS

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934–100
Drawn By	TXS	Figure No.	5
Date	June 2020		

Project: 38934–100 CAD: P:\P\38934\100\38934–100–EV25.DWG
5 CS LOCATION PLAN
June 11, 2020 — 12:05 PM — Plotted By: TSchneider

Project: 38934-100 CAD: P:\P\38934\100\38934-100-EV25.DWG 6 GW FLOW 2018 — Plotted By: TSchneider June 11, 2020 — 12:06 PM

Fairview Street



NORTH

N

PROJECT NORTH

LEGEND

- Property Boundary
- Overburden Monitoring Well
- 95.10 Groundwater Contour
- 95.37 Groundwater Elevation
- Direction of Shallow Groundwater Flow

0 5 10 15 20 25m

Scale(11x17): 1:500

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PROJECT

Phase Two
Environmental Site Assessment

SITE

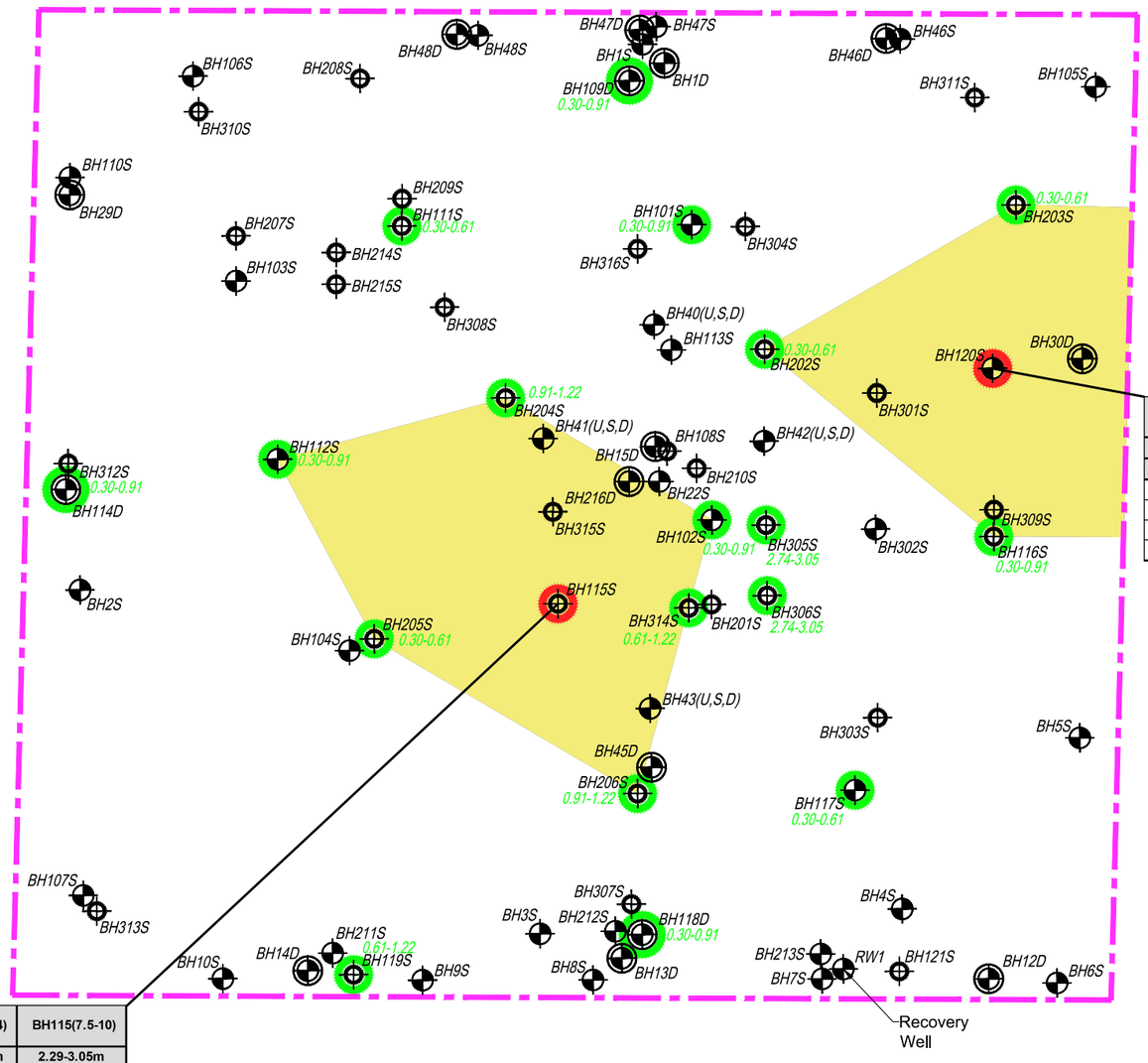
2362 Fairview Street
Burlington, Ontario

TITLE

OVERBURDEN
GROUNDWATER CONTOURS
(MAY 14, 2018)

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	6
Date	June 2020		

Fairview Street



Parameter	MOE Table 2 2011	BH120(1-2)	BH120(5-7)
Sample Depth:		0.30-0.61m	1.52-2.13m
Date Sampled:		22-Nov-17	
Arsenic	18	3.8	6.8
Cadmium	1.2	**18.9**	<0.50
Copper	180	**245**	50.8
Zinc	340	**541**	64.4

Parameter	MOE Table 2 2011	BH115(2-4)	BH1150(2-4)	BH115(7.5-10)
Sample Depth:		0.61-1.22m	0.61-1.22m	2.29-3.05m
Date Sampled:		16-Nov-17		
Arsenic	18	**21.4**	**24.5**	7.89
Cadmium	1.2	0.69	0.97	-
Copper	180	61.2	121	-
Zinc	340	196	228	-

NORTH

PROJECT NORTH

LEGEND

- Property Boundary
- Borehole
- Overburden Monitoring Well
- Bedrock Monitoring Well
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 1.52-4.57 Soil Sample Depth (metres below ground surface)
- Analyzed value exceeds the MOE 2011 Table 2 Standards, Residential Property Use, Med/Fine Textured Soil (ug/g)

0 5 10 15 20 25m

Scale(11x17): 1:500

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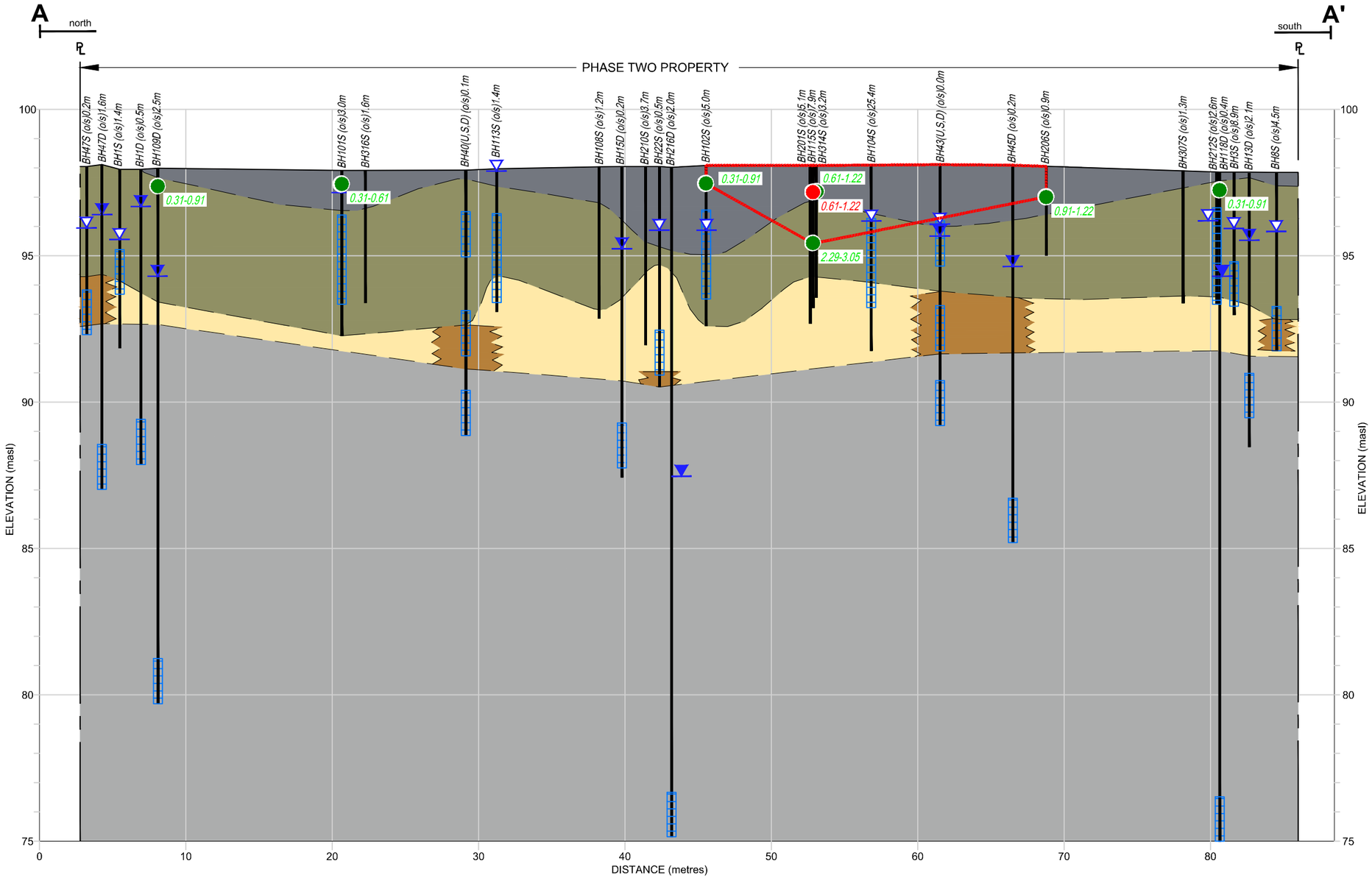
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
METALS (Including As, Sb, Se) IN SOIL - PLAN VIEW

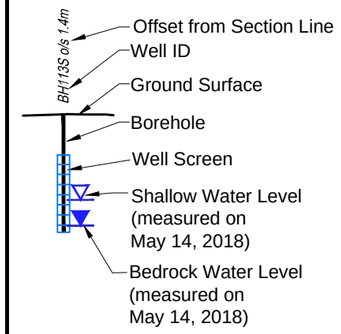
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	7a
Date	June 2020		

Project: 38934-100 CAD: P:\P\38934\100\38934-100-EV26.DWG
7a SOIL- METALS - PLAN VIEW
June 11, 2020 - 11:22 AM - Plotted By: TSchneider



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 0.31-0.61 Sample Depth
- Inferred Extent



Scale(11x17): As Noted

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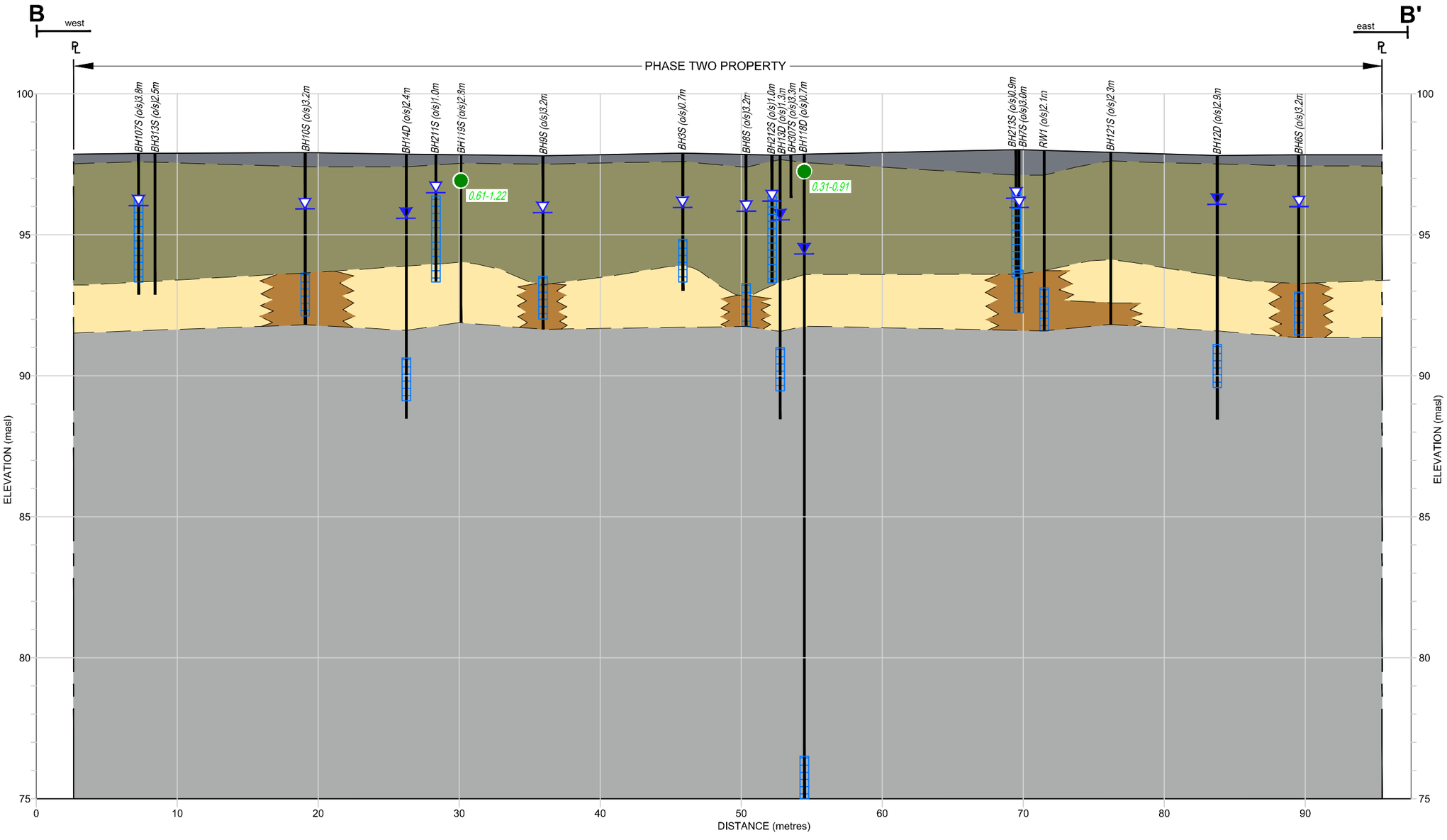
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
METALS (Including As, Sb, Se and Hg) IN SOIL - CROSS-SECTION A-A'

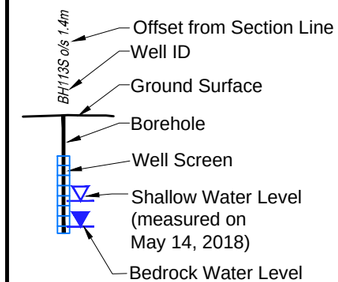
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	7b
Date	June 2020		

Project: 38934-100 CAD: P:\P\38934\100\38934-100-EV27.DWG
7b SOIL - METALS - CS A-A' - Plotted By: TSchneider
June 11, 2020 - 11:29 AM



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 0.31-0.61 Sample Depth
- Inferred Extent



Scale(11x17): As Noted

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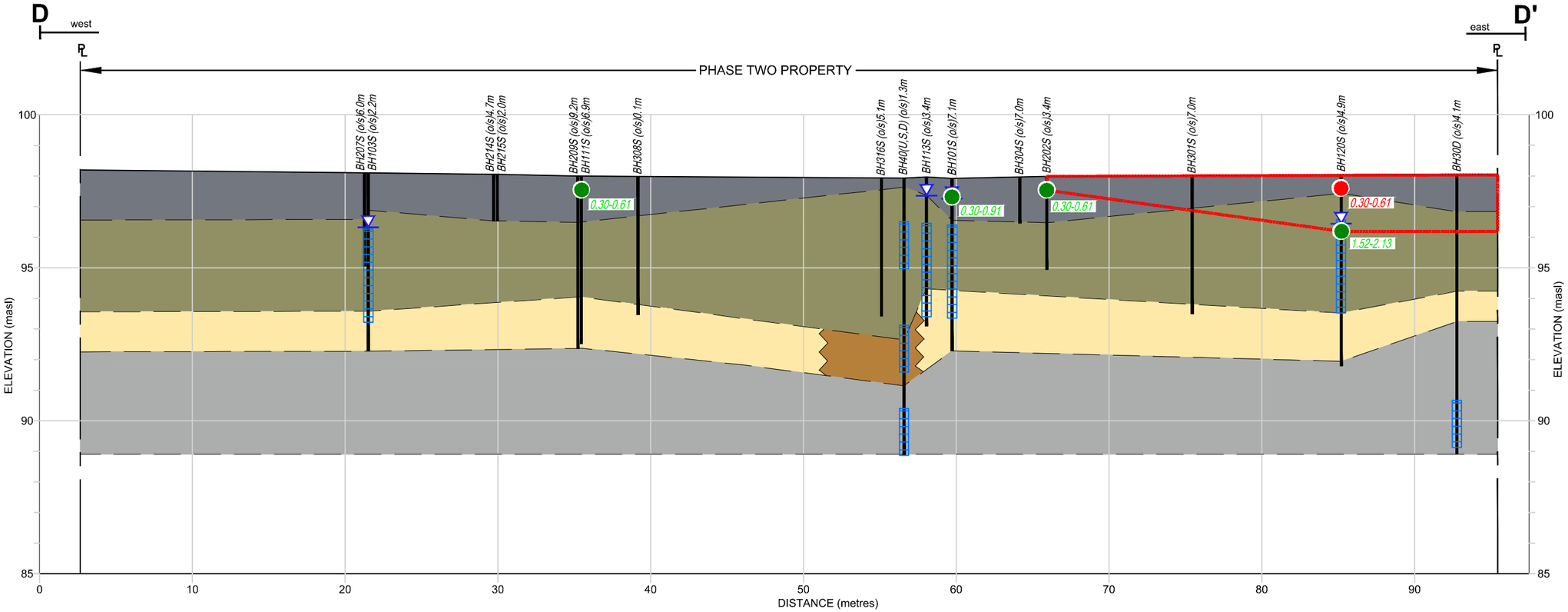
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
METALS (Including As, Sb, Se and Hg) IN SOIL - CROSS-SECTION B-B'

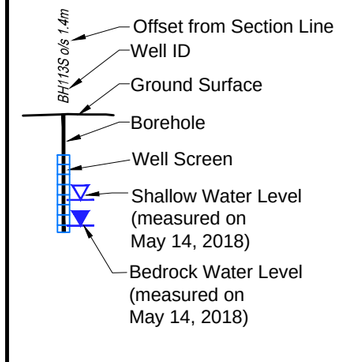
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	7c
Date	June 2020		

June 11, 2020 - 11:29 AM - Plotted By: TSchneider
7c SOIL - METALS - CS B-B' CAD: P:\P\38934\100\38934-100-EV27.DWG
Project: 38934-100



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 0.31-0.61 Sample Depth
- Inferred Extent



Scale(11x17): As Noted

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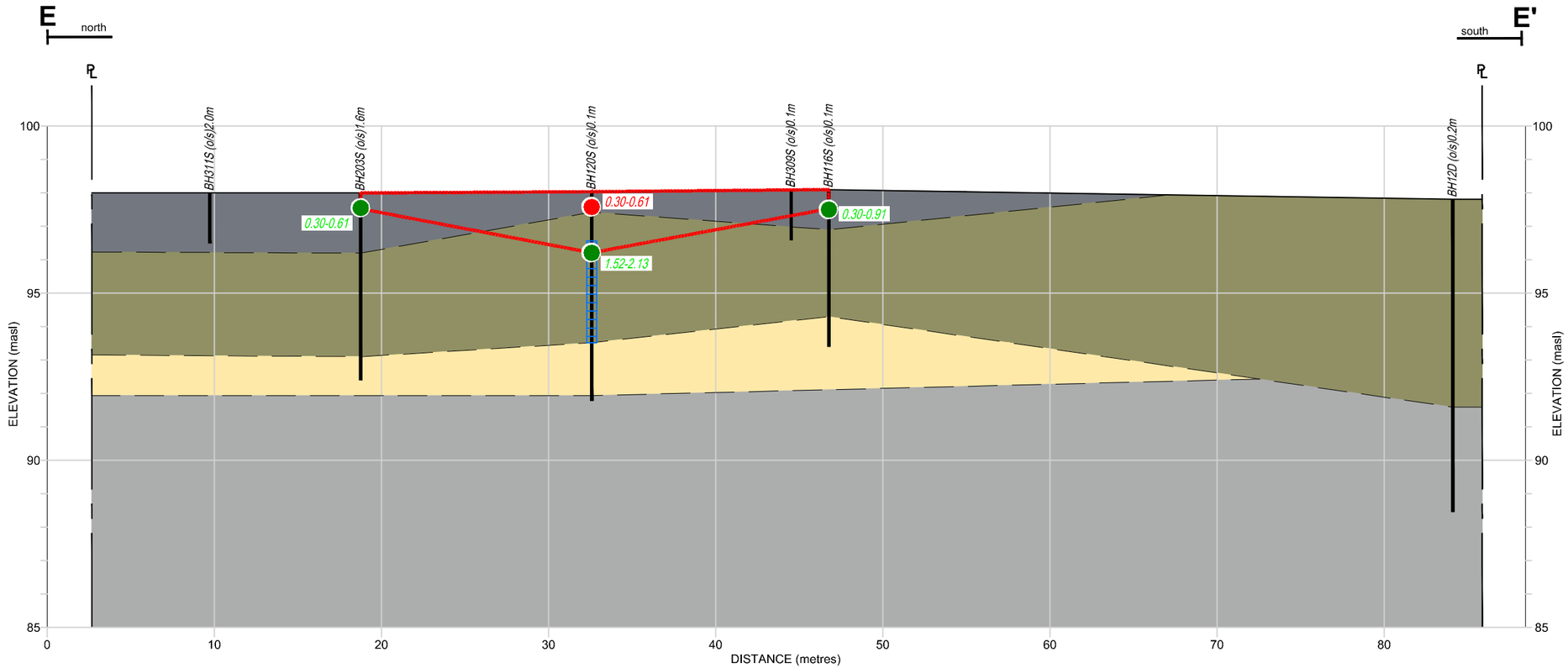
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
METALS (Including As, Sb, Se and Hg) IN SOIL - CROSS-SECTION D-D'

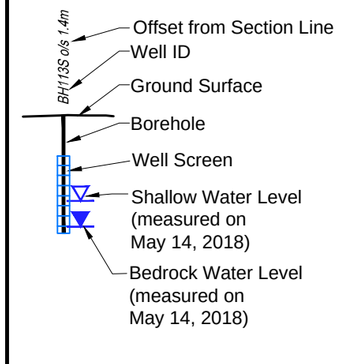
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	7d
Date	June 2020		

June 11, 2020 — 11:29 AM — Plotted By: TSchneider
7d SOIL — METALS — CS D-D' — Project: 38934-100 CAD: P:\38934\100\38934-100-EV27.DWG



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 0.31-0.61 Sample Depth
- Inferred Extent



Scale(11x17): As Noted

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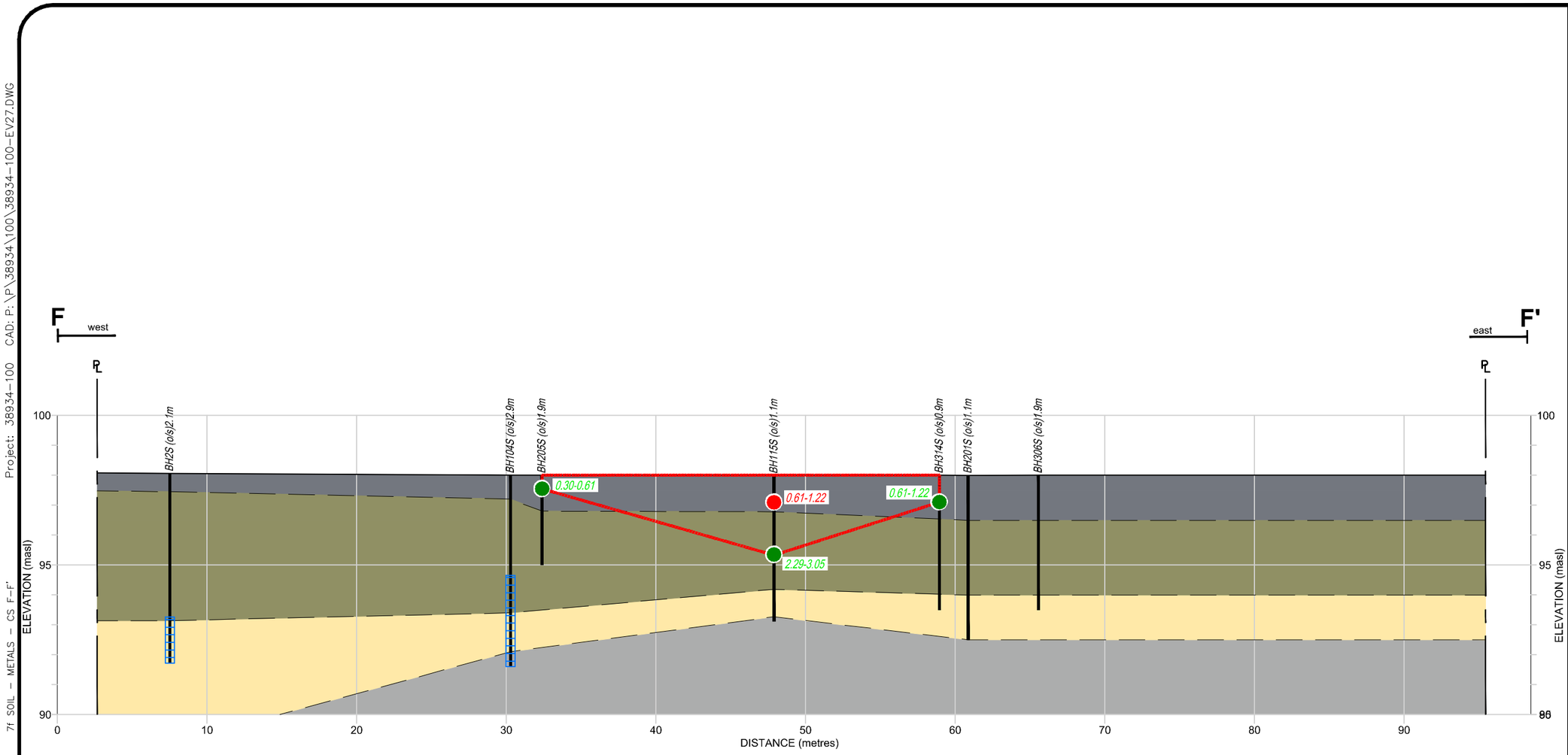
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
METALS (Including As, Sb, Se and Hg) IN SOIL - CROSS-SECTION E-E'

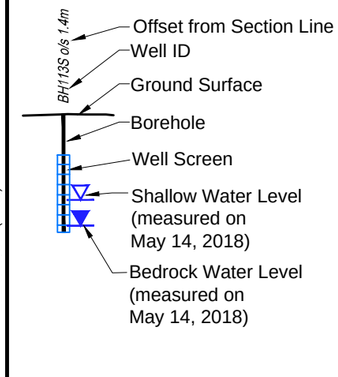
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	7e
Date	June 2020		

Project: 38934-100 CAD: P:\P\38934\100\38934-100-EV27.DWG
7e SOIL - METALS - CS E-E'
June 11, 2020 - 11:29 AM - Plotted By: TSchneider



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 0.31-0.61 Sample Depth
- Inferred Extent



Scale(11x17): As Noted

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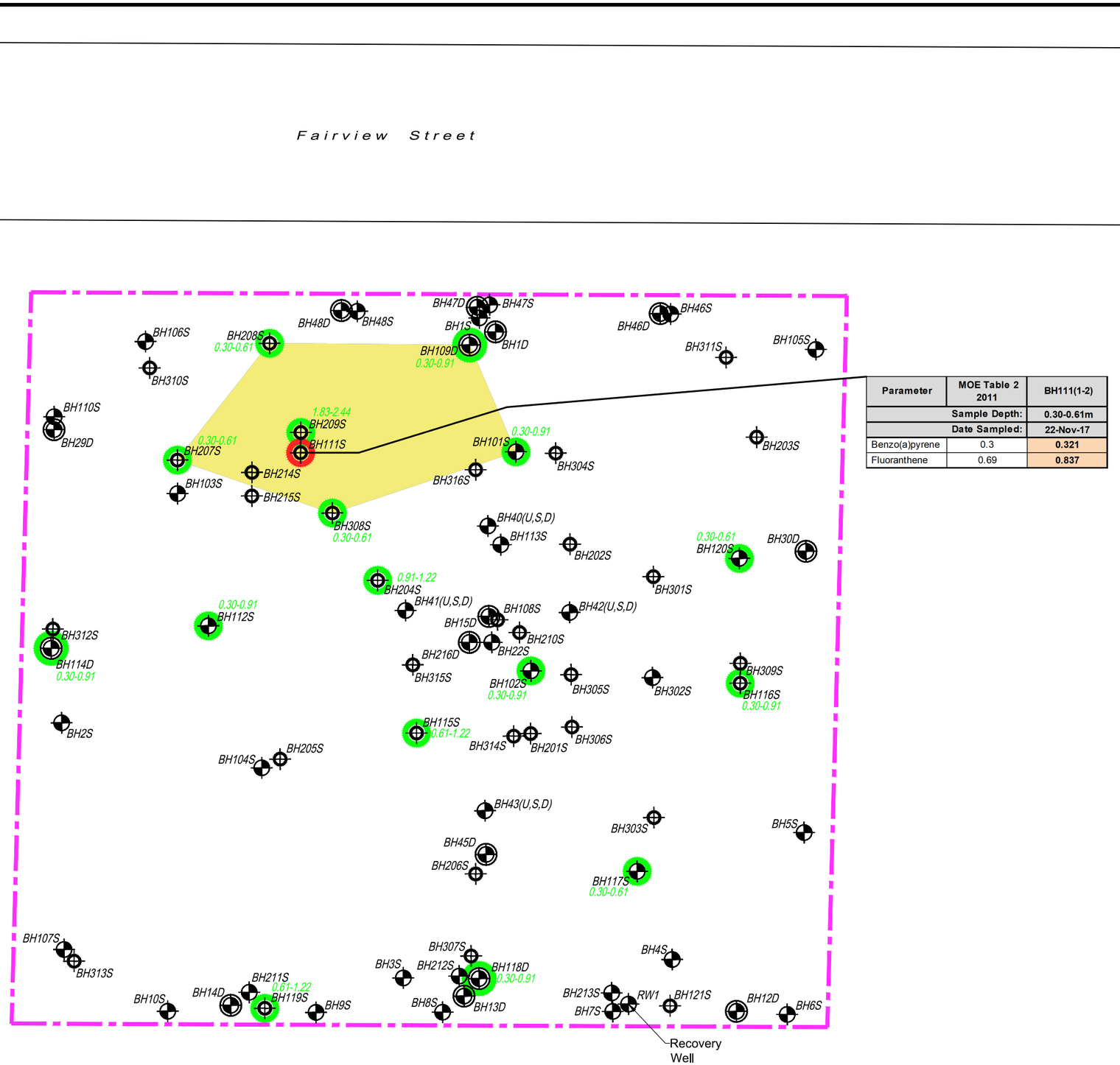
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
METALS (Including As, Sb, Se and Hg) IN SOIL - CROSS-SECTION F-F'

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	7f
Date	June 2020		

Project: 38934-100 CAD: P:\P\38934\100\38934-100-EV27.DWG
7f SOIL - METALS - CS F-F'
June 11, 2020 - 11:29 AM - Plotted By: TSchneider



Parameter	MOE Table 2 2011	BH111(1-2)
	Sample Depth:	0.30-0.61m
	Date Sampled:	22-Nov-17
Benzo(a)pyrene	0.3	0.321
Fluoranthene	0.69	0.837

NORTH

PROJECT NORTH

LEGEND

- Property Boundary
- Borehole
- Overburden Monitoring Well
- Bedrock Monitoring Well
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 1.52-4.57 Soil Sample Depth (metres below ground surface)
- Analyzed value exceeds the MOE 2011 Table 2 Standards, Residential Property Use, Med/Fine Textured Soil (ug/g)

0 5 10 15 20 25m

Scale(11x17): 1:500

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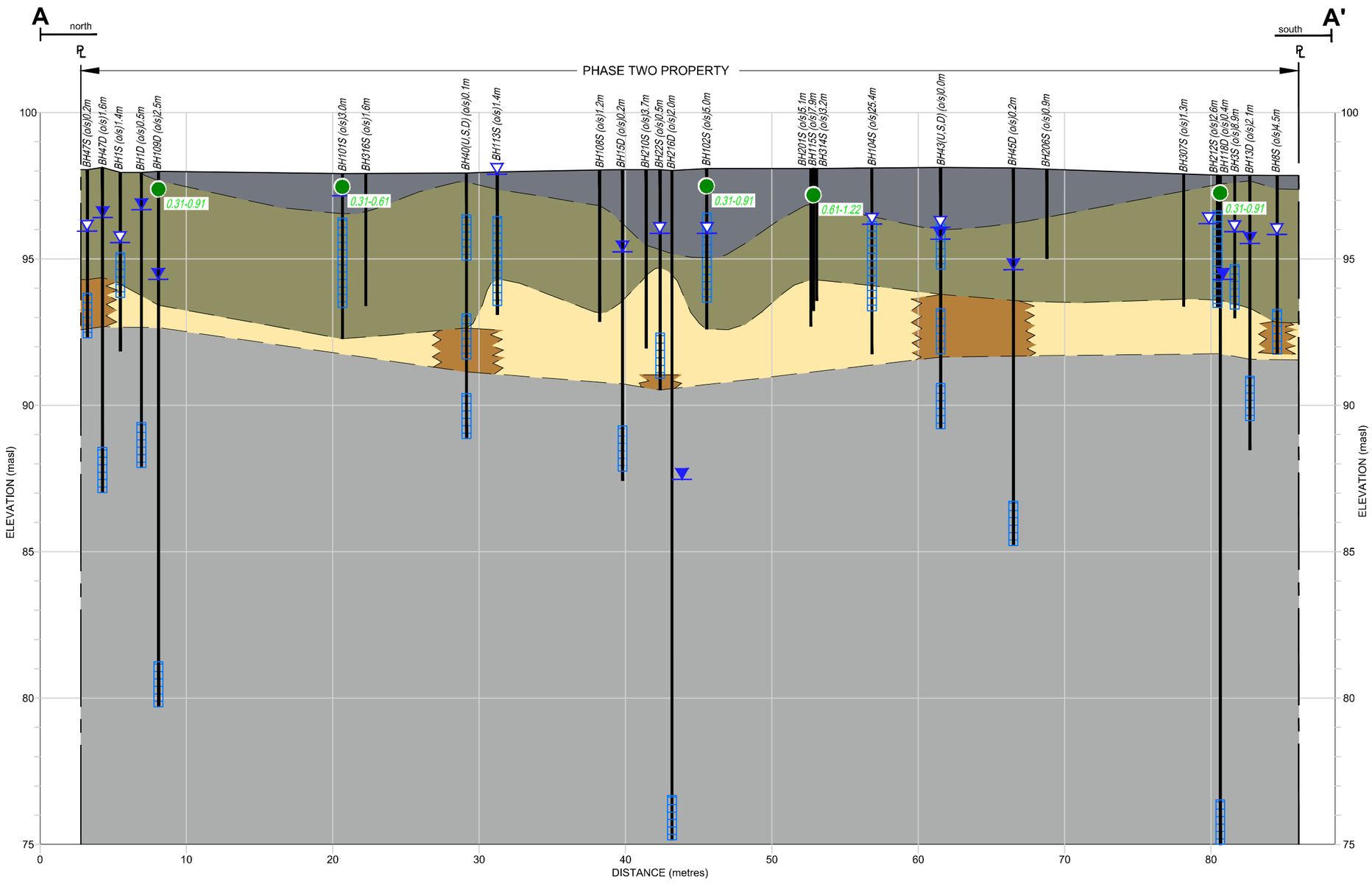
PROJECT: Phase Two Environmental Site Assessment

SITE: 2362 Fairview Street Burlington, Ontario

TITLE: PAHs IN SOIL - PLAN VIEW

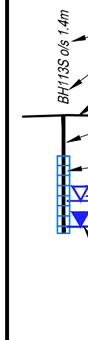
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	8a
Date	June 2020		

June 11, 2020 — 11:22 AM — Plotted By: TSchneider 8a SOIL - PAHs - PLAN VIEW Project: 38934-100 CAD: P:\P\38934\100\38934-100-EV26.DWG



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 0.31-0.61 Sample Depth
- Inferred Extent



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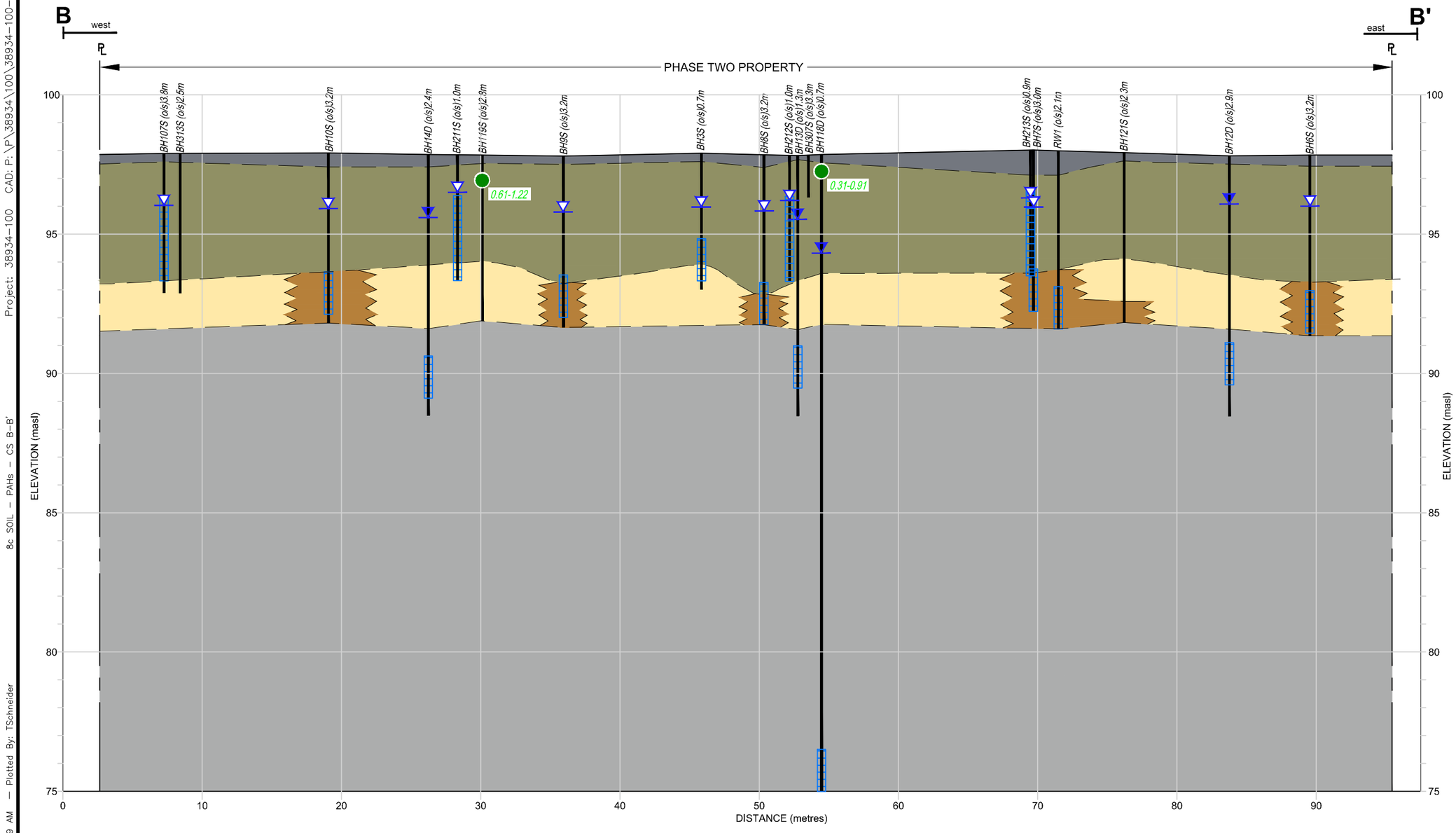
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
PAHs IN SOIL
CROSS-SECTION A-A'

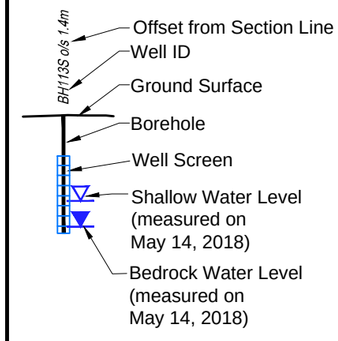
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934–100
Drawn By	TXS	Figure No.	8b
Date	June 2020		

June 11, 2020 — 11:29 AM — Plotted By: TSchneider
8b SOIL – PAHs – CS A–A' Project: 38934–100 CAD: P:\P\38934\100\38934–100–EV27.DWG



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 0.31-0.61 Sample Depth
- Inferred Extent



Scale(11x17): As Noted

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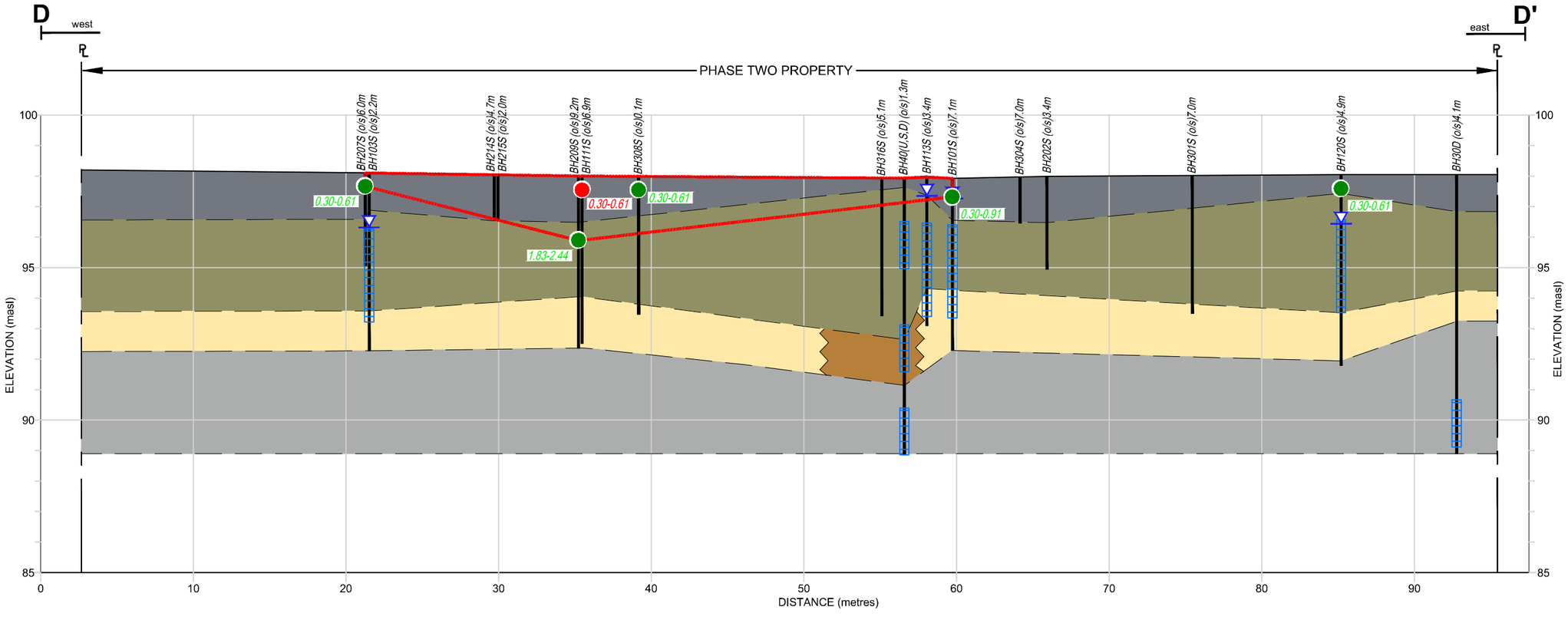
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
PAHs IN SOIL
CROSS-SECTION B-B'

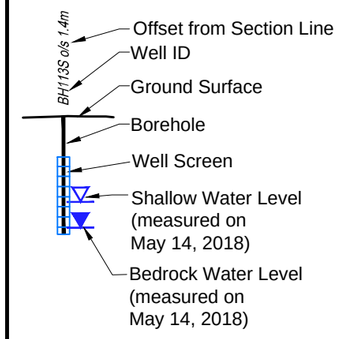
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934–100
Drawn By	TXS	Figure No.	8c
Date	June 2020		

June 11, 2020 — 11:29 AM — Plotted By: TSchneider
8c SOIL – PAHs – CS B–B' Project: 38934–100 CAD: P:\38934\100\38934–100–EV27.DWG



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 0.31-0.61 Sample Depth
- Inferred Extent



Scale(11x17): As Noted

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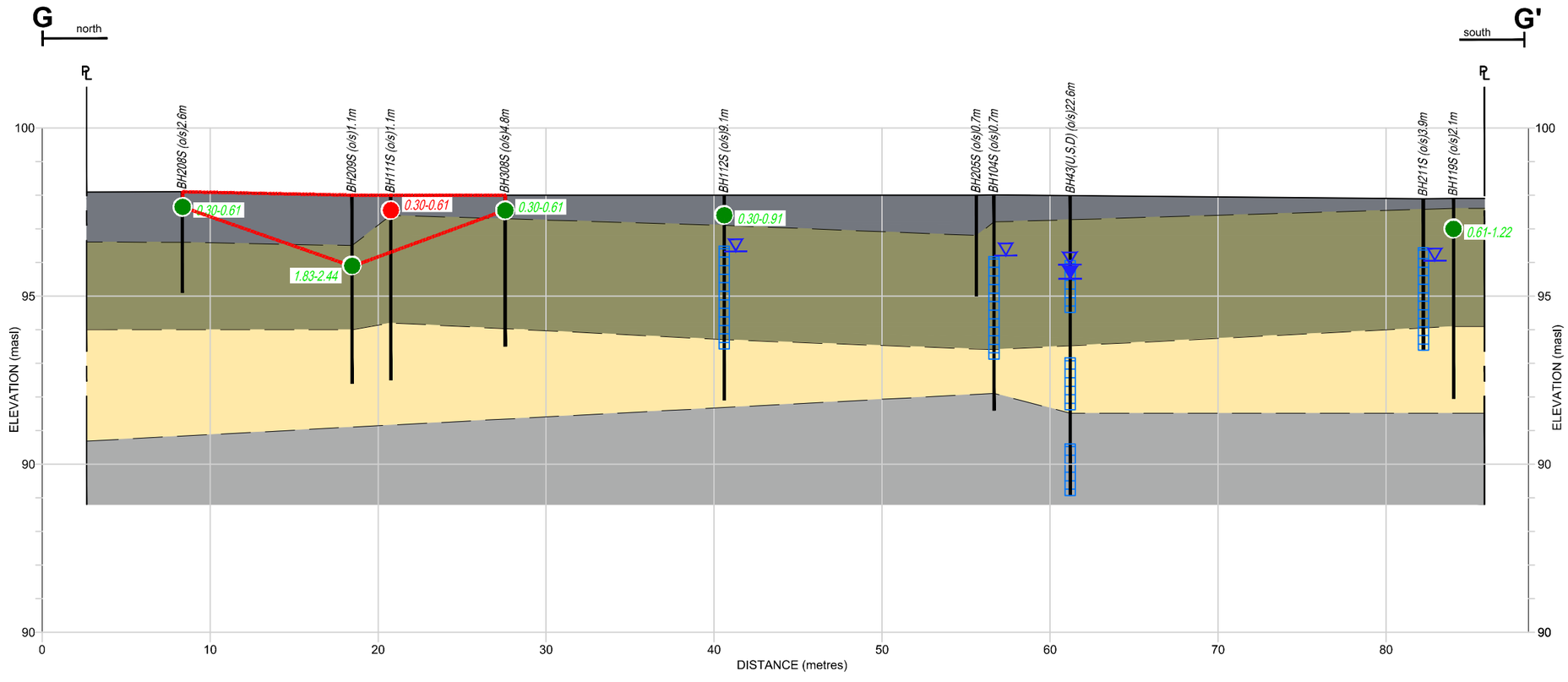
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
PAHs IN SOIL
CROSS-SECTION D-D'

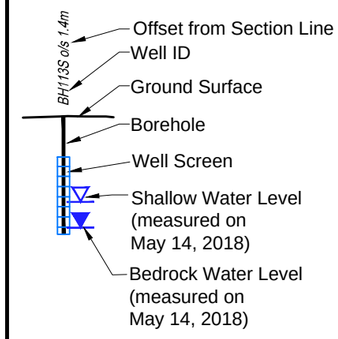
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	8d
Date	June 2020		

Project: 38934-100 CAD: P:\P\38934\100\38934-100-EV27.DWG
8d SOIL - PAHs - CS D-D'
June 11, 2020 - 11:29 AM - Plotted By: TSchneider



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 0.31-0.61 Sample Depth
- Inferred Extent



Scale(11x17): As Noted

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PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
PAHs IN SOIL
CROSS-SECTION G-G'

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	8e
Date	June 2020		

June 11, 2020 — 11:29 AM — Plotted By: TSchneider
8e SOIL – PAHs – CS G-G' — Project: 38934-100 CAD: P:\38934\100\38934-100-EV27.DWG

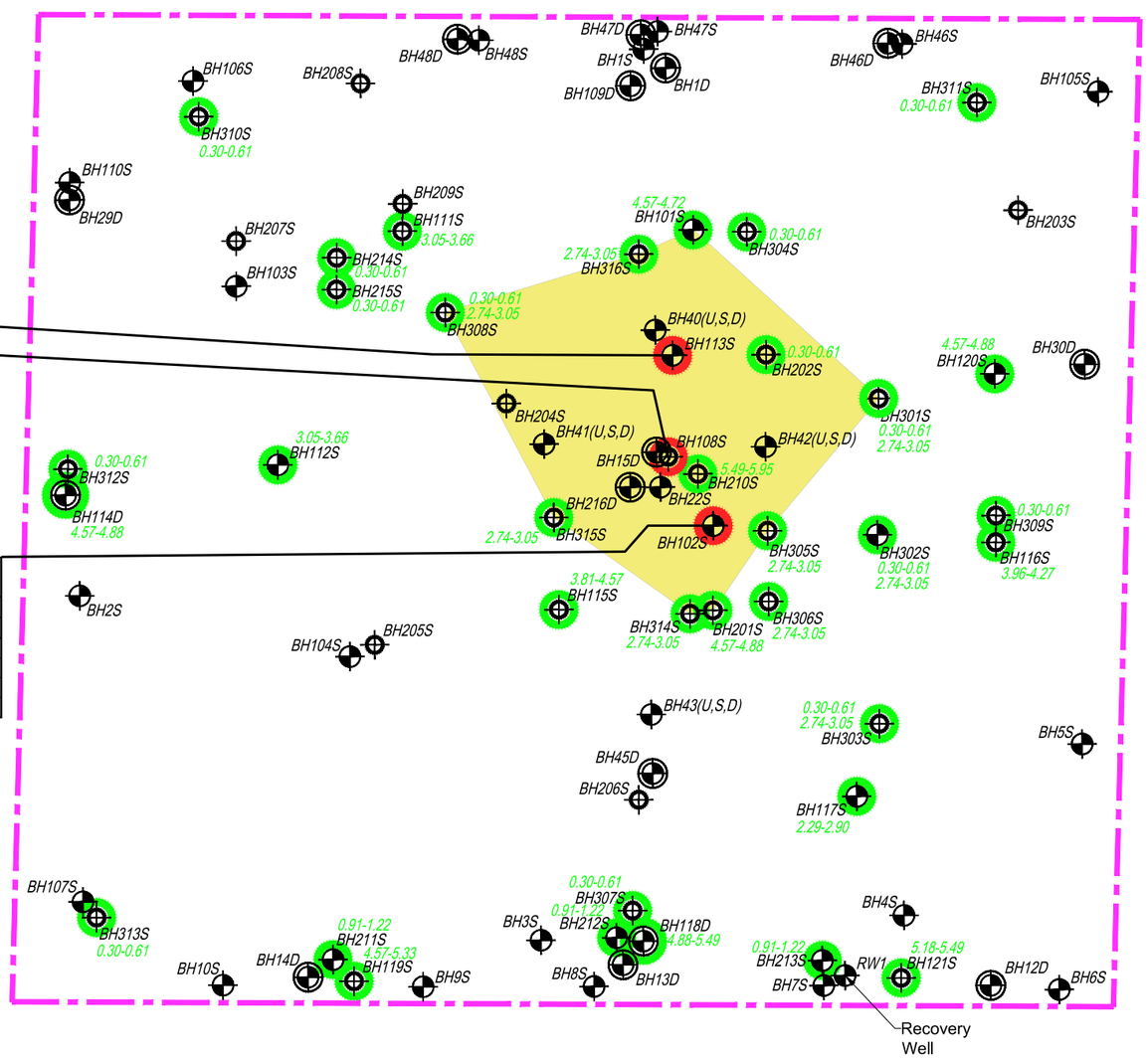
June 11, 2020 — 11:22 AM — Plotted By: TSchneider
9a SOIL – PHCs – PLAN VIEW
Project: 38934–100 CAD: P:\P\38934\100\38934–100–EV26.DWG

Fairview Street

Parameter	MOE Table 2 2011	BH113(3-5)	BH113(8-10)	BH113(15-16)
Sample Depth:		0.91-1.52m	2.44-3.05m	4.57-4.88m
Date Sampled:		15-Nov-17		
F1 (C6 to C10)	65	6.4	**<200**	12.8
F1 (C6 to C10) minus BTEX	65	6.4	**<200**	12.7
F2 (C10 to C16)	150	50	12	<10
F3 (C16 to C34)	1300	880	206	<50

Parameter	MOE Table 2 2011	BH108(2-4)	BH108(9-10)
Sample Depth:		0.61-1.22m	2.74-3.05m
Date Sampled:		15-Nov-17	
F1 (C6 to C10)	65	<5.0	29.9
F1 (C6 to C10) minus BTEX	65	<5.0	29.9
F2 (C10 to C16)	150	<10	**210**
F3 (C16 to C34)	1300	<50	**2730**

Parameter	MOE Table 2 2011	BH102(5-7)	BH102(9-10)	BH1020(9-10)	BH102(14-15)
Sample Depth:		1.52-2.13m	2.74-3.05m	2.74-3.05m	4.27-4.57m
Date Sampled:		15-Nov-17			
F1 (C6 to C10)	65	21.7	10.3	**<80**	12.6
F1 (C6 to C10) minus BTEX	65	21.7	10.3	**<80**	12.6
F2 (C10 to C16)	150	<10	<10	<10	11
F3 (C16 to C34)	1300	55	<50	<50	214



NORTH

PROJECT NORTH

LEGEND

- Property Boundary
- Borehole
- Overburden Monitoring Well
- Bedrock Monitoring Well
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 1.52-4.57 Soil Sample Depth (metres below ground surface)
- Analyzed value exceeds the MOE 2011 Table 2 Standards, Residential Property Use, Med/Fine Textured Soil (ug/g)
- Laboratory Method Detection Limit exceeds the MOE 2011 Table 2 Standards, Residential Property Use, Med/Fine Textured Soil (ug/g)

0 5 10 15 20 25m

Scale(11x17): 1:500

MTE
Engineers, Scientists, Surveyors
Ph. (905) 639-2552

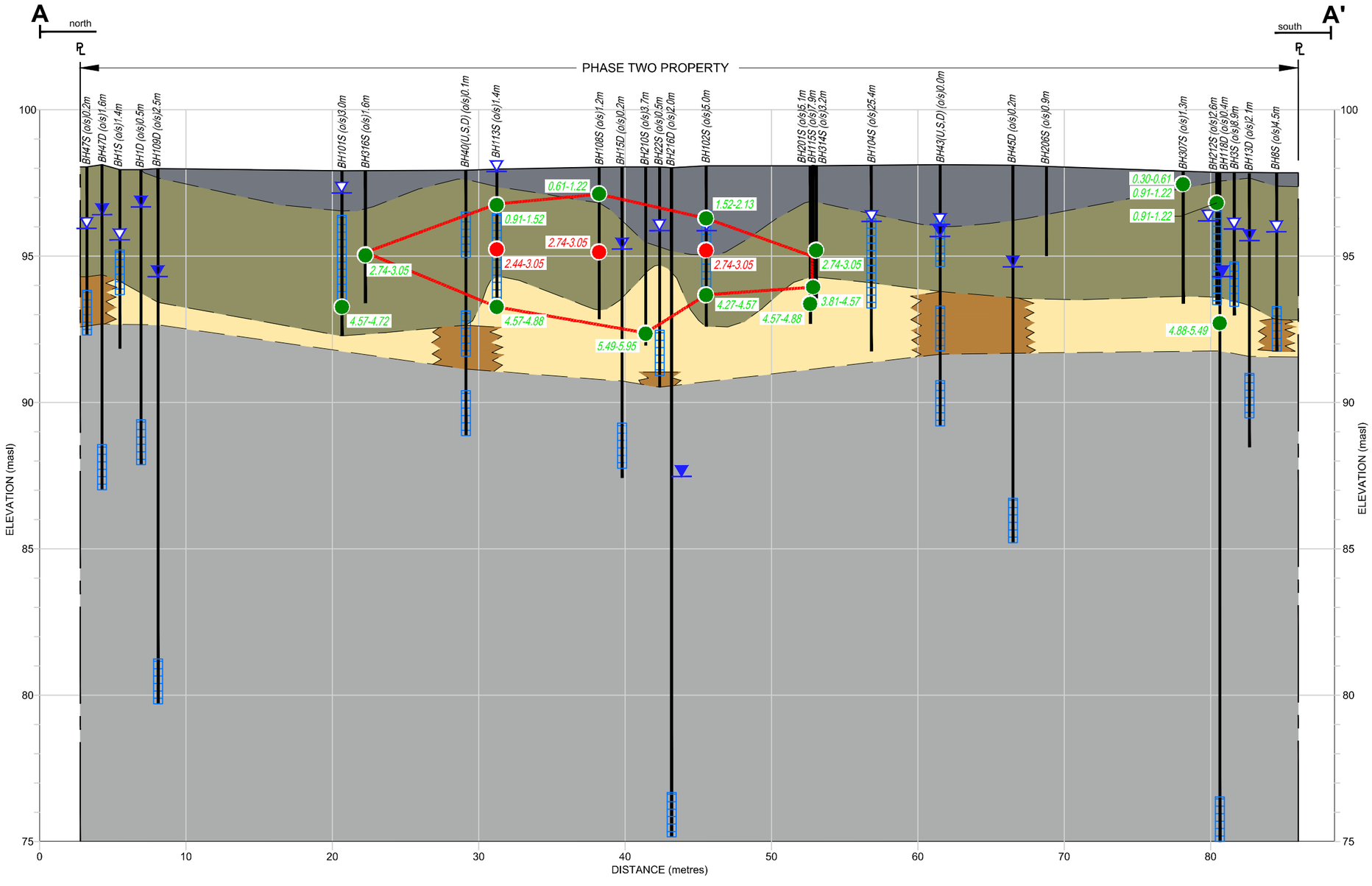
CLIENT
Lockwood Auto Group Inc.

PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

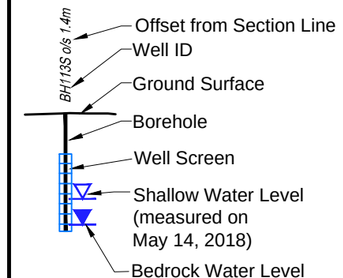
TITLE
PHCs IN SOIL - PLAN VIEW

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934–100
Drawn By	TXS	Figure No.	9a
Date	June 2020		



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 0.31-0.61 Sample Depth
- Inferred Extent



Scale(11x17): As Noted

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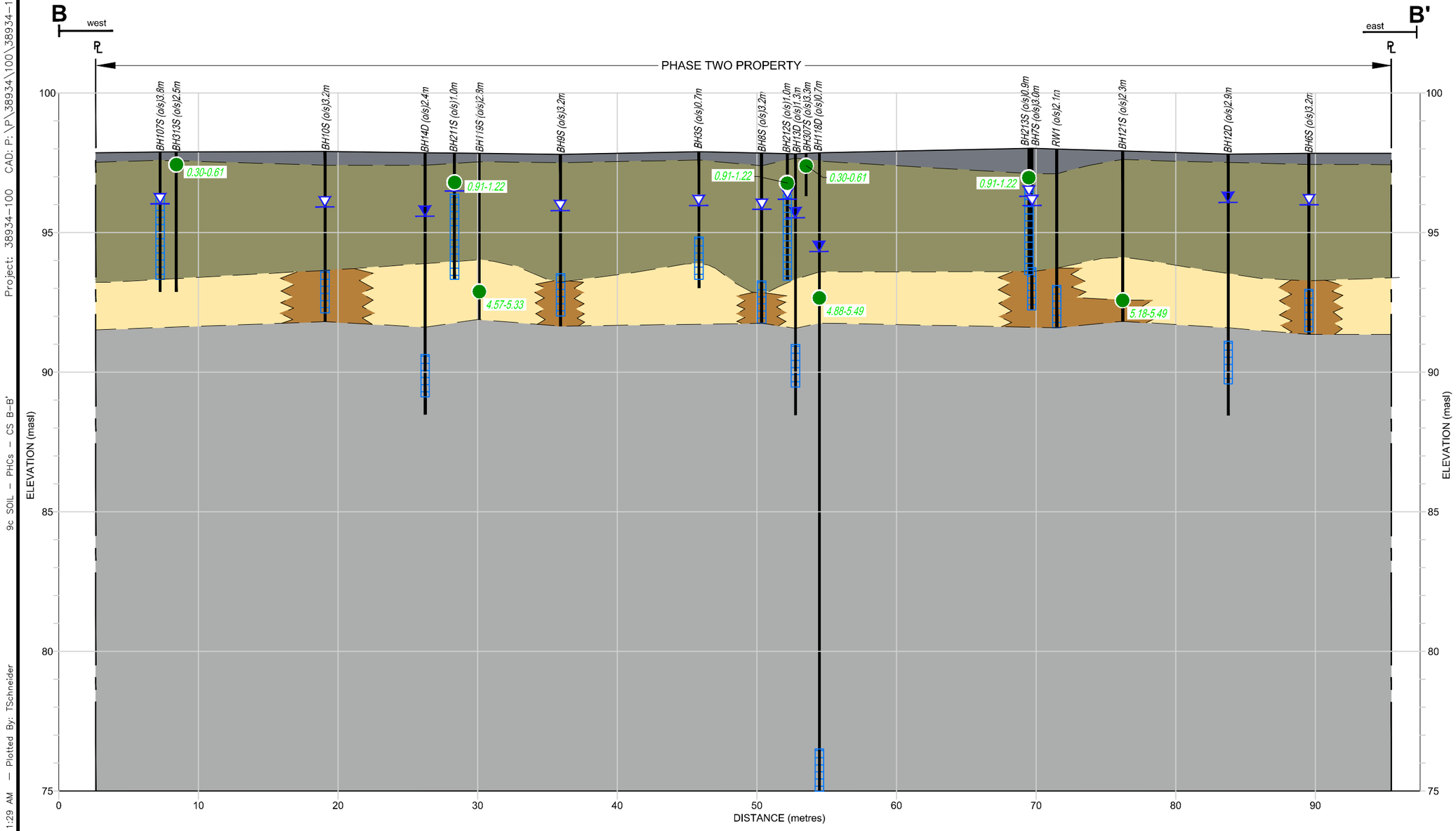
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
PHCs IN SOIL
CROSS-SECTION A-A'

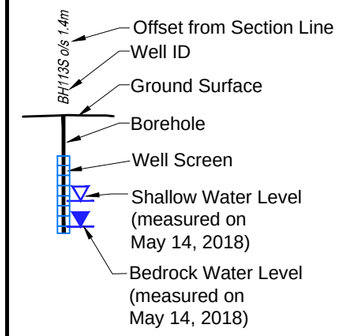
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	9b
Date	June 2020		

June 11, 2020 — 11:29 AM — Plotted By: TSchneider
9b SOIL – PHCs – CS A-A' — Project: 38934-100 CAD: P:\P\38934\100\38934-100-EV27.DWG



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 0.31-0.61 Sample Depth
- Inferred Extent



Scale(11x17): As Noted

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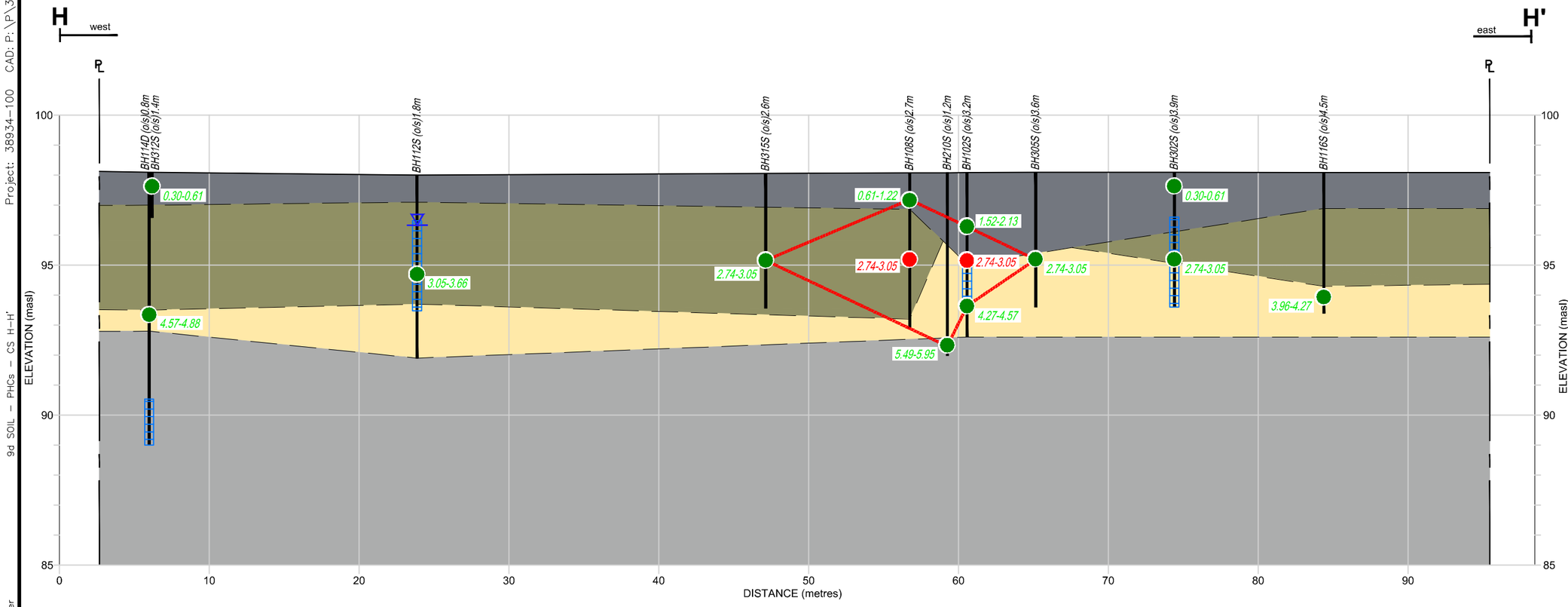
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
PHCs IN SOIL
CROSS-SECTION B-B'

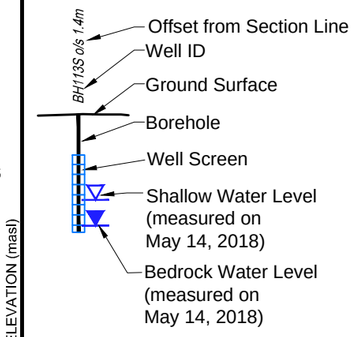
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934–100
Drawn By	TXS	Figure No.	9c
Date	June 2020		

Project: 38934–100 CAD: P:\P\38934\100\38934–100–EV27.DWG
9c SOIL – PHCs – CS B–B'
June 11, 2020 – 11:29 AM – Plotted By: TSchneider



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 0.31-0.61 Sample Depth
- Inferred Extent



Scale(11x17): As Noted

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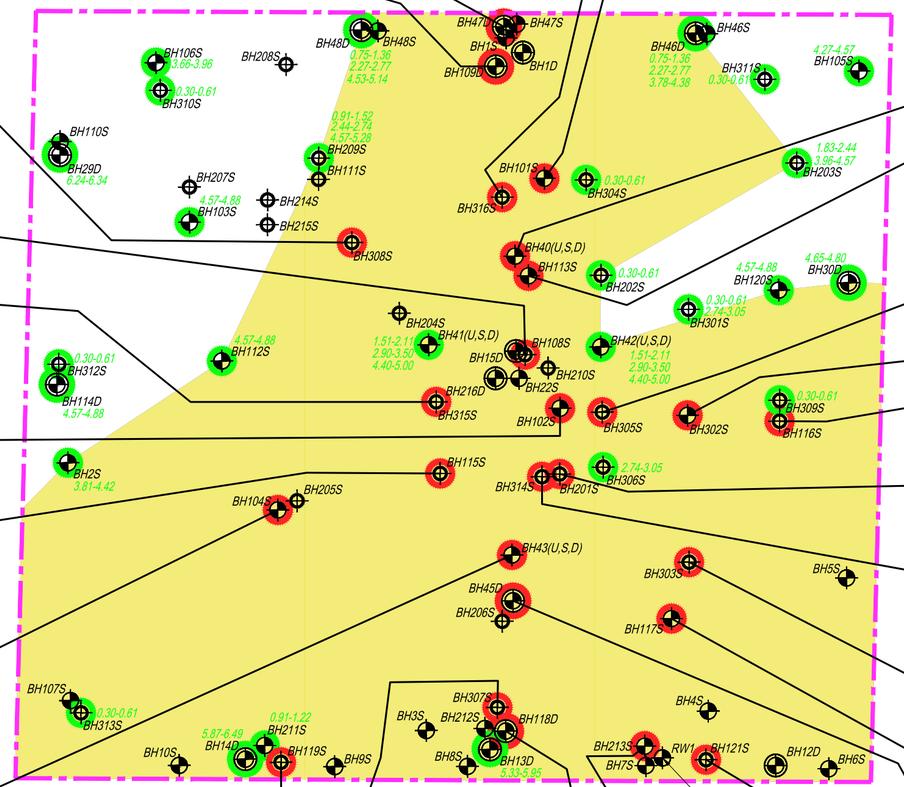
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
PHCs IN SOIL
CROSS-SECTION H-H'

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	9d
Date	June 2020		

Project: 38934-100 CAD: P:\38934\100\38934-100-EV27.DWG
9d SOIL - PHCs - CS H-H'
June 11, 2020 - 11:29 AM - Plotted By: TSchneider



Parameter	MOE Table 2 2011	BH47D SS1	BH47D SS3	BH47D SS5
Sample Depth:		0.75-1.36m	2.27-2.77m	3.78-4.38m
Date Sampled:		10-Mar-15		
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	<0.050	0.076	<0.050
Tetrachloroethylene	2.3	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050	<0.050
Trichloroethylene	0.52	0.115	0.41	**1.16**
Vinyl Chloride	0.022	<0.020	<0.020	<0.020

Parameter	MOE Table 2 2011	BH316S 9-10
Sample Depth:		2.74-3.05m
Date Sampled:		20-Feb-20
1,1-Dichloroethylene	0.05	**0.098**
cis-1,2-Dichloroethylene	2.5	**3.9**
Tetrachloroethylene	2.3	<0.050
1,1,2-Trichloroethane	0.05	<0.050
Trichloroethylene	0.52	**1.9**
Vinyl Chloride	0.022	**0.21**

Parameter	MOE Table 2 2011	BH101(8-9)	BH101(15-15.5)	BH1010(15-15.5)	BH101(18-18.5)
Sample Depth:		2.44-2.74m	4.57-4.72m	4.57-4.72m	5.49-5.64m
Date Sampled:		22-Nov-17			
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	**9.69**	0.773	0.879	<0.050
Tetrachloroethylene	2.3	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	0.52	**8.5**	**9.18**	**11.4**	0.132
Vinyl Chloride	0.022	**0.026**	**0.095**	**0.131**	<0.020

Parameter	MOE Table 2 2011	BH109(5-7)	BH109(8-9)	BH1090(8-9)	BH109(16-17)
Sample Depth:		1.52-2.13m	2.44-2.74m	2.44-2.74m	4.57-4.88m
Date Sampled:		20-Nov-17			
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	0.997	0.522	0.514	0.578
Tetrachloroethylene	2.3	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	0.52	**7.75**	**25.9**	**26.8**	**1.61**
Vinyl Chloride	0.022	<0.020	<0.020	<0.020	<0.020

Parameter	MOE Table 2 2011	ENV 407	ENV 408	ENV 409
Sample Depth:		1.51-2.11m	2.15-2.75m	5.90-6.10m
Date Sampled:		26-Mar-12		
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	0.083	0.1	<0.050
Tetrachloroethylene	2.3	<0.050	0.281	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050	<0.050
Trichloroethylene	0.52	**2.52**	**23**	<0.050
Vinyl Chloride	0.022	<0.020	<0.020	<0.020

Parameter	MOE Table 2 2011	BH308S 1-2	BH308S 9-10	BH308S 13-15
Sample Depth:		0.30-0.61m	2.74-3.05m	2.74-3.05m
Date Sampled:		20-Feb-20		
1,1-Dichloroethylene	0.05	<0.050	**0.099**	<0.050
cis-1,2-Dichloroethylene	2.5	<0.050	**32**	**7.1**
Tetrachloroethylene	2.3	<0.050	0.051	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050	<0.050
Trichloroethylene	0.52	<0.050	**29**	**4.5**
Vinyl Chloride	0.022	**0.063**	**1.8**	**0.084**

Parameter	MOE Table 2 2011	BH113(3-5)	BH113(8-10)	BH113(15-16)
Sample Depth:		0.91-1.52m	2.44-3.05m	4.57-4.88m
Date Sampled:		15-Nov-17		
1,1-Dichloroethylene	0.05	**0.093**	**0.054**	**0.067**
cis-1,2-Dichloroethylene	2.5	**17.6**	**6.18**	1.46
Tetrachloroethylene	2.3	0.051	0.19	<0.050
1,1,2-Trichloroethane	0.05	<0.050	**0.067**	<0.050
Trichloroethylene	0.52	**5.05**	**120**	**59.7**
Vinyl Chloride	0.022	**0.685**	**0.202**	**0.333**

Parameter	MOE Table 2 2011	BH108(2-4)	BH108(9-10)	BH108(16.5-17)
Sample Depth:		0.61-1.22m	2.74-3.05m	5.03-5.18m
Date Sampled:		15-Nov-17		
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	<0.050	**4.05**	0.305
Tetrachloroethylene	2.3	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	**<0.070**	<0.050
Trichloroethylene	0.52	0.035	0.044	0.355
Vinyl Chloride	0.022	<0.020	**6.13**	**0.097**

Parameter	MOE Table 2 2011	BH305S 9-10
Sample Depth:		2.74-3.05m
Date Sampled:		19-Feb-20
1,1-Dichloroethylene	0.05	<0.050
cis-1,2-Dichloroethylene	2.5	0.99
Tetrachloroethylene	2.3	<0.050
1,1,2-Trichloroethane	0.05	<0.050
Trichloroethylene	0.52	**7.3**
Vinyl Chloride	0.022	**0.048**

Parameter	MOE Table 2 2011	BH315S 9-10
Sample Depth:		2.74-3.05m
Date Sampled:		20-Feb-20
1,1-Dichloroethylene	0.05	<0.050
cis-1,2-Dichloroethylene	2.5	0.09
Tetrachloroethylene	2.3	<0.050
1,1,2-Trichloroethane	0.05	<0.050
Trichloroethylene	0.52	<0.050
Vinyl Chloride	0.022	**0.08**

Parameter	MOE Table 2 2011	BH302S 1-2	BH1302S 1-2	BH302S 9-10
Sample Depth:		0.30-0.61m	0.30-0.61m	2.74-3.05m
Date Sampled:		19-Feb-20		
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	<0.050	<0.050	<0.050
Tetrachloroethylene	2.3	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050	<0.050
Trichloroethylene	0.52	<0.050	<0.050	<0.050
Vinyl Chloride	0.022	<0.020	<0.020	**0.023**

Parameter	MOE Table 2 2011	BH102(5-7)	BH102(9-10)	BH1020(9-10)	BH102(14-15)	BH102(17-18)
Sample Depth:		1.52-2.13m	2.74-3.05m	2.74-3.05m	4.27-4.57m	5.18-5.49m
Date Sampled:		15-Nov-17				
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	0.183	0.715	1	0.72	0.732
Tetrachloroethylene	2.3	<0.050	2.01	**3.15**	1.31	0.093
1,1,2-Trichloroethane	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	0.52	0.211	**41.1**	**61.5**	**53.7**	**11.9**
Vinyl Chloride	0.022	<0.020	<0.020	<0.020	0.021	**0.059**

Parameter	MOE Table 2 2011	BH116(6-7)	BH116(13-14)	BH1160(13-14)
Sample Depth:		1.83-2.13m	3.96-4.27m	3.96-4.27m
Date Sampled:		16-Nov-17		
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	<0.050	0.186	0.13
Tetrachloroethylene	2.3	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050	<0.050
Trichloroethylene	0.52	<0.010	**7.31**	**5.13**
Vinyl Chloride	0.022	<0.020	<0.020	<0.020

Parameter	MOE Table 2 2011	BH115(12.5-15)	BH115(15-16)
Sample Depth:		3.81-4.57m	4.57-4.88m
Date Sampled:		16-Nov-17	
1,1-Dichloroethylene	0.05	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	0.201	0.328
Tetrachloroethylene	2.3	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050
Trichloroethylene	0.52	**2.71**	**2.97**
Vinyl Chloride	0.022	<0.020	**0.029**

Parameter	MOE Table 2 2011	BH201-18 15-16
Sample Depth:		4.57-4.88m
Date Sampled:		20-Apr-18
1,1-Dichloroethylene	0.05	<0.050
cis-1,2-Dichloroethylene	2.5	0.735
Tetrachloroethylene	2.3	<0.050
1,1,2-Trichloroethane	0.05	<0.050
Trichloroethylene	0.52	0.125
Vinyl Chloride	0.022	**0.052**

Parameter	MOE Table 2 2011	BH104(15-16)	BH104(18-19)
Sample Depth:		4.57-4.88m	5.49-5.79m
Date Sampled:		16-Nov-17	
1,1-Dichloroethylene	0.05	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	<0.050	<0.050
Tetrachloroethylene	2.3	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050
Trichloroethylene	0.52	<0.010	<0.010
Vinyl Chloride	0.022	**0.03**	<0.020

Parameter	MOE Table 2 2011	BH314S 9-10
Sample Depth:		2.74-3.05m
Date Sampled:		20-Feb-20
1,1-Dichloroethylene	0.05	<0.050
cis-1,2-Dichloroethylene	2.5	1.2
Tetrachloroethylene	2.3	<0.050
1,1,2-Trichloroethane	0.05	<0.050
Trichloroethylene	0.52	**6.6**
Vinyl Chloride	0.022	**0.092**

Parameter	MOE Table 2 2011	ENV 416	ENV 417	ENV 418
Sample Depth:		2.25-2.75m	2.90-3.50m	4.40-5.00m
Date Sampled:		29-Mar-12		
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	0.1	<0.050	0.107
Tetrachloroethylene	2.3	<0.050	0.281	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050	<0.050
Trichloroethylene	0.52	<0.050	<0.050	**3.86**
Vinyl Chloride	0.022	<0.020	<0.020	<0.020

Parameter	MOE Table 2 2011	BH303S 1-2	BH303S 9-10
Sample Depth:		0.30-0.61m	2.74-3.05m
Date Sampled:		20-Feb-20	
1,1-Dichloroethylene	0.05	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	<0.050	0.3
Tetrachloroethylene	2.3	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050
Trichloroethylene	0.52	0.057	**18**
Vinyl Chloride	0.022	<0.020	<0.020

Parameter	MOE Table 2 2011	BH119(6-8)	BH119(15-17.5)	BH119(17.5-19.5)
Sample Depth:		1.83-2.44m	4.57-5.33m	5.33-5.94m
Date Sampled:		16-Nov-17		
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	<0.050	<0.050	<0.050
Tetrachloroethylene	2.3	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050	<0.050
Trichloroethylene	0.52	<0.010	**0.994**	**0.876**
Vinyl Chloride	0.022	<0.020	<0.020	<0.020

Parameter	MOE Table 2 2011	BH117(7.5-9.5)	BH117(10-12)	BH117(20-22)
Sample Depth:		2.29-2.90m	3.05-3.66m	6.10-6.71m
Date Sampled:			15-Nov-17	
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	0.192	**2.54**	<0.050
Tetrachloroethylene	2.3	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050	<0.050
Trichloroethylene	0.52	**4.08**	0.062	**1.42**
Vinyl Chloride	0.022	<0.020	**0.15**	<0.020

Parameter	MOE Table 2 2011	BH45D SS1	BH45D SS3	BH45D SS5
Sample Depth:		0.75-1.36m	2.27-2.77m	3.78-4.38m
Date Sampled:		9-Mar-15		
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	0.077	<0.050	0.119
Tetrachloroethylene	2.3	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050	<0.050
Trichloroethylene	0.52	<0.050	0.111	**2.68**
Vinyl Chloride	0.022	<0.020	<0.020	<0.020

Parameter	MOE Table 2 2011	BH307S 1-2	BH1307S 1-2
Sample Depth:		0.30-0.61m	
Date Sampled:		20-Feb-20	
1,1-Dichloroethylene	0.05	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	0.14	0.41
Tetrachloroethylene	2.3	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050
Trichloroethylene	0.52	**1.8**	**3.6**
Vinyl Chloride	0.022	<0.020	<0.020

Parameter	MOE Table 2 2011	BH118(5-7)	BH118(11-13)	BH1180(11-13)	BH118(19-20)
Sample Depth:		1.52-2.13m	3.35-3.96m	3.35-3.96m	5.79-6.10m
Date Sampled:		21-Nov-17			
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	0.253	0.227	0.169	0.121
Tetrachloroethylene	2.3	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	0.52	**4.81**	**36.1**	**25.8**	**8.1**
Vinyl Chloride	0.022	<0.020	<0.020	<0.020	<0.020

Parameter	MOE Table 2 2011	MW213-18 3-4	MW213-18 10-12
Sample Depth:		0.91-1.22m	3.05-3.66m
Date Sampled:		20-Apr-18	
1,1-Dichloroethylene	0.05	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	<0.050	0.146
Tetrachloroethylene	2.3	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050
Trichloroethylene	0.52	0.079	**2.28**
Vinyl Chloride	0.022	<0.020	<0.020

Parameter	MOE Table 2 2011	BH121(10-11)	BH121(17-18)	BH121(19-19.5)
Sample Depth:		3.05-3.35m	5.18-5.49m	5.79-5.94m
Date Sampled:			16-Nov-17	
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	2.5	<0.050	0.064	<0.050
Tetrachloroethylene	2.3	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.050	<0.050	<0.050
Trichloroethylene	0.52	<0.010	**2.67**	**0.843**
Vinyl Chloride	0.022	<0.020	<0.020	<0.020

NORTH

PROJECT NORTH

LEGEND

- Property Boundary
- Borehole
- Overburden Monitoring Well
- Bedrock Monitoring Well
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 1.52-4.57 Soil Sample Depth (metres below ground surface)
- Analyzed value exceeds the MOE 2011 Table 2 Standards, Residential Property Use, Med/Fine Textured Soil (ug/g)
- Laboratory Method Detection Limit exceeds the MOE 2011 Table 2 Standards, Residential Property Use, Med/Fine Textured Soil (ug/g)

0 5 10 15 20 25m

Scale(17x22): 1:500

MTE
Engineers, Scientists, Surveyors
Ph. (905) 639-2552

CLIENT: Lockwood Auto Group Inc.

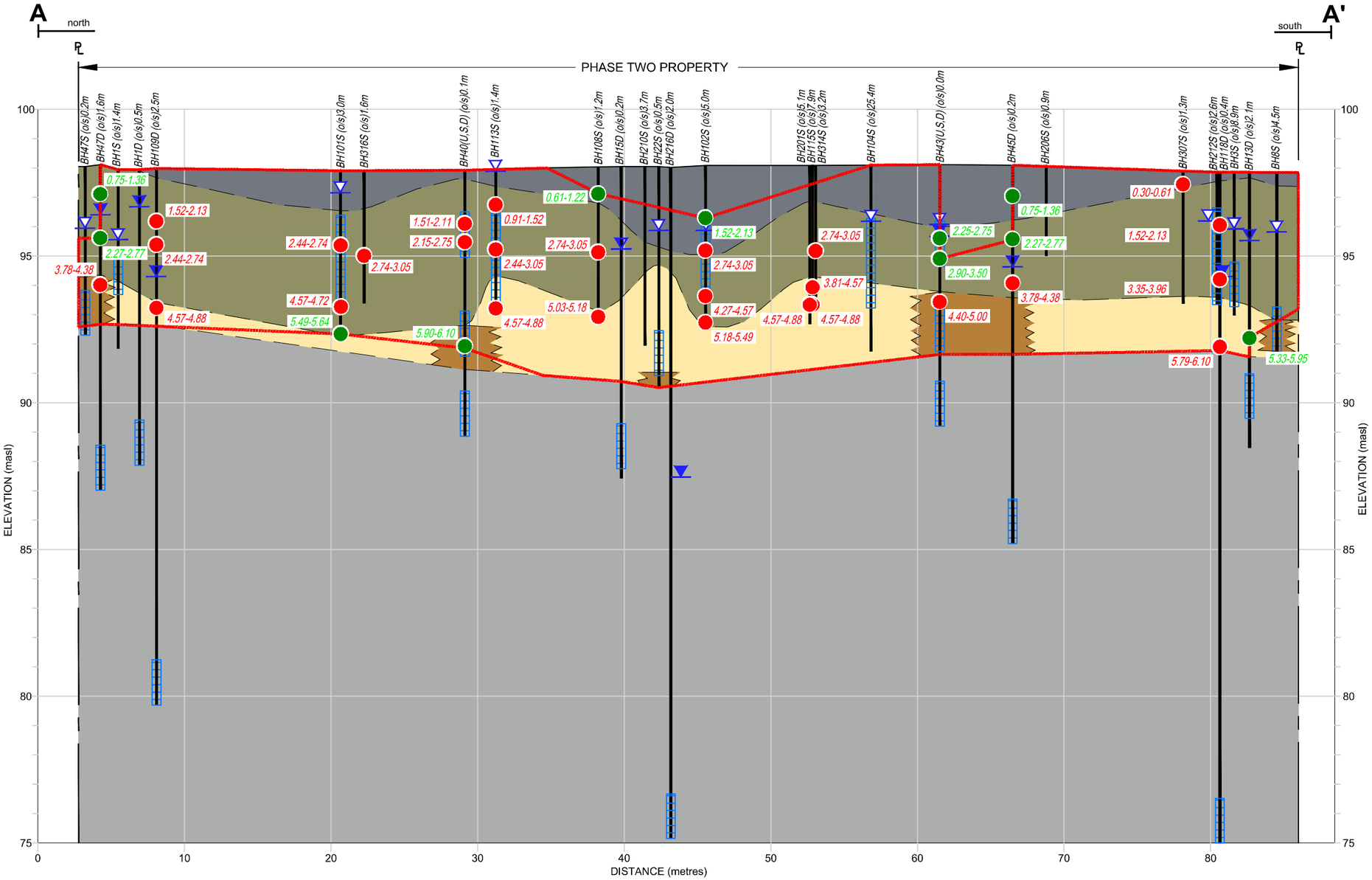
PROJECT: Phase Two Environmental Site Assessment

SITE: 2362 Fairview Street Burlington, Ontario

TITLE: VOCs IN SOIL - PLAN VIEW

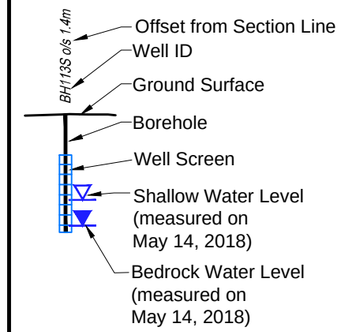
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	10a
Date	June 2020		

Project: 38934-100 CAD: P:\P\38934\100\38934-100-EV26.DWG
10a SOIL - VOCs - PLAN VIEW
June 11, 2020 - 11:22 AM - Plotted By: TSchneider



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 0.31-0.61 Sample Depth
- Inferred Extent



Scale(11x17): As Noted

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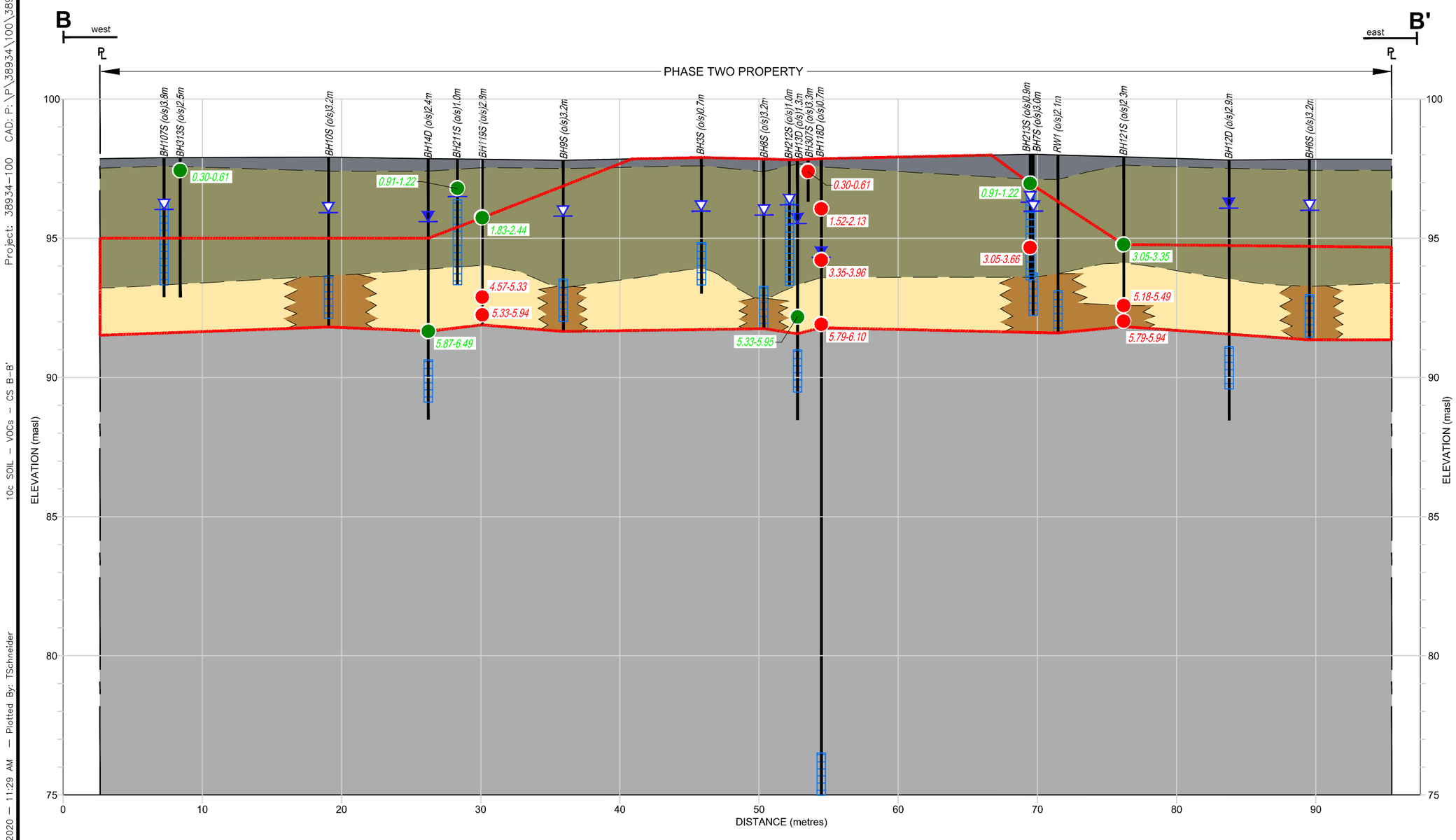
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
VOCs IN SOIL
CROSS-SECTION A-A'

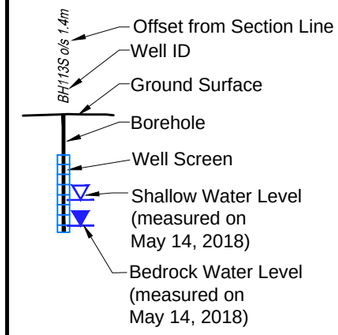
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	10b
Date	June 2020		

Project: 38934-100 CAD: P:\P\38934\100\38934-100-EV27.DWG
10b SOIL - VOCs - CS A-A'
June 11, 2020 - 11:29 AM - Plotted By: TSchneider



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Soil
- Analytical Results Above MOE Table 2 RPI Standards in Soil
- 0.31-0.61 Sample Depth
- Inferred Extent



Scale(11x17): As Noted

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PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

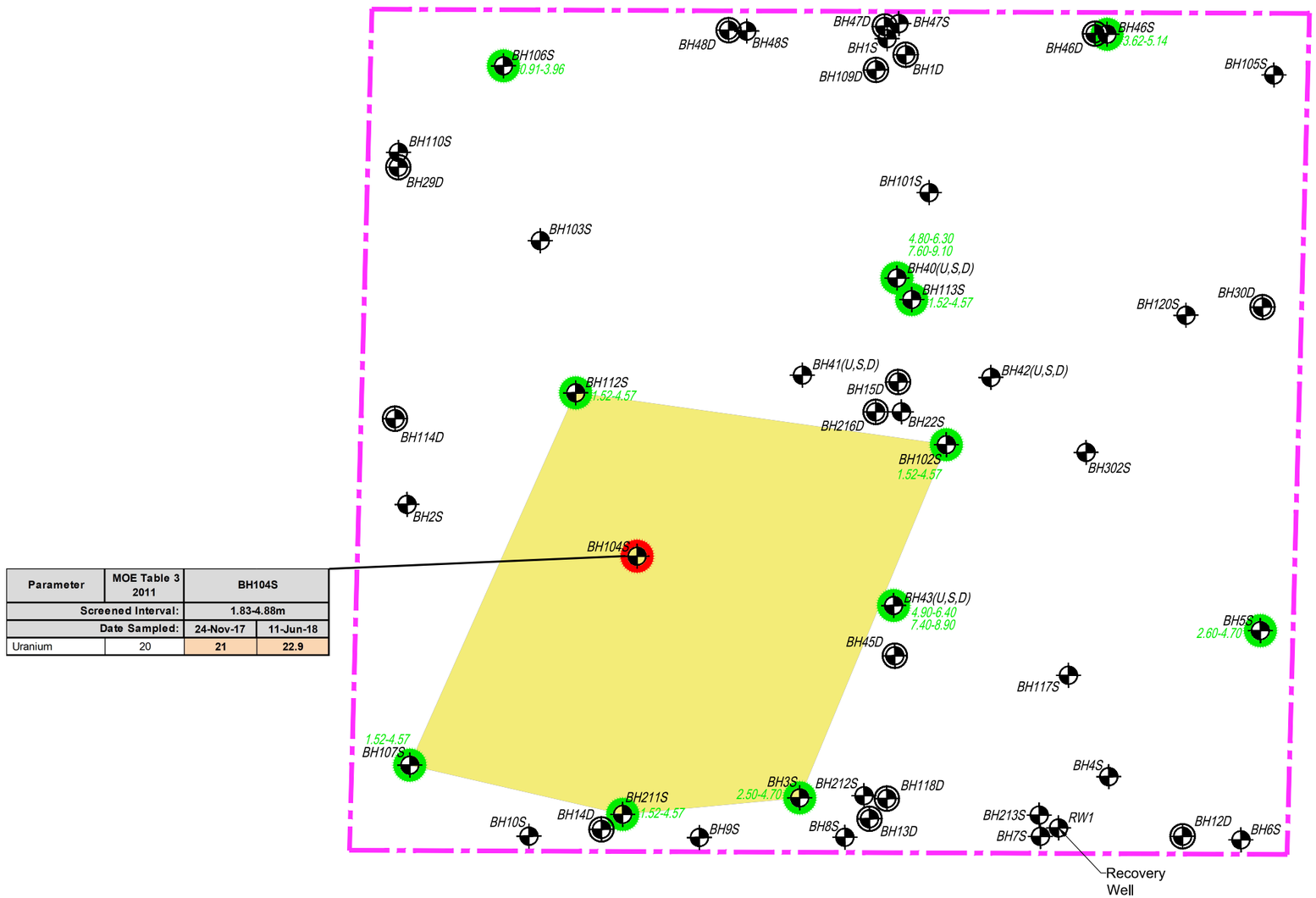
TITLE
VOCs IN SOIL
CROSS-SECTION B-B'

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934–100
Drawn By	TXS	Figure No.	10c
Date	June 2020		

Project: 38934–100 CAD: P:\38934\100\38934–100–EV27.DWG
10c SOIL – VOCs – CS B–B'
June 11, 2020 – 11:29 AM – Plotted By: TSchneider

Project: 38934-100 CAD: P:\P\38934\100\38934-100-EV26.DWG
11a GW - METALS - PLAN VIEW - Plotted By: TSchneider
June 11, 2020 - 11:22 AM

Fairview Street



Parameter	MOE Table 3 2011	BH104S	
Screened Interval:		1.83-4.88m	
Date Sampled:		24-Nov-17	11-Jun-18
Uranium	20	21	22.9

NORTH

PROJECT NORTH

LEGEND

- Property Boundary
- Overburden Monitoring Well
- Bedrock Monitoring Well
- Analytical Results Below MOE Table 2 RPI Standards in Groundwater
- Analytical Results Above MOE Table 2 RPI Standards in Groundwater
- 3.62-5.14 Well Screen Interval (metres below ground surface)
- Analyzed value exceeds the MOE 2011 Table 2 Standards, Residential Property Use, Med/Fine Textured Soil (ug/L)

0 5 10 15 20 25m

Scale(11x17): 1:500

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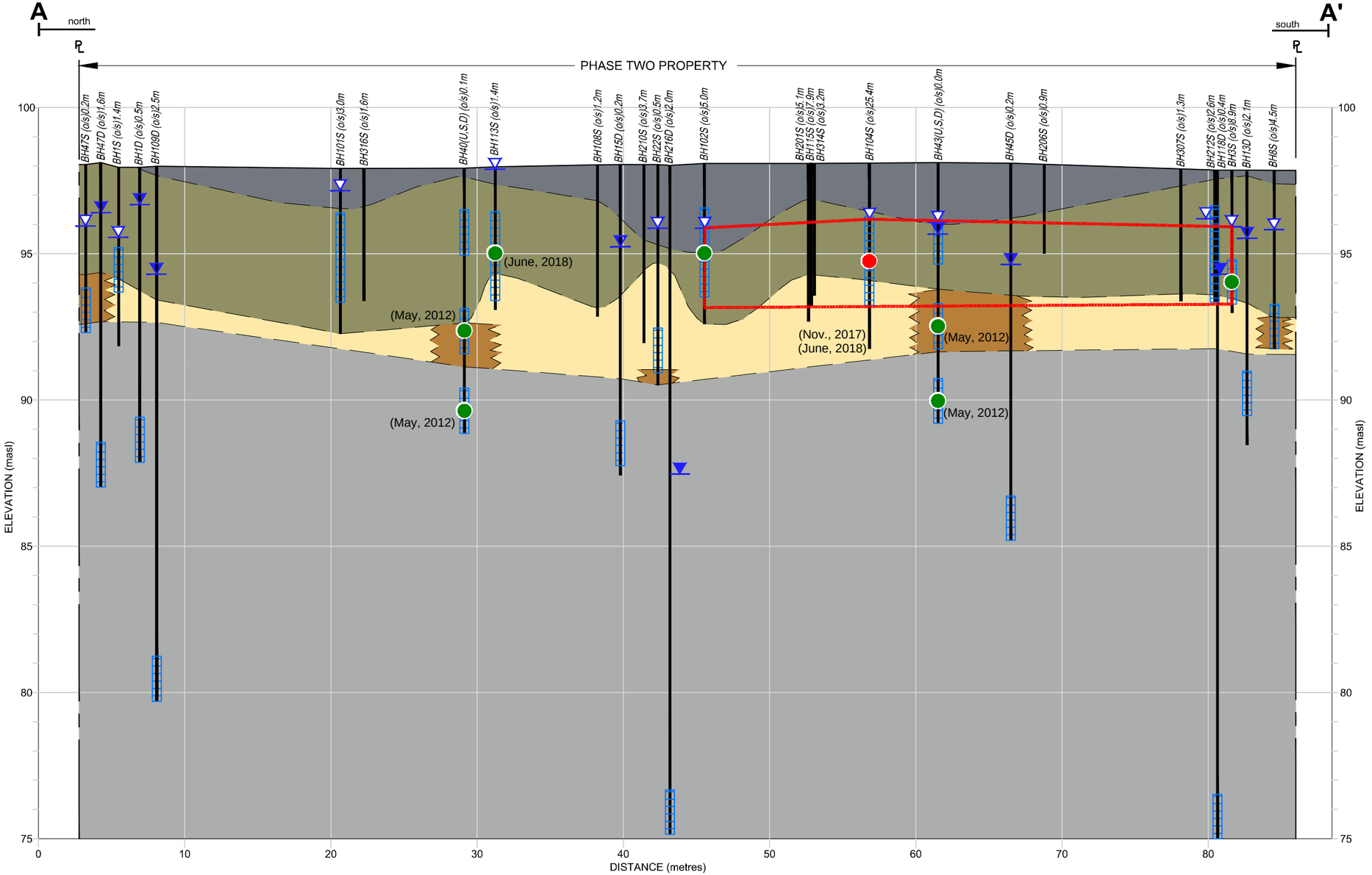
CLIENT
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PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

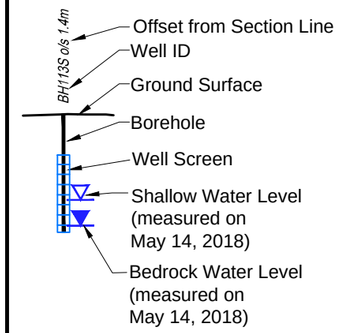
TITLE
METALS (Including As, Sb, Se)
IN GROUNDWATER - PLAN VIEW

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	11a
Date	June 2020		



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Groundwater
- Analytical Results Above MOE Table 2 RPI Standards in Groundwater
- (Nov., 2017) Sampling Date
- Inferred Extent



Scale(11x17): As Noted

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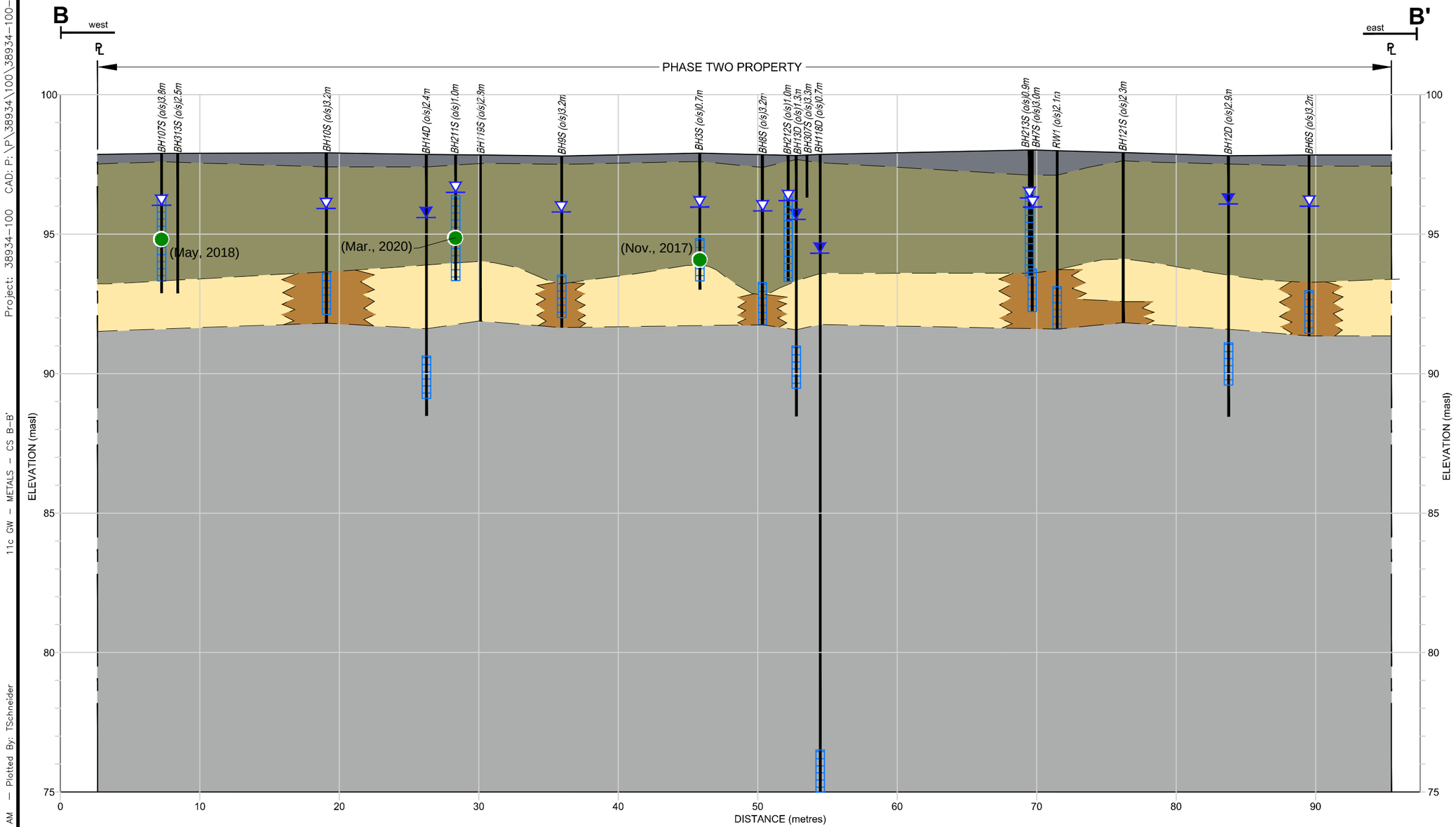
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
METALS (Including As, Sb, Se)
IN GROUNDWATER
CROSS-SECTION A-A'

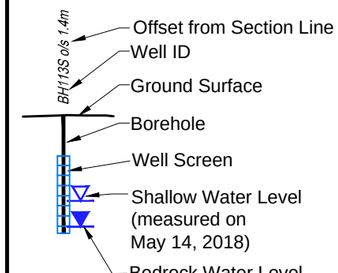
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934–100
Drawn By	TXS	Figure No.	11b
Date	June 2020		

Project: 38934–100 CAD: P: \P\38934\100\38934–100–EV27.DWG 11b GW – METALS – CS A–A'
June 11, 2020 – 11:29 AM – Plotted By: TSchneider



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Groundwater
- Analytical Results Above MOE Table 2 RPI Standards in Groundwater
- (Nov., 2017) Sampling Date
- Inferred Extent



Scale(11x17): As Noted

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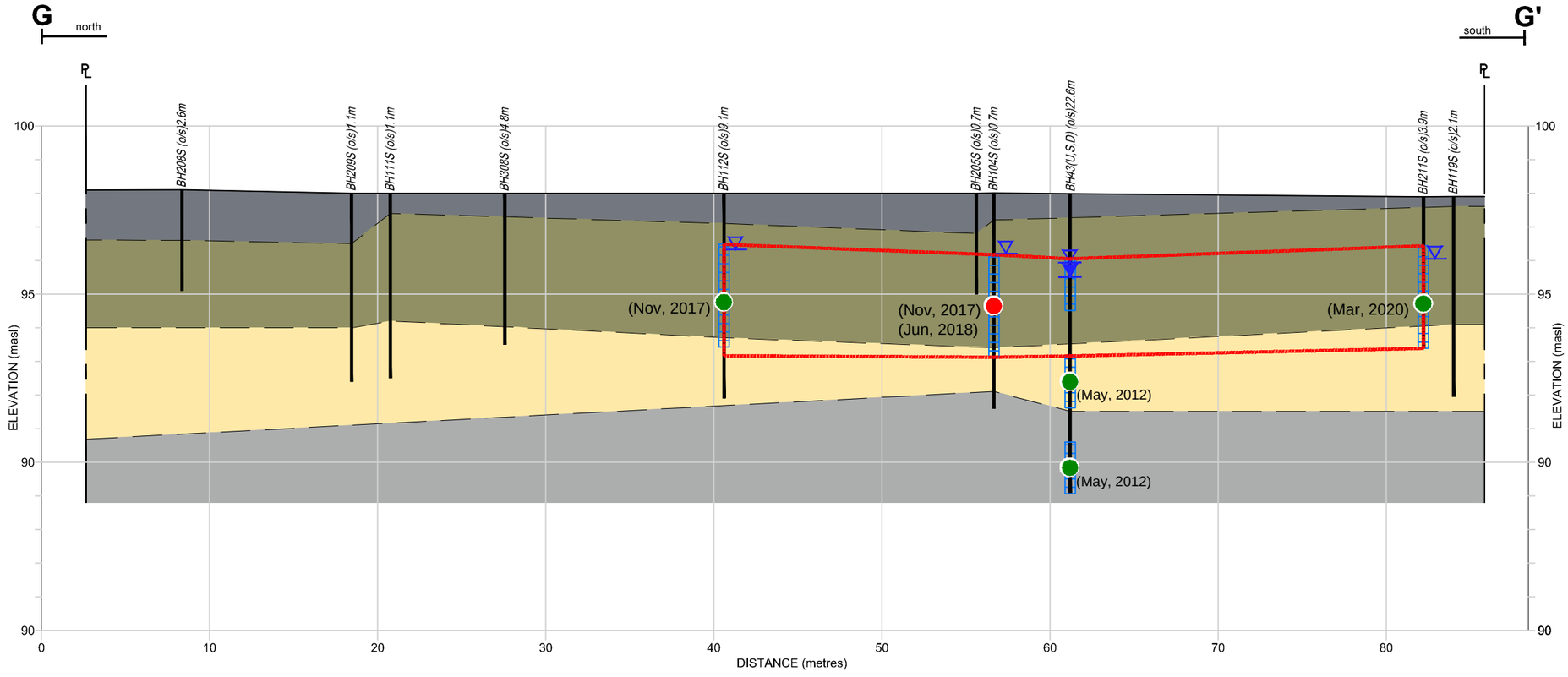
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
METALS (Including As, Sb, Se)
IN GROUNDWATER
CROSS-SECTION B-B'

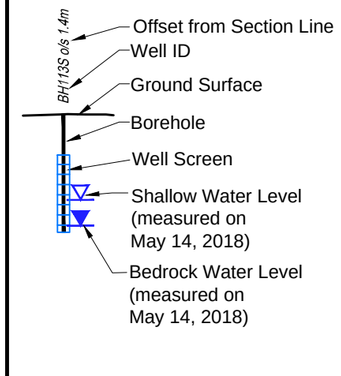
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934–100
Drawn By	TXS	Figure No.	11c
Date	June 2020		

June 11, 2020 — 11:29 AM — Plotted By: TSchneider
11c GW — METALS — CS B–B' — Project: 38934–100 CAD: P:\38934\100\38934–100–EV27.DWG



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Groundwater
- Analytical Results Above MOE Table 2 RPI Standards in Groundwater
- (Nov, 2017) Sampling Date
- Inferred Extent



Scale(11x17): As Noted

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PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
METALS (Including As, Sb, Se)
IN GROUNDWATER
CROSS-SECTION G-G'

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934-100
Drawn By	TXS	Figure No.	11d
Date	June 2020		

June 11, 2020 — 11:29 AM — Plotted By: TSchneider
11d GW — METALS — CS G-G' — Project: 38934-100 CAD: P:\38934\100\38934-100-EV27.DWG

Project: 38934–100 CAD: P:\P\38934\100\38934–100–EV26.DWG

12a GW–VOCs – PLAN VIEW — June 11, 2020 — 11:22 AM — Plotted By: TSchneider

Parameter	MOE Table 2 2011	BH40U	
Screened Interval:		1.50-3.00m	
Date Sampled:		7-May-15	7-May-15
1,1-Dichloroethane	5	<0.50	<0.50
1,1-Dichloroethylene	14	9.51	15.8
cis-1,2-Dichloroethylene	17	3630	2920
trans-1,2-Dichloroethylene	17	12.8	21.6
1,1,2-Trichloroethane	5	<0.50	0.78
Tetrachloroethylene	17	<0.50	<0.50
Trichloroethylene	5	680	762
Vinyl Chloride	1.7	308	377

Parameter	MOE Table 2 2011	BH1S									
Screened Interval:		2.75-4.27m									
Date Sampled:		27-Apr-16	27-Apr-16	12-Oct-16	8-May-17	26-Apr-18	9-Nov-18	10-Apr-19	10-Apr-19	5-Nov-19	28-Apr-20
1,1-Dichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	14	4.16	3.51	<0.50	5.25	6.2	6.21	3.38	2.5	1.35	3.25
cis-1,2-Dichloroethylene	17	1000	783	124	521	674	1060	489	367	178	475
trans-1,2-Dichloroethylene	17	4.39	3.3	<0.50	6.58	8.07	9.5	4.93	3.68	2.3	5.55
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	5	1960	2150	628	2440	3160	3100	2240	2180	1010	1990
Vinyl Chloride	1.7	61.9	<0.50	<0.50	28.8	5.39	32	<0.50	1.62	2.36	<0.50

Parameter	MOE Table 2 2011	BH47S								
Screened Interval:		3.62-5.14m								
Date Sampled:		8-May-17	27-Nov-17	26-Mar-18	26-Mar-18	26-Apr-18	9-Nov-18	10-Apr-19	6-Nov-19	28-Apr-20
1,1-Dichloroethane	5	1.17	1.07	1.2	1.1	1.33	1.35	1.11	1.36	1.7
1,1-Dichloroethylene	14	11.9	9.96	10	10	11.9	11.6	7.82	12.3	12.2
cis-1,2-Dichloroethylene	17	736	828	700	680	871	915	919	1050	1630
trans-1,2-Dichloroethylene	17	7.27	5.9	5.6	5.5	7.14	7.25	4.75	7.39	8.86
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	5	3250	3090	2300	2200	2920	2980	2610	2880	3490
Vinyl Chloride	1.7	2.08	86.6	36	34	2.12	18.7	2.22	35	3.17

Parameter	MOE Table 2 2011	BH40S
Screened Interval:		4.80-6.30m
Date Sampled:		16-Oct-14
1,1-Dichloroethane	5	1.32
1,1-Dichloroethane	5	<0.50
1,1-Dichloroethylene	14	28.4
cis-1,2-Dichloroethylene	17	3220
trans-1,2-Dichloroethylene	17	17.2
1,1,2-Trichloroethane	5	<0.50
Tetrachloroethylene	17	0.74
Trichloroethylene	5	12300
Vinyl Chloride	1.7	216

Parameter	MOE Table 2 2011	BH109D			
Screened Interval:		16.77-18.29m			
Date Sampled:		28-Nov-17	28-Nov-17	27-Feb-18	22-Mar-18
1,1-Dichloroethane	5	<0.50	<0.50	<0.50	<0.20
1,1-Dichloroethylene	14	<0.50	<0.50	<0.50	<0.20
cis-1,2-Dichloroethylene	17	5.2	5.05	0.58	3.6
trans-1,2-Dichloroethylene	17	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<0.50	<0.50	<0.50	<0.20
Trichloroethylene	5	23	23.1	<0.50	8.3
Vinyl Chloride	1.7	0.57	<0.50	<0.50	0.31

Parameter	MOE Table 2 2011	BH1D			
Screened Interval:		8.51-10.06m			
Date Sampled:		27-Apr-16	12-Oct-16	12-Oct-16	26-Mar-18
1,1-Dichloroethane	5	<5.0	<0.50	0.65	1.4
1,1-Dichloroethylene	14	<5.0	4.85	4.14	9.9
cis-1,2-Dichloroethylene	17	255	759	1230	1600
trans-1,2-Dichloroethylene	17	<5.0	7.05	5.52	8.9
1,1,2-Trichloroethane	5	<5.0	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<5.0	<0.50	<0.50	0.36
Trichloroethylene	5	1380	1550	2470	6000
Vinyl Chloride	1.7	13.8	24.5	74.9	200

Parameter	MOE Table 2 2011	BH40D
Screened Interval:		7.60-9.10m
Date Sampled:		9-May-14
1,1-Dichloroethane	5	4.32
1,1-Dichloroethylene	14	65.4
cis-1,2-Dichloroethylene	17	12100
trans-1,2-Dichloroethylene	17	53
1,1,2-Trichloroethane	5	12.7
Tetrachloroethylene	17	9.94
Trichloroethylene	5	43400
Vinyl Chloride	1.7	11.3

Parameter	MOE Table 2 2011	BH46D						
Screened Interval:		9.58-11.10m						
Date Sampled:		8-May-17	1-Dec-17	26-Apr-18	9-Nov-18	10-Apr-19	6-Nov-19	28-Apr-20
1,1-Dichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	14	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	17	3.6	4.43	13.2	3.13	34.3	8.95	13.3
trans-1,2-Dichloroethylene	17	<0.50	0.69	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	5	1.5	0.67	2.58	<0.50	179	0.69	21.2
Vinyl Chloride	1.7	0.96	1.64	<0.50	1.26	2.93	<0.50	1.73

Parameter	MOE Table 2 2011	BH46S						
Screened Interval:		3.62-5.14m						
Date Sampled:		8-May-17	27-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	6-Nov-19	28-Apr-20
1,1-Dichloroethane	5	5.16	5.39	4.7	5.54	3.18	5.02	3.29
1,1-Dichloroethylene	14	6.76	7.44	6.39	7.53	3.97	7.96	4.66
cis-1,2-Dichloroethylene	17	1490	1830	1690	2010	1120	1410	1440
trans-1,2-Dichloroethylene	17	9.27	9.73	8.97	14.8	5.62	9.62	8.36
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	5	48.8	237	28.9	6.2	14.8	10.7	10.6
Vinyl Chloride	1.7	15.7	79.8	3.9	44	1.07	<5.0	0.93

Parameter	MOE Table 2 2011	BH41U
Screened Interval:		1.10-2.60m
Date Sampled:		27-Nov-17
1,1-Dichloroethane	5	<0.50
1,1-Dichloroethylene	14	<0.50
cis-1,2-Dichloroethylene	17	183
trans-1,2-Dichloroethylene	17	1.87
1,1,2-Trichloroethane	5	<0.50
Tetrachloroethylene	17	<0.50
Trichloroethylene	5	<0.50
Vinyl Chloride	1.7	152

Parameter	MOE Table 2 2011	BH101S
Screened Interval:		1.52-4.57m
Date Sampled:		24-Nov-17
1,1-Dichloroethane	5	<0.50
1,1-Dichloroethylene	14	0.73
cis-1,2-Dichloroethylene	17	198
trans-1,2-Dichloroethylene	17	1.58
1,1,2-Trichloroethane	5	<0.50
Tetrachloroethylene	17	<0.50
Trichloroethylene	5	772
Vinyl Chloride	1.7	38

Parameter	MOE Table 2 2011	BH113S	
Screened Interval:		1.52-4.57m	
Date Sampled:		24-Nov-17	24-Nov-17
1,1-Dichloroethane	5	<0.50	<0.50
1,1-Dichloroethylene	14	31.8	31.8
cis-1,2-Dichloroethylene	17	9380	9850
trans-1,2-Dichloroethylene	17	53.7	58.5
1,1,2-Trichloroethane	5	5.76	5.53
Tetrachloroethylene	17	5.15	5.35
Trichloroethylene	5	6110	6760
Vinyl Chloride	1.7	549	611

Parameter	MOE Table 2 2011	BH41S		
Screened Interval:		5.00-6.50m		
Date Sampled:		27-Apr-16	12-Oct-16	27-Nov-17
1,1-Dichloroethane	5	<0.50	2.40	2.60
1,1-Dichloroethylene	14	34.1	27.3	44.6
cis-1,2-Dichloroethylene	17	19700	13900	18400
trans-1,2-Dichloroethylene	17	69.6	57.1	59.5
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<0.50	<0.50	<0.50
Trichloroethylene	5	3300	37.9	6230
Vinyl Chloride	1.7	3210	1730	4090

Parameter	MOE Table 2 2011	BH15D									
Screened Interval:		8.80-10.30m									
Date Sampled:		27-Apr-16	12-Oct-16	8-May-17	28-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	5-Nov-19	27-Apr-20
1,1-Dichloroethane	5	1.54	<0.50	1.47	1.11	0.56	0.53	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	14	1.94	5.23	1.74	18.6	6.92	5.84	2.28	2.5	2.33	1.56
cis-1,2-Dichloroethylene	17	411	459	619	1530	823	888	312	315	323	237
trans-1,2-Dichloroethylene	17	5.61	5.45	6.57	14.8	5.77	4.64	2.47	2.1	2.01	1.88
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<0.50	0.74	<0.50	1.25	0.51	0.52	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	5	2.72	5210	10.1	12100	4270	4900	2140	2160	2160	1450
Vinyl Chloride	1.7	245	0.53	217	122	68.8	<25	0.64	<0.50	<0.50	<0.50

Parameter	MOE Table 2 2011	BH41D
Screened Interval:		8.00-9.50m
Date Sampled:		6-Dec-17
1,1-Dichloroethane	5	1.66
1,1-Dichloroethylene	14	36.3
cis-1,2-Dichloroethylene	17	8970
trans-1,2-Dichloroethylene	17	36.6
1,1,2-Trichloroethane	5	<0.50
Tetrachloroethylene	17	<0.50
Trichloroethylene	5	5360
Vinyl Chloride	1.7	2110

Parameter	MOE Table 2 2011	BH112S
Screened Interval:		1.52-4.57m
Date Sampled:		24-Nov-17
1,1-Dichloroethane	5	<0.50
1,1-Dichloroethylene	14	<0.50
cis-1,2-Dichloroethylene	17	1.09
trans-1,2-Dichloroethylene	17	<0.50
1,1,2-Trichloroethane	5	<0.50
Tetrachloroethylene	17	<0.50
Trichloroethylene	5	<0.50
Vinyl Chloride	1.7	15.1

Parameter	MOE Table 2 2011	BH120S
Screened Interval:		1.52-4.57m
Date Sampled:		24-Nov-17
1,1-Dichloroethane	5	<0.50
1,1-Dichloroethylene	14	<0.50
cis-1,2-Dichloroethylene	17	6.1
trans-1,2-Dichloroethylene	17	<0.50
1,1,2-Trichloroethane	5	<0.50
Tetrachloroethylene	17	<0.50
Trichloroethylene	5	7.63
Vinyl Chloride	1.7	2.36

Parameter	MOE Table 2 2011	BH42U
Screened Interval:		2.00-3.50m
Date Sampled:		27-Nov-17
1,1-Dichloroethane	5	<0.50
1,1-Dichloroethylene	14	<0.50
cis-1,2-Dichloroethylene	17	411
trans-1,2-Dichloroethylene	17	2.76
1,1,2-Trichloroethane	5	<0.50
Tetrachloroethylene	17	<0.50
Trichloroethylene	5	4.56
Vinyl Chloride	1.7	23.2

Parameter	MOE Table 2 2011	BH114D
Screened Interval:		7.63-9.15m
Date Sampled:		28-Nov-17
1,1-Dichloroethane	5	<0.50
1,1-Dichloroethylene	14	1.22
cis-1,2-Dichloroethylene	17	19.4
trans-1,2-Dichloroethylene	17	1.66
1,1,2-Trichloroethane	5	<0.50
Tetrachloroethylene	17	<0.50
Trichloroethylene	5	560
Vinyl Chloride	1.7	2.52

Parameter	MOE Table 2 2011	BH104S
Screened Interval:		1.83-4.88m
Date Sampled:		24-Nov-17
1,1-Dichloroethane	5	<0.50
1,1-Dichloroethylene	14	<0.50
cis-1,2-Dichloroethylene	17	12
trans-1,2-Dichloroethylene	17	<0.50
1,1,2-Trichloroethane	5	<0.50
Tetrachloroethylene	17	<0.50
Trichloroethylene	5	6.27
Vinyl Chloride	1.7	5.91

Parameter	MOE Table 2 2011	BH22S			
Screened Interval:		5.60-7.10m			
Date Sampled:		12-Oct-16	27-Nov-17	10-Apr-19	27-Apr-20
1,1-Dichloroethane	5	0.72	1.61	1.58	1.52
1,1-Dichloroethylene	14	1.05	2.37	0.59	<0.50
cis-1,2-Dichloroethylene	17	657	544	72.1	58.4
trans-1,2-Dichloroethylene	17	2.56	4.22	2.48	2.02
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	5	0.86	102	6.81	1.16
Vinyl Chloride	1.7	356	227	38.6	49.8

Parameter	MOE Table 2 2011	BH42D
Screened Interval:		7.90-9.40m
Date Sampled:		28-Nov-17
1,1-Dichloroethane	5	0.54
1,1-Dichloroethylene	14	11.9
cis-1,2-Dichloroethylene	17	1380
trans-1,2-Dichloroethylene	17	11.2
1,1,2-Trichloroethane	5	<0.50
Tetrachloroethylene	17	<0.50
Trichloroethylene	5	4130
Vinyl Chloride	1.7	145

Parameter	MOE Table 2 2011	BH43U	
Screened Interval:		2.0-3.5m	
Date Sampled:		27-Nov-17	11-May-18
1,1-Dichloroethane	5	<0.50	<0.20
1,1-Dichloroethylene	14	<0.50	0.21
cis-1,2-Dichloroethylene	17	30.8	23
trans-1,2-Dichloroethylene	17	2.32	2
1,1,2-Trichloroethane	5	<0.50	<0.50
Tetrachloroethylene	17	<0.50	<0.20
Trichloroethylene	5	50.5	34
Vinyl Chloride	1.7	1.23	0.96

Parameter	MOE Table 2 2011	BH102S	
Screened Interval:		1.52-4.57m	
Date Sampled:		24-Nov-17	11-May-18
1,1-Dichloroethane	5	1.96	1.1
1,1-Dichloroethylene	14	6.15	3
cis-1,2-Dichloroethylene	17	708	620
trans-1,2-Dichloroethylene	17	8.72	10
1,1,2-Trichloroethane	5	<0.50	<0.50
Tetrachloroethylene	17	55.9	2.1
Trichloroethylene	5	6870	150
Vinyl Chloride	1.7	69.4	89

Parameter	MOE Table 2 2011	BH117S	
Screened Interval:		1.52-4.57m	
Date Sampled:		27-Nov-17	11-May-18
1,1-Dichloroethane	5	0.98	0.48
1,1-Dichloroethylene	14	3.58	4.5
cis-1,2-Dichloroethylene	17	342	350
trans-1,2-Dichloroethylene	17	19.7	35
1,1,2-Trichloroethane	5	<0.50	<0.50
Tetrachloroethylene	17	<0.50	0.38
Trichloroethylene	5	1250	1500
Vinyl Chloride	1.7	27	26

Parameter	MOE Table 2 2011	BH43S								
Screened Interval:		4.90-6.40m								
Date Sampled:		27-Apr-16	12-Oct-16	8-May-17	27-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	27-Apr-20
1,1-Dichloroethane	5	<0.50	<0.50	<0.50	1.40	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	14	<0.50	<0.50	<0.50	6.56	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	17	31.3	40.4	32.3	511	25.3	35.1	21.6	18.4	20.6
trans-1,2-Dichloroethylene	17	1.57	2.09	1.73	5.16	1.67	1.79	1.44	1.28	1.63
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<0.50	<0.50	<0.50	0.77	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	5	65.6	64.6	45	5070	42.1	51.9	36.4	27.9	30.9
Vinyl Chloride	1.7	<0.50	<0.50	<0.50	101	<0.50	<0.50	<0.50	<0.50	<0.50

Parameter	MOE Table 2 2011	BH45D							
Screened Interval:		11.40-12.90m							
Date Sampled:		27-Apr-16	12-Oct-16	12-Oct-16	8-May-17	28-Nov-17	26-Apr-18	26-Apr-18	9-Nov-18
1,1-Dichloroethane	5	0.99	0.85	0.7	<0.50	1.14	1.66	1.82	2.06
1,1-Dichloroethylene	14	6.75	5.06	4.63	<0.50	9.85	9.15	10.1	8.69
cis-1,2-Dichloroethylene	17	2590	2260	1870	3090	828	1260	1330	1210
trans-1,2-Dichloroethylene	17	9.95	8	7.77	<0.50	9.92	7.22	7.69	7.58
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<0.50	<0.50	<0.50	<0.50	<0.50	0.6	0.65	0.74
Trichloroethylene	5	44.4	60	52.7	2280	5040	4480	4730	4990
Vinyl Chloride	1.7	46.9	4.54	4.73	<0.50	79.8	14.1	15.2	3.72

Parameter	MOE Table 2 2011	BH43D								
Screened Interval:		7.40-8.90m								
Date Sampled:		27-Apr-16	12-Oct-16	8-May-17	28-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	27-Apr-20
1,1-Dichloroethane	5	0.69	<0.50	0.71	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	14	3.77	2.02	1.77	2.33	0.75	0.92	2.07	1.15	0.72
cis-1,2-Dichloroethylene	17	328	272	270	273	103	131	240	126	125
trans-1,2-Dichloroethylene	17	4.31	2.98	3.22	4.06	1.94	2.36	2.99	1.85	2.41
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	0.72	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	5	1060	391	93.4	273	71.3	113	183	163	54.5
Vinyl Chloride	1.7	40.2	1.06	10.9	16.6	<0.50	2.34	14	<0.50	<0.50

Parameter	MOE Table 2 2011	BH213S
Screened Interval:		1.52-4.57m
Date Sampled:		24-Apr-18
1,1-Dichloroethane	5	2.97
1,1-Dichloroethylene	14	22
cis-1,2-Dichloroethylene	17	1170
trans-1,2-Dichloroethylene	17	17.5
1,1,2-Trichloroethane	5	<0.50
Tetrachloroethylene	17	13.3
Trichloroethylene	5	18300
Vinyl Chloride	1.7	64

Parameter	MOE Table 2 2011	BH212S
Screened Interval:		1.52-4.57m
Date Sampled:		24-Apr-18
1,1-Dichloroethane	5	3.98
1,1-Dichloroethylene	14	37.3
cis-1,2-Dichloroethylene	17	1810
trans-1,2-Dichloroethylene	17	27.2
1,1,2-Trichloroethane	5	2.68
Tetrachloroethylene	17	23.1
Trichloroethylene	5	25600
Vinyl Chloride	1.7	140

Parameter	MOE Table 2 2011	BH211S
Screened Interval:		1.52-4.57m
Date Sampled:		24-Apr-18
1,1-Dichloroethane	5	<0.50
1,1-Dichloroethylene	14	<0.50
cis-1,2-Dichloroethylene	17	<0.50
trans-1,2-Dichloroethylene	17	<0.50
1,1,2-Trichloroethane	5	<0.50
Tetrachloroethylene	17	<0.50
Trichloroethylene	5	18.4
Vinyl Chloride	1.7	<0.50

Parameter	MOE Table 2 2011	RW1						
Screened Interval:		4.88-6.40m						
Date Sampled:		27-Apr-16	12-Oct-16	8-May-17	12-Nov-18	10-Apr-19	7-Nov-19	27-Apr-20
1,1-Dichloroethane	5	2.86	<0.50	<0.50	<0.50	<0.50	<13	0.54
1,1-Dichloroethylene	14	10.6	8.21	4.24	2.35	1.74	<13	5.26
cis-1,2-Dichloroethylene	17	1010	5980	1610	133	695	639	1940
trans-1,2-Dichloroethylene	17	<50	16.1	5.91	1.68	3.95	<13	10.9
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	12.6	<0.50	<0.50	0.98	<0.50	6.7	<0.50
Trichloroethylene	5	10900	22.3	14.5	1090	26.7	6260	281
Vinyl Chloride	1.7	62.3	995	147	15.9	30.9	33	32.1

Parameter	MOE Table 2 2011	BH10S								
Screened Interval:		4.50-6.00m								
Date Sampled:		27-Apr-16	12-Oct-16	8-May-17	27-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	27-Apr-20
1,1-Dichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	14	<0.50	<0.50	0.72	4.33	3.1	0.89	6.18	2.18	4.56
cis-1,2-Dichloroethylene	17	57.8	357	734	1740	1320	363	2430	842	1530
trans-1,2-Dichloroethylene	17	<0.50	<0.50	0.5	2	1.64	0.54	4.69	2.43	10.7
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	5	<0.50	3.12	<2.5	6.4	<5.0	<5.0	<10	<5.0	<5.0
Vinyl Chloride	1.7	0.7	3.01	1.86	5.85	3.01	<20	7.42	25.8	1.04

Parameter	MOE Table 2 2011	BH7S								
Screened Interval:		4.10-5.60m								
Date Sampled:		27-Apr-16	12-Oct-16	8-May-17	27-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	27-Apr-20
1,1-Dichloroethane	5	<10	2.95	0.51	0.94	<0.50	0.58	<0.50	1.09	<250
1,1-Dichloroethylene	14	<10	18	3.3	5.65	2.38	3.01	1.15	6.17	28.3
cis-1,2-Dichloroethylene	17	430	928	252	427	218	272	89.5	348	3050
trans-1,2-Dichloroethylene	17	<10	12.4	3.23	5.24	2.79	3.52	1.66	5.43	23.6
1,1,2-Trichloroethane	5	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<10	46.1	11.3	10.2	3.36	2.57	3.17	8.36	71.9
Trichloroethylene	5	2880	18900	4810	4620	1890	1640	2210	5690	65400
Vinyl Chloride	1.7	<10	80.9	1.73	21.7	<0.50	<10	<0.50	15.9	4.79

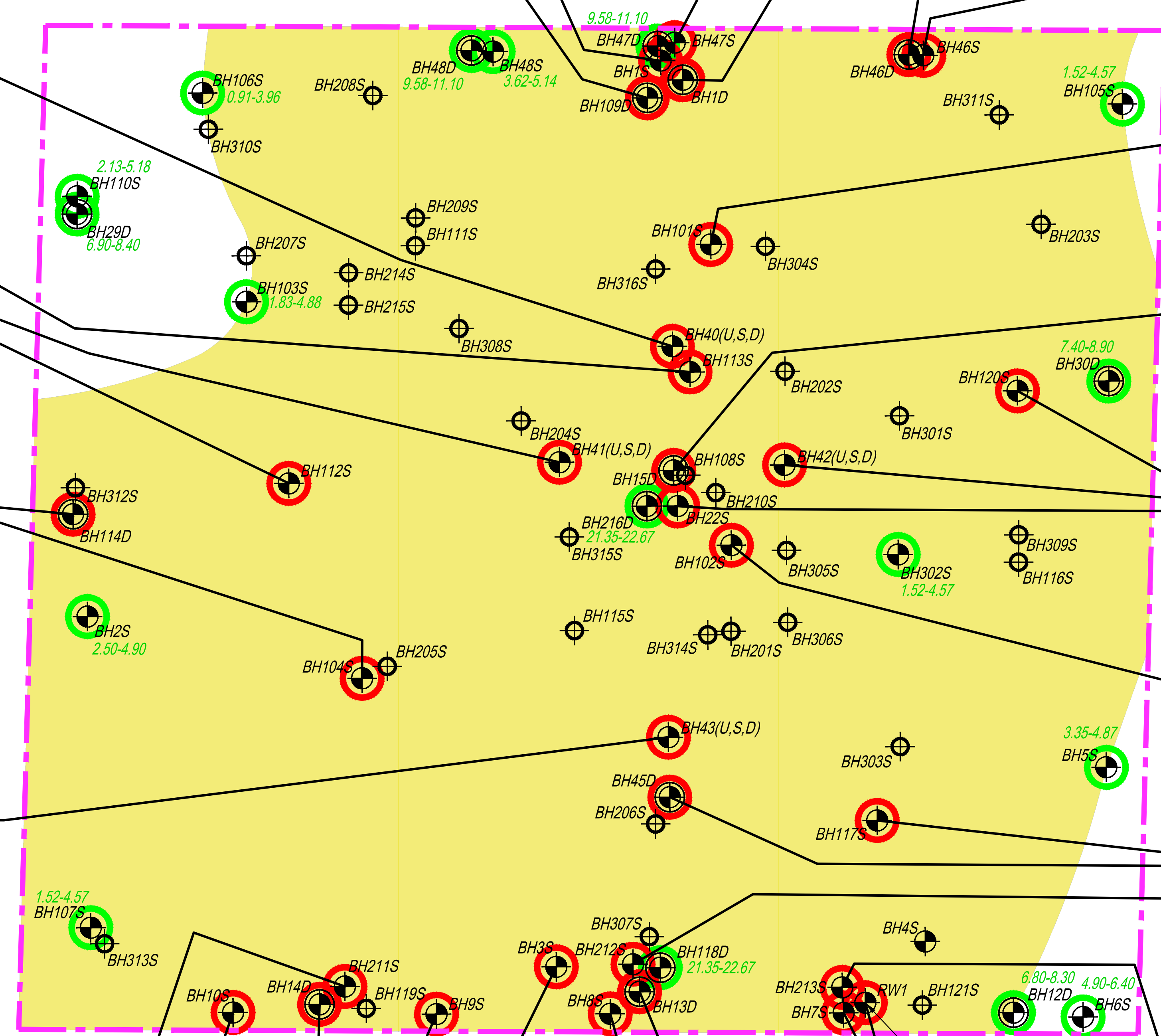
Parameter	MOE Table 2 2011	BH14D									
Screened Interval:		7.23-8.75m									
Date Sampled:		27-Apr-16	12-Oct-16	8-May-17	28-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	27-Apr-20	27-Apr-20
1,1-Dichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	14	3.59	2.9	3.24	5.49	4.43	4.03	3.46	<0.50	3.03	3.1
cis-1,2-Dichloroethylene	17	307	247	289	420	406	586	403	9.04	331	346
trans-1,2-Dichloroethylene	17	<5.0	1.44	2.02	5.02	2.55	9.54	3.31	<0.50	5.38	6.16
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	5	1200	1180	1480	2270	1700	1830	1470	35.9	1090	1050
Vinyl Chloride	1.7	<0.50	0.7	<0.50	17.3	0.86	30	<0.50	<0.50	4.44	4.79

Parameter	MOE Table 2 2011	BH3S				
Screened Interval:		2.13-3.65m				
Date Sampled:		24-Nov-17	26-Apr-18	9-Nov-18	5-Nov-19	27-Apr-20
1,1-Dichloroethane	5	<0.50	<0.50	0.53	<0.50	<0.50
1,1-Dichloroethylene	14	11.9	<0.50	10.5	3.63	0.83
cis-1,2-Dichloroethylene	17	1200	137	1650	936	401
trans-1,2-Dichloroethylene	17	10.7	1.89	16.2	9.03	5.35
1,1,2-Trichloroethane	5	2.41	0.81	<0.50	1.11	0.87
Tetrachloroethylene	17	1.6	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	5	8850	976	370	1710	2700
Vinyl Chloride	1.7	23.6	<0.50	44.7	0.82	<0.50

Parameter	MOE Table 2 2011	BH13D								
Screened Interval:		6.83-8.35m								
Date Sampled:		27-Apr-16	12-Oct-16	8-May-17	28-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	27-Apr-20
1,1-Dichloroethane	5	<0.50	<0.50	<0.50	3.04	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	14	<0.50	<0.50	0.68	22.5	1.3	2.74	<2.5	1.8	2.36
cis-1,2-Dichloroethylene	17	87.8	78.6	186	1270	139	525	350	350	866
trans-1,2-Dichloroethylene	17	0.55	<0.50	1.18	14.6	1.07	4.35	4.9	2.17	14.5
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	0.64	0.6	<0.50	0.54
Tetrachloroethylene	17	<0.50	<0.50	<0.50	3.08	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	5	146	97	339	15400	901	2350	574	1100	676
Vinyl Chloride	1.7	<0.50	<0.50	<0.50	283	<0.50	<13	<0.50	<0.50	0.71

Parameter	MOE Table 2 2011	BH9S									
Screened Interval:		4.30-5.80m									
Date Sampled:		27-Apr-16	12-Oct-16	8-May-17	27-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	5-Nov-19	27-Apr-20
1,1-Dichloroethane	5	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	14	5.6	3.42	1.64	1.97	2.99	4.42	2.73	4.28	4.6	1.81
cis-1,2-Dichloroethylene	17	318	228	110	76.3	93.5	1010	113	852	818	134
trans-1,2-Dichloroethylene	17	<5.0	2.11	1.45	1.72	1.52	8	2.27	5.25	5.5	2.44
1,1,2-Trichloroethane	5	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	17	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	5	801	790	920	1270	1210	34.3	1140	90.7	65.7	912
Vinyl Chloride	1.7	<5.0	<0.50	0.71	5.32	0.69	6.6	<0.50	18.9	19.7	<0.50

Parameter	MOE Table 2 2011	BH8S									
Screened Interval:		4.58-6.10m									
Date Sampled:		27-Apr-16	12-Oct-16	8-May-17	27-Nov-17	27-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	27-Apr-20
1,1-Dichloroethane	5	5.85	6.25	5.43	6.53	6.51	5.97	6.2	4.67	5.05	<250
1,1-Dichloroethylene	14	41.5	51.1	63.4	55.4	53.6	78.9	92.5	89.9	119	80.9
cis-1,2-Dichloroethylene	17	3850	2920	6050	7180	6850	4300	6560	4280	6120	6470
trans-1,2-Dichloroethylene	17	25.7	22.6	43.9	48.7	44.4	38.6	55.6	36.2	56.1	50.8
1,1,2-Trichloroethane	5	<0.50	<0.50	<0.50	<0.50	<0.50	1.72	2.32	2.96	3.15	2.46
Tetrachloroethylene	17	<0.50	<0.50	0.79	<0.50	<0.50	1.12	1.46	1.56	1.73	1.64
Trichloroethylene	5	21200	21100	29000	25500	25000	36300	52600	66200	59000	54500
Vinyl Chloride	1.7	3.99	115	223	415	376	9.58	<250	3.76	136	11.9



NORTH

PROJECT NORTH

LEGEND

- Property Boundary
- Borehole
- Overburden Monitoring Well
- Bedrock Monitoring Well
- Analytical Results Below MOE Table 2 RPI Standards in Groundwater
- Analytical Results Above MOE Table 2 RPI Standards in Groundwater
- 3.62-5.14 Well Screen Interval (metres below ground surface)
- Analyzed value exceeds the MOE 2011 Table 2 Standards, Residential Property Use, Med/Fine Textured Soil (ug/L)
- Laboratory Method Detection Limit exceeds the MOE 2011 Table 2 Standards, Residential Property Use, Med/Fine Textured Soil (ug/L)

0 5 10 15 20 25m

Scale(17x22): 1:500

MTE

Engineers, Scientists, Surveyors

Ph. (905) 639-2552

CLIENT

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PROJECT

Phase Two Environmental Site Assessment

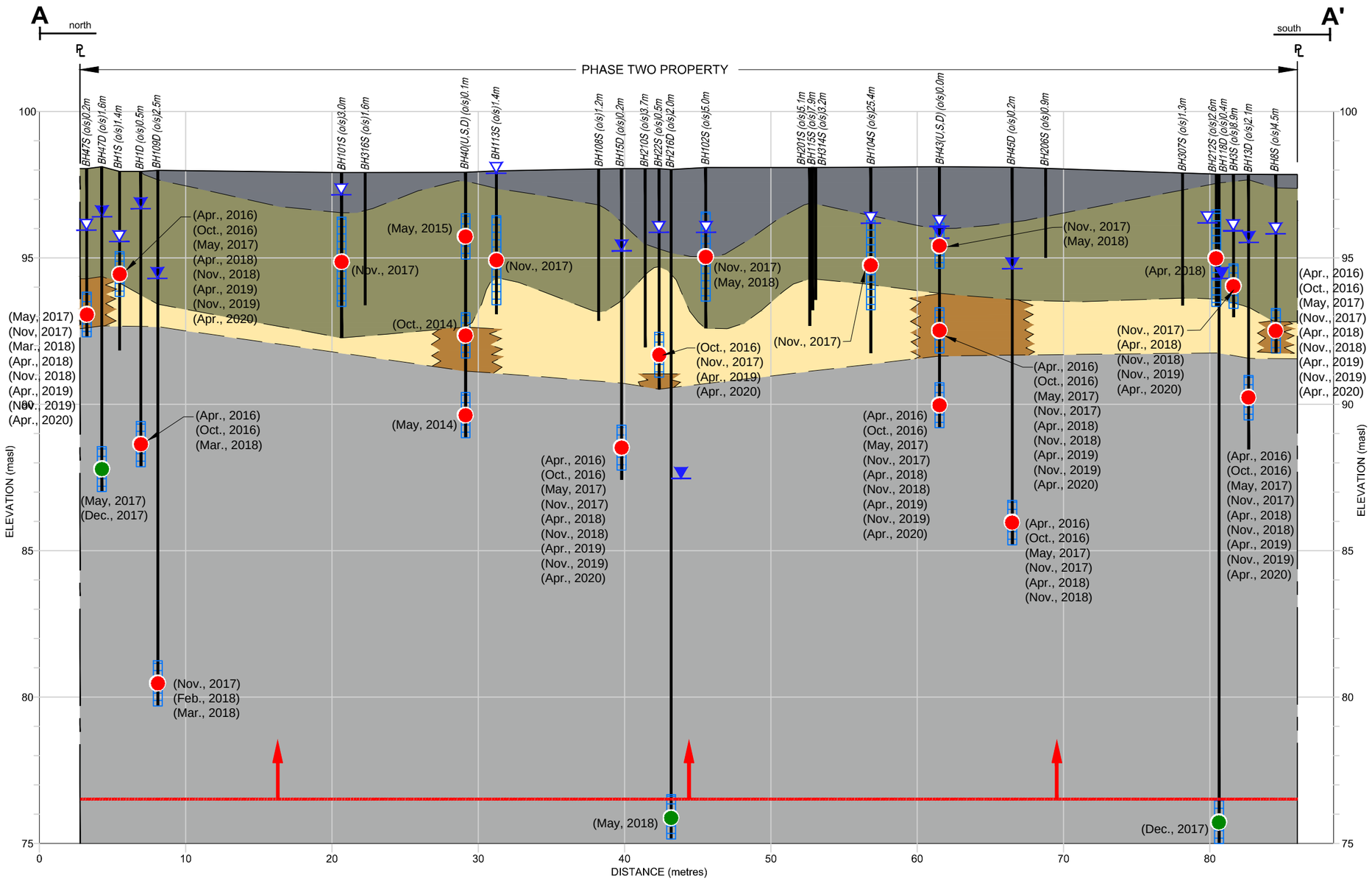
SITE

2362 Fairview Street Burlington, Ontario

TITLE

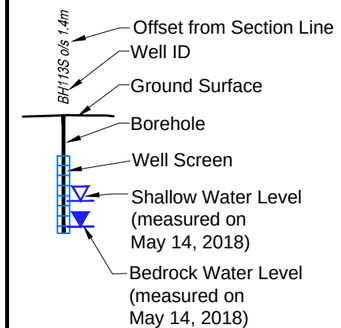
VOCs IN GROUNDWATER PLAN VIEW

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934–100
Drawn By	TXS	Figure No.	12a
Date	June 2020		



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Groundwater
- Analytical Results Above MOE Table 2 RPI Standards in Groundwater
- (Nov., 2017) Sampling Date
- Inferred Extent



Scale(11x17): As Noted

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Ph. (905) 639-2552

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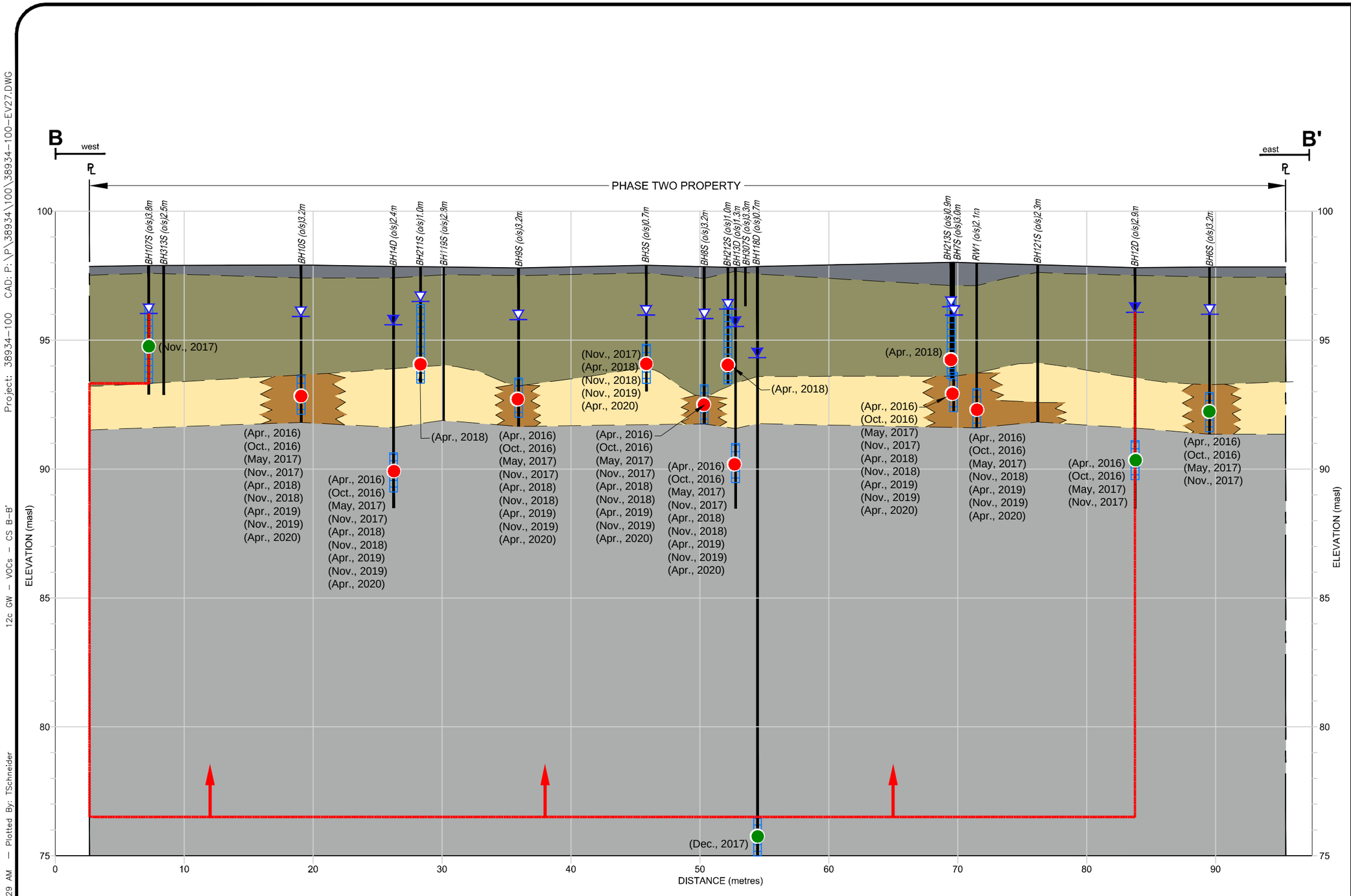
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
VOCs IN GROUNDWATER
CROSS-SECTION A-A'

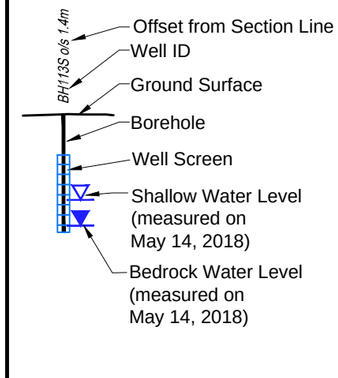
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934–100
Drawn By	TXS	Figure No.	12b
Date	June 2020		

June 11, 2020 — 11:29 AM — Plotted By: TSchneider
12b GW – VOCs – CS A–A' — Project: 38934–100 CAD: P:\P\38934\100\38934–100–EV27.DWG



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Groundwater
- Analytical Results Above MOE Table 2 RPI Standards in Groundwater
- (Nov., 2017) Sampling Date
- Inferred Extent



Scale(11x17): As Noted

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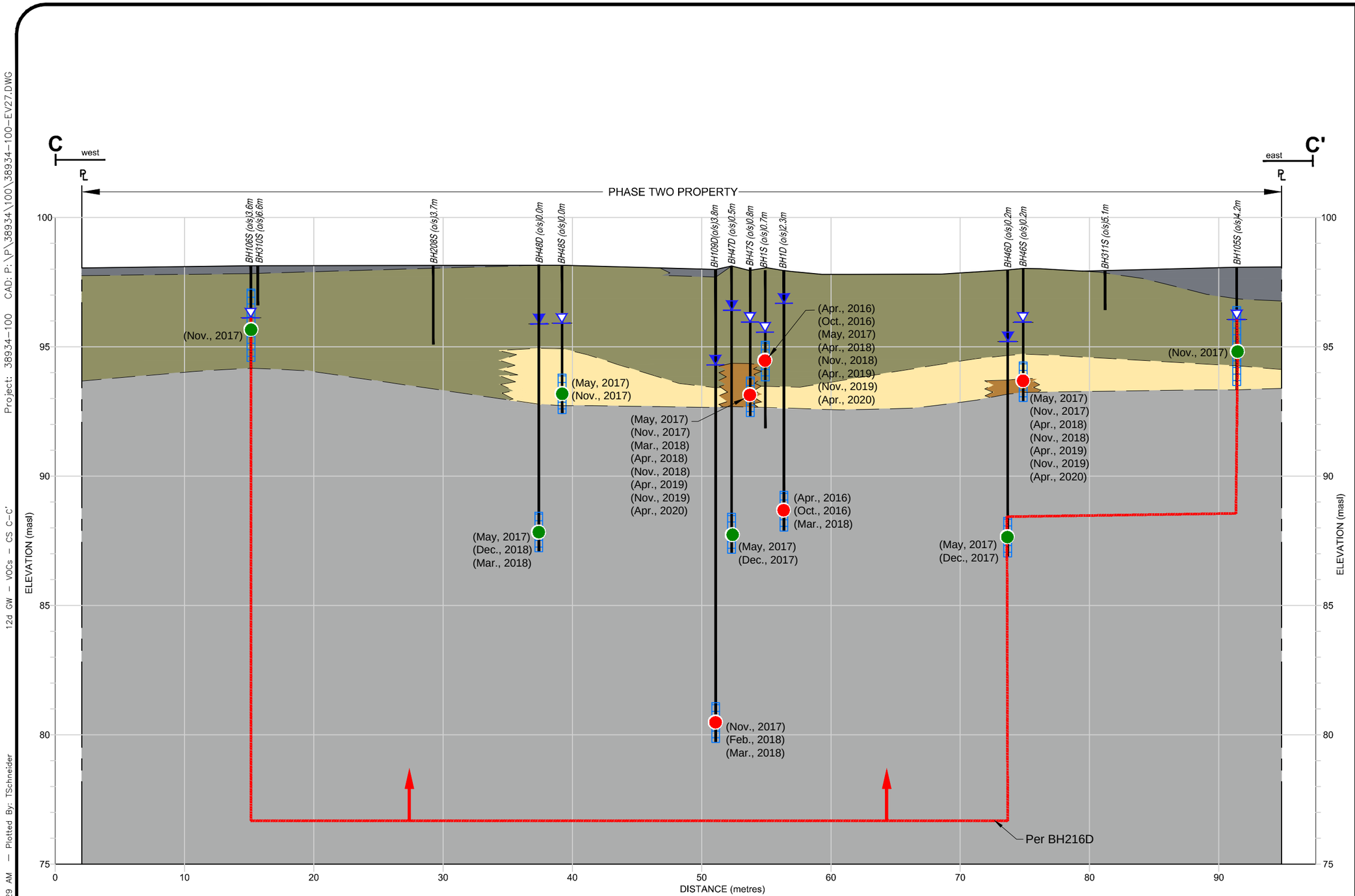
PROJECT
Phase Two
Environmental Site Assessment

SITE
2362 Fairview Street
Burlington, Ontario

TITLE
VOCs IN GROUNDWATER
CROSS-SECTION A-A'

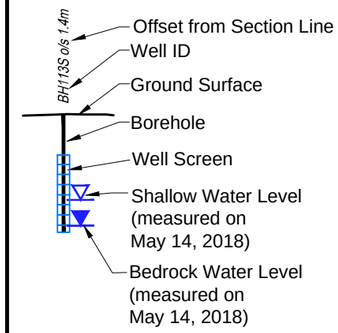
Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934–100
Drawn By	TXS	Figure No.	12c
Date	June 2020		

Project: 38934–100 CAD: P:\38934\100\38934–100–EV27.DWG
12c GW – VOCs – CS A–A' – CS B–B'
June 11, 2020 – 11:29 AM – Plotted By: TSchneider



LEGEND

- Sand and Gravel Fill
- Silty Clay Till
- Silty Sand
- Sand and Gravel
- Shale
- Analytical Results Below MOE Table 2 RPI Standards in Groundwater
- Analytical Results Above MOE Table 2 RPI Standards in Groundwater
- (Nov., 2017) Sampling Date
- Inferred Extent



Scale(11x17): As Noted

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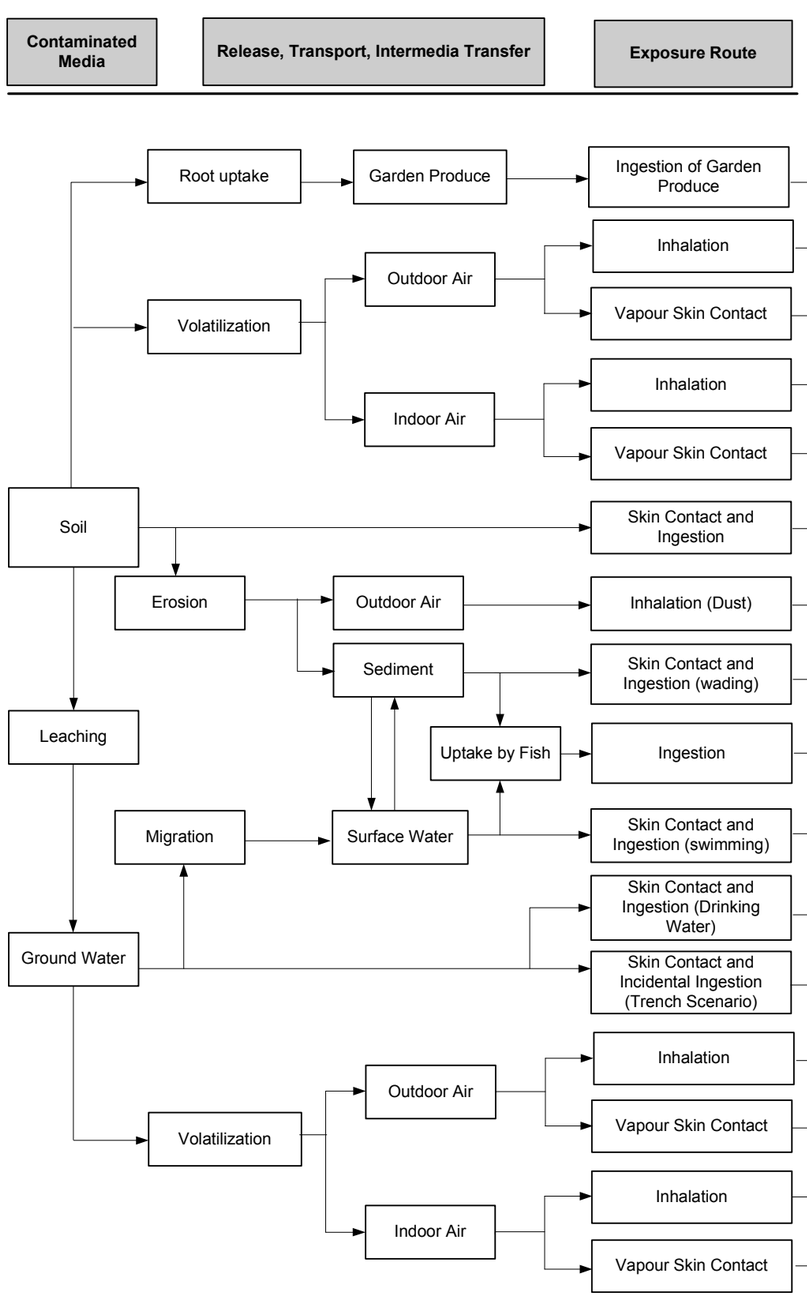
SITE
2362 Fairview Street
Burlington, Ontario

TITLE
VOCs IN GROUNDWATER
CROSS-SECTION A-A'

Reviewed By	TJJ		
Prepared By	SBD	Project No.	38934–100
Drawn By	TXS	Figure No.	12d
Date	June 2020		

Project: 38934–100 CAD: P:\P\38934\100\38934–100–EV27.DWG
12d GW – VOCs – CS C–C'
June 11, 2020 – 11:29 AM – Plotted By: TSchneider

FIGURE 13: HUMAN HEALTH CONCEPTUAL SITE MODEL (CSM) – 2362 FAIRVIEW STREET, BURLINGTON, ONTARIO
WITHOUT RISK MANAGEMENT MEASURES



Potential Receptors (On-Site)				Potential Receptors (Off-Site)				
Construction/ Utility Worker[1]	Landscape Worker	Long-Term Worker (Indoors)	Resident[2]	Construction/ Utility Worker[1]	Landscape Worker	Long-Term Worker (Indoors)	Recreational Site Visitor	Resident[2]
I	I	I	✓	I	I	I	I	MIN
✓	✓	NA	✓	I	I	NA	I	I
MIN	MIN	NA	MIN	I	I	NA	I	I
NA	NA	✓	✓	NA	NA	I	NA	I
NA	NA	MIN	MIN	NA	NA	I	NA	I
✓	✓	NA	✓	I	I	NA	I	I
✓	MIN	NA	MIN	MIN	MIN	NA	MIN	MIN
NA	NA	NA	NA	NA	NA	NA	MIN	NA
NA	NA	NA	NA	NA	NA	NA	MIN	NA
NA	NA	NA	NA	NA	NA	NA	MIN	NA
I	I	✓	✓	I	I	✓	I	✓
✓	NA	NA	NA	✓	NA	NA	NA	NA
✓	✓	NA	✓	✓	✓	NA	✓	✓
MIN	MIN	NA	MIN	MIN	MIN	NA	MIN	MIN
NA	NA	✓	✓	NA	NA	✓	NA	✓
NA	NA	MIN	MIN	NA	NA	MIN	NA	MIN

Legend

✓ Pathway considered complete

I Pathway considered incomplete

NA Pathway is not applicable for this receptor

MIN Pathway considered minimal in comparison to other major pathways (quantitatively evaluated).

[1] Construction workers are considered to be protective of utility workers on-Site.

[2] Residents are considered to be protective of indoor workers, landscape workers, Site visitors and trespassers.

MTE

MTE File No.: 38934-100
Date: June, 2020

FIGURE 14: TERRESTRIAL AND AQUATIC ECOLOGICAL CONCEPTUAL SITE MODEL (CSM) – 2362 FAIRVIEW STREET, BURLINGTON, ONTARIO
WITHOUT RISK MANAGEMENT MEASURES

Contaminated Media	Release, Transport, Intermedia Transfer	Exposure Route	Potential Receptors (On-Site)					Potential Receptors (Off-Site)				
			Terrestrial Plants	Soil Invertebrates	Terrestrial Mammals[1]	Terrestrial Birds[1]	Aquatic Plants and Animals	Terrestrial Plants	Soil Invertebrates	Terrestrial Mammals[1]	Terrestrial Birds[1]	Aquatic Plants and Animals
SOIL	Uptake and Accumulation by Flora and Fauna	Ingestion of Vegetation and Prey	NA	MIN	✓	✓	NA	NA	NA	I	I	NA
	Volatilization → Outdoor Air	Inhalation/Plant Uptake	MIN	NA	MIN	MIN	NA	I	NA	I	I	NA
	Volatilization → Soil Vapour	Inhalation	NA	MIN	MIN	NA	NA	NA	I	I	NA	NA
		Ingestion	NA	✓	✓	✓	NA	NA	I	I	I	NA
		Dermal/Root Contact	✓	✓	MIN	MIN	NA	I	I	I	I	NA
Leaching → GROUND WATER	Erosion → Outdoor Air	Inhalation (Dust)/Foliar Deposition	MIN	NA	MIN	MIN	NA	MIN	NA	MIN	MIN	NA
	Erosion → Sediment	Direct Contact (Dermal/ PlantUptake/Ingestion)	NA	NA	NA	NA	NA	NA	NA	I	I	I
	Migration → Surface Water	Direct Contact (Dermal/ Root Contact and Ingestion)	NA	NA	NA	NA	NA	NA	NA	✓	✓	✓
	Migration → Surface Water → Uptake and Accumulation by Flora and Fauna	Ingestion of Vegetation and Prey	NA	NA	NA	NA	NA	NA	NA	✓	✓	✓
		Direct Contact (Dermal/ Root Contact and Ingestion)	✓	MIN	MIN	MIN	NA	✓	MIN	MIN	MIN	NA
	Uptake and Accumulation by Flora and Fauna	Ingestion of Vegetation and Prey	NA	MIN	✓	✓	NA	NA	MIN	✓	✓	NA
	Volatilization → Outdoor Air	Inhalation/Plant Uptake	MIN	NA	MIN	MIN	NA	MIN	NA	MIN	MIN	NA
	Volatilization → Soil Vapour	Inhalation	NA	MIN	MIN	NA	NA	NA	MIN	MIN	NA	NA

Legend

- ✓ Pathway considered complete
- I Pathway considered incomplete
- NA Pathway is not applicable for this receptor
- MIN Pathway is considered minimal in comparison to other major pathways (qualitatively evaluated)

1. Similar pathways would be complete/incomplete for terrestrial reptiles and amphibians as for terrestrial mammals and birds. Refer to RA Section 5.5.3 for further evaluation.

MTE File No.: 38934-100
Date: June, 2020

MTE

Tables

Table 1: Monitoring Well Construction Details

Well ID	Completed By	Ground Surface Elevation (m)	Top of Pipe Elevation (m)	Well Depth (mbgs)	Screen Length (m)	Well Construction Details								Type of Casing
						Depth of Screen (m)		Sand Pack (m)		Bentonite (m)		Grout (m)		
						Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	
BH1S	Golder	98.07	98.74	4.27	1.52	2.75	4.27	2.75	4.27	0.00	2.75	NA	NA	Monument Steel Casing
BH1D	Golder	97.95	98.73	10.06	1.52	8.54	10.06	8.54	10.06	0.00	8.54	NA	NA	Monument Steel Casing
BH2S	Golder	98.06	98.94	4.87	1.52	3.35	4.87	3.35	4.87	0.00	3.35	NA	NA	Flushmount Steel Casing
BH3S	Golder	97.90	98.02	3.65	1.52	2.13	3.65	2.13	3.65	0.00	2.13	NA	NA	Exposed PVC Riser
BH4S	Golder	97.74	97.79	4.57	1.52	3.05	4.57	3.05	4.57	0.00	3.05	NA	NA	Exposed PVC Riser
BH5S	Golder	97.89	97.92	4.87	1.52	3.35	4.87	3.35	4.87	0.00	3.35	NA	NA	Flushmount Steel Casing
BH6S	Golder	97.84	98.80	6.40	1.52	4.88	6.40	3.90	6.40	0.30	3.90	NA	NA	Exposed PVC Riser
BH7S	Golder	98.02	98.90	5.79	1.52	4.27	5.79	3.50	5.79	0.30	3.50	NA	NA	Exposed PVC Riser
BH8S	Golder	97.85	98.81	6.10	1.52	4.58	6.10	4.00	6.10	0.30	4.00	NA	NA	Exposed PVC Riser
BH9S	Golder	97.80	98.82	5.79	1.52	4.27	5.79	3.75	5.79	0.30	3.75	NA	NA	Exposed PVC Riser
BH10S	Golder	97.91	98.65	5.79	1.52	4.27	5.79	3.75	5.79	0.30	3.75	NA	NA	Exposed PVC Riser
BH12D	Golder	97.81	98.82	8.23	1.52	6.71	8.23	6.60	8.23	6.29	6.60	0.00	6.29	Exposed PVC Riser
RW1	Golder	-	-	6.40	1.52	4.88	6.40	3.65	6.40	0.30	3.65	NA	NA	Flushmount Steel Casing
BH13D	AB	97.82	99.00	8.35	1.52	6.83	8.35	6.53	8.35	0.30	6.53	NA	NA	Monument Steel Casing
BH14D	AB	97.86	98.80	8.75	1.52	7.23	8.75	6.95	8.75	0.30	6.95	NA	NA	Monument Steel Casing
BH15D	AB	98.05	98.67	10.30	1.52	8.78	10.30	8.00	10.30	0.30	8.00	NA	NA	Monument Steel Casing
BH22S	AB	98.05	99.00	7.13	1.52	5.61	7.13	5.43	7.13	0.30	5.43	NA	NA	Monument Steel Casing
BH29D	AB	98.25	99.17	8.38	1.52	6.86	8.38	6.58	8.38	0.30	6.58	NA	NA	Monument Steel Casing
BH30D	AB	98.07	99.11	8.92	1.52	7.40	8.92	7.12	8.92	0.30	7.12	NA	NA	Monument Steel Casing
BH40U	AB	97.96	98.77	2.97	1.52	1.45	2.97	1.11	2.97	0.30	1.11	NA	NA	Monument Steel Casing
BH40S	AB	97.96	98.88	6.35	1.52	4.83	6.35	4.42	6.35	0.30	4.42	NA	NA	Monument Steel Casing
BH40D	AB	97.96	98.87	9.07	1.52	7.55	9.07	7.26	9.07	0.30	7.26	NA	NA	Monument Steel Casing
BH41U	AB	98.04	99.09	2.60	1.52	1.08	2.60	0.79	2.60	0.30	0.79	NA	NA	Monument Steel Casing
BH41S	AB	98.04	98.95	6.53	1.52	5.01	6.53	4.68	6.53	0.30	4.68	NA	NA	Monument Steel Casing
BH41D	AB	98.04	98.89	9.53	1.52	8.01	9.53	7.72	9.53	0.30	7.72	NA	NA	Monument Steel Casing
BH42U	AB	98.07	97.98	2.74	1.52	1.22	2.74	1.34	2.74	0.30	1.34	NA	NA	Flushmount Steel Casing
BH42S	AB	98.07	97.95	5.49	1.52	3.97	5.49	4.54	5.49	0.30	4.54	NA	NA	Flushmount Steel Casing
BH42D	AB	98.07	97.97	9.42	1.52	7.90	9.42	7.12	9.42	0.30	7.12	NA	NA	Flushmount Steel Casing
BH43U	AB	98.12	98.62	3.47	1.52	1.95	3.47	1.22	3.47	0.30	1.22	NA	NA	Monument Steel Casing
BH43S	AB	98.12	98.60	6.37	1.52	4.85	6.37	4.26	6.37	0.30	4.26	NA	NA	Monument Steel Casing
BH43D	AB	98.12	98.62	8.92	1.52	7.40	8.92	7.11	8.92	0.30	7.11	NA	NA	Monument Steel Casing
BH45D	AB	98.10	99.05	12.90	1.52	11.38	12.90	11.10	12.90	0.30	11.10	NA	NA	Monument Steel Casing
BH46S	AB	98.03	98.94	5.14	1.52	3.62	5.14	3.64	5.14	0.30	3.64	NA	NA	Monument Steel Casing
BH46D	AB	97.97	98.94	11.10	1.52	9.58	11.10	9.60	11.10	0.30	9.60	NA	NA	Monument Steel Casing
BH47S	AB	98.05	99.02	5.74	1.52	4.22	5.74	4.24	5.74	0.30	4.24	NA	NA	Monument Steel Casing
BH47D	AB	98.12	99.06	11.10	1.52	9.58	11.10	9.60	11.10	0.30	9.60	NA	NA	Monument Steel Casing
BH48S	AB	98.15	99.21	5.74	1.52	4.22	5.74	4.24	5.74	0.30	4.24	NA	NA	Monument Steel Casing
BH48D	AB	98.17	99.06	11.10	1.52	9.58	11.10	9.60	11.10	0.30	9.60	NA	NA	Monument Steel Casing
BH101S	MTE	97.92	98.51	4.57	3.05	1.52	4.57	1.52	4.57	0.30	1.52	NA	NA	Monument Steel Casing
BH102S	MTE	98.09	98.95	4.57	3.05	1.52	4.57	1.52	4.57	0.30	1.52	NA	NA	Monument Steel Casing
BH103S	MTE	98.10	99.10	4.88	3.05	1.83	4.88	1.83	4.88	0.30	1.83	NA	NA	Monument Steel Casing
BH104S	MTE	97.98	98.68	4.88	3.05	1.83	4.88	1.83	4.88	0.30	1.83	NA	NA	Monument Steel Casing
BH105S	MTE	98.07	98.91	4.57	3.05	1.52	4.57	1.52	4.57	0.30	1.52	NA	NA	Monument Steel Casing
BH106S	MTE	98.13	98.84	3.96	3.05	0.91	3.96	0.91	3.96	0.30	0.91	NA	NA	Monument Steel Casing
BH107S	MTE	97.89	98.78	4.57	3.05	1.52	4.57	1.52	4.57	0.30	1.52	NA	NA	Monument Steel Casing
BH109D	MTE	97.99	98.74	18.29	1.52	16.77	18.29	16.77	18.29	15.25	16.77	0.30	15.25	Monument Steel Casing
BH110S	MTE	98.26	99.11	5.18	3.05	2.13	5.18	2.13	5.18	0.30	2.13	NA	NA	Monument Steel Casing
BH112S	MTE	98.00	98.70	4.57	3.05	1.52	4.57	1.52	4.57	0.30	1.52	NA	NA	Monument Steel Casing
BH113S	MTE	97.97	98.83	4.57	3.05	1.52	4.57	1.52	4.57	0.30	1.52	NA	NA	Monument Steel Casing
BH114D	MTE	98.07	98.94	9.15	1.52	7.63	9.15	7.63	9.15	6.11	7.63	0.30	6.11	Monument Steel Casing
BH117S	MTE	98.00	98.80	4.57	3.05	1.52	4.57	1.52	4.57	0.30	1.52	NA	NA	Monument Steel Casing
BH118D	MTE	97.86	98.78	22.87	1.52	21.35	22.87	21.35	22.87	19.83	21.35	0.30	19.83	Monument Steel Casing
BH120S	MTE	98.04	98.78	4.57	3.05	1.52	4.57	1.52	4.57	0.30	1.52	NA	NA	Monument Steel Casing
BH211S	MTE	97.88	98.68	4.57	3.05	1.52	4.57	1.52	4.57	0.30	1.52	NA	NA	Monument Steel Casing
BH212S	MTE	97.92	98.68	4.57	3.05	1.52	4.57	1.52	4.57	0.30	1.52	NA	NA	Monument Steel Casing
BH213S	MTE	97.91	98.71	4.57	3.05	1.52	4.57	1.52	4.57	0.30	1.52	NA	NA	Monument Steel Casing
BH216D	MTE	98.02	98.88	22.87	1.52	21.35	22.87	21.35	22.87	19.83	21.35	0.30	19.83	Monument Steel Casing
BH302S	MTE	98.05	98.93	4.57	3.05	1.52	4.57	1.52	4.57	0.30	1.52	NA	NA	Monument Steel Casing

Notes:
Date of elevation survey: December 11, 2017

Table 2: Summary of Groundwater Elevations

Well ID	Top of Pipe Elevation (m)	1-Nov-17			28-Nov-17			11-Dec-17			8-Feb-18			25-Apr-18			14-May-18			5-Mar-20		
		Water Level (mbtop)	Water Level (mbgs)	Elevation (masl)	Water Level (mbtop)	Water Level (mbgs)	Elevation (masl)	Water Level (mbtop)	Water Level (mbgs)	Elevation (masl)	Water Level (mbtop)	Water Level (mbgs)	Elevation (masl)	Water Level (mbtop)	Water Level (mbgs)	Elevation (masl)	Water Level (mbtop)	Water Level (mbgs)	Elevation (masl)	Water Level (mbtop)	Water Level (mbgs)	Elevation (masl)
BH1S	98.74	3.49	2.82	95.25	3.15	2.48	95.59	F	F	F	3.18	2.51	95.56	2.51	1.84	96.23	3.11	2.44	95.63	-	-	-
BH1D	98.73	3.25	2.47	95.48	3.09	2.31	95.64	F	F	F	3.05	2.27	95.68	2.93	2.15	95.80	3.15	2.37	95.58	-	-	-
BH2S	98.94	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	-	-	-
BH3S	98.02	2.55	2.43	95.47	2.19	2.07	95.83	2.25	2.13	95.77	2.05	1.93	95.97	1.74	1.62	96.28	2.01	1.89	96.01	-	-	-
BH4S	97.79	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	-	-	-
BH5S	97.92	NF	NF	NF	2.05	2.02	95.87	1.98	1.95	95.94	NF	NF	NF	NF	NF	NF	NF	NF	NF	-	-	-
BH6S	98.80	3.21	2.25	95.59	2.88	1.92	95.92	2.94	1.98	95.86	2.80	1.84	96.00	2.48	1.52	96.32	2.68	1.72	96.12	-	-	-
BH7S	98.90	3.33	2.45	95.57	2.98	2.10	95.92	3.05	2.17	95.85	2.93	2.05	95.97	2.60	1.72	96.30	2.80	1.92	96.10	-	-	-
BH8S	98.81	3.37	2.41	95.44	3.02	2.06	95.79	3.08	2.12	95.73	2.98	2.02	95.83	2.60	1.64	96.21	2.82	1.86	95.99	-	-	-
BH9S	98.82	3.43	2.41	95.39	3.07	2.05	95.75	3.14	2.12	95.68	3.03	2.01	95.79	2.66	1.64	96.16	2.88	1.86	95.94	-	-	-
BH10S	98.65	3.25	2.51	95.40	2.84	2.10	95.81	2.92	2.18	95.73	2.73	1.99	95.92	2.38	1.64	96.27	2.62	1.88	96.03	-	-	-
BH12D	98.82	3.28	2.27	95.54	2.96	1.95	95.86	3.01	2.00	95.81	2.74	1.73	96.08	2.55	1.54	96.27	2.75	1.74	96.07	-	-	-
BH13D	99.00	3.61	2.43	95.39	3.43	2.25	95.57	3.45	2.27	95.55	3.47	2.29	95.53	3.02	1.84	95.98	3.26	2.08	95.74	-	-	-
BH14D	98.80	3.43	2.49	95.37	3.50	2.56	95.30	3.41	2.47	95.39	3.21	2.27	95.59	2.88	1.94	95.92	3.01	2.07	95.79	-	-	-
BH15D	98.67	3.58	2.96	95.09	3.46	2.84	95.21	3.45	2.83	95.22	3.43	2.81	95.24	3.17	2.55	95.50	3.47	2.85	95.20	-	-	-
BH22S	99.00	2.95	2.00	96.05	3.15	2.20	95.85	3.19	2.24	95.81	3.13	2.18	95.87	2.98	2.03	96.02	3.23	2.28	95.77	-	-	-
BH29D	99.17	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	-	-	-
BH30D	99.11	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	-	-	-
BH40U	98.77	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	-	-	-
BH40S	98.88	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	-	-	-
BH40D	98.87	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	-	-	-
BH41U	99.09	1.86	0.81	97.23	2.87	1.82	96.22	2.48	1.43	96.61	1.93	0.88	97.16	1.51	0.46	97.58	1.56	0.51	97.53	-	-	-
BH41S	98.95	3.74	2.83	95.21	3.53	2.62	95.42	3.56	2.65	95.39	3.46	2.55	95.49	3.03	2.12	95.92	3.42	2.51	95.53	-	-	-
BH41D	98.89	3.72	2.87	95.17	3.59	2.74	95.30	3.61	2.76	95.28	3.52	2.67	95.37	1.09	0.24	97.80	B	B	B	-	-	-
BH42U	97.98	0.76	0.85	97.22	0.58	0.67	97.40	0.62	0.71	97.36	0.78	0.69	97.20	0.91	1.00	97.07	0.68	0.77	97.30	-	-	-
BH42S	97.95	2.04	2.16	95.91	1.63	1.75	96.32	1.66	1.78	96.29	1.67	1.79	96.28	1.25	1.37	96.70	1.57	1.69	96.38	-	-	-
BH42D	97.97	2.88	2.98	95.09	2.74	2.84	95.23	2.74	2.84	95.23	2.72	2.82	95.25	2.86	2.96	95.11	2.73	2.83	95.24	-	-	-
BH43U	98.62	2.77	2.27	95.85	2.46	1.96	96.16	2.56	2.06	96.06	2.54	2.04	96.08	2.11	1.61	96.51	2.35	1.85	96.27	-	-	-
BH43S	98.60	3.17	2.69	95.43	2.95	2.47	95.65	2.97	2.49	95.63	2.93	2.45	95.67	2.68	2.20	95.92	2.92	2.44	95.68	-	-	-
BH43D	98.62	2.94	2.44	95.68	2.60	2.10	96.02	2.65	2.15	95.97	2.60	2.10	96.02	2.25	1.75	96.37	2.45	1.95	96.17	-	-	-
BH45D	99.05	4.40	3.45	94.65	4.44	3.49	94.61	4.42	3.47	94.63	4.40	3.45	94.65	4.18	3.23	94.87	4.50	3.55	94.55	-	-	-
BH46S	98.94	3.19	2.28	95.75	2.91	2.00	96.03	3.01	2.10	95.93	3.00	2.09	95.94	2.72	1.81	96.22	2.86	1.95	96.08	-	-	-
BH46D	98.94	3.88	2.91	95.06	3.78	2.81	95.16	3.75	2.78	95.19	3.74	2.77	95.20	3.54	2.57	95.40	3.65	2.68	95.29	-	-	-
BH47S	99.02	3.36	2.39	95.66	3.04	2.07	95.98	3.12	2.15	95.90	3.07	2.10	95.95	2.80	1.83	96.22	3.00	2.03	96.02	-	-	-
BH47D	99.06	3.38	2.44	95.68	3.10	2.16	95.96	3.13	2.19	95.93	2.65	1.71	96.41	2.85	1.91	96.21	3.03	2.09	96.03	-	-	-
BH48S	99.21	3.58	2.52	95.63	3.29	2.23	95.92	3.36	2.30	95.85	3.30	2.24	95.91	3.00	1.94	96.21	3.22	2.16	95.99	-	-	-
BH48D	99.06	3.45	2.56	95.61	3.18	2.29	95.88	3.44	2.55	95.62	3.18	2.29	95.88	3.30	2.41	95.76	3.48	2.59	95.58	-	-	-
BH101S	98.51	NI	NI	NI	1.15	0.56	97.36	1.22	0.63	97.29	1.35	0.76	97.16	0.77	0.18	97.74	1.25	0.66	97.26	-	-	-
BH102S	98.95	NI	NI	NI	2.51	1.65	96.44	2.58	1.72	96.37	2.58	1.72	96.37	2.08	1.22	96.87	2.96	2.10	95.99	-	-	-
BH103S	99.10	NI	NI	NI	2.97	1.97	96.13	3.05	2.05	96.05	2.97	1.97	96.13	2.52	1.52	96.58	2.78	1.78	96.32	-	-	-
BH104S	98.68	NI	NI	NI	2.66	1.96	96.02	2.73	2.03	95.95	2.66	1.96	96.02	2.22	1.52	96.46	2.48	1.78	96.20	-	-	-
BH105S	98.91	NI	NI	NI	2.28	1.44	96.63	2.52	1.68	96.39	2.86	2.02	96.05	1.82	0.98	97.09	2.28	1.44	96.63	-	-	-
BH106S	98.84	NI	NI	NI	2.78	2.07	96.06	2.85	2.14	95.99	2.72	2.01	96.12	2.27	1.56	96.57	2.46	1.75	96.38	-	-	-
BH107S	98.78	NI	NI	NI	2.79	1.90	95.99	2.86	1.97	95.92	2.75	1.86	96.03	2.33	1.44	96.45	2.55	1.66	96.23	-	-	-
BH109D	98.74	NI	NI	NI	4.55	3.80	94.19	4.51	3.76	94.23	4.44	3.69	94.30	3.51*	3.55	94.44	3.84*	3.88	94.11	-	-	-
BH110S	99.11	NI	NI	NI	3.06	2.21	96.05	3.15	2.30	95.96	3.04	2.19	96.07	2.62	1.77	96.49	2.84	1.99	96.27	-	-	-
BH112S	98.70	NI	NI	NI	2.61	1.91	96.09	2.66	1.96	96.04	2.59	1.89	96.11	2.13	1.43	96.57	2.37	1.67	96.33	-	-	-
BH113S	98.83	NI	NI	NI	1.33	0.47	97.50	1.42	0.56	97.41	0.94	0.08	97.89	0.99	0.13	97.84	1.48	0.62	97.35	-	-	-
BH114D	98.94	NI	NI	NI	3.18	2.31	95.76	3.20	2.33	95.74	3.15	2.28	95.79	2.92	2.05	96.02	3.11	2.24	95.83	-	-	-
BH117S	98.80	NI	NI	NI	2.89	2.09	95.91	2.94	2.14	95.86	2.86	2.06	95.94	2.80	2.00	96.00	3.05	2.25	95.75	-	-	-
BH118D	98.78	NI	NI	NI	4.49	3.57	94.29	4.46	3.54	94.32	4.46	3.54	94.32	4.47	3.55	94.31	4.87	3.95	93.91	-	-	-
BH120S	98.78	NI	NI	NI	2.52	1.78	96.26	2.55	1.81	96.23	2.51	1.77	96.27	2.15	1.41	96.63	2.35	1.61	96.43	-	-	-
BH211S	98.68	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	2.41	1.61	96.27	2.63	1.83	96.05	2.55	1.75	96.13
BH212S	98.68	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	2.45	1.69	96.23	2.66	1.90	96.02	-	-	-
BH213S	98.71	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	2.47	1.67	96.24	2.68	1.88	96.03	-	-	-
BH216D	98.88	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	11.41	10.61	87.47	-	-	-
BH302S	98.93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	3.06	2.18	95.87

Notes:
Date of elevation survey: December 11, 2017
NF - Monitoring well not found
NI - Monitoring well not installed at time of measurement
D - Monitoring well destroyed
F - Monitoring well cap frozen
B - pipe blocked
mbtop - metres below top of pipe
mbgs - metres below ground surface
masl - metres above sea level

Table 3: Summary of Soil Samples Submitted for Analysis

Collected By:	Sample Information				Method Group															
	Laboratory Sample ID	Sample Location	Sample Date	Sample Depth (mbgs)	PHCs	VOCs	BTEX	ABNs	PAHs	Metals	As, Sb, Se	Chromium VI	Mercury	Cyanide	EC	SAR	PCBs	pH	Grain Size
MTE	BH101 (1-3)	BH101S	22-Nov-17	0.30-0.91					X	X	X	X	X	X	X	X	X	X	
	BH101 (3-4)		22-Nov-17	0.91-1.22				X											
	BH101 (5-7)		22-Nov-17	1.52-2.13														X	
	BH101 (8-9)		22-Nov-17	2.44-2.74		X	X												
	BH101 (15-15.5)		22-Nov-17	4.57-4.72	X	X	X												
	BH1010 (15-15.5)		22-Nov-17	4.57-4.72	X	X	X												
	BH101 (18-18.5)		22-Nov-17	5.49-5.64		X	X												
	BH102 (1-3)	BH102S	15-Nov-17	0.30-0.91					X	X	X	X	X				X		
	BH102 (5-7)		15-Nov-17	1.52-2.13	X	X	X												
	BH102 (9-10)		15-Nov-17	2.74-3.05	X	X	X												
	BH1020 (9-10)		15-Nov-17	2.74-3.05	X	X	X												
	BH102 (14-15)		15-Nov-17	4.27-4.57	X	X	X												
	BH102 (17-18)		15-Nov-17	5.18-5.49		X	X												
	BH103 (1-3)	BH103S	21-Nov-17	0.30-0.91													X		
	BH103 (15-16)		21-Nov-17	4.57-4.88		X	X												
	BH104 (1-3)	BH104S	22-Nov-17	0.30-0.91				X						X	X	X	X	X	
	BH104 (5-7)		22-Nov-17	1.52-2.13														X	
	BH104 (15-16)		22-Nov-17	4.57-4.88		X	X												
	BH104 (18-19)		22-Nov-17	5.49-5.79		X	X												
	BH105 (14-15)	BH105S	16-Nov-17	4.27-4.57		X	X												
	BH106 (12-13)	BH106S	16-Nov-17	3.66-3.96		X	X												
	BH108 (2-4)	BH108S	15-Nov-17	0.61-1.22	X	X	X												
	BH108 (9-10)		15-Nov-17	2.74-3.05	X	X	X												
	BH108 (16.5-17)		15-Nov-17	5.03-5.18		X	X												
	BH109 (1-3)	BH109D	20-Nov-17	0.30-0.91					X	X	X								
	BH109 (5-7)		20-Nov-17	1.52-2.13		X	X												
	BH109 (8-9)		20-Nov-17	2.44-2.74		X	X												
	BH1090 (8-9)		20-Nov-17	2.44-2.74		X	X												
	BH109 (16-17)		20-Nov-17	4.57-4.88		X	X												
	BH111 (1-2)	BH111S	22-Nov-17	0.30-0.61				X	X	X	X	X	X	X	X	X		X	
	BH111 (5-7)		22-Nov-17	1.52-2.13														X	
	BH11 (10-12)		22-Nov-17	3.05-3.66	X														
	BH112 (1-3)	BH112S	21-Nov-17	0.30-0.91					X	X	X	X	X	X	X	X		X	
	BH1120 (1-3)		21-Nov-17	0.30-0.91						X	X	X	X						
	BH112 (10-12)		21-Nov-17	3.05-3.66	X														
	BH112 (15-16)		21-Nov-17	4.57-4.88		X	X												
	BH113 (3-5)	BH113S	15-Nov-17	0.91-1.52	X	X	X												
	BH113 (8-10)		15-Nov-17	2.44-3.05	X	X	X												
	BH113 (15-16)		15-Nov-17	4.57-4.88	X	X	X												
	BH114 (1-3)	BH114D	20-Nov-17	0.30-0.91					X	X	X								
	BH114 (15-16)		20-Nov-17	4.57-4.88	X	X	X												
	BH115 (2-4)	BH115S	16-Nov-17	0.61-1.22					X	X	X	X	X						
	BH1150 (2-4)		16-Nov-17	0.61-1.22					X	X	X	X	X						
	BH115 (7.5-10)		16-Nov-17	2.29-3.05							X								
	BH115 (12.5-15)		16-Nov-17	3.81-4.57	X	X	X												
	BH115 (15-16)		16-Nov-17	4.57-4.88		X	X												
	BH116 (1-3)	BH116S	16-Nov-17	0.30-0.91					X	X	X	X	X						
	BH116 (6-7)		16-Nov-17	1.83-2.13		X	X												
	BH116 (13-14)		16-Nov-17	3.96-4.27	X	X	X												
	BH1160 (13-14)		16-Nov-17	3.96-4.27	X	X	X												
	BH117 (1-2)	BH117S	15-Nov-17	0.30-0.61					X	X	X	X	X						
	BH117 (7.5-9.5)		15-Nov-17	2.29-2.90	X	X	X												
	BH117 (10-12)		15-Nov-17	3.05-3.66		X	X												
	BH117 (20-22)		15-Nov-17	6.10-6.71		X	X												
	BH118 (1-3)	BH118D	21-Nov-17	0.30-0.91					X	X	X	X	X	X	X	X		X	
	BH118 (5-7)		21-Nov-17	1.52-2.13		X	X												
	BH118 (11-13)		21-Nov-17	3.35-3.96		X	X												
	BH1180 (11-13)		21-Nov-17	3.35-3.96		X	X												
	BH118 (16-18)		21-Nov-17	4.88-5.49	X														
	BH118 (19-20)		21-Nov-17	5.79-6.10		X	X												
	BH119 (2-4)	BH119S	16-Nov-17	0.61-1.22					X	X	X	X	X						
	BH119 (6-8)		16-Nov-17	1.83-2.44		X	X												
	BH119 (15-17.5)		16-Nov-17	4.57-5.33	X	X	X												
	BH119 (17.5-19.5)		16-Nov-17	5.33-5.94		X	X												
	BH120 (1-2)	BH120S	22-Nov-17	0.30-0.61					X	X	X	X	X	X	X	X		X	
	BH120 (5-7)		22-Nov-17	1.52-2.13						X	X							X	
	BH120 (15-16)		22-Nov-17	4.57-4.88	X	X	X												
	BH121 (10-11)	BH121S	16-Nov-17	3.05-3.66	X	X	X												
	BH121 (17-18)		16-Nov-17	5.18-5.49	X	X	X												
	BH121 (19-19.5)		16-Nov-17	5.79-5.94		X	X												
	BH201-18 1-2	BH201S	20-Apr-18	0.30-0.61													X		X
	BH201-18 15-16		20-Apr-18	4.57-4.88	X	X	X												
	BH202-18 1-2	BH202S	20-Apr-18	0.30-0.61	X	X	X			X	X								
	BH203-18 1-2	BH203S	20-Apr-18	0.30-0.61						X	X								
	BH203-18 6-8		20-Apr-18	1.83-2.44		X	X												
	BH203-18 13-15		20-Apr-18	3.96-4.57		X	X												
	BH204-18 3-4	BH204S	20-Apr-18	0.91-1.22					X	X	X								
	BH1204-18 3-4		20-Apr-18	0.91-1.22					X	X	X								
	BH204-18 6-8		20-Apr-18	1.83-2.44															X
	BH205-18 1-2	BH205S	20-Apr-18	0.30-0.61						X	X								
	BH206-18 3-4	BH206S	20-Apr-18	0.91-1.22						X	X								
	BH207-18 1-2	BH207S	20-Apr-18	0.30-0.61					X										
	BH208-18 1-2	BH208S	20-Apr-18	0.30-0.61					X										
	BH209 3-5	BH209S	20-Apr-18	0.91-1.52		X	X												
	BH209-18 6-8		20-Apr-18	1.83-2.44					X										
	BH209 8-9		20-Apr-18	2.44-2.74		X	X												
	BH209-18 15-17		20-Apr-18	4.57-5.28		X	X												
	BH209-18 17-18.5		20-Apr-18	5.28-5.64															X
	BH210-18 18-19.5	BH210S	20-Apr-18	5.49-5.95	X														
	BH1210-18 18-19.5		20-Apr-18	5.49-5.95	X														
	MW211-18 3-4	BH211S	20-Apr-18	0.91-1.22	X	X	X												
	MW212-18 3-4	BH212S	20-Apr-18	0.91-1.22	X														
	MW212-18 10-12		20-Apr-18	3.05-3.66															X
	MW213-18 3-4	BH213S	20-Apr-18	0.91-1.22	X	X	X												
	MW213-18 10-12		20-Apr-18	3.05-3.66		X	X												
	BH214-18 1-2	BH214S	20-Apr-18	0.30-0.61	X		X										X		
	BH215-18 1-2	BH215S	20-Apr-18	0.30-0.61	X		X										X		
	BH1215-18 1-2		20-Apr-18	0.30-0.61													X		
	BH301S 1-2	BH301S	19-Feb-20	0.30-0.61	X	X	X												
	BH301S 9-10		19-Feb-20	2.74-3.05	X	X	X												
	BH302S 1-2	BH302S	19-Feb-20	0.30-0.61	X	X	X												
	BH1302S 1-2		19-Feb-20	0.30-0.61	X	X	X												
	BH302S 9-10		19-Feb-20	2.74-3.05	X	X	X												
	BH303S 1-2	BH303S	20-Feb-20	0.30-0.61	X	X	X												
	BH303S 9-10		20-Feb-20	2.74-3.05	X	X	X												
	BH304S 1-2	BH304S	20-Feb-20	0.30-0.61	X	X	X												
	BH305S 9-10	BH305S	19-Feb-20	2.74-3.05	X	X	X			X	X								
	BH306S 9-10	BH306S	19-Feb-20	2.74-3.05	X	X	X			X	X								
	BH307S 1-2	BH307S	20-Feb-20	0.30-0.61	X	X	X												
	BH1307S 1-2		20-Feb-20	0.30-0.61	X	X	X												
	BH308S 1-2	BH308S	20-Feb-20	0.30-0.61	X	X	X		X										
	BH308S 9-10		20-Feb-20	2.74-3.05	X	X	X												
	BH308S 13-15		20-Feb-20	3.96-4.57		X	X												
	BH309S 1-2	BH309S	20-Feb-20	0.30-0.61	X	X	X												
	BH310S 1-2	BH310S	20-Feb-20	0.30-0.61	X	X	X												
	BH311S 1-2	BH311S	19-Feb-20	0.30-0.61	X	X	X												
	BH312S 1-2	BH312S	20-Feb-20	0.30-0.61	X	X	X												
	BH313S 1-2	BH313S	20-Feb-20	0.30-0.61	X	X	X												
	BH314S 2-4	BH314S	20-Feb-20	0.61-1.22	X					X	X								
	BH314S 9-10		20-Feb-20	2.74-3.05	X	X	X												
	BH315S 9-10	BH315S	20-Feb-20	2.74-3.05	X	X	X												
	BH316S 9-10	BH316S	20-Feb-20	2.74-3.05	X	X	X												

Table 3: Summary of Soil Samples Submitted for Analysis

Collected By:	Sample Information				Method Group															
	Laboratory Sample ID	Sample Location	Sample Date	Sample Depth (mbgs)	PHCs	VOCs	BTEX	ABNs	PAHs	Metals	As, Sb, Se	Chromium VI	Mercury	Cyanide	EC	SAR	PCBs	pH	Grain Size
AB	ENV210	BH2S	25-Feb-10	3.81-4.42		X	X												
	ENV211	BH13D	24-Feb-10	5.33-5.95		X	X												
	ENV212	BH14D	24-Feb-10	5.87-6.49		X	X												
	ENV214	BH29D	26-Feb-10	6.24-6.34		X	X												
	ENV215	BH30D	25-Feb-10	4.65-4.80		X	X												
	ENV407	BH40D	26-Mar-12	1.51-2.11		X	X								X			X	
	ENV420		26-Mar-12	1.51-2.11		X	X												
	ENV408		26-Mar-12	2.15-2.75		X	X								X			X	
	ENV409		26-Mar-12	5.90-6.10		X	X								X			X	
	ENV410	BH41D	27-Mar-12	1.51-2.11		X	X												
	ENV411		27-Mar-12	2.90-3.50		X	X												
	ENV412		27-Mar-12	4.40-5.00		X	X												
	ENV413	BH42D	29-Mar-12	1.51-2.11		X	X								X			X	
	ENV414		29-Mar-12	2.90-3.50		X	X								X			X	
	ENV415		29-Mar-12	4.40-5.00		X	X								X			X	
	ENV416	BH43D	28-Mar-12	2.25-2.75		X	X												
	ENV417		28-Mar-12	2.90-3.50		X	X												
	ENV418		28-Mar-12	4.40-5.00		X	X												
	BH45 SS1	BH45D	9-Mar-15	0.75-1.36		X	X												
	BH45 SS3		9-Mar-15	2.27-2.77		X	X												
	BH45 SS5		9-Mar-15	3.78-4.38		X	X												
	BH46 SS1	BH46D	10-Mar-15	0.75-1.36		X	X												
	A		10-Mar-15	0.75-1.36		X	X												
	BH46 SS3		10-Mar-15	2.27-2.77		X	X												
	BH46 SS5		10-Mar-15	3.78-4.38		X	X												
	BH47 SS1	BH47D	10-Mar-15	0.75-1.36		X	X												
	B		10-Mar-15	0.75-1.36		X	X												
	BH47 SS3		10-Mar-15	2.27-2.77		X	X												
	BH47 SS5		10-Mar-15	3.78-4.38		X	X												
	BH48 SS1	BH48D	11-Mar-15	0.75-1.36		X	X												
	BH48 SS3		11-Mar-15	2.27-2.77		X	X												
	BH48 SS6		11-Mar-15	4.53-5.14		X	X												
					55	110	112	3	19	24	25	12	12	6	12	6	8	16	4

Table 4: Soil Analytical Results For Metals and Other Regulated Parameters

Parameters	Unit	RDL	Sample Location	BH40D	BH40D	BH40D	BH42D	BH42D	BH42D	BH101S	BH101S	BH102S	BH104S	BH104S	BH109D	BH111S
			Sample Name	ENV 407	ENV 408	ENV 409	ENV 413	ENV 414	ENV 415	BH101(1-3)	BH101(5-7)	BH102(1-3)	BH104(1-3)	BH104(5-7)	BH109(1-3)	BH111(1-2)
			Laboratory ID	L1133317-2	L1133317-3	L1133317-4	L1133317-8	L1133317-9	L1133317-10	L2026572-1	L2026572-3	L2024278-1	L2026572-8	L2026572-9	L2025188-1	L2026572-13
			Lab Job #	L1133317	L1133317	L1133317	L1133317	L1133317	L1133317	L2026572	L2026572	L2024278	L2026572	L2026572	L2025188	L2026572
			Sampling Date	26-Mar-2012	26-Mar-2012	26-Mar-2012	29-Mar-2012	29-Mar-2012	29-Mar-2012	22-Nov-2017	22-Nov-2017	15-Nov-2017	22-Nov-2017	22-Nov-2017	20-Nov-2017	22-Nov-2017
			Sample Depth (mbgs)	1.51-2.11	2.15-2.75	5.90-6.10	1.51-2.11	2.90-3.50	4.40-5.00	0.30-0.91	1.52-2.13	0.30-0.91	0.30-0.91	1.52-2.13	0.30-0.91	0.30-0.61
			Consultant	AB	AB	AB	AB	AB	AB	MTE	MTE	MTE	MTE	MTE	MTE	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)													
Metals and Inorganics																
Antimony	µg/g	1	7.5	-	-	-	-	-	-	<1.0	-	<1.0	-	-	<1.0	<1.0
Arsenic	µg/g	0.2	18	-	-	-	-	-	-	8.1	-	7.5	-	-	7.4	14.9
Barium	µg/g	1	390	-	-	-	-	-	-	149	-	124	-	-	97.4	97.4
Beryllium	µg/g	0.5	5	-	-	-	-	-	-	<0.50	-	<0.50	-	-	0.56	<0.50
Boron	µg/g	5	120	-	-	-	-	-	-	9.4	-	7.9	-	-	9.5	15.6
Boron (Hot Water Soluble)	µg/g	0.1	1.5	-	-	-	-	-	-	<0.10	-	0.11	-	-	-	0.22
Cadmium	µg/g	0.5	1.2	-	-	-	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50
Chromium	µg/g	1	160	-	-	-	-	-	-	16.5	-	15.3	-	-	25.9	16.8
Chromium VI	µg/g	0.2	10	-	-	-	-	-	-	<0.20	-	<0.20	-	-	-	<0.20
Cobalt	µg/g	1	22	-	-	-	-	-	-	9.2	-	9.3	-	-	6.8	8.5
Copper	µg/g	1	180	-	-	-	-	-	-	60.2	-	58.8	-	-	87	39.5
Lead	µg/g	1	120	-	-	-	-	-	-	15.6	-	13.2	-	-	38.7	23.4
Mercury	µg/g	0.005	1.8	-	-	-	-	-	-	0.018	-	0.0173	-	-	-	0.0257
Molybdenum	µg/g	1	6.9	-	-	-	-	-	-	<1.0	-	<1.0	-	-	<1.0	1.1
Nickel	µg/g	1	130	-	-	-	-	-	-	18.8	-	18.6	-	-	16	17.6
Selenium	µg/g	1	2.4	-	-	-	-	-	-	<1.0	-	<1.0	-	-	<1.0	<1.0
Silver	µg/g	0.2	25	-	-	-	-	-	-	<0.20	-	<0.20	-	-	0.2	<0.20
Thallium	µg/g	0.5	1	-	-	-	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50
Uranium	µg/g	1	23	-	-	-	-	-	-	<1.0	-	<1.0	-	-	<1.0	<1.0
Vanadium	µg/g	1	86	-	-	-	-	-	-	25.5	-	23.7	-	-	23	20.8
Zinc	µg/g	5	340	-	-	-	-	-	-	65	-	62.5	-	-	198	158
Cyanide	µg/g	0.5	0.051	-	-	-	-	-	-	<0.050	-	-	<0.05	-	-	<0.050
Electrical Conductivity	mS/cm	0.004	0.7	0.232	0.277	0.277	0.275	0.323	0.284	0.184	-	-	0.286	-	-	0.41
Sodium Adsorption Ratio (SAR)	unitless	0.1	5	-	-	-	-	-	-	0.59	-	-	0.31	-	-	1.26
pH	pH units	NV	NR	7.77	7.88	8.07	7.82	7.88	7.96	7.76	7.71	-	7.52	7.73	-	7.66

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)
Bold - Exceeds 2011 Table 2 SCS
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 4: Soil Analytical Results For Metals and Other Regulated Parameters

Parameters	Unit	RDL	Sample Location	BH111S	BH112S	BH112S	BH114D	BH115S	BH115S	BH115S	BH116S	BH117S	BH118D	BH119S	BH120S	BH120S
			Sample Name	BH111(5-7)	BH112(1-3)	BH1120(1-3)	BH114(1-3)	BH115(2-4)	BH1150(2-4)	BH115(7.5-10)	BH116(1-3)	BH117(1-2)	BH118(1-3)	BH119(2-4)	BH120(1-2)	BH120(5-7)
			Laboratory ID	L2026572-14	L2025639-10	L2025639-11	L2025188-7	L2024278-25	L2024278-30	L2024278-26	L2024278-31	L2024278-37	L2025639-16	L2024278-43	L2026572-18	L2026572-19
			Lab Job #	L2026572	L2025639	L2025639	L2025188	L2024278	L2024278	L2024278	L2024278	L2024278	L2025639	L2024278	L2026572	L2026572
			Sampling Date	22-Nov-2017	21-Nov-2017	21-Nov-2017	20-Nov-2017	16-Nov-2017	16-Nov-2017	16-Nov-2017	16-Nov-2017	15-Nov-2017	21-Nov-2017	16-Nov-2017	22-Nov-2017	22-Nov-2017
			Sample Depth (mbgs)	1.52-2.13	0.30-0.91	0.30-0.91	0.30-0.91	0.61-1.22	0.61-1.22	2.29-3.05	0.30-0.91	0.30-0.61	0.30-0.91	0.61-1.22	0.30-0.61	1.52-2.13
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)						*Field duplicate sample of BH115 (2-4)*							
Metals and Inorganics																
Antimony	µg/g	1	7.5	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/g	0.2	18	-	6.8	6.4	8.1	**21.4**	**24.5**	7.89	11.2	7.1	7.6	8.5	3.8	6.8
Barium	µg/g	1	390	-	145	151	229	49.3	45.8	-	93.2	121	202	156	53.7	101
Beryllium	µg/g	0.5	5	-	0.55	0.6	0.77	<0.50	<0.50	-	<0.50	0.8	0.78	0.91	<0.50	0.69
Boron	µg/g	5	120	-	9.2	10.5	7.8	12.4	12.4	-	10.5	8.9	9.4	8.6	8.4	11.8
Boron (Hot Water Soluble)	µg/g	0.1	1.5	-	0.13	0.13	-	0.19	0.18	-	0.14	0.13	0.13	<0.10	0.17	-
Cadmium	µg/g	0.5	1.2	-	<0.50	<0.50	<0.50	0.69	0.97	-	<0.50	<0.50	<0.50	<0.50	**18.9**	<0.50
Chromium	µg/g	1	160	-	18.9	18.8	23.9	8.8	7.9	-	15.3	23.5	22.8	26.2	18.7	23.2
Chromium VI	µg/g	0.2	10	-	<0.20	<0.20	-	<0.20	<0.20	-	<0.20	0.33	0.27	0.81	<0.20	-
Cobalt	µg/g	1	22	-	11.2	11	10.4	6.3	6	-	8.6	13.2	11.6	12.1	2.2	15.1
Copper	µg/g	1	180	-	72.8	66.7	70.6	61.2	121	-	62.8	51.3	62	49.2	**245**	50.8
Lead	µg/g	1	120	-	10	39.9	14.9	35.3	44.7	-	33.4	10.8	9.1	12	112	9.8
Mercury	µg/g	0.005	1.8	-	0.0142	0.0142	-	0.151	0.112	-	0.0376	0.018	0.0238	0.0354	0.146	-
Molybdenum	µg/g	1	6.9	-	<1.0	<1.0	<1.0	2.5	2.9	-	1.3	<1.0	<1.0	<1.0	2	<1.0
Nickel	µg/g	1	130	-	24.5	23.8	25.2	11.5	11.1	-	17.4	28.4	26	26.9	6.7	30.1
Selenium	µg/g	1	2.4	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	µg/g	0.2	25	-	<0.20	<0.20	<0.20	0.22	0.24	-	<0.20	<0.20	<0.20	<0.20	0.27	<0.20
Thallium	µg/g	0.5	1	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	µg/g	1	23	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	µg/g	1	86	-	27.4	27	33.7	13	11.7	-	21.5	33	34.6	39.7	9.7	30.3
Zinc	µg/g	5	340	-	58.8	55.6	76.8	196	228	-	128	62.2	54	64.8	**541**	64.4
Cyanide	µg/g	0.5	0.051	-	<0.05	-	-	-	-	-	-	-	<0.05	-	<0.050	-
Electrical Conductivity	mS/cm	0.004	0.7	-	0.332	-	-	-	-	-	-	-	0.377	-	0.339	-
Sodium Adsorption Ratio (SAR)	unitless	0.1	5	-	1.22	-	-	-	-	-	-	-	0.78	-	0.31	-
pH	pH units	NV	NR	7.75	7.75	-	-	-	-	-	-	-	7.63	-	7.86	7.65

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)
Bold - Exceeds 2011 Table 2 SCS
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 4: Soil Analytical Results For Metals and Other Regulated Parameters

Parameters	Unit	RDL	Sample Location	BH202S	BH203S	BH204S	BH204S	BH205S	BH206S	BH305S	BH306S	BH314S	BH314S		Maximum Concentration
			Sample Name	BH202-18 1-2	BH203-18 1-2	BH204-18 3-4	BH1204-18 3-4	BH205-18 1-2	BH206-18 3-4	BH305S 9-10	BH306S 9-10	BH314S 2-4	BH314S 2-4 DUP		
			Laboratory ID	L2083688-5	L2083688-8	L2083688-12	L2083688-14	L2083688-15	L2083688-17	MBL672	MBL675	MBL694	MBL694 DUP 1		
			Lab Job #	L2083688	L2083688	L2083688	L2083688	L2083688	L2083688	C047486	C047486	C047486	C047486		
			Sampling Date	20-Apr-2018	20-Apr-2018	20-Apr-2018	20-Apr-2018	20-Apr-2018	20-Apr-2018	19-Feb-2020	19-Feb-2020	20-Feb-2020	20-Feb-2020		
			Sample Depth (mbgs)	0.30-0.61	0.30-0.61	0.91-1.22	0.91-1.22	0.30-0.61	0.91-1.22	2.74-3.05	2.74-3.05	0.61-1.22	0.61-1.22		
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE		
			2011 Table 2 SCS (R/P/I, Med/Fine)				*Field duplicate sample of BH204-18 3-4*						*Field duplicate sample of BH314S 2-4*		
Metals and Inorganics															
Antimony	µg/g	1	7.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.21	<0.20	0.28	0.29	<	1
Arsenic	µg/g	0.2	18	6.9	5.6	7.1	5.9	6.5	6	6.6	11	7.1	7		**24.5**
Barium	µg/g	1	390	227	57.7	173	274	84	122	84	53	120	110		274
Beryllium	µg/g	0.5	5	<0.50	0.56	0.8	0.69	0.65	0.83	0.71	0.64	0.65	0.64		0.91
Boron	µg/g	5	120	9.8	<5.0	17	15.1	14.2	14.8	12	11	11	10		17
Boron (Hot Water Soluble)	µg/g	0.1	1.5	-	-	-	-	-	-	-	-	-	-		0.22
Cadmium	µg/g	0.5	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<0.10	0.15	0.11		**18.9**
Chromium	µg/g	1	160	14.5	15.1	24.1	21.7	19.3	25.1	21	18	20	20		26.2
Chromium VI	µg/g	0.2	10	-	-	-	-	-	-	-	-	-	-		0.81
Cobalt	µg/g	1	22	8.5	5.3	13.2	11.8	12.7	13.7	12	16	12	13		16
Copper	µg/g	1	180	51.8	27.9	44.2	42.3	56.2	39.5	59	57	56	58		**245**
Lead	µg/g	1	120	14.1	9.3	10	9.1	9.3	9.8	9.4	10	12	12		112
Mercury	µg/g	0.005	1.8	-	-	-	-	-	-	-	-	-	-		0.151
Molybdenum	µg/g	1	6.9	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	0.74	0.97	0.89	0.79		2.9
Nickel	µg/g	1	130	16.5	13.2	27.8	25.2	25.9	27.4	25	27	26	27		30.1
Selenium	µg/g	1	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<	1
Silver	µg/g	0.2	25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		0.27
Thallium	µg/g	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.11	0.11	0.14	0.16	<	0.5
Uranium	µg/g	1	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.66	0.68	0.63	0.65	<	1
Vanadium	µg/g	1	86	22.4	28.7	34.1	30.9	27.4	36.7	29	25	27	28		39.7
Zinc	µg/g	5	340	56.2	27.5	63.6	54.6	53	56.2	64	58	62	62		**541**
Cyanide	µg/g	0.5	0.051	-	-	-	-	-	-	-	-	-	-	<	0.05
Electrical Conductivity	mS/cm	0.004	0.7	-	-	-	-	-	-	-	-	-	-		0.41
Sodium Adsorption Ratio (SAR)	unitless	0.1	5	-	-	-	-	-	-	-	-	-	-		1.26
pH	pH units	NV	NR	-	-	-	-	-	-	-	-	-	-		8.07

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)
Bold - Exceeds 2011 Table 2 SCS
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 5: Soil Analytical Results For Acid/Base/Neutral Compounds (ABNs)

Parameters	Unit	RDL	Sample Location	BH101S	BH104S	BH111S		Maximum Concentration
			Sample Name	BH101(3-4)	BH104(1-3)	BH111(1-2)		
			Laboratory ID	L2026572-2	L2026572-8	L2026572-13		
			Lab Job #	L2026572	L2026572	L2026572		
			Sampling Date	22-Nov-2017	22-Nov-2017	22-Nov-2017		
			Sample Depth (mbgs)	0.91-1.22	0.30-0.91	0.30-0.61		
			Consultant	MTE	MTE	MTE		
			2011 Table 2 SCS (R/P/I, Med/Fine)					
Acid/Base/Neutral Compounds (ABNs) including Chlorophenols (CPs)								
1,1-Biphenyl	µg/g	0.05	1.1	<0.050	<0.050	<0.050	<	0.05
Bis(2-chloroethyl)ether	µg/g	0.1	0.5	<0.10	<0.10	<0.10	<	0.1
Bis(2-chloroisopropyl)ether	µg/g	0.1	1.8	<0.10	<0.10	<0.10	<	0.1
Bis(2-ethylhexyl)phthalate	µg/g	0.1	5	<0.10	<0.10	<0.10	<	0.1
p-Chloroaniline	µg/g	0.1	0.53	<0.10	<0.10	<0.10	<	0.1
3,3'-Dichlorobenzidine	µg/g	0.1	1	<0.10	<0.10	<0.10	<	0.1
Diethyl phthalate	µg/g	0.1	0.5	<0.10	<0.10	<0.10	<	0.1
Dimethyl phthalate	µg/g	0.1	0.5	<0.10	<0.10	<0.10	<	0.1
2,4-Dimethylphenol	µg/g	0.1	53	<0.10	<0.10	<0.10	<	0.1
2,4-Dinitrophenol	µg/g	1	2.9	<1.0	<1.0	<1.0	<	1
2,4-Dinitrotoluene	µg/g	0.1	NR	<0.10	<0.10	<0.10	<	0.1
2,6-Dinitrotoluene	µg/g	0.1	NR	<0.10	<0.10	<0.10	<	0.1
2,4 + 2,6-Dinitrotoluene	µg/g	0.1	0.5	<0.10	<0.10	<0.10	<	0.1
Phenol	ug/g	0.1	9.4	<0.10	<0.10	<0.10	<	0.1
1,2,4-Trichlorobenzene	µg/g	0.05	1.4	<0.050	<0.050	<0.050	<	0.05

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)
RDL - Reported detection limit
NR - Not Relevant
"<" - Less than the Reporting Detection Limit

Table 6: Soil Analytical Results For Polycyclic Aromatic Hydrocarbons (PAHs)

Parameters	Unit	RDL	Sample Location	BH101S	BH102S	BH109D	BH111S	BH112S	BH114D	BH115S	BH115S	BH116S	BH117S
			Sample Name	BH101(1-3)	BH102(1-3)	BH109(1-3)	BH111(1-2)	BH112(1-3)	BH114(1-3)	BH115(2-4)	BH1150(2-4)	BH116(1-3)	BH117(1-2)
			Laboratory ID	L2026572-1	L2024278	L2025188-1	L2026572	L2025639-10	L2025188-7	L2024278-25	L2024278-30	L2024278-31	L2024278-37
			Lab Job #	L2026572	L2024278-1	L2025188	L2026572	L2025639	L2025188	L2024278	L2024278	L2024278	L2024278
			Sampling Date	22-Nov-2017	15-Nov-2017	20-Nov-2017	22-Nov-2017	21-Nov-2017	20-Nov-2017	16-Nov-2017	16-Nov-2017	16-Nov-2017	15-Nov-2017
			Sample Depth (mbgs)	0.30-0.91	0.30-0.91	0.30-0.91	0.30-0.61	0.30-0.91	0.30-0.91	0.61-1.22	0.61-1.22	0.30-0.91	0.30-0.61
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)								*Field duplicate sample of BH115 (2-4)*		
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	µg/g	0.05	29	<0.050	<0.050	<0.050	0.087	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	µg/g	0.05	0.17	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	µg/g	0.05	0.74	<0.050	<0.050	0.058	0.29	<0.050	<0.050	0.125	<0.050	<0.050	<0.050
Benz(a)anthracene	µg/g	0.05	0.63	<0.050	<0.050	0.124	0.391	<0.050	<0.050	0.115	<0.050	<0.050	<0.050
Benzo(a)pyrene	µg/g	0.05	0.3	<0.050	<0.050	0.09	**0.321**	<0.050	<0.050	0.081	<0.050	<0.050	<0.050
Benzo(b)fluoranthene	µg/g	0.05	0.78	<0.050	<0.050	0.136	0.259	<0.050	<0.050	0.084	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	µg/g	0.05	7.8	<0.050	<0.050	<0.050	0.158	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	µg/g	0.05	0.78	<0.050	<0.050	<0.050	0.286	<0.050	<0.050	0.071	<0.050	<0.050	<0.050
Chrysene	µg/g	0.05	7.8	<0.050	<0.050	0.122	0.386	<0.050	<0.050	0.109	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	µg/g	0.05	0.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	µg/g	0.05	0.69	<0.050	<0.050	0.297	**0.837**	<0.050	<0.050	0.284	0.052	<0.050	<0.050
Fluorene	µg/g	0.05	69	<0.050	<0.050	<0.050	0.156	<0.050	<0.050	0.064	<0.050	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	µg/g	0.05	0.48	<0.050	<0.050	0.055	0.193	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1-Methylnaphthalene	µg/g	0.03	3.4	<0.030	<0.030	<0.030	0.038	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
2-Methylnaphthalene	µg/g	0.03	3.4	<0.030	<0.030	<0.030	0.032	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
1+2-Methylnaphthalene	µg/g	0.042	3.4	<0.042	<0.042	<0.042	0.07	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
Naphthalene	µg/g	0.013	0.75	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	µg/g	0.05	7.8	<0.050	<0.050	0.233	1.02	<0.050	<0.050	0.35	<0.050	<0.050	<0.050
Pyrene	µg/g	0.05	78	<0.050	<0.050	0.215	0.603	<0.050	<0.050	0.208	<0.050	<0.050	<0.050

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)
Bold - Exceeds 2011 Table 2 SCS
RDL - Reported detection limit
"<" - Less than the Reporting Detection Limit

Table 6: Soil Analytical Results For Polycyclic Aromatic Hydrocarbons (PAHs)

Parameters	Unit	RDL	Sample Location	BH118D	BH119S	BH120S	BH204S	BH204S	BH207S	BH208S	BH209S	BH308 S	Maximum Concentration	
			Sample Name	BH118(1-3)	BH119(2-4)	BH120(1-2)	BH204-18 3-4	BH1204-18 3-4	BH207-18 1-2	BH208-18 1-2	BH209-18 6-8	BH308S 1-2		
			Laboratory ID	L2025639-16	L2024278-43	L2026572-18	L2083688-12	L2083688-14	L2083688-19	L2083688-23	L2083688-26	MBL680		
			Lab Job #	L2025639	L2024278	L2026572	L2083688	L2083688	L2083688	L2083688	L2083688	C047486		
			Sampling Date	21-Nov-2017	16-Nov-2017	22-Nov-2017	20-Apr-2018	20-Apr-2018	20-Apr-2018	20-Apr-2018	20-Apr-2018	20-Feb-2020		
			Sample Depth (mbgs)	0.30-0.91	0.61-1.22	0.30-0.61	0.91-1.22	0.91-1.22	0.30-0.61	0.30-0.61	1.83-2.44	0.30-0.61		
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE		
			2011 Table 2 SCS (R/P/I, Med/Fine)					*Field duplicate sample of BH204-18 3-4*						
Polycyclic Aromatic Hydrocarbons (PAHs)														
Acenaphthene	µg/g	0.05	29	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.0050		0.087
Acenaphthylene	µg/g	0.05	0.17	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.0050	<	0.05
Anthracene	µg/g	0.05	0.74	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.131	<0.050	0.013		0.29
Benz(a)anthracene	µg/g	0.05	0.63	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.236	<0.050	0.024		0.391
Benzo(a)pyrene	µg/g	0.05	0.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.171	<0.050	0.019		**0.321**
Benzo(b)fluoranthene	µg/g	0.05	0.78	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.273	<0.050	0.026		0.273
Benzo(g,h,i)perylene	µg/g	0.05	7.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.092	<0.050	0.013		0.158
Benzo(k)fluoranthene	µg/g	0.05	0.78	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.104	<0.050	0.0096		0.286
Chrysene	µg/g	0.05	7.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.211	<0.050	0.018		0.386
Dibenz(a,h)anthracene	µg/g	0.05	0.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.0050	<	0.05
Fluoranthene	µg/g	0.05	0.69	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.48	<0.050	0.061		**0.837**
Fluorene	µg/g	0.05	69	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.0051		0.156
Indeno(1,2,3-cd)pyrene	µg/g	0.05	0.48	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.103	<0.050	0.014		0.193
1-Methylnaphthalene	µg/g	0.03	3.4	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.0050		0.038
2-Methylnaphthalene	µg/g	0.03	3.4	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.0050		0.032
1+2-Methylnaphthalene	µg/g	0.042	3.4	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.0071		0.07
Naphthalene	µg/g	0.013	0.75	<0.050	<0.050	<0.050	<0.013	<0.013	<0.013	<0.013	<0.013	<0.0050	<	0.05
Phenanthrene	µg/g	0.05	7.8	<0.050	<0.050	<0.050	<0.046	<0.046	<0.046	0.436	<0.046	0.043		1.02
Pyrene	µg/g	0.05	78	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.355	<0.050	0.044		0.603

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)
Bold - Exceeds 2011 Table 2 SCS
RDL - Reported detection limit
"<" - Less than the Reporting Detection Limit

Table 7: Soil Analytical Results For Polychlorinated Biphenyls (PCBs)

Parameters	Unit	RDL	Sample Location	BH101S	BH102S	BH103S	BH104S	BH201S	BH214S	BH215S	BH215S	Maximum Concentration	
			Sample Name	BH101(1-3)	BH102(1-3)	BH103(1-3)	BH104(1-3)	BH201-18 1-2	BH214-18 1-2	BH215-18 1-2	BH1215-18 1-2		
			Laboratory ID	L2026572-1	L2024278-1	L2025639-1	L2026572-8	L2083688-1	L2083688-43	L2083688-45	L2083688-47		
			Lab Job #	L2026572	L2024278	L2025639	L2026572	L2083688	L2083688	L2083688	L2083688		
			Sampling Date	22-Nov-2017	15-Nov-2017	21-Nov-2017	22-Nov-2017	20-Apr-2018	20-Apr-2018	20-Apr-2018	20-Apr-2018		
			Sample Depth (mbgs)	0.30-0.91	0.30-0.91	0.30-0.91	0.30-0.91	0.30-0.61	0.30-0.61	0.30-0.61	0.30-0.61		
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE		
			2011 Table 2 SCS (R/P/I, Med/Fine)								*Field duplicate sample of BH215-18 1-2*		
Polychlorinated Biphenyls (PCBs)													
Aroclor 1242	µg/g	0.01	NR	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<	0.01
Aroclor 1248	µg/g	0.01	NR	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<	0.01
Aroclor 1254	µg/g	0.01	NR	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<	0.01
Aroclor 1260	µg/g	0.01	NR	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<	0.01
Total Polychlorinated Biphenyls	µg/g	0.02	0.35	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.02

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)
RDL - Reported detection limit
NR - Not Relevant (component values used to calculate total PCBs)
"<" - Less than the Reporting Detection Limit

Table 8: Soil Analytical Results For Petroleum Hydrocarbons (PHCs)

Parameters	Unit	RDL	Sample Location	BH101S	BH101S	BH102S	BH102S	BH102S	BH102S	BH108S	BH108S	BH111S	BH112S	BH113S	BH113S	BH113S	BH114D
			Sample Name	BH101(15-15.5)	BH1010(15-15.5)	BH102(5-7)	BH102(9-10)	BH1020(9-10)	BH102(14-15)	BH108(2-4)	BH108(9-10)	BH111(10-12)	BH112(10-12)	BH113(3-5)	BH113(8-10)	BH113(15-16)	BH114(15-16)
			Laboratory ID	L2026572-6	L2026572-22	L2024278-2	L2024278-3	L2024278-4	L2024278-5	L2024278-14	L2024278-15	L2026572-15	L2025639-13	L2024278-22	L2024278-23	L2024278-24	L2025188-10
			Lab Job #	L2026572	L2026572	L2024278	L2024278	L2024278	L2024278	L2024278	L2024278	L2026572	L2025639	L2024278	L2024278	L2024278	L2025188
			Sampling Date	22-Nov-2017	22-Nov-2017	15-Nov-2017	15-Nov-2017	15-Nov-2017	15-Nov-2017	15-Nov-2017	15-Nov-2017	22-Nov-2017	21-Nov-2017	15-Nov-2017	15-Nov-2017	15-Nov-2017	20-Nov-2017
			Sample Depth (mbgs)	4.57-4.72	4.57-4.72	1.52-2.13	2.74-3.05	2.74-3.05	4.27-4.57	0.61-1.22	2.74-3.05	3.05-3.66	3.05-3.66	0.91-1.52	2.44-3.05	4.57-4.88	4.57-4.88
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)		*Field duplicate sample of BH101 (15-15.5)*												
Petroleum Hydrocarbons (PHCs)																	
F1 (C6 to C10)	µg/g	5	65	<5.0	<5.0	21.7	10.3	**<80**	12.6	<5.0	29.9	<5.0	<5.0	6.4	**<200**	12.8	<5.0
F1 (C6 to C10) minus BTEX	µg/g	5	65	<5.0	<5.0	21.7	10.3	**<80**	12.6	<5.0	29.9	-	-	6.4	**<200**	12.7	<5.0
F2 (C10 to C16)	µg/g	10	150	<10	<10	<10	<10	<10	11	<10	**210**	18	14	50	12	<10	<10
F3 (C16 to C34)	µg/g	50	1300	<50	<50	55	<50	<50	214	<50	**2730**	839	51	880	206	<50	<50
F4 (C34 to C50)	µg/g	50	5600	<50	<50	<50	<50	<50	<50	<50	540	63	<50	53	<50	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	72	NR	<72	<72	77	<72	<110	238	<72	3510	921	<72	988	220	<72	<72
Reached Baseline at C50	unitless	NV	NR	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS

RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 8: Soil Analytical Results For Petroleum Hydrocarbons (PHCs)

Parameters	Unit	RDL	Sample Location	BH115S	BH116S	BH116S	BH117S	BH118D	BH119S	BH120S	BH121S	BH201S	BH202S	BH210S	BH210S	BH211S	BH212S
			Sample Name	**BH115(12.5-15)**	**BH116(13-14)**	**BH1160(13-14)**	**BH117(7.5-9.5)**	**BH118(16-18)**	**BH119(15-17.5)**	**BH120(15-16)**	**BH121(17-18)**	**BH201-18 15-16**	**BH202-18 1-2**	**BH210-18 18-19.5**	**BH1210-18 18-19.5**	**MW211-18 3-4**	**MW212-18 3-4**
			Laboratory ID	**L2024278-28**	**L2024278-34**	**L2024278-35**	**L2024278-39**	**L2025639-20**	**L2024278-45**	**L2026572-21**	**L2024278-50**	**L2083688-2**	**L2083688-5**	**L2083688-30**	**L2083688-31**	**L2083688-32**	**L2083688-35**
			Lab Job #	**L2024278-28**	**L2024278**	**L2024278**	**L2024278**	**L2025639**	**L2024278**	**L2026572**	**L2024278**	**L2083688**	**L2083688**	**L2083688**	**L2083688**	**L2083688**	**L2083688**
			Sampling Date	**16-Nov-2017**	**16-Nov-2017**	**16-Nov-2017**	**15-Nov-2017**	**21-Nov-2017**	**16-Nov-2017**	**22-Nov-2017**	**16-Nov-2017**	**20-Apr-2018**	**20-Apr-2018**	**20-Apr-2018**	**20-Apr-2018**	**20-Apr-2018**	**20-Apr-2018**
			Sample Depth (mbgs)	**3.81-4.57**	**3.96-4.27**	**3.96-4.27**	**2.29-2.90**	**4.88-5.49**	**4.57-5.33**	**4.57-4.88**	**5.18-5.49**	**4.57-4.88**	**0.30-0.61**	**5.49-5.95**	**5.49-5.95**	**0.91-1.22**	**0.91-1.22**
			Consultant	**MTE**	**MTE**	**MTE**	**MTE**	**MTE**	**MTE**	**MTE**	**MTE**	**MTE**	**MTE**	**MTE**	**MTE**	**MTE**	**MTE**
			2011 Table 2 SCS (R/P/I, Med/Fine)			*Field duplicate sample of BH116 (13-14)*									*Field duplicate sample of BH210-18 18-19.5*		
Petroleum Hydrocarbons (PHCs)																	
F1 (C6 to C10)	µg/g	5	65	<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
F1 (C6 to C10) minus BTEX	µg/g	5	65	<5.0	<5.0	<5.0	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	-	-	<5.0	-
F2 (C10 to C16)	µg/g	10	150	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	50	1300	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	50	5600	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	72	NR	<72	<72	<72	<72	<72	<72	<72	<72	-	-	-	-	-	-
Reached Baseline at C50	unitless	NV	NR	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS

RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 8: Soil Analytical Results For Petroleum Hydrocarbons (PHCs)

Parameters	Unit	RDL	Sample Location	BH213S	BH214S	BH215S	BH301S	BH301S	BH302S	BH302S	BH302S	BH303S	BH303S	BH304S	BH305S	BH306S	BH306S
			Sample Name	MW213-18 3-4	BH214-18 1-2	BH215-18 1-2	BH301S 1-2	BH301S 9-10	BH302S 1-2	BH1302S 1-2	BH302S 9-10	BH303S 1-2	BH303S 9-10	BH304S 1-2	BH305S 9-10	BH306S 9-10	BH306S 9-10
			Laboratory ID	L2083688-39	L2083688-43	L2083688-45	MBL659	MBL660	MBL662	MBL665	MBL663	MBL666	MBL667	MBL669	MBL672	MBL675	MBL675 DUP 1
			Lab Job #	L2083688	L2083688	L2083688	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486
			Sampling Date	20-Apr-2018	20-Apr-2018	20-Apr-2018	19-Feb-2020	19-Feb-2020	19-Feb-2020	19-Feb-2020	19-Feb-2020	20-Feb-2020	20-Feb-2020	20-Feb-2020	19-Feb-2020	19-Feb-2020	19-Feb-2020
			Sample Depth (mbgs)	0.91-1.22	0.30-0.61	0.30-0.61	0.30-0.61	2.74-3.05	0.30-0.61	0.30-0.61	2.74-3.05	0.30-0.61	2.74-3.05	0.30-0.61	2.74-3.05	2.74-3.05	2.74-3.05
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)							*Field duplicate sample of BH302S 1-2*							*Laboratory Duplicate*
Petroleum Hydrocarbons (PHCs)																	
F1 (C6 to C10)	µg/g	5	65	<5.0	<5.0	<5.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F1 (C6 to C10) minus BTEX	µg/g	5	65	<5.0	<5.0	<5.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (C10 to C16)	µg/g	10	150	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
F3 (C16 to C34)	µg/g	50	1300	<50	<50	150	<50	<50	<50	<50	<50	<50	<50	480	<50	<50	-
F4 (C34 to C50)	µg/g	50	5600	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	69	<50	<50	-
Total Hydrocarbons (C6-C50)	µg/g	72	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reached Baseline at C50	unitless	NV	NR	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS

RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 8: Soil Analytical Results For Petroleum Hydrocarbons (PHCs)

Parameters	Unit	RDL	Sample Location	BH307S	BH307S	BH308S	BH308S	BH309S	BH310S	BH310S	BH311S	BH312S	BH313S	BH314S	BH315S	BH316S	Maximum Concentration	
			Sample Name	BH307S 1-2	BH1307S 1-2	BH308S 1-2	BH308S 9-10	BH309S 1-2	BH310S 1-2	BH310S 1-2	BH311S 1-2	BH312S 1-2	BH313S 1-2	BH314S 9-10	BH315S 9-10	BH316S 9-10		
			Laboratory ID	MBL677	MBL679	MBL680	MBL681	MBL683	MBL685	MBL685 DUP 1	MBL687	MBL690	MBL692	MBL695	MBL698	MBL701		
			Lab Job #	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486		
			Sampling Date	20-Feb-2020	20-Feb-2020	20-Feb-2020	20-Feb-2020	19-Feb-2020	20-Feb-2020	20-Feb-2020	19-Feb-2020	20-Feb-2020	20-Feb-2020	20-Feb-2020	20-Feb-2020	20-Feb-2020		
			Sample Depth (mbgs)	0.30-0.61	0.30-0.61	0.30-0.61	2.74-3.05	0.30-0.61	0.30-0.61	0.30-0.61	0.30-0.61	0.30-0.61	0.30-0.61	2.74-3.05	2.74-3.05	2.74-3.05		
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE		
			2011 Table 2 SCS (R/P/I, Med/Fine)		*Field duplicate sample of BH307S 1-2*					*Laboratory Duplicate*								
Petroleum Hydrocarbons (PHCs)																		
F1 (C6 to C10)	µg/g	5	65	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<	**200**
F1 (C6 to C10) minus BTEX	µg/g	5	65	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<	**200**
F2 (C10 to C16)	µg/g	10	150	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		**210**
F3 (C16 to C34)	µg/g	50	1300	<50	<50	370	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50		**2730**
F4 (C34 to C50)	µg/g	50	5600	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50		540
Total Hydrocarbons (C6-C50)	µg/g	72	NR	-	-	-	-	-	-	-	-	-	-	-	-	-		3510
Reached Baseline at C50	unitless	NV	NR	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES		NA

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS

RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 9: Soil Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH2S	BH13D	BH14D	BH29D	BH30D	BH40D	BH40D	BH40D	BH40D	BH41D	BH41D	BH41D	BH42D	BH42D	BH42D
			Sample Name	ENV210	ENV211	ENV 212	ENV214	ENV215	ENV 407	ENV 420	ENV 408	ENV 409	ENV 410	ENV 411	ENV 412	ENV 413	ENV 414	ENV 415
			Laboratory ID	L868263-1	L868263-2	L868263-3	L868263-5	L868263-6	L1133317-2	L1133317-14	L1133317-3	L1133317-4	L1133317-5	L1133317-6	L1133317-7	L1133317-8	L1133317-9	L1133317-10
			Lab Job #	L868263	L868263	L868263	L868263	L868263	L1133317	L1133317	L1133317	L1133317	L1133317	L1133317	L1133317	L1133317	L1133317	L1133317
			Sampling Date	25-Feb-2010	24-Feb-2010	24-Feb-2010	26-Feb-2010	25-Feb-2010	26-Mar-2012	26-Mar-2012	26-Mar-2012	26-Mar-2012	27-Mar-2012	27-Mar-2012	27-Mar-2012	29-Mar-2012	29-Mar-2012	29-Mar-2012
			Sample Depth (mbgs)	3.81-4.42	5.33-5.95	5.87-6.49	6.24-6.34	4.65-4.80	1.51-2.11	1.51-2.11	2.15-2.75	5.90-6.10	1.51-2.11	2.90-3.50	4.40-5.00	1.51-2.11	2.90-3.50	4.40-5.00
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)							*Field duplicate sample of ENV 407*								
Volatile Organic Compounds (VOCs)																		
Acetone	µg/g	0.5	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	µg/g	0.02	0.17	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromodichloromethane	µg/g	0.005	1.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromoform	µg/g	0.02	0.26	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	µg/g	0.01	0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon Tetrachloride	µg/g	0.01	0.12	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	µg/g	0.02	2.7	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	µg/g	0.01	0.18	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	µg/g	0.001	2.9	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	µg/g	0.002	1.7	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	µg/g	0.001	6	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	µg/g	0.02	0.097	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	µg/g	0.03	25	<0.030	<0.030	<0.030	<0.030	<0.030	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	µg/g	0.005	0.6	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	µg/g	0.02	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	µg/g	0.002	0.05	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	ug/g	0.02-0.05	2.5	<0.020	<0.020	<0.020	<0.020	<0.020	0.083	<0.050	0.1	<0.050	0.066	0.122	0.14	0.103	<0.050	0.083
trans-1,2-Dichloroethylene	µg/g	0.05	0.75	<0.060	<0.060	<0.060	<0.060	<0.060	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	µg/g	0.002	0.085	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
cis-1,3-Dichloropropene	µg/g	0.002	NR	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
trans-1,3-Dichloropropene	µg/g	0.002	NR	<0.002	<0.002	<0.002	<0.002	<0.002	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
1,3-Dichloropropene	µg/g	0.02	0.081	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	µg/g	0.002	1.6	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylene Dibromide	µg/g	0.04-0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n)	µg/g	0.05	34	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	0.227	0.051	<0.050	<0.050	<0.050
Methylene Chloride	µg/g	0.05	0.96	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.056	<0.050	<0.050	<0.050
Methyl Ethyl Ketone	µg/g	0.05	44	<0.20	<0.20	<0.20	<0.20	<0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Isobutyl Ketone	µg/g	0.05	4.3	<0.20	<0.20	<0.20	<0.20	<0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Tert-Butyl Ether	µg/g	0.05	1.4	<0.20	<0.20	<0.20	<0.20	<0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	µg/g	0.02	2.2	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1,2-Tetrachloroethane	µg/g	0.008	0.05	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	µg/g	0.008	0.05	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	µg/g	0.02	2.3	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050	0.281	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	µg/g	0.05	6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/g	0.003	3.4	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	µg/g	0.01	0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	µg/g	0.05	0.52	<0.050	<0.050	<0.050	<0.050	<0.050	**2.52**	**2.35**	**23**	<0.050	<0.050	<0.050	<0.050	0.098	<0.050	<0.050
Trichlorofluoromethane	µg/g	0.02	5.8	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl Chloride	µg/g	0.003	0.022	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
o-Xylene	µg/g	0.03	NR	-	-	-	-	-	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
m+p-Xylene	µg/g	0.02	NR	-	-	-	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Xylene Mixture	µg/g	0.04	25	<0.040	<0.040	<0.040	<0.040	<0.040	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 9: Soil Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH43D	BH43D	BH43D	BH45D	BH45D	BH45D	BH46D	BH46D	BH46D	BH46D	BH47D	BH47D	BH47D	BH47D	BH48D
			Sample Name	ENV 416	ENV 417	ENV 418	BH45 SS1	BH45 SS3	BH45 SS5	BH46 SS1	A	BH46 SS3	BH46 SS5	BH47 SS1	B	BH47 SS3	BH47 SS5	BH48 SS1
			Laboratory ID	L1133317-11	L1133317-12	L1133317-13	L1586808-1	L1586808-2	L1586808-3	L1586808-4	L1586808-13	L1586808-5	L1586808-6	L1586808-7	L1586808-14	L1586808-8	L1586808-9	L1586808-10
			Lab Job #	L1133317	L1133317	L1133317	L1586808	L1586808	L1586808	L1586808	L1586808	L1586808	L1586808	L1586808	L1586808	L1586808	L1586808	L1586808
			Sampling Date	28-Mar-2012	28-Mar-2012	28-Mar-2012	9-Mar-2015	9-Mar-2015	9-Mar-2015	10-Mar-2015	10-Mar-2015	10-Mar-2015	10-Mar-2015	10-Mar-2015	10-Mar-2015	10-Mar-2015	10-Mar-2015	11-Mar-2015
			Sample Depth (mbgs)	2.25-2.75	2.90-3.50	4.40-5.00	0.75-1.36	2.27-2.77	3.78-4.38	0.75-1.36	0.75-1.36	2.27-2.77	3.78-4.38	0.75-1.36	0.75-1.36	2.27-2.77	3.78-4.38	0.75-1.36
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)								*Field duplicate sample of BH46 SS1*				*Field duplicate sample of BH47 SS1*			
Volatile Organic Compounds (VOCs)																		
Acetone	µg/g	0.5	28	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	µg/g	0.02	0.17	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromodichloromethane	µg/g	0.005	1.9	<0.020	<0.020	<0.020	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	µg/g	0.02	0.26	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	µg/g	0.01	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon Tetrachloride	µg/g	0.01	0.12	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	µg/g	0.02	2.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	µg/g	0.01	0.18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	µg/g	0.001	2.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	µg/g	0.002	1.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	µg/g	0.001	6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	µg/g	0.02	0.097	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	µg/g	0.03	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	µg/g	0.005	0.6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	µg/g	0.02	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	µg/g	0.002	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	ug/g	0.02-0.05	2.5	0.1	<0.050	0.107	0.077	<0.050	0.119	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.076	<0.050	<0.050
trans-1,2-Dichloroethylene	µg/g	0.05	0.75	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	µg/g	0.002	0.085	<0.030	<0.030	<0.030	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,3-Dichloropropene	µg/g	0.002	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
trans-1,3-Dichloropropene	µg/g	0.002	NR	<0.042	<0.042	<0.042	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
1,3-Dichloropropene	µg/g	0.02	0.081	<0.050	<0.050	<0.050	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
Ethylbenzene	µg/g	0.002	1.6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylene Dibromide	µg/g	0.04-0.05	0.05	-	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Hexane (n)	µg/g	0.05	34	<0.050	<0.050	0.103	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylene Chloride	µg/g	0.05	0.96	<0.050	<0.050	0.131	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Ethyl Ketone	µg/g	0.05	44	<0.050	<0.050	<0.050	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	µg/g	0.05	4.3	<0.050	<0.050	<0.050	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Tert-Butyl Ether	µg/g	0.05	1.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	µg/g	0.02	2.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1,2-Tetrachloroethane	µg/g	0.008	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	µg/g	0.008	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	µg/g	0.02	2.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	µg/g	0.05	6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/g	0.003	3.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	µg/g	0.01	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	µg/g	0.05	0.52	<0.050	<0.050	**3.86**	<0.050	0.111	**2.68**	0.167	0.247	0.085	0.474	0.071	0.115	0.41	**1.16**	<0.050
Trichlorofluoromethane	µg/g	0.02	5.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl Chloride	µg/g	0.003	0.022	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
o-Xylene	µg/g	0.03	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
m+p-Xylene	µg/g	0.02	NR	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Xylene Mixture	µg/g	0.04	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 9: Soil Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH48D	BH48D	BH101S	BH101S	BH101S	BH101S	BH102S	BH102S	BH102S	BH102S	BH102S	BH103S	BH104S	BH104S	BH105S
			Sample Name	BH48 SS3	BH48 SS6	BH101(8-9)	BH101(15-15.5)	BH1010(15-15.5)	BH101(18-18.5)	BH102(5-7)	BH102(9-10)	BH1020(9-10)	BH102(14-15)	BH102(17-18)	BH103(15-16)	BH104(15-16)	BH104(18-19)	BH105(14-15)
			Laboratory ID	L1586808-11	L1586808-12	L2026572-4	L2026572-6	L2026572-22	L2026572-7	L2024278-2	L2024278-3	L2024278-4	L2024278-5	L2024278-6	L2025639-4	L2026572-11	L2026572-12	L2024278-10
			Lab Job #	L1586808	L1586808	L2026572	L2026572	L2026572	L2026572	L2024278	L2024278	L2024278	L2024278	L2024278	L2025639	L2026572	L2026572	L2024278
			Sampling Date	11-Mar-2015	11-Mar-2015	22-Nov-2017	22-Nov-2017	22-Nov-2017	22-Nov-2017	15-Nov-2017	15-Nov-2017	15-Nov-2017	15-Nov-2017	15-Nov-2017	21-Nov-2017	22-Nov-2017	22-Nov-2017	16-Nov-2017
			Sample Depth (mbgs)	2.27-2.77	4.53-5.14	2.44-2.74	4.57-4.72	4.57-4.72	5.49-5.64	1.52-2.13	2.74-3.05	2.74-3.05	4.27-4.57	5.18-5.49	4.57-4.88	4.57-4.88	5.49-5.79	4.27-4.57
			Consultant	AB	AB	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)					*Field duplicate sample of BH101 (15-15.5)*				*Field duplicate sample of BH102 (9-10)*						
Volatile Organic Compounds (VOCs)																		
Acetone	µg/g	0.5	28	<0.5	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	µg/g	0.02	0.17	<0.020	<0.020	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	µg/g	0.005	1.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	µg/g	0.02	0.26	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	µg/g	0.01	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon Tetrachloride	µg/g	0.01	0.12	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	µg/g	0.02	2.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	µg/g	0.01	0.18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	µg/g	0.001	2.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	µg/g	0.002	1.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	µg/g	0.001	6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	µg/g	0.02	0.097	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	µg/g	0.03	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	µg/g	0.005	0.6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	µg/g	0.02	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	µg/g	0.002	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	ug/g	0.02-0.05	2.5	<0.050	<0.050	**9.69**	0.773	0.879	<0.050	0.183	0.715	1	0.72	0.732	<0.050	<0.050	<0.050	<0.050
trans-1,2-Dichloroethylene	µg/g	0.05	0.75	<0.050	<0.050	0.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	µg/g	0.002	0.085	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,3-Dichloropropene	µg/g	0.002	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
trans-1,3-Dichloropropene	µg/g	0.002	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
1,3-Dichloropropene	µg/g	0.02	0.081	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
Ethylbenzene	µg/g	0.002	1.6	<0.050	<0.050	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
Ethylene Dibromide	µg/g	0.04-0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Hexane (n)	µg/g	0.05	34	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylene Chloride	µg/g	0.05	0.96	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Ethyl Ketone	µg/g	0.05	44	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	µg/g	0.05	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Tert-Butyl Ether	µg/g	0.05	1.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	µg/g	0.02	2.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1,2-Tetrachloroethane	µg/g	0.008	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	µg/g	0.008	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**<0.25R**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	µg/g	0.02	2.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	2.01	**3.15**	1.31	0.093	<0.050	<0.050	<0.050	<0.050
Toluene	µg/g	0.05	6	<0.20	<0.20	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	µg/g	0.003	3.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.051	0.075	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	µg/g	0.01	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	µg/g	0.05	0.52	<0.050	<0.050	**8.5**	**9.18**	**11.4**	0.132	0.211	**41.1**	**61.5**	**53.7**	**11.9**	<0.010	<0.010	<0.010	<0.010
Trichlorofluoromethane	µg/g	0.02	5.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl Chloride	µg/g	0.003	0.022	<0.020	<0.020	**0.026**	**0.095**	**0.131**	<0.020	<0.020	<0.020	<0.020	0.021	**0.059**	<0.020	**0.03**	<0.020	<0.020
o-Xylene	µg/g	0.03	NR	<0.030	<0.030	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.026	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
m+p-Xylene	µg/g	0.02	NR	<0.020	<0.020	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Xylene Mixture	µg/g	0.04	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 9: Soil Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH106S	BH108S	BH108S	BH108S	BH109D	BH109D	BH109D	BH109D	BH112S	BH113S	BH113S	BH113S	BH114D	BH115S	BH115S
			Sample Name	BH106(12-13)	BH108(2-4)	BH108(9-10)	BH108(16.5-17)	BH109(5-7)	BH109(8-9)	BH1090(8-9)	BH109(16-17)	BH112(15-16)	BH113(3-5)	BH113(8-10)	BH113(15-16)	BH114(15-16)	BH115(12.5-15)	BH115(15-16)
			Laboratory ID	L2024278-13	L2024278-14	L2024278-15	L2024278-17	L2025188-2	L2025188-3	L2025188-4	L2025188-6	L2025639-14	L2024278-22	L2024278-23	L2024278-24	L2025188-10	L2024278-28	L2024278-29
			Lab Job #	L2024278	L2024278	L2024278	L2024278	L2025188	L2025188	L2025188	L2025188	L2025639	L2024278	L2024278	L2024278	L2025188	L2024278	L2024278
			Sampling Date	16-Nov-2017	15-Nov-2017	15-Nov-2017	15-Nov-2017	20-Nov-2017	20-Nov-2017	20-Nov-2017	20-Nov-2017	21-Nov-2017	15-Nov-2017	15-Nov-2017	15-Nov-2017	20-Nov-2017	16-Nov-2017	16-Nov-2017
			Sample Depth (mbgs)	3.66-3.96	0.61-1.22	2.74-3.05	5.03-5.18	1.52-2.13	2.44-2.74	2.44-2.74	4.57-4.88	4.57-4.88	0.91-1.52	2.44-3.05	4.57-4.88	4.57-4.88	3.81-4.57	4.57-4.88
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)							*Field duplicate sample of BH109 (8-9)*								
Volatile Organic Compounds (VOCs)																		
Acetone	µg/g	0.5	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	µg/g	0.02	0.17	<0.0068	<0.0068	0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	0.0121	<0.0068	<0.0068	<0.0068
Bromodichloromethane	µg/g	0.005	1.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	µg/g	0.02	0.26	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	µg/g	0.01	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon Tetrachloride	µg/g	0.01	0.12	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	µg/g	0.02	2.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	µg/g	0.01	0.18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	µg/g	0.001	2.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	µg/g	0.002	1.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	µg/g	0.001	6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	µg/g	0.02	0.097	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	µg/g	0.03	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	µg/g	0.005	0.6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	µg/g	0.02	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	µg/g	0.002	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.093**	**0.054**	**0.067**	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	ug/g	0.02-0.05	2.5	<0.050	<0.050	**4.05**	0.305	0.997	0.522	0.514	0.578	<0.050	**17.6**	**6.18**	1.46	<0.050	0.201	0.328
trans-1,2-Dichloroethylene	µg/g	0.05	0.75	<0.050	<0.050	0.281	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.129	0.065	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	µg/g	0.002	0.085	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,3-Dichloropropene	µg/g	0.002	NR	<0.030	<0.030	<0.030	<0.030	<0.30	<0.030	<0.030	<0.30	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
trans-1,3-Dichloropropene	µg/g	0.002	NR	<0.030	<0.030	<0.030	<0.030	<0.30	<0.030	<0.030	<0.30	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
1,3-Dichloropropene	µg/g	0.02	0.081	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
Ethylbenzene	µg/g	0.002	1.6	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
Ethylene Dibromide	µg/g	0.04-0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Hexane (n)	µg/g	0.05	34	<0.050	<0.050	0.14	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylene Chloride	µg/g	0.05	0.96	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Ethyl Ketone	µg/g	0.05	44	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	µg/g	0.05	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Tert-Butyl Ether	µg/g	0.05	1.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	µg/g	0.02	2.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1,2-Tetrachloroethane	µg/g	0.008	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	µg/g	0.008	0.05	<0.050	<0.050	**<0.70R**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	µg/g	0.02	2.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.051	0.19	<0.050	<0.050	<0.050	<0.050
Toluene	µg/g	0.05	6	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	µg/g	0.003	3.4	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.35	<0.15	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	µg/g	0.01	0.05	<0.050	<0.050	**<0.070**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.067**	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	µg/g	0.05	0.52	<0.010	0.035	0.044	0.355	**7.75**	**25.9**	**26.8**	**1.61**	<0.010	**5.05**	**120**	**59.7**	<0.010	**2.71**	**2.97**
Trichlorofluoromethane	µg/g	0.02	5.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl Chloride	µg/g	0.003	0.022	<0.020	<0.020	**6.13**	**0.097**	<0.020	<0.020	<0.020	<0.020	<0.020	**0.685**	**0.202**	**0.333**	<0.020	<0.020	**0.029**
o-Xylene	µg/g	0.03	NR	<0.020	<0.020	0.03	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
m+p-Xylene	µg/g	0.02	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Xylene Mixture	µg/g	0.04	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 9: Soil Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH116S	BH116S	BH116S	BH117S	BH117S	BH117S	BH118D	BH118D	BH118D	BH118D	BH119S	BH119S	BH119S	BH120S	BH121S
			Sample Name	BH116(6-7)	BH116(13-14)	BH1160(13-14)	BH117(7.5-9.5)	BH117(10-12)	BH117(20-22)	BH118(5-7)	BH118(11-13)	BH1180(11-13)	BH118(19-20)	BH119(6-8)	BH119(15-17.5)	BH119(17.5-19.5)	BH120(15-16)	BH121(10-11)
			Laboratory ID	L2024278-32	L2024278-34	L2024278-35	L2024278-39	L2024278-40	L2024278-42	L2025639-17	L2025639-18	L2025639-19	L2025639-21	L2024278-44	L2024278-45	L2024278-46	L2026572-21	L2024278-48
			Lab Job #	L2024278	L2024278	L2024278	L2024278	L2024278	L2024278	L2025639	L2025639	L2025639	L2025639	L2024278	L2024278	L2024278	L2026572	L2024278
			Sampling Date	16-Nov-2017	16-Nov-2017	16-Nov-2017	15-Nov-2017	15-Nov-2017	15-Nov-2017	21-Nov-2017	21-Nov-2017	21-Nov-2017	21-Nov-2017	16-Nov-2017	16-Nov-2017	16-Nov-2017	22-Nov-2017	16-Nov-2017
			Sample Depth (mbgs)	1.83-2.13	3.96-4.27	3.96-4.27	2.29-2.90	3.05-3.66	6.10-6.71	1.52-2.13	3.35-3.96	3.35-3.96	5.79-6.10	1.83-2.44	4.57-5.33	5.33-5.94	4.57-4.88	3.05-3.35
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)			*Field duplicate sample of BH116 (13-14)*						*Field duplicate sample of BH118 (11-13)*						
Volatile Organic Compounds (VOCs)																		
Acetone	µg/g	0.5	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	µg/g	0.02	0.17	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	µg/g	0.005	1.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	µg/g	0.02	0.26	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	µg/g	0.01	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon Tetrachloride	µg/g	0.01	0.12	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	µg/g	0.02	2.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	µg/g	0.01	0.18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	µg/g	0.001	2.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	µg/g	0.002	1.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	µg/g	0.001	6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	µg/g	0.02	0.097	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	µg/g	0.03	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	µg/g	0.005	0.6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	µg/g	0.02	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	µg/g	0.002	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	ug/g	0.02-0.05	2.5	<0.050	0.186	0.13	0.192	**2.54**	<0.050	0.253	0.227	0.169	0.121	<0.050	<0.050	<0.050	<0.050	<0.050
trans-1,2-Dichloroethylene	µg/g	0.05	0.75	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	µg/g	0.002	0.085	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,3-Dichloropropene	µg/g	0.002	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
trans-1,3-Dichloropropene	µg/g	0.002	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
1,3-Dichloropropene	µg/g	0.02	0.081	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
Ethylbenzene	µg/g	0.002	1.6	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
Ethylene Dibromide	µg/g	0.04-0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Hexane (n)	µg/g	0.05	34	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylene Chloride	µg/g	0.05	0.96	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Ethyl Ketone	µg/g	0.05	44	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	µg/g	0.05	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Tert-Butyl Ether	µg/g	0.05	1.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	µg/g	0.02	2.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1,2-Tetrachloroethane	µg/g	0.008	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	µg/g	0.008	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	µg/g	0.02	2.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	µg/g	0.05	6	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	µg/g	0.003	3.4	<0.050	<0.050	<0.050	<0.050	<0.060	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	µg/g	0.01	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	µg/g	0.05	0.52	<0.010	**7.31**	**5.13**	**4.08**	0.062	**1.42**	**4.81**	**36.1**	**25.8**	**8.1**	<0.010	**0.994**	**0.876**	<0.010	<0.010
Trichlorofluoromethane	µg/g	0.02	5.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl Chloride	µg/g	0.003	0.022	<0.020	<0.020	<0.020	<0.020	**0.15**	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
o-Xylene	µg/g	0.03	NR	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
m+p-Xylene	µg/g	0.02	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Xylene Mixture	µg/g	0.04	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 9: Soil Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH121S	BH121S	BH201S	BH202S	BH203S	BH203S	BH209S	BH209S	BH209S	BH211S	BH213S	BH213S	BH214S	BH215S	BH301S
			Sample Name	BH121(17-18)	BH121(19-19.5)	BH201-18 15-16	BH202-18 1-2	BH203-18 6-8	BH203-18 13-15	BH209 3-5	BH209 8-9	BH209-18 15-17	MW211-18 3-4	MW213-18 3-4	MW213-18 10-12	BH214-18 1-2	BH215-18 1-2	BH301S 1-2
			Laboratory ID	L2024278-50	L2024278-52	L2083688-2	L2083688-5	L2083688-9	L2083688-10	L2084957-1	L2084957-2	L2083688-28	L2083688-32	L2083688-39	L2083688-41	L2083688-43	L2083688-45	MBL659
			Lab Job #	L2024278	L2024278	L2083688	L2083688	L2083688	L2083688	L2084957	L2084957	L2083688	L2083688	L2083688	L2083688	L2083688	L2083688	C047486
			Sampling Date	16-Nov-2017	16-Nov-2017	20-Apr-2018	20-Apr-2018	20-Apr-2018	20-Apr-2018	24-Apr-2018	24-Apr-2018	20-Apr-2018	20-Apr-2018	20-Apr-2018	20-Apr-2018	20-Apr-2018	20-Apr-2018	19-Feb-2020
			Sample Depth (mbgs)	5.18-5.49	5.79-5.94	4.57-4.88	0.30-0.61	1.83-2.44	3.96-4.57	0.91-1.52	2.44-2.74	4.57-5.28	0.91-1.22	0.91-1.22	3.05-3.66	0.30-0.61	0.30-0.61	0.30-0.61
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/g	0.5	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50
Benzene	µg/g	0.02	0.17	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.020
Bromodichloromethane	µg/g	0.005	1.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Bromoform	µg/g	0.02	0.26	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Bromomethane	µg/g	0.01	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Carbon Tetrachloride	µg/g	0.01	0.12	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Chlorobenzene	µg/g	0.02	2.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Chloroform	µg/g	0.01	0.18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Dibromochloromethane	µg/g	0.001	2.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
1,2-Dichlorobenzene	µg/g	0.002	1.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
1,3-Dichlorobenzene	µg/g	0.001	6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
1,4-Dichlorobenzene	µg/g	0.02	0.097	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Dichlorodifluoromethane	µg/g	0.03	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
1,1-Dichloroethane	µg/g	0.005	0.6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
1,2-Dichloroethane	µg/g	0.02	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
1,1-Dichloroethylene	µg/g	0.002	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
cis-1,2-Dichloroethylene	ug/g	0.02-0.05	2.5	0.064	<0.050	0.735	<0.050	<0.050	<0.050	<0.050	0.384	<0.050	<0.050	<0.050	0.146	<0.018	<0.018	<0.050
trans-1,2-Dichloroethylene	µg/g	0.05	0.75	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
1,2-Dichloropropane	µg/g	0.002	0.085	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
cis-1,3-Dichloropropene	µg/g	0.002	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	-	-	<0.030
trans-1,3-Dichloropropene	µg/g	0.002	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	-	-	<0.040
1,3-Dichloropropene	µg/g	0.02	0.081	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	-	-	<0.050
Ethylbenzene	µg/g	0.002	1.6	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	-	-	<0.020
Ethylene Dibromide	µg/g	0.04-0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Hexane (n)	µg/g	0.05	34	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Methylene Chloride	µg/g	0.05	0.96	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Methyl Ethyl Ketone	µg/g	0.05	44	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50
Methyl Isobutyl Ketone	µg/g	0.05	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50
Methyl Tert-Butyl Ether	µg/g	0.05	1.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Styrene	µg/g	0.02	2.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
1,1,1,2-Tetrachloroethane	µg/g	0.008	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
1,1,2,2-Tetrachloroethane	µg/g	0.008	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Tetrachloroethylene	µg/g	0.02	2.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Toluene	µg/g	0.05	6	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.020
1,1,1-Trichloroethane	µg/g	0.003	3.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
1,1,2-Trichloroethane	µg/g	0.01	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Trichloroethylene	µg/g	0.05	0.52	**2.67**	**0.843**	0.125	<0.010	<0.010	<0.010	<0.010	0.4	<0.010	<0.010	0.079	**2.28**	-	-	<0.050
Trichlorofluoromethane	µg/g	0.02	5.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	<0.050
Vinyl Chloride	µg/g	0.003	0.022	<0.020	<0.020	**0.052**	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	-	-	<0.020
o-Xylene	µg/g	0.03	NR	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
m+p-Xylene	µg/g	0.02	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.020
Xylene Mixture	µg/g	0.04	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.020

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 9: Soil Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH301S	BH302S	BH302S	BH302S	BH303S	BH303S	BH304S	BH305S	BH306S	BH306S	BH307S	BH307S	BH308S	BH308S	BH308S
			Sample Name	BH301S 9-10	BH302S 1-2	BH1302S 1-2	BH302S 9-10	BH303S 1-2	BH303S 9-10	BH304S 1-2	BH305S 9-10	BH306S 9-10	BH306S 9-10	BH307S 1-2	BH1307S 1-2	BH308S 1-2	BH308S 9-10	BH308S 13-15
			Laboratory ID	MBL660	MBL662	MBL665	MBL663	MBL666	MBL667	MBL669	MBL672	MBL675	MBL675 DUP 1	MBL677	MBL679	MBL680	MBL681	MBL682
			Lab Job #	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486
			Sampling Date	19-Feb-2020	19-Feb-2020	19-Feb-2020	19-Feb-2020	20-Feb-2020	20-Feb-2020	20-Feb-2020	19-Feb-2020	19-Feb-2020	19-Feb-2020	20-Feb-2020	20-Feb-2020	20-Feb-2020	20-Feb-2020	20-Feb-2020
			Sample Depth (mbgs)	2.74-3.05	0.30-0.61	0.30-0.61	2.74-3.05	0.30-0.61	2.74-3.05	0.30-0.61	2.74-3.05	2.74-3.05	2.74-3.05	0.30-0.61	0.30-0.61	0.30-0.61	2.74-3.05	3.96-4.57
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)			*Field duplicate sample of BH302S 1-2*							*Laboratory Duplicate*		*Field duplicate sample of BH307S 1-2*			
Volatile Organic Compounds (VOCs)																		
Acetone	µg/g	0.5	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	µg/g	0.02	0.17	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromodichloromethane	µg/g	0.005	1.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	µg/g	0.02	0.26	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	µg/g	0.01	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon Tetrachloride	µg/g	0.01	0.12	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	µg/g	0.02	2.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	µg/g	0.01	0.18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	µg/g	0.001	2.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	µg/g	0.002	1.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	µg/g	0.001	6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	µg/g	0.02	0.097	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	µg/g	0.03	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	µg/g	0.005	0.6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	µg/g	0.02	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	µg/g	0.002	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.099**	<0.050
cis-1,2-Dichloroethylene	ug/g	0.02-0.05	2.5	<0.050	<0.050	<0.050	<0.050	<0.050	0.3	<0.050	0.99	<0.050	<0.050	0.14	0.41	<0.050	**32**	**7.1**
trans-1,2-Dichloroethylene	µg/g	0.05	0.75	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.5	0.06
1,2-Dichloropropane	µg/g	0.002	0.085	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,3-Dichloropropene	µg/g	0.002	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
trans-1,3-Dichloropropene	µg/g	0.002	NR	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,3-Dichloropropene	µg/g	0.02	0.081	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	µg/g	0.002	1.6	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylene Dibromide	µg/g	0.04-0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Hexane (n)	µg/g	0.05	34	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylene Chloride	µg/g	0.05	0.96	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Ethyl Ketone	µg/g	0.05	44	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	µg/g	0.05	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Tert-Butyl Ether	µg/g	0.05	1.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	µg/g	0.02	2.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1,2-Tetrachloroethane	µg/g	0.008	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	µg/g	0.008	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	µg/g	0.02	2.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.051	<0.050
Toluene	µg/g	0.05	6	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.032	<0.020
1,1,1-Trichloroethane	µg/g	0.003	3.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	µg/g	0.01	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	µg/g	0.05	0.52	<0.050	<0.050	<0.050	<0.050	0.057	**18**	<0.050	**7.3**	<0.050	<0.050	**1.8**	**3.6**	<0.050	**29**	**4.5**
Trichlorofluoromethane	µg/g	0.02	5.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl Chloride	µg/g	0.003	0.022	<0.020	<0.020	<0.020	**0.023**	<0.020	<0.020	<0.020	**0.048**	0.02	0.021	<0.020	<0.020	**0.063**	**1.8**	**0.084**
o-Xylene	µg/g	0.03	NR	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
m+p-Xylene	µg/g	0.02	NR	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Xylene Mixture	µg/g	0.04	25	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 9: Soil Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH309S	BH310S	BH311S	BH312S	BH313S	BH314S	BH315S	BH316S	Maximum Concentration		
			Sample Name	BH309S 1-2	BH310S 1-2	BH311S 1-2	BH312S 1-2	BH313S 1-2	BH314S 9-10	BH315S 9-10	BH316S 9-10			
			Laboratory ID	MBL683	MBL685	MBL687	MBL690	MBL692	MBL695	MBL698	MBL701			
			Lab Job #	C047486	C047486	C047486	C047486	C047486	C047486	C047486	C047486			
			Sampling Date	19-Feb-2020	20-Feb-2020	19-Feb-2020	20-Feb-2020	20-Feb-2020	20-Feb-2020	20-Feb-2020	20-Feb-2020			
			Sample Depth (mbgs)	0.30-0.61	0.30-0.61	0.30-0.61	0.30-0.61	0.30-0.61	2.74-3.05	2.74-3.05	2.74-3.05			
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE			
			2011 Table 2 SCS (R/P/I, Med/Fine)											
Volatile Organic Compounds (VOCs)														
Acetone	µg/g	0.5	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<	0.5
Benzene	µg/g	0.02	0.17	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.02
Bromodichloromethane	µg/g	0.005	1.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
Bromoform	µg/g	0.02	0.26	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
Bromomethane	µg/g	0.01	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
Carbon Tetrachloride	µg/g	0.01	0.12	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
Chlorobenzene	µg/g	0.02	2.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
Chloroform	µg/g	0.01	0.18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
Dibromochloromethane	µg/g	0.001	2.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
1,2-Dichlorobenzene	µg/g	0.002	1.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
1,3-Dichlorobenzene	µg/g	0.001	6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
1,4-Dichlorobenzene	µg/g	0.02	0.097	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
Dichlorodifluoromethane	µg/g	0.03	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
1,1-Dichloroethane	µg/g	0.005	0.6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
1,2-Dichloroethane	µg/g	0.02	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
1,1-Dichloroethylene	µg/g	0.002	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.098**		**0.099**
cis-1,2-Dichloroethylene	ug/g	0.02-0.05	2.5	<0.050	<0.050	<0.050	<0.050	<0.050	1.2	0.09	**3.9**		**32**
trans-1,2-Dichloroethylene	µg/g	0.05	0.75	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.12		0.5
1,2-Dichloropropane	µg/g	0.002	0.085	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
cis-1,3-Dichloropropene	µg/g	0.002	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<	0.3
trans-1,3-Dichloropropene	µg/g	0.002	NR	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<	0.3
1,3-Dichloropropene	µg/g	0.02	0.081	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
Ethylbenzene	µg/g	0.002	1.6	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.05
Ethylene Dibromide	µg/g	0.04-0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
Hexane (n)	µg/g	0.05	34	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		0.227
Methylene Chloride	µg/g	0.05	0.96	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		0.131
Methyl Ethyl Ketone	µg/g	0.05	44	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<	0.5
Methyl Isobutyl Ketone	µg/g	0.05	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<	0.5
Methyl Tert-Butyl Ether	µg/g	0.05	1.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.2
Styrene	µg/g	0.02	2.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
1,1,1,2-Tetrachloroethane	µg/g	0.008	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
1,1,2,2-Tetrachloroethane	µg/g	0.008	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
Tetrachloroethylene	µg/g	0.02	2.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		**3.15**
Toluene	µg/g	0.05	6	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.2
1,1,1-Trichloroethane	µg/g	0.003	3.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.35
1,1,2-Trichloroethane	µg/g	0.01	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	**0.07**
Trichloroethylene	µg/g	0.05	0.52	<0.050	<0.050	<0.050	<0.050	<0.050	**6.6**	<0.050	**1.9**		**120**
Trichlorofluoromethane	µg/g	0.02	5.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<	0.05
Vinyl Chloride	µg/g	0.003	0.022	<0.020	<0.020	<0.020	<0.020	<0.020	**0.092**	**0.08**	**0.21**		**6.13**
o-Xylene	µg/g	0.03	NR	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020		0.03
m+p-Xylene	µg/g	0.02	NR	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.03
Xylene Mixture	µg/g	0.04	25	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.05

Notes:
2011 Table 2 SCS - As identified for soil in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 10: Summary of Groundwater Samples Submitted for Analysis

Collected By:	Sample Information				Method Group								
	Laboratory Sample ID	Sample Location	Sample Date	Screened Interval (mbgs)	PHCs	BTEX	VOCs	PAHs	ABNs	Metals	Chromium VI	Mercury	PCBs
MTE	BH1D	BH1D	26-Mar-18	8.54-10.06		X	X						
	BH3S	BH3S	24-Nov-17	2.13-3.65	X	X	X			X	X	X	
	BH3S		24-Apr-18	2.13-3.65	X	X							
	BH3S		9-May-18	2.13-3.65	X								
	BH30S		9-May-18	2.13-3.65	X								
	BH3S		23-May-18	2.13-3.65	X								
	BH5S	BH5S	1-Dec-17	3.35-4.87		X	X			X	X	X	
	BH6S	BH6S	27-Nov-17	4.90-6.40		X	X						
	BH6S		11-Jun-18	4.90-6.40	X								
	BH7S	BH7S	27-Nov-17	4.10-5.60		X	X						
	BH8S	BH8S	27-Nov-17	4.30-5.80		X	X						
	BH8S0		27-Nov-17	4.30-5.80		X	X						
	BH9S	BH9S	27-Nov-17	4.30-5.80		X	X						
	BH10S	BH10S	27-Nov-17	4.50-6.00		X	X						
	BH12D	BH12D	27-Nov-17	6.80-8.30		X	X						
	BH12D		11-Jun-18	6.80-8.30	X								
	BH13D	BH13D	28-Nov-17	6.83-8.35		X	X						
	BH13D		11-Jun-18	6.83-8.35	X								
	BH13D		22-Jun-18	6.83-8.35	X	X							
	BH14D	BH14D	28-Nov-17	7.23-8.75		X	X						
	BH15D	BH15D	28-Nov-17	8.80-10.30		X	X						
	BH22S	BH22S	27-Nov-17	5.60-7.10		X	X						
	BH41U	BH41U	27-Nov-17	1.10-2.60	X								
	BH41S	BH41S	27-Nov-17	5.00-6.50		X	X	X	X				
	BH41D	BH41D	6-Dec-17	8.00-9.50		X	X						
	BH42U	BH42U	27-Nov-17	2.00-3.50		X	X						
	BH42S	BH42S	27-Nov-17	5.10-6.60		X	X						
	BH43U	BH43U	27-Nov-17	2.00-3.50		X	X						
	BH43U		11-May-18	2.00-3.50		X	X						
	BH43S	BH43S	27-Nov-17	5.10-6.60		X	X						
	BH43D	BH43D	28-Nov-17	7.40-8.90		X	X						
	BH45D	BH45D	28-Nov-17	11.40-12.90		X	X						
	BH46S	BH46S	27-Nov-17	3.62-5.14	X	X	X			X	X	X	
	BH46D	BH46D	1-Dec-17	9.58-11.10		X	X						
	BH47S	BH47S	27-Nov-17	3.62-5.14		X	X						
	BH47S		26-Mar-18	3.62-5.14		X	X						
	BH470S		26-Mar-18	3.62-5.14		X	X						
	BH47D	BH47D	1-Dec-17	9.58-11.10		X	X						
	BH48S	BH48S	27-Nov-17	3.62-5.14		X	X						
	BH48S0		27-Nov-17	3.62-5.14		X	X						
	BH48D	BH48D	1-Dec-17	9.58-11.10		X	X						
	BH48D		26-Mar-18	9.58-11.10		X	X						
	BH101S	BH101S	24-Nov-17	1.52-4.57	X	X	X	X	X				
	BH101S		11-Jun-18	1.52-4.57				X					
	BH102S	BH102S	24-Nov-17	1.52-4.57	X	X	X	X	X	X	X	X	X
	BH102S		22-Mar-18	1.52-4.57	X								
	BH102S		11-May-18	1.52-4.57		X	X						
	BH103S	BH103S	24-Nov-17	1.83-4.88	X	X	X						X
	BH104S	BH104S	24-Nov-17	1.83-4.88	X	X	X	X	X	X	X	X	
	BH104S		11-Jun-18	1.83-4.88						X	X	X	
	BH105S	BH105S	24-Nov-17	1.52-4.57		X	X						
	BH106S	BH106S	24-Nov-17	0.91-3.96	X	X	X			X	X	X	
	BH107S	BH107S	24-Nov-17	1.52-4.57		X	X						
	BH107S		24-Apr-18	1.52-4.57	X	X							
	BH107S		9-May-18	1.52-4.57						X	X	X	
	BH109D	BH109D	28-Nov-17	16.77-18.29		X	X						
	BH1090D		28-Nov-17	16.77-18.29		X	X						
	BH109D		27-Feb-18	16.77-18.29		X	X						
	BH109D		22-Mar-18	16.77-18.29		X	X						
	BH110S	BH110S	24-Nov-17	2.13-5.18		X	X						
	BH1100		24-Nov-17	2.13-5.18		X	X						
	BH112S	BH112S	24-Nov-17	1.52-4.57		X	X	X	X	X	X	X	
	BH113S	BH113S	24-Nov-17	1.52-4.57	X	X	X						
	BH1300		24-Nov-17	1.52-4.57		X	X						
	BH113S		22-Mar-18	1.52-4.57	X								
	BH113S		11-Jun-18	1.52-4.57						X	X	X	
	BH114D	BH114D	28-Nov-17	7.63-9.15		X	X						
	BH117S	BH117S	27-Nov-17	1.52-4.57	X	X	X						
	BH118D	BH118D	1-Dec-17	21.35-22.67		X	X						
	BH1180D		1-Dec-17	21.35-22.67		X	X						
	BH120S	BH120S	24-Nov-17	1.52-4.57		X	X						
	BH211S	BH211S	24-Apr-18	1.52-4.57	X	X	X						
	BH2110S		24-Apr-18	1.52-4.57	X	X							
	BH211S		5-Mar-20	1.52-4.57						X			
	BH212S	BH212S	24-Apr-18	1.52-4.57		X	X						
	BH213S	BH213S	24-Apr-18	1.52-4.57	X	X	X						
	BH213S		9-May-18	1.52-4.57	X								
	BH213S		23-May-18	1.52-4.57	X								
	BH213S		22-Jun-18	1.52-4.57	X	X							
	BH216D	BH216D	9-May-18	21.35-22.67		X	X						
	BH302S	BH302S	5-Mar-20	1.52-4.57	X	X	X						
	BH1302S		5-Mar-20	1.52-4.57	X	X	X						

Table 10: Summary of Groundwater Samples Submitted for Analysis

Collected By:	Sample Information				Method Group								
	Laboratory Sample ID	Sample Location	Sample Date	Screened Interval (mbgs)	PHCs	BTEX	VOCs	PAHs	ABNs	Metals	Chromium VI	Mercury	PCBs
	BH1S	BH1S	27-Apr-16	2.75-4.27		X	X						
	B		27-Apr-16	2.75-4.27		X	X						
	1S		12-Oct-16	2.75-4.27		X	X						
	1S		8-May-17	2.75-4.27		X	X						
	BH1S		26-Apr-18	2.75-4.27		X	X						
	BH1S		8-Nov-19	2.75-4.27		X	X						
	BH1S		10-Apr-19	2.75-4.27		X	X						
	B		10-Apr-19	2.75-4.27		X	X						
	BH1S		5-Nov-19	2.75-4.27		X	X						
	BH1D	BH1D	27-Apr-16	8.54-10.06		X	X						
	1D		12-Oct-16	8.54-10.06		X	X						
	C		12-Oct-16	8.54-10.06		X	X						
	2	BH2S	8-May-17	2.50-4.90		X	X						
	A		8-May-17	2.50-4.90		X	X						
	BH3	BH3S	26-Apr-18	2.13-3.65		X	X						
	BH3		8-Nov-18	2.13-3.65		X	X						
	BH3		5-Nov-19	2.13-3.65		X	X						
	BH3		27-Apr-20	2.13-3.65		X	X						
	BH5S	BH5S	27-Apr-16	3.35-4.87		X	X						
	A		27-Apr-16	3.35-4.87		X	X						
	5		12-Oct-16	3.35-4.87		X	X						
	A		12-Oct-16	3.35-4.87		X	X						
	5S		8-May-17	3.35-4.87		X	X						
	B		8-May-17	3.35-4.87		X	X						
	BH6S	BH6S	27-Apr-16	4.90-6.40		X	X						
	6		12-Oct-16	4.90-6.40		X	X						
	6S		8-May-17	4.90-6.40		X	X						
	BH6S		26-Apr-18	4.90-6.40		X	X						
	BH6S		9-Nov-18	4.90-6.40		X	X						
	A		9-Nov-18	4.90-6.40		X	X						
	6S		10-Apr-19	4.90-6.40		X	X						
	BH6		5-Nov-19	4.90-6.40		X	X						
	BH6		27-Apr-20	4.90-6.40		X	X						
	BH7	BH7S	27-Apr-16	4.10-5.60		X	X						
	7		12-Oct-16	4.10-5.60		X	X						
	7S		8-May-17	4.10-5.60		X	X						
	BH7S		26-Apr-18	4.10-5.60		X	X						
	BH7		9-Nov-18	4.10-5.60		X	X						
	7S		10-Apr-19	4.10-5.60		X	X						
	BH7		5-Nov-19	4.10-5.60		X	X						
	BH7		27-Apr-20	4.10-5.60		X	X						
	BH8	BH8S	27-Apr-16	4.30-5.80		X	X						
	8		12-Oct-16	4.30-5.80		X	X						
	8S		8-May-17	4.30-5.80		X	X						
	BH8S		26-Apr-18	4.30-5.80		X	X						
	BH8		9-Nov-18	4.30-5.80		X	X						
	8S		10-Apr-19	4.30-5.80		X	X						
	BH8		5-Nov-19	4.30-5.80		X	X						
	BH8		27-Apr-20	4.30-5.80		X	X						
	BH9	BH9S	27-Apr-16	4.30-5.80		X	X						
	9		12-Oct-16	4.30-5.80		X	X						
	9S		8-May-17	4.30-5.80		X	X						
	BH9S		26-Apr-18	4.30-5.80		X	X						
	BH9		9-Nov-18	4.30-5.80		X	X						
	9S		10-Apr-19	4.30-5.80		X	X						
	BH9		5-Nov-19	4.30-5.80		X	X						
	A		5-Nov-19	4.30-5.80		X	X						
	BH9		27-Apr-20	4.30-5.80		X	X						
	BH10	BH10S	27-Apr-16	4.50-6.00		X	X						
	10		12-Oct-16	4.50-6.00		X	X						
	10S		8-May-17	4.50-6.00		X	X						
	BH10S		26-Apr-18	4.50-6.00		X	X						
	BH10		9-Nov-18	4.50-6.00		X	X						
	10S		10-Apr-19	4.50-6.00		X	X						
	BH10		5-Nov-19	4.50-6.00		X	X						
	BH10		27-Apr-20	4.50-6.00		X	X						
	BH12D	BH12D	27-Apr-16	6.80-8.30		X	X						
	12		12-Oct-16	6.80-8.30		X	X						
	12D		8-May-17	6.80-8.30		X	X						
	BH12D		26-Apr-18	6.80-8.30		X	X						
	BH12D		9-Nov-18	6.80-8.30		X	X						
	12D		10-Apr-19	6.80-8.30		X	X						
	BH12		5-Nov-19	6.80-8.30		X	X						
	BH12		27-Apr-20	6.80-8.30		X	X						
	BH13	BH13D	27-Apr-16	6.83-8.35		X	X						
	13		12-Oct-16	6.83-8.35		X	X						
	13D		8-May-17	6.83-8.35		X	X						
	BH13D		26-Apr-18	6.83-8.35		X	X						
	BH13		9-Nov-18	6.83-8.35		X	X						
	13D		10-Apr-19	6.83-8.35		X	X						
	BH13		5-Nov-19	6.83-8.35		X	X						
	BH13		27-Apr-20	6.83-8.35		X	X						
	BH14	BH14D	27-Apr-16	7.23-8.75		X	X						
	14		12-Oct-16	7.23-8.75		X	X						
	14D		8-May-17	7.23-8.75		X	X						
	BH14D		26-Apr-18	7.23-8.75		X	X						
	BH14		9-Nov-18	7.23-8.75		X	X						
	14D		10-Apr-19	7.23-8.75		X	X						
	BH14		5-Nov-19	7.23-8.75		X	X						
	BH14		27-Apr-20	7.23-8.75		X	X						
	A		27-Apr-20	7.23-8.75		X	X						

Table 10: Summary of Groundwater Samples Submitted for Analysis

Collected By:	Sample Information				Method Group								
	Laboratory Sample ID	Sample Location	Sample Date	Screened Interval (mbgs)	PHCs	BTEX	VOCs	PAHs	ABNs	Metals	Chromium VI	Mercury	PCBs
AB	BH15	BH15D	27-Apr-16	8.80-10.30		X	X						
	15		12-Oct-16	8.80-10.30		X	X						
	15D		8-May-17	8.80-10.30		X	X						
	BH15D		26-Apr-18	8.80-10.30		X	X						
	BH15		9-Nov-18	8.80-10.30		X	X						
	15		10-Apr-19	8.80-10.30		X	X						
	BH15		5-Nov-19	8.80-10.30		X	X						
	B		5-Nov-19	8.80-10.30		X	X						
	BH15		27-Apr-20	8.80-10.30		X	X						
	22	BH22S	12-Oct-16	5.60-7.10		X	X						
	22		10-Apr-19	5.60-7.10		X	X						
	BH22		27-Apr-20	5.60-7.10		X	X						
	BH29	BH29D	27-Apr-16	6.90-8.40		X	X						
	29		12-Oct-16	6.90-8.40		X	X						
	29		8-May-17	6.90-8.40		X	X						
	BH29		26-Apr-18	6.90-8.40		X	X						
	B		26-Apr-18	6.90-8.40		X	X						
	BH29		9-Nov-18	6.90-8.40		X	X						
	B		9-Nov-18	6.90-8.40		X	X						
	29		10-Apr-19	6.90-8.40		X	X						
	BH30	BH30D	27-Apr-16	7.40-8.90		X	X						
	30		12-Oct-16	7.40-8.90		X	X						
	30		8-May-17	7.40-8.90		X	X						
	C		8-May-17	7.40-8.90		X	X						
	BH30D		4-May-18	7.40-8.90		X	X						
	C		4-May-18	7.40-8.90		X	X						
	BH30		9-Nov-18	7.40-8.90		X	X						
	BH41S	BH41S	27-Apr-16	5.00-6.50		X	X						
	41S		12-Oct-16	5.00-6.50		X	X						
	BH43U	BH43U	11-May-18	2.00-3.50		X	X						
	BH43S	BH43S	27-Apr-16	5.10-6.60		X	X						
	43S		12-Oct-16	5.10-6.60		X	X						
	43S		8-May-17	5.10-6.60		X	X						
	BH43S		26-Apr-18	5.10-6.60		X	X						
	BH43S		9-Nov-18	5.10-6.60		X	X						
	43S		10-Apr-19	5.10-6.60		X	X						
	BH43S		5-Nov-19	5.10-6.60		X	X						
	BH43S		27-Apr-20	5.10-6.60		X	X						
	BH43D	BH43D	27-Apr-16	7.40-8.90		X	X						
	43D		12-Oct-16	7.40-8.90		X	X						
	43D		8-May-17	7.40-8.90		X	X						
	BH43D		26-Apr-18	7.40-8.90		X	X						
	BH43D		9-Nov-18	7.40-8.90		X	X						
	43D		10-Apr-19	7.40-8.90		X	X						
	BH43D		5-Nov-19	7.40-8.90		X	X						
	BH43D		27-Apr-20	7.40-8.90		X	X						
	BH45	BH45D	27-Apr-16	11.40-12.90		X	X						
	45		12-Oct-16	11.40-12.90		X	X						
	B		12-Oct-16	11.40-12.90		X	X						
	45		8-May-17	11.40-12.90		X	X						
	BH45		26-Apr-18	11.40-12.90		X	X						
	A		26-Apr-18	11.40-12.90		X	X						
	BH45		9-Nov-18	11.40-12.90		X	X						
	46S	BH46S	8-May-17	3.62-5.14		X	X						
	BH46S		26-Apr-18	3.62-5.14		X	X						
	BH46S		9-Nov-18	3.62-5.14		X	X						
	46S		10-Apr-19	3.62-5.14		X	X						
	BH46S		5-Nov-19	3.62-5.14		X	X						
	BH46S		27-Apr-20	3.62-5.14		X	X						
	46D	BH46D	8-May-17	9.58-11.10		X	X						
	BH46D		26-Apr-18	9.58-11.10		X	X						
	BH46D		9-Nov-18	9.58-11.10		X	X						
	46D		10-Apr-19	9.58-11.10		X	X						
	BH46D		5-Nov-19	9.58-11.10		X	X						
	BH46D		27-Apr-20	9.58-11.10		X	X						
	47S	BH47S	8-May-17	3.62-5.14		X	X						
	BH47S		26-Apr-18	3.62-5.14		X	X						
	BH47S		9-Nov-18	3.62-5.14		X	X						
	47S		10-Apr-19	3.62-5.14		X	X						
	BH47S		5-Nov-19	3.62-5.14		X	X						
	BH47S		27-Apr-20	3.62-5.14		X	X						
	47D	BH47D	8-May-17	9.58-11.10		X	X						
	BH47D		26-Apr-18	9.58-11.10		X	X						
	47D		10-Apr-19	9.58-11.10		X	X						
	BH47D		6-Nov-19	9.58-11.10		X	X						
	BH47D		28-Apr-20	9.58-11.10		X	X						
	48S	BH48S	8-May-17	3.62-5.14		X	X						
	BH48S		26-Apr-18	3.62-5.14		X	X						
	BH48S		9-Nov-18	3.62-5.14		X	X						
	48S		10-Apr-19	3.62-5.14		X	X						
	BH48S		6-Nov-19	3.62-5.14		X	X						
	BH48S		28-Apr-20	3.62-5.14		X	X						
	48D	BH48D	9-May-17	9.58-11.10		X	X						
	BH48D		26-Apr-18	9.58-11.10		X	X						
	D		26-Apr-18	9.58-11.10		X	X						
	BH48D		9-Nov-18	9.58-11.10		X	X						
	48D		10-Apr-19	9.58-11.10		X	X						
	BH48D		6-Nov-19	9.58-11.10		X	X						
	BH48D		28-Apr-20	9.58-11.10		X	X						
	B		28-Apr-20	9.58-11.10		X	X						
	RW1	RW1	27-Apr-16	4.88-6.40		X	X						
	RW1		12-Oct-16	4.88-6.40		X	X						
	RW1		8-May-17	4.88-6.40		X	X						
	RW		12-Nov-18	4.88-6.40		X	X						
	RW		10-Apr-19	4.88-6.40		X	X						
	RW		7-Nov-19	4.88-6.40		X	X						
	RW		27-Apr-20	4.88-6.40		X	X						
N/A	TRIP BLANK	TRIP BLANK	24-Nov-17	N/A			X						
	TRIP BLANK	TRIP BLANK	28-Nov-17	N/A			X						
	TRIP BLANK	TRIP BLANK	1-Dec-17	N/A			X						
	TRIP BLANK	TRIP BLANK	24-Apr-18	N/A			X						
	TRIP BLANK	TRIP BLANK	27-Apr-18	N/A			X						
	TRIP BLANK	TRIP BLANK	9-May-18	N/A			X						
	TRIP BLANK	TRIP BLANK	12-Nov-18	N/A			X						
	TRIP BLANK	TRIP BLANK	11-Apr-19	N/A			X						
	TRIP BLANK	TRIP BLANK	5-Nov-19	N/A			X						
	TRIP BLANK	TRIP BLANK	5-Mar-20	N/A			X						
	TOTAL GROUNDWATER SAMPLES FOR PHASE TWO PROPERTY:				29	254	259	6	5	11	10	10	2

Table 11: Groundwater Analytical Results For Metals and Other Regulated Parameters

Parameters	Unit	RDL	Sample Location	BH3S	BH5S	BH40S	BH40S	BH40D	BH43S	BH43D	BH46S	BH102S	BH104S	BH104S	BH106S	BH107S	BH112S	BH113S	BH211S		Maximum Concentration
			Sample Name	BH3S	BH5S	BH40S	ENV 422	BH40D	BH43S	BH43D	BH46S	BH102S	BH104S	BH104S	BH106S	BH107S	BH112S	BH113S	BH211S		
			Laboratory ID	L2027604-12	L2030566-1	L1145702-14	L1145702-27	L1145702-15	L1145702-23	L1145702-24	L2028320-14	L2027604-2	L2027604-4	L2110762-5	L2027604-6	L2092060-4	L2027604-9	L2110762-6	MEI622		
			Lab Job #	L2027604	L2030566	L1145702	L1145702	L1145702	L1145702	L1145702	L2028320	L2027604	L2027604	L2110762	L2027604	L2092060	L2027604	L2110762	C060962		
			Sampling Date	24-Nov-2017	1-Dec-2017	4-May-2012	4-May-2012	4-May-2012	4-May-2012	4-May-2012	27-Nov-2017	24-Nov-2017	24-Nov-2017	11-Jun-2018	24-Nov-2017	9-May-2018	24-Nov-2017	11-Jun-2018	5-Mar-2020		
			Well Screen Depth (mbgs)	2.5-4.7	2.6-4.7	4.8-6.3	4.8-6.3	7.6-9.1	4.9-6.4	7.4-8.9	3.62-5.14	1.52-4.57	1.83-4.88	1.83-4.88	0.91-3.96	1.52-4.57	1.52-4.57	1.52-4.57	1.52-4.57		
			Consultant	MTE	MTE	AB	AB	AB	AB	AB	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE		
			2011 Table 2 SCS (R/P/I, Med/Fine)				*Field duplicate sample of BH40S*														
Metals and Inorganics																					
Antimony	µg/L	0.1	6	0.16	<0.10	<0.50	<0.50	<0.50	<0.50	0.87	<1.0	0.12	<1.0	<1.0	<1.0	<0.10	<1.0	<0.10	<0.50	<	1
Arsenic	µg/L	0.1	25	0.89	0.29	8.8	6.9	5.2	2	1.2	1.9	0.87	2.1	<1.0	4.3	1.91	1.6	0.18	3		8.8
Barium	µg/L	0.1	1000	28.2	19	60.4	39.5	37.7	38.2	34	17	60.9	40.1	14.8	49.3	32.8	28.9	39.3	19		60.9
Beryllium	µg/L	0.1	4	<0.10	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.10	<1.0	<1.0	<1.0	<0.10	<1.0	<0.10	<0.50	<	1
Boron	µg/L	10	5000	66	35	460	840	445	330	146	620	71	380	140	320	280	350	48	270		840
Cadmium	µg/L	0.1	2.7	0.024	<0.010	<0.10	<0.10	<0.10	0.13	<0.10	<0.10	0.021	<0.10	<0.050	<0.10	0.011	<0.10	0.019	<0.10		0.13
Chloride	µg/L	2000	790000	-	-	88600	149000	92100	36600	36400	-	-	-	-	-	-	-	-	-		149000
Chromium	µg/L	0.5	50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<5.0	<5.0	<0.50	<5.0	<0.50	<5.0	<	5
Chromium VI	µg/L	1	25	<1.0	<1.0	<10	<10	<10	<10	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	-	-	<	10
Cobalt	µg/L	0.1	3.8	0.1	0.37	**4.04R**	**7.4R**	1.15	2.6	<0.50	<1.0	1.87	1.2	<1.0	2.6	0.48	2.2	<0.10	<0.50		2.6
Copper	µg/L	0.2	87	2.35	1.17	1.8	<1.0	1.4	1.3	2.8	<2.0	3	<2.0	2.3	<2.0	0.57	<2.0	1.73	2.6		3
Cyanide	µg/L	2	66	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	-	-	-	-	-	-	-	-	-	<	2
Lead	µg/L	0.05	10	0.071	<0.050	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	0.113	<0.50	<0.50	<0.50	<0.050	<0.50	<0.050	<0.50	<	1
Mercury	µg/L	0.01	1	<0.010	<0.010	<0.10	<0.10	<0.10	<0.10	<0.10	<0.010	<0.010	<0.010	-	<0.010	<0.010	<0.010	-	-	<	0.1
Molybdenum	µg/L	0.05	70	0.635	0.921	38.4	29.8	33.7	20.3	6.98	3.24	1.97	7.3	0.56	5.27	2.37	13.7	0.552	1.4		38.4
Nickel	µg/L	0.5	100	1.03	1.05	5.9	3.2	4	7.4	1.9	<5.0	3.26	<5.0	<5.0	<5.0	0.88	<5.0	1.35	<1.0		7.4
Selenium	µg/L	0.05	10	0.588	0.099	<5.0	<5.0	<5.0	<5.0	<5.0	0.51	0.4	<0.50	<0.50	<0.50	0.083	<0.50	0.177	<2.0	<	5
Silver	µg/L	0.05	1.5	<0.050	<0.050	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.050	<0.50	<0.50	<0.50	<0.050	<0.50	<0.050	<0.10	<	0.5
Sodium	µg/L	500	490000	32100	53600	175000	187000	158000	49300	25600	128000	41300	170000	-	219000	130000	147000	-	-		219000
Thallium	µg/L	0.01	2	0.024	<0.010	<0.30	<0.30	<0.30	<0.30	<0.30	<0.10	0.025	<0.10	<0.10	<0.10	0.021	<0.10	0.023	<0.050	<	0.3
Uranium	µg/L	0.01	20	6.65	2.78	6.2	3.7	3.8	5.2	<2.0	2.1	3.55	**21**	**22.9**	5.35	6.91	0.8	1.31	7.1		**22.9**
Vanadium	µg/L	0.5	6.2	<0.50	<0.50	0.67	<0.50	<0.50	<0.50	0.51	<5.0	<0.50	<5.0	<5.0	<5.0	<0.50	<5.0	<0.50	0.57	<	5
Zinc	µg/L	1	1100	1.8	3.1	10.5	8.5	10	6.1	4	<10	4.8	<10	<10	14	<1.0	<10	1.2	<5.0		14
pH	pH units	NV	NR	-	-	7.57	8	7.83	7.95	8.05	-	-	-	-	-	-	-	-	-		8.05

Notes:
2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA summary for details and rationale.

RDL - Reported detection limit
NV- No Value
NA - Not Applicable
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 12: Groundwater Analytical Results For Acid/Base/Neutral Compounds (ABNs) including Chlorophenols (CPs)

Parameters	Unit	RDL	Sample Location	BH41S	BH101S	BH102S	BH104S	BH112S	Maximum Concentration	
			Sample Name	BH41S	BH101S	BH102S	BH104S	BH112S		
			Laboratory ID	L2028320-9	L2027604-1	L2027604-2	L2027604-4	L2027604-9		
			Lab Job #	L2028320	L2027604	L2027604	L2027604	L2027604		
			Sampling Date	27-Nov-2017	24-Nov-2017	24-Nov-2017	24-Nov-2017	24-Nov-2017		
			Well Screen Depth (mbgs)	5.0-6.5	1.52-4.57	1.52-4.57	1.83-4.88	1.52-4.57		
			Consultant	MTE	MTE	MTE	MTE	MTE		
			2011 Table 2 SCS (R/P/I, Med/Fine)							
Acid/Base/Neutral Compounds (ABNs) including Chlorophenols (CPs)										
1,1-Biphenyl	µg/L	0.4	0.5	<0.40	<0.40	<0.40	<0.40	<0.40	<	0.4
Bis(2-chloroethyl)ether	µg/L	0.4	5	<0.40	<0.40	<0.40	<0.40	<0.40	<	0.4
Bis(2-chloroisopropyl)ether	µg/L	0.4	120	<0.40	<0.40	<0.40	<0.40	<0.40	<	0.4
Bis(2-ethylhexyl)phthalate	µg/L	0.5	10	<0.50	<2.0	<2.0	<2.0	<2.0	<	2
p-Chloroaniline	µg/L	0.4	10	<0.40	<0.40	<0.40	<0.40	<0.40	<	0.4
2-Chlorophenol	µg/L	0.3	8.9	<0.30	-	-	-	-	<	0.3
3,3'-Dichlorobenzidine	µg/L	0.4	0.5	<0.40	<0.40	<0.40	<0.40	<0.40	<	0.4
2,4-Dichlorophenol	µg/L	0.3	20	<0.30	-	-	-	-	<	0.3
Diethyl phthalate	µg/L	0.2	38	<0.20	<0.20	<0.20	<0.20	<0.20	<	0.2
Dimethyl phthalate	µg/L	0.2	38	<0.20	<0.20	<0.20	<0.20	<0.20	<	0.2
2,4-Dimethylphenol	µg/L	0.5	59	<0.50	<0.50	<0.50	<0.50	<0.50	<	0.5
2,4-Dinitrophenol	µg/L	1	10	<1.0	<1.0	<1.0	<1.0	<1.0	<	1
2,4-Dinitrotoluene	µg/L	0.4	NR	<0.40	<0.40	<0.40	<0.40	<0.40	<	0.4
2,6-Dinitrotoluene	µg/L	0.4	NR	<0.40	<0.40	<0.40	<0.40	<0.40	<	0.4
2,4 + 2,6-Dinitrotoluene	µg/L	0.57	5	<0.57	-	-	-	-	<	0.57
Pentachlorophenol	µg/L	0.5	30	<0.50	-	-	-	-	<	0.5
Phenol	µg/L	0.5	890	<0.50	<0.50	<0.50	<0.50	<0.50	<	0.5
1,2,4-Trichlorobenzene	µg/L	0.4	70	<0.40	<0.40	<0.40	<0.40	<0.40	<	0.4
2,4,5-Trichlorophenol	µg/L	0.2	8.9	<0.20	-	-	-	-	<	0.2
2,4,6-Trichlorophenol	µg/L	0.2	2	<0.20	-	-	-	-	<	0.2

Notes:
2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)
RDL - Reported detection limit
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 13: Groundwater Analytical Results For Polycyclic Aromatic Hydrocarbons (PAHs)

Parameters	Unit	RDL	Sample Location	BH41S	BH101S	BH101S	BH102S	BH104S	BH112S	Maximum Concentration	
			Sample Name	BH41S	BH101S	BH101S	BH102S	BH104S	BH112S		
			Laboratory ID	L2028320-9	L2027604-1	L2110762-4	L2027604-2	L2027604-4	L2027604-9		
			Lab Job #	L2028320	L2027604	L2110762	L2027604	L2027604	L2027604		
			Sampling Date	27-Nov-2017	24-Nov-2017	11-Jun-2018	24-Nov-2017	24-Nov-2017	24-Nov-2017		
			Well Screen Depth (mbgs)	5.0-6.5	1.52-4.57	1.52-4.57	1.52-4.57	1.83-4.88	1.52-4.57		
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE		
			2011 Table 2 SCS (R/P/I, Med/Fine)								
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	µg/L	0.02	4.1	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.02
Acenaphthylene	µg/L	0.02	1	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.02
Anthracene	µg/L	0.02	2.4	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.02
Benz(a)anthracene	µg/L	0.02	1	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.02
Benzo(a)pyrene	µg/L	0.01	0.01	<0.010	**0.011R**	<0.010	<0.010	<0.010	<0.010	<	0.01
Benzo(b)fluoranthene	µg/L	0.02	0.1	<0.020	0.024	<0.020	<0.020	<0.020	<0.020		0.024
Benzo(g,h,i)perylene	µg/L	0.02	0.2	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.02
Benzo(k)fluoranthene	µg/L	0.02	0.1	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.02
Chrysene	µg/L	0.02	0.1	<0.020	0.037	<0.020	<0.020	<0.020	<0.020		0.037
Dibenz(a,h)anthracene	µg/L	0.02	0.2	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.02
Fluoranthene	µg/L	0.02	0.41	<0.020	0.034	<0.020	<0.020	<0.020	<0.020		0.034
Fluorene	µg/L	0.02	120	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.02
Indeno(1,2,3-cd)pyrene	µg/L	0.02	0.2	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<	0.02
1-Methylnaphthalene	µg/L	0.02	3.2	<0.020	0.021	<0.020	<0.020	<0.020	<0.020		0.021
2-Methylnaphthalene	µg/L	0.02	3.2	<0.020	0.024	<0.020	0.028	<0.020	<0.020		0.028
1+2-Methylnaphthalene	µg/L	0.028	3.2	<0.028	0.045	<0.028	<0.028	<0.028	<0.028		0.045
Naphthalene	µg/L	0.05	11	<0.050	<0.050	<0.050	0.094	<0.050	<0.050		0.094
Phenanthrene	µg/L	0.02	1	<0.020	0.047	<0.020	0.027	<0.020	<0.020		0.047
Pyrene	µg/L	0.02	4.1	<0.020	0.036	<0.020	<0.020	<0.020	<0.020		0.036

Notes:
2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

R - Results rejected by QPESA. Refer to Phase Two ESA summary for details and rationale.

RDL - Reported detection limit
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 14: Groundwater Analytical Results For Polychlorinated Biphenyls (PCBs)

Parameters	Unit	RDL	Sample Location	BH102S	BH103S		Maximum Concentration
			Sample Name	BH102S	BH103S		
			Laboratory ID	L2027604-2	L2027604-3		
			Lab Job #	L2027604	L2027604		
			Sampling Date	24-Nov-2017	24-Nov-2017		
			Well Screen Depth (mbgs)	1.52-4.57	1.83-4.88		
			Consultant	MTE	MTE		
			2011 Table 2 SCS (R/P/I, Med/Fine)				
Polychlorinated Biphenyls (PCBs)							
Aroclor 1242	µg/L	0.02	NR	<0.020	<0.020	<	0.02
Aroclor 1248	µg/L	0.02	NR	<0.020	<0.020	<	0.02
Aroclor 1254	µg/L	0.02	NR	<0.020	<0.020	<	0.02
Aroclor 1260	µg/L	0.02	NR	<0.020	<0.020	<	0.02
Total Polychlorinated Biphenyls	µg/L	0.04	3	<0.040	<0.040	<	0.04

Notes:
2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)
RDL - Reported detection limit
NR - Not Relevant
"<" - Less than the Reporting Detection Limit

Table 15: Groundwater Analytical Results For Petroleum Hydrocarbons (PHCs)

Parameters	Unit	RDL	Sample Location	BH3S	BH3S	BH3S	BH3S	BH3S	BH6S	BH12D	BH13D	BH13D	BH41U	BH46S	BH101S	BH102S	BH102S
			Sample Name	BH3S	BH3S	BH3S	BH30S	BH3S	BH6S	BH12D	BH13D	BH13D	BH41U	BH46S	BH101S	BH102S	BH102
			Laboratory ID	L2027604-12	L2085065-3	L2092060-1	L2092060-2	L2100034-1	L2110762-1	L2110762-2	L2110762-3	L2118439-1	L2028320-8	L2028320-14	L2027604-1	L2027604-2	B864417
			Lab Job #	L2027604	L2085065	L2092060	L2092060	L2100034	L2110762	L2110762	L2110762	L2118439	L2028320	L2028320	L2027604	L2027604	GHQ984
			Sampling Date	24-Nov-2017	24-Apr-2018	9-May-2018	9-May-2018	23-May-2018	11-Jun-2018	11-Jun-2018	11-Jun-2018	22-Jun-2018	27-Nov-2017	27-Nov-2017	24-Nov-2017	24-Nov-2017	22-Mar-2018
			Well Screen Depth (mbgs)	2.5-4.7	2.5-4.7	2.5-4.7	2.5-4.7	2.5-4.7	4.9-6.4	6.8-8.3	6.5-8.3	6.5-8.3	1.1-2.6	3.62-5.14	1.52-4.57	1.52-4.57	1.52-4.57
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)				*Field duplicate sample of BH3S*										
Petroleum Hydrocarbons (PHCs)																	
F1 (C6 to C10)	µg/L	25	750	**1500R**	164	-	-	253	<25	<25	**4540R**	<25	<25	231	118	**<1300R**	<25
F1 (C6 to C10) minus BTEX	µg/L	25	750	**1500R**	164	-	-	253	<25	<25	**4540R**	<25	<25	231	118	**<1300R**	<25
F2 (C10 to C16)	µg/L	100	150	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F3 (C16 to C34)	µg/L	200	500	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<200
F4 (C34 to C50)	µg/L	200	500	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<200
Total Hydrocarbons (C6-C50)	µg/g	370	NR	1500	<370	-	-	<370	<370	<370	4540	<370	<370	<370	<370	<1400	-
Reached Baseline at C50	unitless	NR	NR	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

Notes:
2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

R - Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
NA - Not Applicable
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 15: Groundwater Analytical Results For Petroleum Hydrocarbons (PHCs)

Parameters	Unit	RDL	Sample Location	BH103S	BH104S	BH106S	BH107S	BH113S	BH113S	BH117S	BH211S	BH211S	BH213S	BH213S	BH213S	BH213S	MW302S
			Sample Name	BH103S	BH104S	BH106S	BH107S	BH113S	BH113	BH117S	BH211S	BH2110S	BH213S	BH213S	BH213S	BH213S	MW302S
			Laboratory ID	L2027604-3	L2027604-4	L2027604-6	L2085065-5	L2027604-10	B864417	L2028320-1	L2085065-2	L2085065-7	L2085065-4	L2092060-5	L2100034-2	L2118439-3	MEI620
			Lab Job #	L2027604	L2027604	L2027604	L2085065	L2027604	GHQ986	L2028320	L2085065	L2085065	L2085065	L2092060	L2100034	L2118439	C060962
			Sampling Date	24-Nov-2017	24-Nov-2017	24-Nov-2017	24-Apr-2018	24-Nov-2017	22-Mar-2018	27-Nov-2017	24-Apr-2018	24-Apr-2018	24-Apr-2018	9-May-2018	23-May-2018	22-Jun-2018	5-Mar-2020
			Well Screen Depth (mbgs)	1.83-4.88	1.83-4.88	0.91-3.96	1.52-4.57	1.52-4.57	1.52-4.57	1.52-4.57	1.52-4.57	1.52-4.57	1.52-4.57	1.52-4.57	1.52-4.57	1.52-4.57	1.52-4.57
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)									*Field duplicate sample of BH211S*					
Petroleum Hydrocarbons (PHCs)																	
F1 (C6 to C10)	µg/L	25	750	<25	<25	<25	<25	**<1300R**	690	273	<25	<25	**<5000R**	-	**2010R**	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	25	750	<25	<25	<25	<25	**<1300R**	690	272	<25	<25	**<5000R**	-	**2000R**	<25	<25
F2 (C10 to C16)	µg/L	100	150	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F3 (C16 to C34)	µg/L	200	500	<250	<250	<250	<250	<250	<200	<250	<250	<250	<250	<250	<250	<250	<200
F4 (C34 to C50)	µg/L	200	500	<250	<250	<250	<250	<250	<200	<250	<250	<250	<250	<250	<250	<250	<200
Total Hydrocarbons (C6-C50)	µg/g	370	NR	<370	<370	<370	<370	<1400	-	<370	<370	<370	<5000	-	<370	<370	-
Reached Baseline at C50	unitless	NR	NR	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

Notes:
2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

R - Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
NA - Not Applicable
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 15: Groundwater Analytical Results For Petroleum Hydrocarbons (PHCs)

Parameters	Unit	RDL	Sample Location	MW302S	MW302S		Maximum Concentration
			Sample Name	MW1302S	MW1302S		
			Laboratory ID	MEI621	MEI621 DUP 1		
			Lab Job #	C060962	C060962		
			Sampling Date	5-Mar-2020	5-Mar-2020		
			Well Screen Depth (mbgs)	1.52-4.57	1.52-4.57		
			Consultant	MTE	MTE		
			2011 Table 2 SCS (R/P/I, Med/Fine)	*Field duplicate sample of MW302S*	*Laboratory Duplicate*		
Petroleum Hydrocarbons (PHCs)							
F1 (C6 to C10)	µg/L	25	750	<25	-		690
F1 (C6 to C10) minus BTEX	µg/L	25	750	<25	-		690
F2 (C10 to C16)	µg/L	100	150	<100	<100	<	100
F3 (C16 to C34)	µg/L	200	500	<200	<200	<	250
F4 (C34 to C50)	µg/L	200	500	<200	<200	<	250
Total Hydrocarbons (C6-C50)	µg/g	370	NR	-	-	<	5000
Reached Baseline at C50	unitless	NR	NR	YES	YES		NA

Notes:
2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

R - Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
NA - Not Applicable
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S
			Sample Name	BH1S	BH1S	BH1S	1S	1S	1S	1S	1S	1S	1S	B	1S	1S	1S	1S
			Laboratory ID	L962785-1	L1002665-1	L1080092-1	L1292207-2	L1387784-1	L1453469-1	L1533707-1	L1609442-1	L1699659-1	L1762380-1	L1762380-22	L1844588-1	L1925873	L2087604-1	L2195936-1
			Lab Job #	L962785	L1002665	L1080092	L1292207	L1387784	L1453469	L1533707	L1609442	L1699659	L1762380	L1762380	L1844588	L1925873-1	L2087604	L2195936
			Sampling Date	7-Dec-10	30-Apr-11	28-Oct-11	18-Apr-13	31-Oct-13	7-May-14	14-Oct-14	6-May-15	4-Nov-15	27-Apr-16	27-Apr-16	12-Oct-16	8-May-17	26-Apr-18	9-Nov-18
			Well Screen Depth (mbgs)	2.75-4.27	2.75-4.27	2.75-4.27	2.75-4.27	2.75-4.27	2.75-4.27	2.75-4.27	2.75-4.27	2.75-4.27	2.75-4.27	2.75-4.27	2.75-4.27	2.75-4.27	2.75-4.27	2.75-4.27
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)											*Field duplicate sample of BH1S*				
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<1000R**	**<1000R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	<30	<30
Benzene	µg/L	0.2	5	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	**<25R**	**<25R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	µg/L	1	25	**<25R**	**<25R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	**<45R**	**<45R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	**<25R**	**<25R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	µg/L	0.2	22	**<25R**	**<25R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	**<50R**	**<50R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	**<50R**	**<50R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**0.74R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	µg/L	0.5	5	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	**<25R**	**<25R**	**5.09R**	**5.11R**	**5.73R**	**5.47R**	**4.42R**	**5.84R**	**8.03R**	4.16	3.51	<0.50	5.25	6.2	6.21
cis-1,2-Dichloroethylene	µg/L	0.5	17	**403R**	**277R**	**349R**	**376R**	**722R**	**533R**	**584R**	**720R**	**1710R**	**1000**	**783**	**124**	**521**	**674**	**1060**
trans-1,2-Dichloroethylene	µg/L	0.5	17	**<25R**	**<25R**	**12.8R**	**6.29R**	**7.17R**	**5.89R**	**5.83R**	**7.96R**	**12.4R**	4.39	3.300	<0.50	6.58	8.07	9.5
1,2-Dichloropropane	µg/L	0.2	5	**<25R**	**<25R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.50	<0.30	<0.50	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<25R**	**<25R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	-	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.30	<0.50	<0.30	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	-	-	-	-	-	-	-	-	-	-	-	<0.20	-	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	-	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	2	50	-	-	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	**<1000R**	**<1000R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	**<1000R**	**<1000R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<25R**	**<25R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	0.5	5.4	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	µg/L	0.2	24	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<14R**	**<0.50R**	<0.50	<10	<0.50	<0.50	<0.85	<2.8
1,1,2-Trichloroethane	µg/L	0.5	5	**<25R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**2460R**	**4130R**	**3230R**	**2130R**	**2850R**	**2650R**	**2480R**	**3110R**	**2510R**	**1960**	**2150**	**628**	**2440**	**3160**	**3100**
Trichlorofluoromethane	µg/L	0.5	150	**<50R**	**<50R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	**<25R**	**<25R**	**32.8R**	**5.74R**	**26.5R**	**19.9R**	**25.6R**	**14.1R**	**107R**	**61.9**	<0.50	<0.50	**28.8**	**5.39**	**32**
o-Xylene	µg/L	0.2	NR	-	**<50R**	**<0.50R**	-	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.40	<0.30	<0.40	<0.30	<0.30
m+p-Xylene	µg/L	0.2	NR	-	**<25R**	**<0.50R**	-	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40
Xylene Mixture	µg/L	0.2	300	**<75R**	**<75R**	**<0.71R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH1S	BH1S	BH1S	BH1S	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D
			Sample Name	1S	B	BH1S	BH1S	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	1D	1D	BH1D	1D
			Laboratory ID	L2257510-1	L2257510-49	L2380423-1	L2443052-18	L962785-2	L1002665-2	L1080092-2	L1143691-1	L1236205-1	L1292207-1	L1387784-2	L1453469-2	L1533707-2	L1609442-21	L1699659-2
			Lab Job #	L2257510	L2257510	L2380423	L2443052	L962785	L1002665	L1080092	L1143691	L1236205	L1292207	L1387784	L1453469	L1533707	L1609442	L1699659
			Sampling Date	10-Apr-19	10-Apr-19	5-Nov-19	28-Apr-20	7-Dec-10	30-Apr-11	28-Oct-11	30-Apr-12	6-Nov-12	18-Apr-13	31-Oct-13	7-May-14	14-Oct-14	6-May-15	4-Nov-15
			Well Screen Depth (mbgs)	2.75-4.27	2.75-4.27	2.75-4.27	2.75-4.27	8.54-10.06	8.54-10.06	8.54-10.06	8.54-10.06	8.54-10.06	8.54-10.06	8.54-10.06	8.54-10.06	8.54-10.06	8.54-10.06	8.54-10.06
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	<30	<30	<30	**<400R**	**<400R**	**<30R**	**<1500R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**
Benzene	µg/L	0.2	5	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Bromodichloromethane	µg/L	0.5	16	<2.0	<2.0	<2.0	<2.0	**<10R**	**<10R**	**<2.0R**	**<100R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**
Bromoform	µg/L	1	25	<5.0	<5.0	<5.0	<5.0	**<10R**	**<10R**	**<5.0R**	**<250R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**
Bromomethane	µg/L	0.5	0.89	<0.50	<0.50	<0.50	<0.50	**<18R**	**<18R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Carbon Tetrachloride	µg/L	0.2	5	<0.20	<0.20	<0.20	<0.20	**<10R**	**<10R**	**<0.20R**	**<10R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**
Chlorobenzene	µg/L	0.2	30	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Chloroform	µg/L	0.2	22	<1.0	<1.0	<1.0	<1.0	**<10R**	**<10R**	**<1.0R**	**<50R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**
Dibromochloromethane	µg/L	0.5	25	<2.0	<2.0	<2.0	<2.0	**<10R**	**<10R**	**<2.0R**	**<100R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Dichlorodifluoromethane	µg/L	1	590	<2.0	<2.0	<2.0	<2.0	**<20R**	**<20R**	**<2.0R**	**<100R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**
1,1-Dichloroethane	µg/L	0.2	5	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**1.02R**	**<0.50R**	**<0.50R**	**<0.50R**	**0.71R**	**<0.50R**
1,2-Dichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1-Dichloroethylene	µg/L	0.2	14	3.38	2.5	1.35	3.25	**<10R**	**<10R**	**5.49R**	**<25R**	**4.96R**	**5.77R**	**2.57R**	**1.78R**	**0.88R**	**4.49R**	**6.23R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	**489**	**367**	**178**	**475**	**458R**	**339R**	**606R**	**580R**	**670R**	**754R**	**652R**	**212R**	**513R**	**826R**	**723R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	4.93	3.68	2.3	5.55	**<10R**	**<10R**	**21R**	**<25R**	**6.58R**	**5.45R**	**3.32R**	**1.35R**	**1.08R**	**4.02R**	**9.37R**
1,2-Dichloropropane	µg/L	0.2	5	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.30R**	**<15R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	<0.30	**<10R**	**<10R**	**<0.30R**	**<15R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	<0.30	-	-	**<0.50R**	**<21R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylbenzene	µg/L	0.2	2.4	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	<0.20	<0.20	<0.20	-	-	-	-	-	-	-	-	-	-	-
Hexane (n)	µg/L	0.5	520	<0.50	<0.50	<0.50	<0.50	-	-	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Methylene Chloride	µg/L	2	50	<5.0	<5.0	<5.0	<5.0	-	-	**<5.0R**	**<250R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**
Methyl Ethyl Ketone	µg/L	10	1800	<20	<20	<20	<20	**<400R**	**<400R**	**<20R**	**<1000R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**
Methyl Isobutyl Ketone	µg/L	5	640	<20	<20	<20	<20	**<400R**	**<400R**	**<20R**	**<1000R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	<2.0	<2.0	<2.0	**<10R**	**<10R**	**<2.0R**	**<100R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**
Styrene	µg/L	0.5	5.4	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Tetrachloroethylene	µg/L	0.2	17	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Toluene	µg/L	0.2	24	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1-Trichloroethane	µg/L	0.2	200	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<17R**	**<0.50R**
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	**<10R**	**<10R**	**<0.50R**	**<25R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Trichloroethylene	µg/L	0.5	5	**2240**	**2180**	**1010**	**1990**	**979R**	**1200R**	**2800R**	**3450R**	**1160R**	**3260R**	**1460R**	**1020R**	**993R**	**2900R**	**1700R**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	<5.0	<5.0	<5.0	**<20R**	**<20R**	**<5.0R**	**<250R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**
Vinyl Chloride	µg/L	0.2	1.7	<0.50	1.62	**2.36**	<0.50	**46R**	**12R**	**120R**	**<25R**	**26.9R**	**8.79R**	**43.2R**	**49.9R**	**9.84R**	**4.95R**	**30.1R**
o-Xylene	µg/L	0.2	NR	<0.30	<0.30	<0.30	<0.30	-	**<20R**	**<0.50R**	**<25R**	**<0.50R**	-	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**
m+p-Xylene	µg/L	0.2	NR	<0.40	<0.40	<0.40	<0.40	-	**<10R**	**<0.50R**	**<25R**	**<0.50R**	-	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**
Xylene Mixture	µg/L	0.2	300	<0.50	<0.50	<0.50	<0.50	**<30R**	**<30R**	**<0.71R**	**<25R**	**<0.71R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH1D	BH1D	BH1D	BH1D	BH1D	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH3S
			Sample Name	C	BH1D	1D	C	BH1D	BH2	2	A	2	BLANK B	BH2	A	2	A	BH3
			Laboratory ID	L1699659-24	L1762380-2	L1844588-2	L1844588-24	GIL109	L962785-3	L1453469-3	L1453469-11	L1533716-1	L1533716-13	L1609442-2	L1609442-18	L1925873	L1925873	L962785-4
			Lab Job #	L1699659	L1762380	L1844588	L1844588	B868106	L962785	L1453469	L1453469	L1533716	L1533716	L1609442	L1609442	L1925873-2	L1925873-58	L962785
			Sampling Date	4-Nov-15	27-Apr-16	12-Oct-16	12-Oct-16	26-Mar-18	7-Dec-10	7-May-14	7-May-14	15-Oct-14	15-Oct-14	6-May-15	6-May-15	8-May-17	8-May-17	7-Dec-10
			Well Screen Depth (mbgs)	8.54-10.06	8.54-10.06	8.54-10.06	8.54-10.06	8.54-10.06	2.5-4.9	2.5-4.9	2.5-4.9	2.5-4.9	2.5-4.9	2.5-4.9	2.5-4.9	2.5-4.9	2.5-4.9	2.13-3.65
			Consultant	AB	AB	AB	AB	MTE	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)	*Field duplicate sample of BH1D*			*Field duplicate sample of BH1D*				*Field duplicate sample of BH2S*		*Field duplicate sample of BH2S*		*Field duplicate sample of BH2S*		*Field duplicate sample of BH2S*	
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<30R**	<300	<30	<30	<200	**<20R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	<30	**<20000R**
Benzene	µg/L	0.2	5	**<0.50R**	<5.0	<0.50	<0.50	0.25	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
Bromodichloromethane	µg/L	0.5	16	**<2.0R**	**<20R**	<2.0	<2.0	<0.50	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	**<500R**
Bromoform	µg/L	1	25	**<5.0R**	**<50R**	<5.0	<5.0	<1.0	**<0.50R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	**<500R**
Bromomethane	µg/L	0.5	0.89	**<0.50R**	**<5.0R**	<0.50	<0.50	<0.50	**<0.90R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<900R**
Carbon Tetrachloride	µg/L	0.2	5	**<0.20R**	<2.0	<0.20	<0.20	<0.20	**<0.50R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	**<500R**
Chlorobenzene	µg/L	0.2	30	**<0.50R**	<5.0	<0.50	<0.50	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
Chloroform	µg/L	0.2	22	**<1.0R**	<10	<1.0	<1.0	<0.20	**<0.50R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	**<500R**
Dibromochloromethane	µg/L	0.5	25	**<2.0R**	<20	<2.0	<2.0	<0.50	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	**<500R**
1,2-Dichlorobenzene	µg/L	0.5	3	**<0.50R**	**<5.0R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
1,3-Dichlorobenzene	µg/L	0.5	59	**<0.50R**	<5.0	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
1,4-Dichlorobenzene	µg/L	0.5	1	**<0.50R**	**<5.0R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
Dichlorodifluoromethane	µg/L	1	590	**<2.0R**	<20	<2.0	<2.0	<20	**<1.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	**<1000R**
1,1-Dichloroethane	µg/L	0.2	5	**0.65R**	**<5.0R**	<0.50	0.65	1.4	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
1,2-Dichloroethane	µg/L	0.5	5	**<0.50R**	<5.0	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
1,1-Dichloroethylene	µg/L	0.2	14	**6.38R**	<5.0	4.85	4.14	9.9	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	**1780R**	**255**	**759**	**1230**	**1600**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**28.6R**	<0.50	<0.50	**5530R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	**9.61R**	<5.0	7.05	5.520	8.9	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
1,2-Dichloropropane	µg/L	0.2	5	**<0.30R**	<3.0	<0.50	<0.50	<0.20	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	**<500R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<0.30R**	<3.0	<0.30	<0.30	<0.30	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	**<500R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	**<0.50R**	<4.2	<0.30	<0.30	<0.40	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	-
1,3-Dichloropropene	µg/L	0.5	0.5	**<0.50R**	**<5.0R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
Ethylbenzene	µg/L	0.2	2.4	**<0.50R**	**<5.0R**	<0.50	<0.50	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
Ethylene Dibromide	µg/L	0.2	0.2	-	-	<0.20	-	<0.20	-	-	-	-	-	-	-	-	-	-
Hexane (n)	µg/L	0.5	520	**<0.50R**	<5.0	<0.50	<0.50	<1.0	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	-
Methylene Chloride	µg/L	2	50	**<5.0R**	<50	<5.0	<5.0	<2.0	-	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	-
Methyl Ethyl Ketone	µg/L	10	1800	**<20R**	<200	<20	<20	<200	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	**<20000R**
Methyl Isobutyl Ketone	µg/L	5	640	**<20R**	<200	<20	<20	<100	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	**<20000R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<2.0R**	**<20R**	<2.0	<2.0	<10	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	**<500R**
Styrene	µg/L	0.5	5.4	**<0.50R**	<5.0	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<0.50R**	**<5.0R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<0.50R**	**<5.0R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
Tetrachloroethylene	µg/L	0.2	17	**<0.50R**	<5.0	<0.50	<0.50	0.36	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
Toluene	µg/L	0.2	24	**<0.50R**	<5.0	<0.50	<0.50	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
1,1,1-Trichloroethane	µg/L	0.2	200	**<0.50R**	<5.0	<1.5	<1.0	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<1.0R**	**<1.0R**	<0.50	<0.50	**<500R**
1,1,2-Trichloroethane	µg/L	0.5	5	**<0.50R**	<5.0	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
Trichloroethylene	µg/L	0.5	5	**2880R**	**1380**	**1550**	**2470**	**6000**	**<0.50R**	**<0.50R**	**0.93R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**90700R**
Trichlorofluoromethane	µg/L	0.5	150	**<5.0R**	<50	<5.0	<5.0	<10	**<1.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	**<1000R**
Vinyl Chloride	µg/L	0.2	1.7	**95.5R**	**13.8**	**24.5**	**74.9**	**200**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<500R**
o-Xylene	µg/L	0.2	NR	**<0.40R**	<4.0	<0.30	<0.30	<4.0	-	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.40	-
m+p-Xylene	µg/L	0.2	NR	**<0.30R**	<3.0	<0.40	<0.40	<4.0	-	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	-
Xylene Mixture	µg/L	0.2	300	**<0.50R**	<5.0	<0.50	<0.50	<4.0	**<1.5R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<1500R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH3S	BH3S	BH3S	BH3S	BH3S	BH3S	BH3S	BH3S	BH3S	BH3S	BH3S	BH3S	BH3S	BH3S	BH3S
			Sample Name	BH3	BH3	BH3	BH3S	BH3	BH3	3	3	BH3	BH3S	BH3S	BH3	BH3	BH3	BH3
			Laboratory ID	L1002665-3	L1080092-3	L1143691-2	L1236205-2	L12922007-3	L1387784-3	L1453521-1	L1533716-2	L1609442-3	L2027604-12	L2085065-3	L2087604-2	L2195936-2	L2380423-2	L2443052-1
			Lab Job #	L1002665	L1080092	L1143691	L1236205	L12922007	L1387784	L1453521	L1533716	L1609442	L2027604	L2085065	L2087604	L2195936	L2380423	L2443052
			Sampling Date	30-Apr-11	28-Oct-11	30-Apr-12	6-Nov-12	18-Apr-13	31-Oct-13	8-May-14	15-Oct-14	6-May-15	24-Nov-17	24-Apr-18	26-Apr-18	9-Nov-18	5-Nov-19	27-Apr-20
			Well Screen Depth (mbgs)	2.13-3.65	2.13-3.65	2.13-3.65	2.13-3.65	2.13-3.65	2.13-3.65	2.13-3.65	2.13-3.65	2.13-3.65	2.13-3.65	2.13-3.65	2.13-3.65	2.13-3.65	2.13-3.65	2.13-3.65
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	MTE	MTE	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<40000R**	**<30R**	**<30000R**	**207R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	-	<30	<30	<30	<30
Benzene	µg/L	0.2	5	**<1000R**	**3.25R**	**<500R**	**0.72R**	**0.55R**	**<0.50R**	**<0.50R**	**1.65R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	**<1000R**	**<2.0R**	**<2000R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	-	<2.0	<2.0	<2.0	<2.0
Bromoform	µg/L	1	25	**<1000R**	**<5.0R**	**<5000R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	-	<5.0	<5.0	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	**<1800R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	-	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	**<1000R**	**<0.20R**	**<200R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	-	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	**<1000R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	-	<0.50	<0.50	<0.50	<0.50
Chloroform	µg/L	0.2	22	**<1000R**	**<1.0R**	**<1000R**	**1.5R**	**4.8R**	**<1.0R**	**<1.0R**	**3.7R**	**2.2R**	<1.0	-	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	**<1000R**	**<2.0R**	**<2000R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	-	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	**<1000R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.20R**	**<0.50R**	**<0.20R**	<0.50	-	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	**<1000R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	-	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	**<1000R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	**<20R**	**<2.0R**	**<2000R**	**<2.0R**	**<2.0R**	**<2.0R**	**<0.50R**	**<2.0R**	**<0.50R**	<2.0	-	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	**<1000R**	**1.23R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**0.64R**	**<0.50R**	<0.50	-	<0.50	0.53	<0.50	<0.50
1,2-Dichloroethane	µg/L	0.5	5	**<1000R**	**1.42R**	**<500R**	**1.85R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	-	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	**<1000R**	**<500R**	**<500R**	**102R**	**78.4R**	**26.1R**	**19.4R**	**202R**	**9.1R**	11.90	-	<0.50	10.5	3.63	0.83
cis-1,2-Dichloroethylene	µg/L	0.5	17	**4200R**	**7040R**	**13000R**	**45800R**	**3960R**	**32500R**	**2550R**	**10300R**	**856R**	**1200**	-	**137**	**1650**	**936**	**401**
trans-1,2-Dichloroethylene	µg/L	0.5	17	**<1000R**	**<500R**	**<500R**	**152R**	**38.6R**	**67.9R**	**19.7R**	**64.9R**	**7.23R**	10.70	-	1.89	16.2	9.03	5.35
1,2-Dichloropropane	µg/L	0.2	5	**<1000R**	**<0.30R**	**<300R**	**<60R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.50	-	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<1000R**	**<0.30R**	**<300R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	-	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	-	**<0.50R**	**<420R**	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.30	-	<0.30	<0.30	<0.30	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	**<1000R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	-	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	**<1000R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	-	-	-	-	-	-	-	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	-	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	-	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	2	50	-	**<5.0R**	**<5000R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	-	<5.0	<5.0	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	**<40000R**	**<20R**	**<20000R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	-	<20	<20	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	**<40000R**	**<20R**	**<20000R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	-	<20	<20	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<1000R**	**<2.0R**	**<2000R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	-	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	0.5	5.4	**<1000R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	-	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<1000R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	-	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<1000R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	**<1000R**	**<0.50R**	**<500R**	**1.85R**	**10.6R**	**<0.50R**	**0.81R**	**<250R**	**3.67R**	1.60	-	<0.50	<0.50	<0.50	<0.50
Toluene	µg/L	0.2	24	**<1000R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**0.54R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	**<1000R**	**<0.50R**	**<500R**	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	**<2.0R**	**<9.6R**	<0.50	-	<0.50	<3.8	<0.50	<0.50
1,1,2-Trichloroethane	µg/L	0.5	5	**<1000R**	**2.76R**	**<500R**	**16.4R**	**29.7R**	**6.26R**	**3.55R**	**22.7R**	**10.1R**	2.41	-	0.81	<0.50	1.11	0.87
Trichloroethylene	µg/L	0.5	5	**110000R**	**76400R**	**16400R**	**6710R**	**44900R**	**290R**	**5420R**	**84800R**	**18500R**	**8850**	-	**976**	**370**	**1710**	**2700**
Trichlorofluoromethane	µg/L	0.5	150	**<2000R**	**<5.0R**	**<5000R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	-	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	**<1000R**	**61.5R**	**<500R**	**61.3R**	**4.44R**	**12.5R**	**2.89R**	**18.4R**	**<0.50R**	**23.60**	-	<0.50	**44.7**	0.82	<0.50
o-Xylene	µg/L	0.2	NR	**<2000R**	**<0.50R**	**<500R**	**0.84R**	-	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.30	<0.40	<0.30	<0.30	<0.30	<0.30
m+p-Xylene	µg/L	0.2	NR	**<1000R**	**<0.50R**	**<500R**	**0.44R**	-	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.40	<0.30	<0.40	<0.40	<0.40	<0.40
Xylene Mixture	µg/L	0.2	300	**<3000R**	**<0.71R**	**<710R**	**1.28R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50		<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH5S	BH5S	BH5S	BH5S	BH5S	BH5S	BH5S	BH5S	BH5S	BH5S	BH5S	BH5S	BH6S	BH6S	BH6S
			Sample Name	5	5	BH5	5	A	BH5	A	5	A	5S	B	BH5S	BH6S	BH6S	BH6S
			Laboratory ID	L1453521-2	L1533716-3	L1609442-4	L1699659-3	L1699659-22	L1762380-3	L1762380-21	L1844588-3	L1844588-22	L1925873	L1925873	L2030566-1	L962785-5	L1002665-4	L1080092-4
			Lab Job #	L1453521	L1533716	L1609442	L1699659	L1699659	L1762380	L1762380	L1844588	L1844588	L1925873-3	L1925873-59	L2030566	L962785	L1002665	L1080092
			Sampling Date	8-May-14	15-Oct-14	6-May-15	4-Nov-15	4-Nov-15	27-Apr-16	27-Apr-16	12-Oct-16	12-Oct-16	8-May-17	8-May-17	1-Dec-17	7-Dec-10	30-Apr-11	28-Oct-11
			Well Screen Depth (mbgs)	3.35-4.87	3.35-4.87	3.35-4.87	3.35-4.87	3.35-4.87	3.35-4.87	3.35-4.87	3.35-4.87	3.35-4.87	3.35-4.87	3.35-4.87	3.35-4.87	4.9-6.4	4.9-6.4	4.9-6.4
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	MTE	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)					*Field duplicate sample of BH5S*		*Field duplicate sample of BH5S*		*Field duplicate sample of BH5S*		*Field duplicate sample of BH5S*				
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	<30	<30	58	**<20R**	**<20R**	**<30R**
Benzene	µg/L	0.2	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Bromodichloromethane	µg/L	0.5	16	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**
Bromoform	µg/L	1	25	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<0.50R**	**<0.50R**	**<5.0R**
Bromomethane	µg/L	0.5	0.89	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.90R**	**<0.90R**	**<0.50R**
Carbon Tetrachloride	µg/L	0.2	5	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<0.50R**	**<0.50R**	**<0.20R**
Chlorobenzene	µg/L	0.2	30	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Chloroform	µg/L	0.2	22	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**<0.50R**	**<0.50R**	**<1.0R**
Dibromochloromethane	µg/L	0.5	25	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**
1,2-Dichlorobenzene	µg/L	0.5	3	**<0.20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichlorobenzene	µg/L	0.5	59	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,4-Dichlorobenzene	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Dichlorodifluoromethane	µg/L	1	590	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<1.0R**	**<1.0R**	**<2.0R**
1,1-Dichloroethane	µg/L	0.2	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,2-Dichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,1-Dichloroethylene	µg/L	0.2	14	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	**2.29R**	**2.33R**	**2.46R**	**3.82R**	**3.64R**	1.02	1.18	2.87	2.85	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**0.63R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,2-Dichloropropane	µg/L	0.2	5	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.50	<0.50	<0.30	<0.30	<0.50	**<0.50R**	**<0.50R**	**<0.30R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.50R**	**<0.50R**	**<0.30R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.30	<0.30	<0.50	<0.50	<0.30	-	-	**<0.50R**
1,3-Dichloropropene	µg/L	0.5	0.5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Ethylbenzene	µg/L	0.2	2.4	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Ethylene Dibromide	µg/L	0.2	0.2	-	-	-	-	-	-	-	<0.20	-	-	-	<0.20	-	-	-
Hexane (n)	µg/L	0.5	520	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	**<0.50R**
Methylene Chloride	µg/L	2	50	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	-	-	**<5.0R**
Methyl Ethyl Ketone	µg/L	10	1800	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**
Methyl Isobutyl Ketone	µg/L	5	640	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**
Styrene	µg/L	0.5	5.4	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Tetrachloroethylene	µg/L	0.2	17	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Toluene	µg/L	0.2	24	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.63	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1-Trichloroethane	µg/L	0.2	200	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2-Trichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Trichloroethylene	µg/L	0.5	5	**<0.50R**	**<0.50R**	**0.63R**	**0.56R**	**0.92R**	<0.50	<0.50	<0.50	0.52	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**1.58R**
Trichlorofluoromethane	µg/L	0.5	150	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<1.0R**	**<1.0R**	**<5.0R**
Vinyl Chloride	µg/L	0.2	1.7	**0.51R**	**<0.50R**	**0.87R**	**1.11R**	**0.83R**	<0.50	<0.50	1.05	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
o-Xylene	µg/L	0.2	NR	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.40	<0.30	<0.30	<0.40	<0.40	0.57	-	**<1.0R**	**<0.50R**
m+p-Xylene	µg/L	0.2	NR	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.40	<0.40	<0.30	<0.30	1.26	-	**<0.50R**	**<0.50R**
Xylene Mixture	µg/L	0.2	300	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.83	**<1.5R**	**<1.5R**	**<0.71R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH6S	BH6S	BH6S	BH6S	BH6S	BH6S	BH6S	BH6S	BH6S	BH6S	BH6S	BH6S	BH6S	BH6S	BH6S
			Sample Name	BH6S	BH6	BH6	6	6	6	BH6	6	6	6S	BH6S	BH6S	BH6	BH6	A
			Laboratory ID	L1143691-3	L1236205-3	L12922007-4	L1387784-4	L1453521-3	L1533716-4	L1609442-5	L1699659-4	L1762380-4	L1844588-4	L1925873-4	L2028320-2	L2087604-3	L2195936-3	L2195936-54
			Lab Job #	L1143691	L1236205	L12922007	L1387784	L1453521	L1533716	L1609442	L1699659	L1762380	L1844588	L1925873	L2028320	L2087604	L2195936	L2195936
			Sampling Date	30-Apr-12	6-Nov-12	18-Apr-13	31-Oct-13	8-May-14	15-Oct-14	6-May-15	4-Nov-15	27-Apr-16	12-Oct-16	8-May-17	27-Nov-17	26-Apr-18	9-Nov-18	9-Nov-2018
			Well Screen Depth (mbgs)	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	MTE	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)															*Field duplicate sample of BH6S*
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	<30	<30	<30
Benzene	µg/L	0.2	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	µg/L	1	25	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	µg/L	0.2	22	**<1.0R**	**<1.0R**	**4.8R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.20R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	µg/L	0.5	17	**<0.50R**	**1.5R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	µg/L	0.5	17	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	µg/L	0.2	5	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.30	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	**<0.50R**	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.50	<0.30	<0.30	<0.30	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	-	-	-	-	-	-	-	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	2	50	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	0.5	5.4	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	µg/L	0.2	24	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	µg/L	0.5	150	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene	µg/L	0.2	NR	**<0.50R**	**<0.35R**	-	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.40	<0.30	<0.30	<0.30	<0.30
m+p-Xylene	µg/L	0.2	NR	**<0.50R**	**<0.35R**	-	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.30	<0.40	<0.40	<0.40	<0.40
Xylene Mixture	µg/L	0.2	300	**<0.71R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH6S	BH6S	BH6S	BH7S	BH7S	BH7S	BH7S	BH7S	BH7S	BH7S	BH7S	BH7S	BH7S	BH7S	BH7S
			Sample Name	6S	BH6	BH6	BH7S	BH7S	BH7S	BH7S	BH7S	BH7	BH7	7	7	BH7	7	BH7
			Laboratory ID	L2257510-2	L2380423-3	L2443052-2	L962785-6	L1002665-5	L1080092-5	L1143691-4	L1236205-4	L12922007-5	L1387784-5	L1453521-4	L1533716-5	L1609442-6	L1699659-5	L1762380-5
			Lab Job #	L2257510	L2380423	L2443052	L962785	L1002665	L1080092	L1143691	L1236205	L12922007	L1387784	L1453521	L1533716	L1609442	L1699659	L1762380
			Sampling Date	10-Apr-19	5-Nov-19	27-Apr-20	7-Dec-10	30-Apr-11	28-Oct-11	30-Apr-12	6-Nov-12	18-Apr-13	31-Oct-13	8-May-14	15-Oct-14	6-May-15	4-Nov-15	27-Apr-16
			Well Screen Depth (mbgs)	4.9-6.4	4.9-6.4	4.9-6.4	4.1-5.6	4.1-5.6	4.1-5.6	4.1-5.6	4.1-5.6	4.1-5.6	4.1-5.6	4.1-5.6	4.1-5.6	4.1-5.6	4.1-5.6	4.1-5.6
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	<30	<30	**<1000R**	**<20000R**	**<30R**	**<30000R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<600
Benzene	µg/L	0.2	5	<0.50	<0.50	<0.50	**<25R**	**<500R**	**3.1R**	**<500R**	**2.15R**	**2.74R**	**1.71R**	**1.41R**	**1.66R**	**2.01R**	**<0.50R**	**<10**
Bromodichloromethane	µg/L	0.5	16	<2.0	<2.0	<2.0	**<25R**	**<500R**	**<2.0R**	**<2000R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<40R**
Bromoform	µg/L	1	25	<5.0	<5.0	<5.0	**<25R**	**<500R**	**<5.0R**	**<5000R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<2500R**	**<5.0R**	**<5.0R**	**<100R**
Bromomethane	µg/L	0.5	0.89	<0.50	<0.50	<0.50	**<45R**	**<900R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<10R**
Carbon Tetrachloride	µg/L	0.2	5	<0.20	<0.20	<0.20	**<25R**	**<500R**	**<0.20R**	**<200R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<4.0
Chlorobenzene	µg/L	0.2	30	<0.50	<0.50	<0.50	**<25R**	**<500R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	<10
Chloroform	µg/L	0.2	22	<1.0	<1.0	<1.0	**<25R**	**<500R**	**<1.0R**	**<1000R**	**<1.0R**	**4.8R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<20
Dibromochloromethane	µg/L	0.5	25	<2.0	<2.0	<2.0	**<50R**	**<500R**	**<2.0R**	**<2000R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<1000R**	**<2.0R**	**<2.0R**	**<40R**
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	<0.50	<0.50	**<25R**	**<500R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<10R**
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	<0.50	<0.50	**<25R**	**<500R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<10
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	<0.50	<0.50	**<25R**	**<500R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<10R**
Dichlorodifluoromethane	µg/L	1	590	<2.0	<2.0	<2.0	**<50R**	**<1000R**	**<2.0R**	**<2000R**	**<2.0R**	**<2.0R**	**<2.0R**	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	<40
1,1-Dichloroethane	µg/L	0.2	5	<0.50	<0.50	<0.50	**<25R**	**<500R**	**10.4R**	**<500R**	**13.9R**	**15.8R**	**8.38R**	**5.87R**	**7.72R**	**11.6R**	**1.54R**	**<10**
1,2-Dichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	**<25R**	**<500R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**3.99R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<10R**
1,1-Dichloroethylene	µg/L	0.2	14	<0.50	<0.50	<0.50	**<25R**	**<500R**	**53.2R**	**<500R**	**56.7R**	**65.6R**	**5.73R**	**29.7R**	**37.1R**	**45.2R**	**9.23R**	<10
cis-1,2-Dichloroethylene	µg/L	0.5	17	<0.50	<0.50	<0.50	**4300R**	**1640R**	**1450R**	**2250R**	**1250R**	**4110R**	**1960R**	**1320R**	**2000R**	**2840R**	**598R**	**430**
trans-1,2-Dichloroethylene	µg/L	0.5	17	<0.50	<0.50	<0.50	**<25R**	**<500R**	**42.9R**	**<500R**	**28R**	**45.7R**	**15.1R**	**18.3R**	**24.7R**	**31.2R**	**8.3R**	<10
1,2-Dichloropropane	µg/L	0.2	5	<0.50	<0.50	<0.50	**<25R**	**<500R**	**<0.30R**	**<300R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<6.0R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	**<25R**	**<500R**	**<0.30R**	**<300R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<150R**	**<0.30R**	**<0.30R**	<6.0
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	-	-	**<0.50R**	**<420R**	-	**<0.50R**	**<0.50R**	**<0.50R**	**<150R**	**<0.50R**	**<0.50R**	<8.5
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	<0.50	<0.50	**<25R**	**<500R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<10R**
Ethylbenzene	µg/L	0.2	2.4	<0.50	<0.50	<0.50	**<25R**	**<500R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<10R**
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	<0.20	<0.20	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n)	µg/L	0.5	520	<0.50	<0.50	<0.50	-	-	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<10
Methylene Chloride	µg/L	2	50	<5.0	<5.0	<5.0	-	-	**<5.0R**	**<5000R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<100R**
Methyl Ethyl Ketone	µg/L	10	1800	<20	<20	<20	**<1000R**	**<20000R**	**<20R**	**<20000R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<400
Methyl Isobutyl Ketone	µg/L	5	640	<20	<20	<20	**<1000R**	**<20000R**	**<20R**	**<20000R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<400
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	<2.0	<2.0	**<25R**	**<500R**	**<2.0R**	**<2000R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<40R**
Styrene	µg/L	0.5	5.4	<0.50	<0.50	<0.50	**<25R**	**<500R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<10R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	<0.50	<0.50	**<25R**	**<500R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<10R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	<0.50	<0.50	**<25R**	**<500R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<10R**
Tetrachloroethylene	µg/L	0.2	17	<0.50	<0.50	<0.50	**<25R**	**<500R**	**28.8R**	**<500R**	**31.4R**	**60.4R**	**28R**	**40.6R**	**<250R**	**9.96R**	**20.4R**	<10
Toluene	µg/L	0.2	24	<0.50	<0.50	<0.50	**<25R**	**<500R**	**2.11R**	**<500R**	**2R**	**3.03R**	**1.76R**	**1.43R**	**<250R**	**1.02R**	**<0.50R**	<10
1,1,1-Trichloroethane	µg/L	0.2	200	<0.50	<0.50	<0.50	**<25R**	**<500R**	**<0.50R**	**<500R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<25R**	**<0.50R**	<10
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	**<25R**	**<500R**	**<0.50R**	**<500R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<10**
Trichloroethylene	µg/L	0.5	5	<0.50	<0.50	<0.50	**72200R**	**53000R**	**57800R**	**42300R**	**41000R**	**61100R**	**43200R**	**29200R**	**31800R**	**31300R**	**12600R**	**2880**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	<5.0	<5.0	**<50R**	**<1000R**	**<5.0R**	**<5000R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<100
Vinyl Chloride	µg/L	0.2	1.7	<0.50	<0.50	<0.50	**<25R**	**<500R**	**<500R**	**<500R**	**177R**	**117R**	**53R**	**27.2R**	**70.7R**	**21.9R**	**0.65R**	**<10**
o-Xylene	µg/L	0.2	NR	<0.30	<0.30	<0.30	-	**<1000R**	**0.54R**	**<500R**	**0.5R**	-	**<0.40R**	**<0.40R**	**<200R**	**<0.40R**	**<0.40R**	<8.0
m+p-Xylene	µg/L	0.2	NR	<0.40	<0.40	<0.40	-	**<500R**	**0.6R**	**<500R**	**0.57R**	-	**0.39R**	**<0.30R**	**<150R**	**<0.30R**	**<0.30R**	<6.0
Xylene Mixture	µg/L	0.2	300		<0.50	<0.50	**<75R**	**<1500R**	**1.14R**	**<710R**	**1.07R**	**<0.50R**	**<0.50R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	<10

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH7S	BH7S	BH7S	BH7S	BH7S	BH7S	BH7S	BH7S	BH8S	BH8S	BH8S	BH8S	BH8S	BH8S	BH8S
			Sample Name	7	7S	BH7S	BH7S	BH7	7S	BH7	BH7	BH8S	BH8S	BH8S	BH8S	BH8S	BH8S	BH8
			Laboratory ID	L1844588-5	L1925873-5	L2028320-3	L2087604-4	L2195936-4	L2257510-3	L2380423-4	L2443052-3	L962785-7	L1002665-6	L1080092-6	L1143691-5	L1236205-5	L12922007-6	L1387784-6
			Lab Job #	L1844588	L1925873	L2028320	L2087604	L2195936	L2257510	L2380423	L2443052	L962785	L1002665	L1080092	L1143691	L1236205	L12922007	L1387784
			Sampling Date	12-Oct-16	8-May-17	27-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	27-Apr-20	7-Dec-10	30-Apr-11	28-Oct-11	30-Apr-12	6-Nov-12	18-Apr-13	31-Oct-13
			Well Screen Depth (mbgs)	4.1-5.6	4.1-5.6	4.1-5.6	4.1-5.6	4.1-5.6	4.1-5.6	4.1-5.6	4.1-5.6	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10
			Consultant	AB	AB	MTE	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	<30	<30	<30	<30	<30	<30	<30	**<4000R**	**<4000R**	**<30R**	**<15000R**	**<30R**	**<30R**	**<30R**
Benzene	µg/L	0.2	5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.23	**<100R**	**<100R**	**2.31R**	**<250R**	**1.75R**	**2.12R**	**1.38R**
Bromodichloromethane	µg/L	0.5	16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<100R**	**<100R**	**<2.0R**	**<1000R**	**<2.0R**	**<2.0R**	**<2.0R**
Bromoform	µg/L	1	25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<100R**	**<100R**	**<5.0R**	**<2500R**	**<5.0R**	**<5.0R**	**<5.0R**
Bromomethane	µg/L	0.5	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<180R**	**<180R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<0.50R**
Carbon Tetrachloride	µg/L	0.2	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<100R**	**<100R**	**<0.20R**	**<100R**	**<0.20R**	**<0.20R**	**<0.20R**
Chlorobenzene	µg/L	0.2	30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<100R**	**<100R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<0.50R**
Chloroform	µg/L	0.2	22	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	**<100R**	**<100R**	**<1.0R**	**<500R**	**<1.0R**	**4.8R**	**<1.0R**
Dibromochloromethane	µg/L	0.5	25	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<100R**	**<100R**	**<2.0R**	**<1000R**	**<2.0R**	**<2.0R**	**<2.0R**
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<100R**	**<100R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<100R**	**<100R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<0.50R**
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<100R**	**<100R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<0.50R**
Dichlorodifluoromethane	µg/L	1	590	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<200R**	**<200R**	**<2.0R**	**<1000R**	**<2.0R**	**<2.0R**	**<2.0R**
1,1-Dichloroethane	µg/L	0.2	5	2.95	0.51	0.94	<0.50	0.58	<0.50	1.09	**<250**	**<100R**	**<100R**	**5.72R**	**<250R**	**7.24R**	**6.9R**	**5.98R**
1,2-Dichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<100R**	**<100R**	**0.53R**	**<250R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1-Dichloroethylene	µg/L	0.2	14	**18**	3.3	5.65	2.38	3.01	1.15	6.17	**28.3**	**<100R**	**<100R**	**48.3R**	**<250R**	**61.5R**	**59.3R**	**44.2R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	**928**	**252**	**427**	**218**	**272**	**90**	**348**	**3050**	**1560R**	**780R**	**1150R**	**1650R**	**5280R**	**1610R**	**3640R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	12.4	3.23	5.24	2.79	3.52	1.66	5.43	**23.6**	**<100R**	**<100R**	**25.1R**	**<250R**	**30.4R**	**20.6R**	**23.9R**
1,2-Dichloropropane	µg/L	0.2	5	<0.50	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<100R**	**<100R**	**<0.30R**	**<150R**	**<0.30R**	**<0.30R**	**<0.30R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<100R**	**<100R**	**<0.30R**	**<150R**	**<0.30R**	**<0.30R**	**<0.30R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	-	-	**<0.50R**	**<210R**	-	**<0.50R**	**<0.50R**
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<100R**	**<100R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylbenzene	µg/L	0.2	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<100R**	**<100R**	**<0.50R**	**<250R**	**<5.0R**	**<0.50R**	**<0.50R**
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	-	-	-	-	-
Hexane (n)	µg/L	0.5	520	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<0.50R**
Methylene Chloride	µg/L	2	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	-	-	**<5.0R**	**<2500R**	**<5.0R**	**<5.0R**	**<5.0R**
Methyl Ethyl Ketone	µg/L	10	1800	<20	<20	<20	<20	<20	<20	<20	<20	**<4000R**	**<4000R**	**<20R**	**<10000R**	**<20R**	**<20R**	**<20R**
Methyl Isobutyl Ketone	µg/L	5	640	<20	<20	<20	<20	<20	<20	<20	<20	**<4000R**	**<4000R**	**<20R**	**<10000R**	**<20R**	**<20R**	**<20R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<100R**	**<100R**	**<2.0R**	**<1000R**	**<2.0R**	**<2.0R**	**<2.0R**
Styrene	µg/L	0.5	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<100R**	**<100R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<100R**	**<100R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<100R**	**<100R**	**<0.50R**	**<250R**	**<0.50R**	**<0.50R**	**<0.50R**
Tetrachloroethylene	µg/L	0.2	17	**46.1**	11.3	10.20	3.36	2.57	3.17	8.36	**71.90**	**<100R**	**<100R**	**<0.50R**	**<250R**	**0.56R**	**1R**	**<0.50R**
Toluene	µg/L	0.2	24	<0.75	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.56	**<100R**	**<100R**	**<0.50R**	**<250R**	**0.56R**	**<0.50R**	**<0.50R**
1,1,1-Trichloroethane	µg/L	0.2	200	<4.0	<0.50	<10	<0.50	<3.7	<0.50	<0.50	<0.50	**<100R**	**<100R**	**<0.50R**	**<250R**	**<100R**	**<0.50R**	**<0.50R**
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<100R**	**<100R**	**0.56R**	**<250R**	**<0.50R**	**<0.50R**	**1.58R**
Trichloroethylene	µg/L	0.5	5	**18900**	**4810**	**4620**	**1890**	**1640**	**2210**	**5690**	**65400**	**17000R**	**36700R**	**37700R**	**33600R**	**25900R**	**28900R**	**23500R**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<200R**	**<200R**	**<5.0R**	**<2500R**	**<5.0R**	**<5.0R**	**<5.0R**
Vinyl Chloride	µg/L	0.2	1.7	**80.9**	**1.73**	**21.70**	<0.50	**<10**	<0.50	**15.90**	**4.79**	**<100R**	**<100R**	**370R**	**<250R**	**380R**	**<0.50R**	**320R**
o-Xylene	µg/L	0.2	NR	0.37	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	-	**<200R**	**<0.50R**	**<250R**	**0.35R**	-	**<0.40R**
m+p-Xylene	µg/L	0.2	NR	<0.40	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	-	**<100R**	**<0.50R**	**<250R**	**<0.35R**	-	**<0.30R**
Xylene Mixture	µg/L	0.2	300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<300R**	**<300R**	**<0.71R**	**<350R**	**<0.50R**	**<0.50R**	**<0.50R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH8S	BH8S	BH8S	BH8S	BH8S	BH8S	BH8S	BH8S	BH8S0	BH8S	BH8S	BH8S	BH8S	BH8S	BH9S
			Sample Name	8	8	8	8	8	8	8S	BH8S	BH8S0	BH8S	BH8	8S	BH8	BH8	BH9S
			Laboratory ID	L1453521-5	L1533716-6	L1609442-7	L1699659-6	L1762380-6	L1844588-6	L1925873-6	L2028320-4	L2028320-17	L2087604-5	L2195936-5	L2257510-4	L2380423-5	L2443052-4	L962785-8
			Lab Job #	L1453521	L1533716	L1609442	L1699659	L1762380	L1844588	L1925873	L2028320	L2028320	L2087604	L2195936	L2257510	L2380423	L2443052	L962785
			Sampling Date	8-May-14	15-Oct-14	6-May-15	4-Nov-15	27-Apr-16	12-Oct-16	8-May-17	27-Nov-17	27-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	27-Apr-20	7-Dec-10
			Well Screen Depth (mbgs)	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10	4.58-6.10	4.3-5.8
			Consultant	AB	AB	AB	AB	AB	AB	AB	MTE	MTE	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)									*Field duplicate sample of BH8S*						
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<30R**	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	**<400R**
Benzene	µg/L	0.2	5	**2.1R**	**1.63R**	**2.26R**	**2.2R**	1.64	1.81	2	1.69	1.74	2.30	2.81	2.61	3.15	2.48	**<10R**
Bromodichloromethane	µg/L	0.5	16	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<10R**
Bromoform	µg/L	1	25	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<10R**
Bromomethane	µg/L	0.5	0.89	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<18R**
Carbon Tetrachloride	µg/L	0.2	5	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<10R**
Chlorobenzene	µg/L	0.2	30	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<10R**
Chloroform	µg/L	0.2	22	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	**<10R**
Dibromochloromethane	µg/L	0.5	25	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<10R**
1,2-Dichlorobenzene	µg/L	0.5	3	**<0.20R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<10R**
1,3-Dichlorobenzene	µg/L	0.5	59	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<10R**
1,4-Dichlorobenzene	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<10R**
Dichlorodifluoromethane	µg/L	1	590	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<20R**
1,1-Dichloroethane	µg/L	0.2	5	**8.07R**	**6.22R**	**6.42R**	**8.9R**	**5.85**	**6.25**	**5.43**	**6.53**	**6.51**	**5.97**	**6.20**	4.67	**5.05**	**<250**	**<10R**
1,2-Dichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.85	0.71	**<10R**
1,1-Dichloroethylene	µg/L	0.2	14	**63.5R**	**62.5R**	**63.7R**	**80.1R**	**41.5**	**51.1**	**63.4**	**55.40**	**53.60**	**78.90**	**92.50**	**89.90**	**119**	**81**	**<10R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	**2210R**	**3460R**	**2620R**	**7790R**	**3850**	**2920**	**6050**	**7180**	**6850**	**4300**	**6560**	**4280**	**6120**	**6470**	**395R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	**23.4R**	**36.3R**	**25R**	**48.6R**	**25.7**	**22.60**	**43.9**	**48.70**	**44.40**	**38.60**	**55.60**	**36.20**	**56.1**	**50.8**	**<10R**
1,2-Dichloropropane	µg/L	0.2	5	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<10R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<10R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	-
1,3-Dichloropropene	µg/L	0.5	0.5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<10R**
Ethylbenzene	µg/L	0.2	2.4	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<10R**
Ethylene Dibromide	µg/L	0.2	0.2	-	-	-	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-
Hexane (n)	µg/L	0.5	520	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-
Methylene Chloride	µg/L	2	50	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	-
Methyl Ethyl Ketone	µg/L	10	1800	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	**<400R**
Methyl Isobutyl Ketone	µg/L	5	640	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	**<400R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<10R**
Styrene	µg/L	0.5	5.4	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<10R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<10R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<10R**
Tetrachloroethylene	µg/L	0.2	17	**1.03R**	**<130R**	**1.06R**	**<0.50R**	<0.50	<0.50	0.79	<0.50	<0.50	1.12	1.46	1.56	1.73	1.64	**<10R**
Toluene	µg/L	0.2	24	**<0.50R**	**<0.50R**	**<0.50R**	**0.51R**	<0.50	<0.56	0.52	<0.70	<0.70	<0.50	0.81	<0.50	0.78	0.63	**<10R**
1,1,1-Trichloroethane	µg/L	0.2	200	**<0.50R**	**<1.1R**	**<25R**	**<2.5R**	<0.50	<0.50	<0.50	<170	<160	<4.4	<15	<0.50	<1.1	<0.50	**<10R**
1,1,2-Trichloroethane	µg/L	0.5	5	**1.83R**	**<130R**	**<1.6R**	**0.61R**	<0.50	<0.50	<0.50	<0.50	<0.50	1.72	2.32	2.96	3.15	2.46	**<10R**
Trichloroethylene	µg/L	0.5	5	**29300R**	**24200R**	**36100R**	**26800R**	**21200**	**21100**	**29000**	**25500**	**25000**	**36300**	**52600**	**66200**	**59000**	**54500**	**1090R**
Trichlorofluoromethane	µg/L	0.5	150	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<20R**
Vinyl Chloride	µg/L	0.2	1.7	**8.54R**	**300R**	**6.69R**	**560R**	**3.99**	**115**	**223**	**415**	**376**	**10**	**<250**	**4**	**136**	**12**	**79R**
o-Xylene	µg/L	0.2	NR	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	<0.30	-
m+p-Xylene	µg/L	0.2	NR	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	-
Xylene Mixture	µg/L	0.2	300	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<30R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH9S	BH9S	BH9S	BH9S	BH9S	BH9S	BH9S	BH9S	BH9S	BH9S	BH9S	BH9S	BH9S	BH9S	BH9S
			Sample Name	BH9S	BH9S	BH9S	BH9	BH9	BH9	9	9	BH9	9	BH9	9	9S	BH9S	BH9S
			Laboratory ID	L1002665-7	L1080092-7	L1143691-6	L1236205-6	L12922007-7	L1387784-7	L1453521-6	L1533716-7	L1609442-8	L1699659-7	L1762380-7	L1844588-7	L1925873-7	L2028320-5	L2087604-6
			Lab Job #	L1002665	L1080092	L1143691	L1236205	L12922007	L1387784	L1453521	L1533716	L1609442	L1699659	L1762380	L1844588	L1925873	L2028320	L2087604
			Sampling Date	30-Apr-11	28-Oct-11	30-Apr-12	6-Nov-12	18-Apr-13	31-Oct-13	8-May-14	15-Oct-14	6-May-15	4-Nov-15	27-Apr-16	12-Oct-16	8-May-17	27-Nov-17	26-Apr-18
			Well Screen Depth (mbgs)	4.3-5.8	4.3-5.8	4.3-5.8	4.3-5.8	4.3-5.8	4.3-5.8	4.3-5.8	4.3-5.8	4.3-5.8	4.3-5.8	4.3-5.8	4.3-5.8	4.3-5.8	4.3-5.8	4.3-5.8
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	MTE	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<400R**	**<30R**	**<600R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<300	<30	<30	<30	<30
Benzene	µg/L	0.2	5	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<5.0	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	**<10R**	**<2.0R**	**<40R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<20R**	<2.0	<2.0	<2.0	<2.0
Bromoform	µg/L	1	25	**<10R**	**<5.0R**	**<100R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<50R**	<5.0	<5.0	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	**<18R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<5.0R**	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	**<10R**	**<0.20R**	**<4.0R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<2.0	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<5.0	<0.50	<0.50	<0.50	<0.50
Chloroform	µg/L	0.2	22	**<10R**	**<1.0R**	**<20R**	**<1.0R**	**4.8R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<10	<1.0	<1.0	<2.0	<1.0
Dibromochloromethane	µg/L	0.5	25	**<10R**	**<2.0R**	**<40R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<20	<2.0	<2.0	<1.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<5.0R**	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<5.0	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<5.0R**	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	**<20R**	**<2.0R**	**<40R**	**<2.0R**	**<2.0R**	**<2.0R**	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	<20	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<5.0	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	µg/L	0.5	5	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<5.0	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	**<10R**	**2.9R**	**<10R**	**6.51R**	**2.28R**	**5.35R**	**1.93R**	**5.7R**	**3.96R**	**5.6R**	5.6	3.42	1.64	1.97	2.99
cis-1,2-Dichloroethylene	µg/L	0.5	17	**177R**	**708R**	**117R**	**1610R**	**121R**	**1850R**	**131R**	**1200R**	**128R**	**113R**	**318**	**228**	**110**	**76.30**	**94**
trans-1,2-Dichloroethylene	µg/L	0.5	17	**<10R**	**5.85R**	**<10R**	**8.42R**	**1.67R**	**8.05R**	**1.9R**	**5.89R**	**1.97R**	**2.49R**	<5.0	2.11	1.45	1.72	1.52
1,2-Dichloropropane	µg/L	0.2	5	**<10R**	**<0.30R**	**<6.0R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<3.0	<0.50	<0.30	<0.50	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<10R**	**<0.30R**	**<6.0R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<3.0	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	-	**<0.50R**	**<8.5R**	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<4.2	<0.30	<0.50	<0.30	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<5.0R**	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<5.0R**	<0.50	<0.50	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	-	-	-	-	-	-	-	-	-	-	-	<0.20	-	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	-	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<5.0	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	2	50	-	**<5.0R**	**<100R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<50	<5.0	<5.0	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	**<400R**	**<20R**	**<400R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<200	<20	<20	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	**<400R**	**<20R**	**<400R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<200	<20	<20	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<10R**	**<2.0R**	**<40R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<20R**	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	0.5	5.4	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<5.0	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<5.0R**	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<5.0R**	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<5.0	<0.50	<0.50	<0.50	<0.50
Toluene	µg/L	0.2	24	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<5.0	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	**<10R**	**<0.50R**	**<10R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<2.3R**	**<0.50R**	<5.0	<0.50	<0.50	<2.0	<0.50
1,1,2-Trichloroethane	µg/L	0.5	5	**<10R**	**<0.50R**	**<10R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<5.0	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**1780R**	**965R**	**1240R**	**684R**	**1230R**	**109R**	**1250R**	**289R**	**1230R**	**1080R**	**801**	**790**	**920**	**1270**	**1210**
Trichlorofluoromethane	µg/L	0.5	150	**<20R**	**<5.0R**	**<100R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<50	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	**<10R**	**107R**	**<10R**	**25.6R**	**1.26R**	**29.8R**	**2.38R**	**4.4R**	**<0.50R**	**<0.50R**	**<5.0**	<0.50	0.71	**5.32**	0.69
o-Xylene	µg/L	0.2	NR	**<20R**	**<0.50R**	**<10R**	**<0.35R**	-	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<4.0	<0.30	<0.40	<0.30	<0.30
m+p-Xylene	µg/L	0.2	NR	**<10R**	**<0.50R**	**<10R**	**<0.35R**	-	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<3.0	<0.40	<0.30	<0.40	<0.40
Xylene Mixture	µg/L	0.2	300	**<30R**	**<0.71R**	**<14R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<5.0	<0.50	<0.50	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH9S	BH9S	BH9S	BH9S	BH9S	BH10S	BH10S	BH10S	BH10S	BH10S	BH10S	BH10S	BH10S	BH10S	BH10S
			Sample Name	BH9	9S	BH9	A	BH9	BH10S	BH10S	BH10S	BH10S	BH10	BH10	BH10	10	B	10
			Laboratory ID	L2195936-6	L2257510-5	L2380423-6	L2380426-12	L2443052-5	L962785-9	L1002665-8	L1080092-8	L1143691-7	L1236205-7	L12922007-8	L1387784-8	L1453521-7	L1453521-11	L1533716-8
			Lab Job #	L2195936	L2257510	L2380423	L2380426	L2443052	L962785	L1002665	L1080092	L1143691	L1236205	L12922007	L1387784	L1453521	L1453521	L1533716
			Sampling Date	9-Nov-18	10-Apr-19	5-Nov-19	5-Nov-19	27-Apr-20	7-Dec-10	30-Apr-11	28-Oct-11	30-Apr-12	6-Nov-12	18-Apr-13	31-Oct-13	8-May-14	8-May-14	15-Oct-14
			Well Screen Depth (mbgs)	4.3-5.8	4.3-5.8	4.3-5.8	4.3-5.8	4.3-5.8	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)				*Field duplicate sample of BH9S*										*Field duplicate sample of BH10S*	
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	<30	<30	<30	<30	**<20R**	**<20R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**
Benzene	µg/L	0.2	5	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Bromodichloromethane	µg/L	0.5	16	<2.0	<2.0	<2.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**
Bromoform	µg/L	1	25	<5.0	<5.0	<5.0	<5.0	<5.0	**<0.50R**	**<0.50R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**
Bromomethane	µg/L	0.5	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.90R**	**<0.90R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Carbon Tetrachloride	µg/L	0.2	5	<0.20	<0.20	<0.20	<0.20	<0.20	**<0.50R**	**<0.50R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**
Chlorobenzene	µg/L	0.2	30	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Chloroform	µg/L	0.2	22	<1.0	<1.0	<1.0	<1.0	<1.0	**<0.50R**	**<0.50R**	**<1.0R**	**<1.0R**	**<1.0R**	**4.8R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**
Dibromochloromethane	µg/L	0.5	25	<2.0	<2.0	<2.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.20R**	-	**<0.50R**
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	-	**<0.50R**
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	-	**<0.50R**
Dichlorodifluoromethane	µg/L	1	590	<2.0	<2.0	<2.0	<2.0	<2.0	**<1.0R**	**<1.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<0.50R**	-	**<2.0R**
1,1-Dichloroethane	µg/L	0.2	5	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,2-Dichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1-Dichloroethylene	µg/L	0.2	14	4.42	2.73	4.28	4.60	1.81	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	**1010**	**113**	**852**	**818**	**134**	**<0.50R**	**<0.50R**	**0.52R**	**2.04R**	**16.9R**	**13.3R**	**22.9R**	**52.8R**	**55.6R**	**99.8R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	8.00	2.27	5.25	5.50	2.44	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,2-Dichloropropane	µg/L	0.2	5	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.50R**	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	<0.30	<0.30	-	-	**<0.50R**	**<0.50R**	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylbenzene	µg/L	0.2	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	-	-	-	-	-	-	-	-
Hexane (n)	µg/L	0.5	520	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Methylene Chloride	µg/L	2	50	<5.0	<5.0	<5.0	<5.0	<5.0	-	-	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**
Methyl Ethyl Ketone	µg/L	10	1800	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**
Methyl Isobutyl Ketone	µg/L	5	640	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	<2.0	<2.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**
Styrene	µg/L	0.5	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Tetrachloroethylene	µg/L	0.2	17	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Toluene	µg/L	0.2	24	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1-Trichloroethane	µg/L	0.2	200	<2.5	<0.50	<0.50	<2.5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Trichloroethylene	µg/L	0.5	5	**34**	**1140**	**91**	**66**	**912**	**0.72R**	**<0.50R**	**0.64R**	**<0.50R**	**<0.50R**	**2.46R**	**0.53R**	**0.54R**	**0.84R**	**0.66R**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	<5.0	<5.0	<5.0	<5.0	**<1.0R**	**<1.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**
Vinyl Chloride	µg/L	0.2	1.7	**6.60**	<0.50	**18.90**	**19.70**	<0.50	**0.85R**	**<0.50R**	**1.55R**	**0.6R**	**1.85R**	**<0.50R**	**1.24R**	**1.15R**	**1.27R**	**2.22R**
o-Xylene	µg/L	0.2	NR	<0.30	<0.30	<0.30	<0.30	<0.30	-	**<1.0R**	**<0.50R**	**<0.50R**	**<0.35R**	-	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**
m+p-Xylene	µg/L	0.2	NR	<0.40	<0.40	<0.40	<0.40	<0.40	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.35R**	-	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**
Xylene Mixture	µg/L	0.2	300	<0.50	<0.50	<0.50	<0.50	<0.50	**<1.5R**	**<1.5R**	**<0.71R**	**<0.71R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH10S	BH10S	BH10S	BH10S	BH10S	BH10S	BH10S	BH10S	BH10S	BH10S	BH10S	BH12D	BH12D	BH12D	BH12D
			Sample Name	BH10	10	BH10	10	10S	BH10S	BH10S	BH10	10S	BH10	BH10	BH12D	BH12D	BH12D	BH12D
			Laboratory ID	L1609442-9	L1699659-8	L1762380-8	L1844588-8	L1925873-8	L2028320-6	L2087604-7	L2195936-7	L2257510-6	L2380423-7	L2443052-6	L962785-10	L1002665-9	L1080092-9	L1143691-8
			Lab Job #	L1609442	L1699659	L1762380	L1844588	L1925873	L2028320	L2087604	L2195936	L2257510	L2380423	L2443052	L962785	L1002665	L1080092	L1143691
			Sampling Date	6-May-15	4-Nov-15	27-Apr-16	12-Oct-16	8-May-17	27-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	27-Apr-20	7-Dec-10	30-Apr-11	28-Oct-11	30-Apr-12
			Well Screen Depth (mbgs)	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0	4.5-6.0	6.8-8.3	6.8-8.3	6.8-8.3	6.8-8.3
			Consultant	AB	AB	AB	AB	AB	MTE	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<30R**	**<30R**	<30	<30	<30	<30	<30	<30	<30	<30	<30	**<20R**	**<20R**	**<30R**	**<30R**
Benzene	µg/L	0.2	5	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Bromodichloromethane	µg/L	0.5	16	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**	**<2.0R**
Bromoform	µg/L	1	25	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<0.50R**	**<0.50R**	**<5.0R**	**<5.0R**
Bromomethane	µg/L	0.5	0.89	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.90R**	**<0.90R**	**<0.50R**	**<0.50R**
Carbon Tetrachloride	µg/L	0.2	5	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<0.50R**	**<0.50R**	**<0.20R**	**<0.20R**
Chlorobenzene	µg/L	0.2	30	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Chloroform	µg/L	0.2	22	**<1.0R**	**<1.0R**	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	**<0.50R**	**<0.50R**	**<1.0R**	**<1.0R**
Dibromochloromethane	µg/L	0.5	25	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**	**<2.0R**
1,2-Dichlorobenzene	µg/L	0.5	3	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichlorobenzene	µg/L	0.5	59	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,4-Dichlorobenzene	µg/L	0.5	1	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Dichlorodifluoromethane	µg/L	1	590	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<1.0R**	**<1.0R**	**<2.0R**	**<2.0R**
1,1-Dichloroethane	µg/L	0.2	5	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,2-Dichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1-Dichloroethylene	µg/L	0.2	14	**<0.50R**	**<0.50R**	<0.50	<0.50	0.72	4.33	3.10	0.89	6.18	2.18	4.56	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	**27.7R**	**15.2R**	**57.8**	**357**	**734**	**1740**	**1320**	**363**	**2430**	**842**	**1530**	**0.75R**	**0.72R**	**<0.50R**	**0.95R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	**<0.50R**	**<0.50R**	<0.50	<0.50	0.5	2.00	1.64	0.54	4.69	2.43	10.70	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,2-Dichloropropane	µg/L	0.2	5	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.30R**	**<0.30R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.50R**	**<0.50R**	**<0.30R**	**<0.30R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	-	-	**<0.50R**	**<0.50R**
1,3-Dichloropropene	µg/L	0.5	0.5	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylbenzene	µg/L	0.2	2.4	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylene Dibromide	µg/L	0.2	0.2	-	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	-	-
Hexane (n)	µg/L	0.5	520	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	**<0.50R**	**<0.50R**
Methylene Chloride	µg/L	2	50	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	-	-	**<5.0R**	**<5.0R**
Methyl Ethyl Ketone	µg/L	10	1800	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	**<20R**
Methyl Isobutyl Ketone	µg/L	5	640	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	**<20R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**	**<2.0R**
Styrene	µg/L	0.5	5.4	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Tetrachloroethylene	µg/L	0.2	17	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Toluene	µg/L	0.2	24	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1-Trichloroethane	µg/L	0.2	200	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<38	<0.83	<0.90	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2-Trichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Trichloroethylene	µg/L	0.5	5	**<0.50R**	**<0.50R**	<0.50	3.12	<2.5	**6.40**	<5.0	<5.0	**<10**	<5.0	<5.0	**1.36R**	**1.21R**	**<0.50R**	**1.11R**
Trichlorofluoromethane	µg/L	0.5	150	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<1.0R**	**<1.0R**	**<5.0R**	**<5.0R**
Vinyl Chloride	µg/L	0.2	1.7	**<0.50R**	**<0.50R**	0.7	**3.01**	**1.86**	**5.85**	**3.01**	**<20**	**7.42**	**25.80**	1.04	**0.85R**	**<0.50R**	**<0.50R**	**<0.50R**
o-Xylene	µg/L	0.2	NR	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	-	**<1.0R**	**<0.50R**	**<0.50R**
m+p-Xylene	µg/L	0.2	NR	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	-	**<0.50R**	**<0.50R**	**<0.50R**
Xylene Mixture	µg/L	0.2	300	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<1.5R**	**<1.5R**	**<0.71R**	**<0.71R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH12D	BH12D	BH12D	BH12D	BH12D	BH12D	BH12D	BH12D	BH12D	BH12D	BH12D	BH12D	BH12D	BH12D	BH12D
			Sample Name	BH12D	BH12	BH12	12	12	BH12	12	12	12	12D	BH12D	BH12	12D	BH12	BH12
			Laboratory ID	L1236205-8	L12922007-10	L1387784-9	L1453521-8	L1533716-9	L1609442-10	L1699659-9	L1762380-9	L1844588-9	L1925873-9	L2029000-1	L2087604-8	L2195936-8	L2257510-7	L2380423-8
			Lab Job #	L1236205	L12922007	L1387784	L1453521	L1533716	L1609442	L1699659	L1762380	L1844588	L1925873	L2029000	L2087604	L2195936	L2257510	L2380423
			Sampling Date	6-Nov-12	18-Apr-13	31-Oct-13	8-May-14	15-Oct-14	6-May-15	4-Nov-15	27-Apr-16	12-Oct-16	8-May-17	28-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19
			Well Screen Depth (mbgs)	6.8-8.3	6.8-8.3	6.8-8.3	6.8-8.3	6.8-8.3	6.8-8.3	6.8-8.3	6.8-8.3	6.8-8.3	6.8-8.3	6.8-8.3	6.8-8.3	6.8-8.3	6.8-8.3	6.8-8.3
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	MTE	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	<30	<30	<30	<30
Benzene	µg/L	0.2	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	µg/L	1	25	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	µg/L	0.2	22	**<1.0R**	**4.8R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	**<0.50R**	**<0.50R**	**<0.50R**	**<0.20R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	**<2.0R**	**<2.0R**	**<2.0R**	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	µg/L	0.5	17	**1.35R**	**1.94R**	**1.01R**	**0.98R**	**0.93R**	**6.19R**	**3.85R**	12.5	13.6	4.35	0.91	0.76	1.10	0.73	0.59
trans-1,2-Dichloroethylene	µg/L	0.5	17	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	µg/L	0.2	5	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	-	-	-	-	-	-	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	2	50	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	0.5	5.4	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	µg/L	0.2	24	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**1.8R**	**3.76R**	**1.93R**	**1.39R**	**1.34R**	**14.3R**	**9.7R**	**30.9**	**53**	**14.4**	1.18	1.53	2.09	2.01	2.58
Trichlorofluoromethane	µg/L	0.5	150	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	**<0.50R**	**<0.50R**	**1.24R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	0.51	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene	µg/L	0.2	NR	**<0.35R**	-	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30
m+p-Xylene	µg/L	0.2	NR	**<0.35R**	-	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene Mixture	µg/L	0.2	300	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH12D	BH13D	BH13D	BH13D	BH13D	BH13D	BH13D	BH13D	BH13D	BH13D	BH13D	BH13D	BH13D	BH13D	BH13D
			Sample Name	BH12	BH13D	13	13	BH13	13	BH13	BH13	13D	BH13D	BH13D	BH13D	BH13	13D	BH13
			Laboratory ID	L2443052-7	L1080092-10	L1453521-9	L1533716-10	L1609442-11	L1699659-10	L1762380-10	L1844588-10	L1925873-10	L2029000-2	L2118439-1	L2087604-9	L2195936-9	L2257510-8	L2380423-9
			Lab Job #	L2443052	L1080092	L1453521	L1533716	L1609442	L1699659	L1762380	L1844588	L1925873	L2029000	L2118439	L2087604	L2195936	L2257510	L2380423
			Sampling Date	27-Apr-20	28-Oct-11	8-May-14	15-Oct-14	6-May-15	4-Nov-15	27-Apr-16	12-Oct-16	8-May-17	28-Nov-17	22-Jun-18	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19
			Well Screen Depth (mbgs)	6.8-8.3	6.83-8.35	6.83-8.35	6.83-8.35	6.83-8.35	6.83-8.35	6.83-8.35	6.83-8.35	6.83-8.35	6.83-8.35	6.83-8.35	6.83-8.35	6.83-8.35	6.83-8.35	6.83-8.35
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	MTE	MTE	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	-	<30	<30	<30	<30
Benzene	µg/L	0.2	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	0.54	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0
Bromoform	µg/L	1	25	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50
Chloroform	µg/L	0.2	22	<1.0	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	<2.0	**<2.0R**	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	3.04	-	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	µg/L	0.5	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	<0.50	**<0.50R**	**1.96R**	**1.52R**	**0.59R**	**<0.50R**	<0.50	<0.50	0.68	**22.50**	-	1.3	2.74	<2.5	1.8
cis-1,2-Dichloroethylene	µg/L	0.5	17	0.62	**46.4R**	**268R**	**457R**	**206R**	**136R**	**87.8**	**78.6**	**186**	**1270**	-	**139**	**525**	**350**	**350**
trans-1,2-Dichloroethylene	µg/L	0.5	17	<0.50	**<0.50R**	**1.04R**	**1.76R**	**0.9R**	**0.54R**	0.55	<0.50	1.18	14.60	-	1.07	4.35	4.9	2.17
1,2-Dichloropropane	µg/L	0.2	5	<0.50	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.30	<0.50	-	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	-	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.50	<0.30	-	<0.30	<0.30	<0.30	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	-	-	-	-	-	-	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	2	50	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	-	<20	<20	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	-	<20	<20	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	0.5	5.4	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	3.08	-	<0.50	<0.50	<0.50	<0.50
Toluene	µg/L	0.2	24	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	0.55	0.53	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<3.7R**	**<0.50R**	<0.50	<0.50	<0.50	<31	-	<0.50	<1.3	<0.50	<0.50
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	-	<0.50	0.64	0.6	<0.50
Trichloroethylene	µg/L	0.5	5	2.23	**23.5R**	**1040R**	**100R**	**254R**	**158R**	**146**	**97**	**339**	**15400**	-	**901**	**2350**	**574**	**1100**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	<0.50	**<0.50R**	**3.99R**	**1.72R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**283**	-	<0.50	**<13**	<0.50	<0.50
o-Xylene	µg/L	0.2	NR	<0.30	**<0.50R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.40	<0.30	<0.40	<0.30	<0.30	<0.30	<0.30
m+p-Xylene	µg/L	0.2	NR	<0.40	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.30	<0.40	<0.30	<0.40	<0.40	<0.40	<0.40
Xylene Mixture	µg/L	0.2	300	<0.50	**<0.71R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH13D	BH14D	BH14D	BH14D	BH14D	BH14D	BH14D	BH14D	BH14D	BH14D	BH14D	BH14D	BH14D	BH14D
			Sample Name	BH13	BH14D	14	14	14	14	14	BH14	14	14D	BH14D	BH14	BH14	BH14
			Laboratory ID	L2443052-8	L1080092-11	L1453521-10	L1455288-16	L1533716-11	L1609442-12	L1699659-11	L1762380-11	L1844588-11	L1925873-11	L2029000-3	L2087604-10	L2195936-10	L2257510-9	L2380423-10
			Lab Job #	L2443052	L1080092	L1453521	L1455288	L1533716	L1609442	L1699659	L1762380	L1844588	L1925873	L2029000	L2087604	L2195936	L2257510	L2380423
			Sampling Date	27-Apr-20	28-Oct-11	8-May-14	12-May-14	15-Oct-14	6-May-15	4-Nov-15	27-Apr-16	12-Oct-16	8-May-17	28-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19
			Well Screen Depth (mbgs)	6.83-8.35	7.23-8.75	7.23-8.75	7.23-8.75	7.23-8.75	7.23-8.75	7.23-8.75	7.23-8.75	7.23-8.75	7.23-8.75	7.23-8.75	7.23-8.75	7.23-8.75	7.23-8.75	7.23-8.75
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	MTE	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	**<1200R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	<30	<30	<30	<30
Benzene	µg/L	0.2	5	<0.50	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	<2.0	**<80R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	µg/L	1	25	<5.0	**<200R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	<0.50	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	<0.20	**<8.0R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	<0.50	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	µg/L	0.2	22	<1.0	**<40R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	<2.0	**<80R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	**<20R**	**<0.20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	<2.0	**<80R**	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	<0.50	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	µg/L	0.5	5	<0.50	**<20R**	**37R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	2.36	**<20R**	**<0.50R**	**<0.50R**	**3.17R**	**0.85R**	**1.59R**	3.59	2.9	3.24	5.49	4.43	4.03	3.46	<0.50
cis-1,2-Dichloroethylene	µg/L	0.5	17	**866**	**635R**	**227R**	**1.89R**	**231R**	**190R**	**258R**	**307**	**247**	**289**	**420**	**406**	**586**	**403**	9
trans-1,2-Dichloroethylene	µg/L	0.5	17	14.5	**<20R**	**<0.50R**	**<0.50R**	**3.15R**	**1.64R**	**1.93R**	<5.0	1.44	2.02	5.02	2.55	9.54	3.31	<0.50
1,2-Dichloropropane	µg/L	0.2	5	<0.50	**<12R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	**<12R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	**<17R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	<0.50	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	-	-	-	-	-	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	<0.50	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	2	50	<5.0	**<200R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	<20	**<800R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	<20	**<800R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	**<80R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	0.5	5.4	<0.50	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	<0.50	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	µg/L	0.2	24	<0.50	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	<0.50	**<20R**	**0.5R**	**<0.50R**	**<0.50R**	**<2.7R**	**<0.50R**	<0.50	<0.50	<0.50	<10	<0.50	<1.7	<0.50	<0.50
1,1,2-Trichloroethane	µg/L	0.5	5	0.54	**<20R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**676**	**583R**	**443R**	**2.46R**	**478R**	**135R**	**705R**	**1200**	**1180**	**1480**	**2270**	**1700**	**1830**	**1470**	**36**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	**<200R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	0.71	**<20R**	**<0.50R**	**<0.50R**	**0.82R**	**<0.50R**	**3.86R**	<0.50	0.7	<0.50	**17.30**	0.86	**30.00**	<0.50	<0.50
o-Xylene	µg/L	0.2	NR	<0.30	**<20R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30
m+p-Xylene	µg/L	0.2	NR	<0.40	**<20R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene Mixture	µg/L	0.2	300	<0.50	**<28R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH14D	BH14D	BH15D	BH15D	BH15D	BH15D	BH15D	BH15D	BH15D	BH15D	BH15D	BH15D	BH15D	BH15D	BH15D
			Sample Name	BH14	A	BH15D	BH15D	BH15D	BH15D	BH15D	BH15	BH15	15	15	BH15	15	15	15
			Laboratory ID	L2443052-9	L2443052-17	L962785-11	L1002665-10	L1080092-12	L1143691-9	L1236205-9	L12922007-11	L1387784-10	L1453930-2	L1533716-12	L1609442-13	L1699659-12	L1762380-12	L1844588-12
			Lab Job #	L2443052	L2443052	L962785	L1002665	L1080092	L1143691	L1236205	L12922007	L1387784	L1453930	L1533716	L1609442	L1699659	L1762380	L1844588
			Sampling Date	27-Apr-20	27-Apr-20	7-Dec-10	30-Apr-11	28-Oct-11	30-Apr-12	6-Nov-12	18-Apr-13	31-Oct-13	9-May-14	15-Oct-14	6-May-15	4-Nov-15	27-Apr-16	12-Oct-16
			Well Screen Depth (mbgs)	7.23-8.75	7.23-8.75	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	<30	**<2000R**	**<4000R**	**<6000R**	**<12000R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	<30
Benzene	µg/L	0.2	5	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**0.63R**	**0.6R**	**0.83R**	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	<2.0	<2.0	**<50R**	**<100R**	**<400R**	**<800R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0
Bromoform	µg/L	1	25	<5.0	<5.0	**<50R**	**<100R**	**<1000R**	**<2000R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	<0.50	<0.50	**<90R**	**<180R**	**<100R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	<0.20	<0.20	**<50R**	**<100R**	**<40R**	**<80R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Chloroform	µg/L	0.2	22	<1.0	<1.0	**<50R**	**<100R**	**<200R**	**<400R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	<2.0	<2.0	**<50R**	**<100R**	**<400R**	**<800R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	<2.0	<2.0	**<100R**	**<200R**	**<400R**	**<800R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**0.83R**	**0.58R**	**0.55R**	**<0.50R**	**0.65R**	**0.55R**	**0.85R**	1.54	<0.50
1,2-Dichloroethane	µg/L	0.5	5	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	3.03	3.10	**<50R**	**<100R**	**<100R**	**<200R**	**10.6R**	**4.28R**	**5.16R**	**<25R**	**11.9R**	**10.3R**	**15.8R**	1.94	5.23
cis-1,2-Dichloroethylene	µg/L	0.5	17	**331**	**346**	**432R**	**510R**	**730R**	**1050R**	**612R**	**672R**	**584R**	**521R**	**900R**	**781R**	**1020R**	**411**	**459**
trans-1,2-Dichloroethylene	µg/L	0.5	17	5.38	6.16	**<50R**	**<100R**	**<100R**	**<200R**	**6.48R**	**5.6R**	**4.77R**	**4.11R**	**8.71R**	**8.54R**	**11.3R**	5.61	5.45
1,2-Dichloropropane	µg/L	0.2	5	<0.50	<0.50	**<50R**	**<100R**	**<60R**	**<120R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	**<50R**	**<100R**	**<60R**	**<120R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	-	-	**<85R**	**<170R**	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	<0.20	-	-	-	-	-	-	-	-	-	-	-	-	<0.20
Hexane (n)	µg/L	0.5	520	<0.50	<0.50	-	-	**<100R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Methylene Chloride	µg/L	2	50	<5.0	<5.0	-	-	**<1000R**	**<2000R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	<20	<20	**<2000R**	**<4000R**	**<4000R**	**<8000R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	<20	<20	**<2000R**	**<4000R**	**<4000R**	**<8000R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	<2.0	**<50R**	**<100R**	**<400R**	**<800R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0
Styrene	µg/L	0.5	5.4	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**0.96R**	**0.78R**	**0.97R**	**<25R**	**0.83R**	**0.83R**	**1.18R**	<0.50	0.740
Toluene	µg/L	0.2	24	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**<50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<16R**	**<0.50R**	<0.50	<0.50
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	<0.50	**<50R**	**<100R**	**<100R**	**<200R**	**<0.50R**	**0.77R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**1090**	**1050**	**12500R**	**13700R**	**19800R**	**7720R**	**6410R**	**7690R**	**6570R**	**6440R**	**8550R**	**8920R**	**11000R**	2.72	**5210**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	<5.0	**<100R**	**<200R**	**<1000R**	**<2000R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	**4.44**	**4.79**	**<50R**	**<100R**	**<100R**	**<200R**	**29.6R**	**0.76R**	**<0.50R**	**<0.50R**	**54.1R**	**28.5R**	**45.4R**	**245**	0.53
o-Xylene	µg/L	0.2	NR	<0.30	<0.30	-	**<200R**	**<100R**	**<200R**	**<0.35R**	-	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.30
m+p-Xylene	µg/L	0.2	NR	<0.40	<0.40	-	**<100R**	**<100R**	**<200R**	**<0.35R**	-	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40
Xylene Mixture	µg/L	0.2	300	<0.50	<0.50	**<150R**	**<300R**	**<140R**	**<280R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH15D	BH15D	BH15D	BH15D	BH15D	BH15D	BH15D	BH15D	BH22S	BH22S	BH22S	BH22S	BH22S	BH22S	BH22S
			Sample Name	15D	BH15D	BH15D	BH15	15	BH15	B	BH15	BH22S	22S	BH22S	BH22S	BH22S	BH22	BH22S
			Laboratory ID	L1925873-12	L2029000-4	L2087604-17	L2195936-13	L2257510-10	L2380423-11	L2380427-1	L2443052-10	L962785-31	L1002665-32	L1080092-20	L1143691-15	L1236205-16	L12922007-19	L1387784-18
			Lab Job #	L1925873	L2029000	L2087604	L2195936	L2257510	L2380423	L2380427	L2443052	L962785	L1002665	L1080092	L1143691	L1236205	L12922007	L1387784
			Sampling Date	8-May-17	28-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	5-Nov-19	27-Apr-20	7-Dec-10	30-Apr-11	28-Oct-11	30-Apr-12	6-Nov-12	18-Apr-13	31-Oct-13
			Well Screen Depth (mbgs)	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3	8.8-10.3	5.6-7.1	5.6-7.1	5.6-7.1	5.6-7.1	5.6-7.1	5.6-7.1	5.6-7.1
			Consultant	AB	MTE	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)							*Field duplicate sample of BH15D*								
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	<30	<30	<30	<30	<30	<30	<30	**<100R**	**<100R**	**<300R**	**<120R**	**<30R**	**<30R**	**<30R**
Benzene	µg/L	0.2	5	<0.50	0.85	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
Bromodichloromethane	µg/L	0.5	16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.5R**	**<2.5R**	**<20R**	**<8.0R**	**<2.0R**	**<2.0R**	**<2.0R**
Bromoform	µg/L	1	25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<2.5R**	**<2.5R**	**<50R**	**<20R**	**<5.0R**	**<5.0R**	**<5.0R**
Bromomethane	µg/L	0.5	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<4.5R**	**<45R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
Carbon Tetrachloride	µg/L	0.2	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<2.5R**	**<2.5R**	**<2.0R**	**<0.80R**	**<0.20R**	**<0.20R**	**<0.20R**
Chlorobenzene	µg/L	0.2	30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
Chloroform	µg/L	0.2	22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**<2.5R**	**<2.5R**	**<10R**	**<4.0R**	**<1.0R**	**<1.0R**	**<1.0R**
Dibromochloromethane	µg/L	0.5	25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<5.0R**	**<5.0R**	**<20R**	**<8.0R**	**<2.0R**	**<2.0R**	**<2.0R**
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
Dichlorodifluoromethane	µg/L	1	590	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<5.0R**	**<5.0R**	**<20R**	**<8.0R**	**<2.0R**	**<2.0R**	**<2.0R**
1,1-Dichloroethane	µg/L	0.2	5	1.47	1.11	0.56	0.53	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**1.53R**	**5.37R**	**2.37R**
1,2-Dichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1-Dichloroethylene	µg/L	0.2	14	1.74	**18.6**	6.9	5.8	2.3	2.5	2.3	1.6	**<2.5R**	**8.4R**	**<5.0R**	**<2.0R**	**7.23R**	**1.11R**	**1.01R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	**619**	**1530**	**823**	**888**	**312**	**315**	**323**	**237**	**513R**	**95.8R**	**808R**	**126R**	**1530R**	**136R**	**82.1R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	6.57	14.80	5.77	4.64	2.47	2.10	2.01	1.88	**<2.5R**	**<2.5R**	**11.2R**	**<2.0R**	**6.26R**	**0.64R**	**<0.50R**
1,2-Dichloropropane	µg/L	0.2	5	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<3.0R**	**<1.2R**	**<0.30R**	**<0.30R**	**<0.30R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<2.5R**	**<2.5R**	**<3.0R**	**<1.2R**	**<0.30R**	**<0.30R**	**<0.30R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	-	-	**<4.2R**	**<1.7R**	-	**<0.50R**	**<0.50R**
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylbenzene	µg/L	0.2	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylene Dibromide	µg/L	0.2	0.2	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	-	-	-	-	-
Hexane (n)	µg/L	0.5	520	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
Methylene Chloride	µg/L	2	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	-	-	**<50R**	**<20R**	**<5.0R**	**<5.0R**	**<5.0R**
Methyl Ethyl Ketone	µg/L	10	1800	<20	<20	<20	<20	<20	<20	<20	<20	**<100R**	**<100R**	**<200R**	**<80R**	**<20R**	**<20R**	**<20R**
Methyl Isobutyl Ketone	µg/L	5	640	<20	<20	<20	<20	<20	<20	<20	<20	**<100R**	**<100R**	**<200R**	**<80R**	**<20R**	**<20R**	**<20R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.5R**	**<2.5R**	**<20R**	**<8.0R**	**<2.0R**	**<2.0R**	**<2.0R**
Styrene	µg/L	0.5	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
Tetrachloroethylene	µg/L	0.2	17	<0.50	1.25	0.51	0.52	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
Toluene	µg/L	0.2	24	<0.50	0.53	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1-Trichloroethane	µg/L	0.2	200	<0.50	<34	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<5.0R**	**<0.50R**	**<0.50R**
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.50R**	**<0.50R**	**<0.50R**
Trichloroethylene	µg/L	0.5	5	**10.1**	**12100**	**4270**	**4900**	**2140**	**2160**	**2160**	**1450**	**8.8R**	**7.5R**	**31.3R**	**8.3R**	**<5.0R**	**1.27R**	**1.88R**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<50R**	**<20R**	**<5.0R**	**<5.0R**	**<5.0R**
Vinyl Chloride	µg/L	0.2	1.7	**217**	**122**	**69**	**<25**	1	<0.50	<0.50	<0.50	**240R**	**135R**	**287R**	**136R**	**673R**	**127R**	**145R**
o-Xylene	µg/L	0.2	NR	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<5.0R**	**<5.0R**	**<5.0R**	**<2.0R**	**<0.35R**	-	**<0.40R**
m+p-Xylene	µg/L	0.2	NR	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	**<2.5R**	**<2.5R**	**<5.0R**	**<2.0R**	**<0.35R**	-	**<0.30R**
Xylene Mixture	µg/L	0.2	300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<7.5R**	**<7.5R**	**<7.1R**	**<2.8R**	**<0.50R**	**<0.50R**	**<0.50R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH22S	BH22S	BH22S	BH22S	BH22S	BH22S	BH29D	BH29D	BH29D	BH29D	BH29D	BH29D	BH29D	BH29D	BH29D
			Sample Name	22	BH22	22	BH22S	22	BH22	BH29	BH29	BH29	BH29	BH29	BH29	BH29	29	29
			Laboratory ID	L1535816-1	L1609442-14	L1844588-58	L2028320-7	L2257510-17	L2443052-11	L962785-20	L1002665-20	L1080092-26	L1143691-20	L1236205-22	L12922007-25	L1387784-23	L1453469-9	L1533707-6
			Lab Job #	L1535816	L1609442	L1844588	L2028320	L2257510	L2443052	L962785	L1002665	L1080092	L1143691	L1236205	L12922007	L1387784	L1453469	L1533707
			Sampling Date	16-Oct-14	6-May-15	12-Oct-16	27-Nov-17	10-Apr-19	27-Apr-20	7-Dec-10	30-Apr-11	28-Oct-11	30-Apr-12	6-Nov-12	18-Apr-13	31-Oct-13	7-May-14	14-Oct-14
			Well Screen Depth (mbgs)	5.6-7.1	5.6-7.1	5.6-7.1	5.6-7.1	5.6-7.1	5.6-7.1	6.9-8.4	6.9-8.4	6.9-8.4	6.9-8.4	6.9-8.4	6.9-8.4	6.9-8.4	6.9-8.4	6.9-8.4
			Consultant	AB	AB	AB	MTE	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<30R**	**<30R**	<30	<30	<30	<30	**<20R**	**<20R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**
Benzene	µg/L	0.2	5	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Bromodichloromethane	µg/L	0.5	16	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**
Bromoform	µg/L	1	25	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	**<0.50R**	**<0.50R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**
Bromomethane	µg/L	0.5	0.89	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<0.90R**	**<0.90R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Carbon Tetrachloride	µg/L	0.2	5	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	**<0.50R**	**<0.50R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**
Chlorobenzene	µg/L	0.2	30	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Chloroform	µg/L	0.2	22	**<1.0R**	**<1.0R**	<1.0	<2.0	<1.0	<1.0	**<0.50R**	**<0.50R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**
Dibromochloromethane	µg/L	0.5	25	**<2.0R**	**<2.0R**	<2.0	<1.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**
1,2-Dichlorobenzene	µg/L	0.5	3	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichlorobenzene	µg/L	0.5	59	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,4-Dichlorobenzene	µg/L	0.5	1	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Dichlorodifluoromethane	µg/L	1	590	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	**<1.0R**	**<1.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**
1,1-Dichloroethane	µg/L	0.2	5	**<0.50R**	**0.91R**	0.72	1.61	1.58	1.52	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,2-Dichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1-Dichloroethylene	µg/L	0.2	14	**<0.50R**	**2.15R**	1.05	2.37	0.59	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	**47.3R**	**762R**	**657**	**544**	**72**	**58**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	**0.65R**	**3R**	2.560	4.22	2.48	2.02	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,2-Dichloropropane	µg/L	0.2	5	**<0.30R**	**<0.30R**	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	**<0.50R**	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	**<0.50R**	**<0.50R**	<0.30	<0.30	<0.30	<0.30	-	-	**<0.50R**	**<0.50R**	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichloropropene	µg/L	0.5	0.5	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylbenzene	µg/L	0.2	2.4	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylene Dibromide	µg/L	0.2	0.2	-	-	<0.20	<0.20	<0.20	<0.20	-	-	-	-	-	-	-	-	-
Hexane (n)	µg/L	0.5	520	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	-	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Methylene Chloride	µg/L	2	50	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	-	-	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**
Methyl Ethyl Ketone	µg/L	10	1800	**<20R**	**<20R**	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**
Methyl Isobutyl Ketone	µg/L	5	640	**<20R**	**<20R**	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**
Styrene	µg/L	0.5	5.4	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Tetrachloroethylene	µg/L	0.2	17	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Toluene	µg/L	0.2	24	**<0.50R**	**<0.50R**	<0.59	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1-Trichloroethane	µg/L	0.2	200	**<0.50R**	**<12R**	<1.2	<13	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2-Trichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Trichloroethylene	µg/L	0.5	5	**1.1R**	**9.7R**	0.86	**102**	**7**	1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Trichlorofluoromethane	µg/L	0.5	150	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	**<1.0R**	**<1.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**
Vinyl Chloride	µg/L	0.2	1.7	**28.2R**	**170R**	**356**	**227**	**39**	**50**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
o-Xylene	µg/L	0.2	NR	**<0.40R**	**<0.40R**	<0.30	<0.30	<0.30	<0.30	-	**<1.0R**	**<0.50R**	**<0.50R**	**<0.35R**	-	**<0.40R**	**<0.40R**	**<0.40R**
m+p-Xylene	µg/L	0.2	NR	**<0.30R**	**<0.30R**	<0.40	<0.40	<0.40	<0.40	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.35R**	-	**<0.30R**	**<0.30R**	**<0.30R**
Xylene Mixture	µg/L	0.2	300	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	**<1.5R**	**<1.5R**	**<0.71R**	**<0.71R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH29D	BH29D	BH29D	BH29D	BH29D	BH29D	BH29D	BH29D	BH29D	BH29D	BH29D	BH30D	BH30D	BH30D	BH30D
			Sample Name	A	BH29	29	BH29	29	BH29	BH29	B	BH29	B	29	BH30	BH30	BH30	BH30
			Laboratory ID	L1533707-11	L1609442-15	L1699659-16	L1762380-15	L1844588-16	L1925873-15	L2087604-21	L2087604-50	L2195936-23	L2195936-55	L2257510-19	L962785-21	L1002665-21	L1080092-27	L1143691-21
			Lab Job #	L1533707	L1609442	L1699659	L1762380	L1844588	L1925873	L2087604	L2087604	L2195936	L2195936	L2257510	L962785	L1002665	L1080092	L1143691
			Sampling Date	14-Oct-14	6-May-15	4-Nov-15	27-Apr-16	12-Oct-16	8-May-17	26-Apr-18	26-Apr-2018	9-Nov-18	9-Nov-2018	10-Apr-19	7-Dec-10	30-Apr-11	28-Oct-11	30-Apr-12
			Well Screen Depth (mbgs)	6.9-8.4	6.9-8.4	6.9-8.4	6.9-8.4	6.9-8.4	6.9-8.4	6.9-8.4	6.9-8.4	6.9-8.4	6.9-8.4	6.9-8.4	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)	*Field duplicate sample of BH29D*							*Field duplicate sample of BH29D*		*Field duplicate sample of BH29D*					
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	<30	<30	<30	<30	**<20R**	**<20R**	**<30R**	**<30R**
Benzene	µg/L	0.2	5	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Bromodichloromethane	µg/L	0.5	16	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**	**<2.0R**
Bromoform	µg/L	1	25	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<0.50R**	**<0.50R**	**<5.0R**	**<5.0R**
Bromomethane	µg/L	0.5	0.89	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.90R**	**<0.90R**	**<0.50R**	**<0.50R**
Carbon Tetrachloride	µg/L	0.2	5	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<0.50R**	**<0.50R**	**<0.20R**	**<0.20R**
Chlorobenzene	µg/L	0.2	30	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Chloroform	µg/L	0.2	22	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**<0.50R**	**<0.50R**	**<1.0R**	**<1.0R**
Dibromochloromethane	µg/L	0.5	25	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**	**<2.0R**
1,2-Dichlorobenzene	µg/L	0.5	3	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichlorobenzene	µg/L	0.5	59	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,4-Dichlorobenzene	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Dichlorodifluoromethane	µg/L	1	590	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<1.0R**	**<1.0R**	**<2.0R**	**<2.0R**
1,1-Dichloroethane	µg/L	0.2	5	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,2-Dichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1-Dichloroethylene	µg/L	0.2	14	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	**<0.50R**	**1.41R**	**<0.50R**	<0.50	0.56	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,2-Dichloropropane	µg/L	0.2	5	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.30R**	**<0.30R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.50R**	**<0.50R**	**<0.30R**	**<0.30R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	-	-	**<0.50R**	**<0.50R**
1,3-Dichloropropene	µg/L	0.5	0.5	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylbenzene	µg/L	0.2	2.4	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylene Dibromide	µg/L	0.2	0.2	-	-	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	-	-
Hexane (n)	µg/L	0.5	520	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	**<0.50R**	**<0.50R**
Methylene Chloride	µg/L	2	50	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	-	-	**<5.0R**	**<5.0R**
Methyl Ethyl Ketone	µg/L	10	1800	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	**<20R**
Methyl Isobutyl Ketone	µg/L	5	640	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	**<20R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<0.50R**	**<0.50R**	**<2.0R**	**<2.0R**
Styrene	µg/L	0.5	5.4	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Tetrachloroethylene	µg/L	0.2	17	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Toluene	µg/L	0.2	24	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1-Trichloroethane	µg/L	0.2	200	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2-Trichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Trichloroethylene	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Trichlorofluoromethane	µg/L	0.5	150	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<1.0R**	**<1.0R**	**<5.0R**	**<5.0R**
Vinyl Chloride	µg/L	0.2	1.7	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
o-Xylene	µg/L	0.2	NR	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	-	**<1.0R**	**<0.50R**	**<0.50R**
m+p-Xylene	µg/L	0.2	NR	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	-	**<0.5R**	**<0.50R**	**<0.50R**
Xylene Mixture	µg/L	0.2	300	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<1.5R**	**<1.5R**	**<0.71R**	**<0.71R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH30D	BH30D	BH30D	BH30D	BH30D	BH30D	BH30D	BH30D	BH30D	BH30D	BH30D	BH30D	BH30D	BH30D	BH30D
			Sample Name	BH30	BH30	BH30	30	30	BH30	B	30	B	BH30	30	30	C	BH30D	C
			Laboratory ID	L1236205-23	L12922007-26	L1387784-24	L1453469-10	L1533707-7	L1609442-16	L1609442-19	L1699659-17	L1699659-23	L1762380-16	L1844588-17	L1925873-16	L1925873	L2090360-1	L2090360-6
			Lab Job #	L1236205	L12922007	L1387784	L1453469	L1533707	L1609442	L1609442	L1699659	L1699659	L1762380	L1844588	L1925873	L1925873-60	L2090360	L2090360
			Sampling Date	6-Nov-12	18-Apr-13	31-Oct-13	7-May-14	14-Oct-14	6-May-15	6-May-15	4-Nov-15	4-Nov-15	27-Apr-16	12-Oct-16	8-May-17	8-May-17	4-May-18	4-May-2018
			Well Screen Depth (mbgs)	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)							*Field duplicate sample of BH30D*		*Field duplicate sample of BH30D*				*Field duplicate sample of BH30D*		*Field duplicate sample of BH30D*
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	<30	<30
Benzene	µg/L	0.2	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	µg/L	1	25	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	µg/L	0.2	22	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	µg/L	0.5	17	**<0.50R**	**<0.50R**	**<0.50R**	**0.67R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	4.46	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	µg/L	0.5	17	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	µg/L	0.2	5	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.30	<0.30	<0.50	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.50	<0.50	<0.30	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	-	-	-	-	-	-	-	-	-	-	<0.20	-	-	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	2	50	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	0.5	5.4	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	µg/L	0.2	24	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	**1.17R**	**<0.50R**	**<0.50R**	**1.11R**	**<0.50R**	**<0.50R**	0.66	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	µg/L	0.5	150	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene	µg/L	0.2	NR	**<0.35R**	-	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.40	<0.40	<0.30	<0.30
m+p-Xylene	µg/L	0.2	NR	**<0.35R**	-	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.30	<0.30	<0.40	<0.40
Xylene Mixture	µg/L	0.2	300	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH30D	BH40U	BH40U	BH40U	BH40U	BH40U	BH40U	BH40S	BH40S	BH40S	BH40S	BH40D	BH40D	BH41U	BH41U
			Sample Name	BH30	BH 40U	40U	C	40U	BH40U	C	BH 40S	ENV422	40S	40S	BH 40D	40D	BH41U	41U
			Laboratory ID	L2195936-24	L1145702-13	L1453930-4	L1453930-4	L1535816-2	L1610038-3	L1610038-17	L1145702-14	L1145702-27	L1453930-5	L1535816-3	L1145702-15	L1453930-6	L1145702-16	L1453930-7
			Lab Job #	L2195936	L1145702	L1453930	L1453930	L1535816	L1610038	L1610038	L1145702	L1145702	L1453930	L1535816	L1145702	L1453930	L1145702	L1453930
			Sampling Date	9-Nov-18	4-May-12	9-May-14	9-May-14	16-Oct-14	7-May-15	7-May-15	4-May-12	4-May-12	9-May-14	16-Oct-14	4-May-12	9-May-14	4-May-12	9-May-14
			Well Screen Depth (mbgs)	7.4-8.9	1.5-3.0	1.5-3.0	1.5-3.0	1.5-3.0	1.5-3.0	1.5-3.0	4.8-6.3	4.8-6.3	4.8-6.3	4.8-6.3	7.6-9.1	7.6-9.1	1.1-2.6	1.1-2.6
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)				*Field duplicate sample of BH40U*			*Field duplicate sample of BH40U*		*Field duplicate sample of BH40U*						
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**
Benzene	µg/L	0.2	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**0.65R**	**3.23R**	**0.58R**	**0.55R**	**0.99R**	**1.58R**	**<0.50R**	**<0.50R**
Bromodichloromethane	µg/L	0.5	16	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**3R**	**<2.0R**	**<2.0R**	**<2.0R**	**2.6R**	**<2.0R**	**<2.0R**	**<2.0R**
Bromoform	µg/L	1	25	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**
Bromomethane	µg/L	0.5	0.89	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Carbon Tetrachloride	µg/L	0.2	5	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**
Chlorobenzene	µg/L	0.2	30	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Chloroform	µg/L	0.2	22	<1.0	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**3.5R**	**1.8R**	**<1.0R**	**<1.0R**	**3.4R**	**2.3R**	**<1.0R**	**<1.0R**
Dibromochloromethane	µg/L	0.5	25	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Dichlorodifluoromethane	µg/L	1	590	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**
1,1-Dichloroethane	µg/L	0.2	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**2.17R**	**1.59R**	**1.32R**	**0.61R**	**4.23R**	**<0.50R**	**<0.50R**
1,2-Dichloroethane	µg/L	0.5	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**1.19R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1-Dichloroethylene	µg/L	0.2	14	<0.50	**37.4R**	**10.9R**	**12.1R**	**10.5R**	**9.51R**	**15.8R**	**5.4R**	**59.2R**	**17.5R**	**28.4R**	**14R**	**65.4R**	**<0.50R**	**0.52R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	<0.50	**2150R**	**2950R**	**2300R**	**2650R**	**3630R**	**2920R**	**713R**	**6310R**	**6330R**	**3220R**	**2130R**	**12100R**	**328R**	**389R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	<0.50	**40.3R**	**15.1R**	**14.8R**	**15.5R**	**12.8R**	**21.6R**	**2.97R**	**<0.50R**	**20.2R**	**17.2R**	**35.5R**	**53R**	**2.24R**	**2.48R**
1,2-Dichloropropane	µg/L	0.2	5	<0.50	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.30R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylbenzene	µg/L	0.2	2.4	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n)	µg/L	0.5	520	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Methylene Chloride	µg/L	2	50	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**11R**	**<5.0R**	**<5.0R**	**<5.0R**	**<1000R**	**<5.0R**	**<5.0R**
Methyl Ethyl Ketone	µg/L	10	1800	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**
Methyl Isobutyl Ketone	µg/L	5	640	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**
Styrene	µg/L	0.5	5.4	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
Tetrachloroethylene	µg/L	0.2	17	<0.50	**7.65R**	**1.05R**	**0.5R**	**<0.50R**	**<0.50R**	**0.71R**	**5.94R**	**23.5R**	**<0.50R**	**0.74R**	**8.81R**	**9.94R**	**<0.50R**	**<0.50R**
Toluene	µg/L	0.2	24	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**1.13R**	**2.6R**	**<0.50R**	**<0.50R**	**2.7R**	**<100R**	**<0.50R**	**<0.50R**
1,1,1-Trichloroethane	µg/L	0.2	200	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<13R**	**<77R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	**2.02R**	**<13R**	**<13R**	**0.72R**	**<0.50R**	**0.78R**	**0.51R**	**1.84R**	**3.21R**	**<0.50R**	**2.44R**	**12.7R**	**<0.50R**	**<0.50R**
Trichloroethylene	µg/L	0.5	5	<0.50	**3140R**	**794R**	**593R**	**161R**	**680R**	**762R**	**6340R**	**26300R**	**6710R**	**12300R**	**9110R**	**43400R**	**<5.0R**	**178R**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**
Vinyl Chloride	µg/L	0.2	1.7	<0.50	**270R**	**219R**	**312R**	**149R**	**308R**	**377R**	**36R**	**440R**	**12.2R**	**216R**	**<100R**	**11.3R**	**427R**	**330R**
o-Xylene	µg/L	0.2	NR	<0.30	**<0.50R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**0.65R**	**1.04R**	**<0.40R**	**<0.40R**	**<0.50R**	**<0.40R**	**<0.50R**	**<0.40R**
m+p-Xylene	µg/L	0.2	NR	<0.40	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.50R**	**0.63R**	**<0.30R**	**<0.30R**	**<0.50R**	**<0.30R**	**<0.50R**	**<0.30R**
Xylene Mixture	µg/L	0.2	300	<0.50	**<0.71R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.71R**	**1.67R**	**<0.50R**	**<0.50R**	**<0.71R**	**<0.50R**	**<0.71R**	**<0.50R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH41U	BH41U	BH41U	BH41U	BH41U	BH41S	BH41S	BH41S	BH41S	BH41S	BH41S	BH41S	BH41S	BH41D	BH41D
			Sample Name	D	41U	D	BH41U	BH41U	BH41S	41S	41S	BH41S	41S	BH41S	41S	BH41S	BH41D	41D
			Laboratory ID	L1453930-14	L1535816-4	L1535816-13	L1610038-4	L2028320-8	L1145702-17	L1453930-8	L1535816-5	L1610038-5	L1699659-18	L1762380-17	L1844588-18	L2028320-9	L1145702-18	L1453930-9
			Lab Job #	L1453930	L1535816	L1535816	L1610038	L2028320	L1145702	L1453930	L1535816	L1610038	L1699659	L1762380	L1844588	L2028320	L1145702	L1453930
			Sampling Date	9-May-14	16-Oct-14	16-Oct-14	7-May-15	27-Nov-17	4-May-12	9-May-14	16-Oct-14	7-May-15	4-Nov-15	27-Apr-16	12-Oct-16	27-Nov-17	4-May-12	9-May-14
			Well Screen Depth (mbgs)	1.1-2.6	1.1-2.6	1.1-2.6	1.1-2.6	1.1-2.6	5.0-6.5	5.0-6.5	5.0-6.5	5.0-6.5	5.0-6.5	5.0-6.5	5.0-6.5	5.0-6.5	8.0-9.5	8.0-9.5
			Consultant	AB	AB	AB	AB	MTE	AB	AB	AB	AB	AB	AB	AB	MTE	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)	*Field duplicate sample of BH41U*		*Field duplicate sample of BH41U*												
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<30R**	**<30R**	**<30R**	**<30R**	<30	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	<30	<30	**<30R**	**<30R**
Benzene	µg/L	0.2	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**0.97R**	**0.82R**	**0.87R**	**<0.50R**	**0.76R**	0.71	0.54	1.03	**1.06R**	**<0.50R**
Bromodichloromethane	µg/L	0.5	16	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**
Bromoform	µg/L	1	25	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**
Bromomethane	µg/L	0.5	0.89	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**
Carbon Tetrachloride	µg/L	0.2	5	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	**<0.20R**	**<0.20R**
Chlorobenzene	µg/L	0.2	30	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**
Chloroform	µg/L	0.2	22	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<2.0	**2.6R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	<2.0	**1.2R**	**<1.0R**
Dibromochloromethane	µg/L	0.5	25	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<1.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<1.0	**<2.0R**	**<2.0R**
1,2-Dichlorobenzene	µg/L	0.5	3	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**
1,3-Dichlorobenzene	µg/L	0.5	59	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**
1,4-Dichlorobenzene	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**
Dichlorodifluoromethane	µg/L	1	590	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**
1,1-Dichloroethane	µg/L	0.2	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**2.01R**	**5.34R**	**1.81R**	**1.05R**	<0.50	2.4	2.60	**<0.50R**	**<0.50R**
1,2-Dichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**
1,1-Dichloroethylene	µg/L	0.2	14	**<0.50R**	**0.5R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**16.1R**	**56.3R**	**20.4R**	**11.4R**	**34.1**	**27.3**	**44.6**	**0.5R**	**2.19R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	**304R**	**327R**	**333R**	**205R**	**183**	**211R**	**14900R**	**37100R**	**15800R**	**1160R**	**19700**	**13900**	**18400**	**330R**	**248R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	**2.19R**	**2.69R**	**2.26R**	**1.81R**	1.87	**0.65R**	**43.5R**	**133R**	**48.1R**	**8.32R**	**69.6**	**57.1**	**59.5**	**0.83R**	**3.41R**
1,2-Dichloropropane	µg/L	0.2	5	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.50	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.50	**<0.30R**	**<0.30R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	**<0.30R**	**<0.30R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.30	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.30	**<0.50R**	**<0.50R**
1,3-Dichloropropene	µg/L	0.5	0.5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**
Ethylbenzene	µg/L	0.2	2.4	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**
Ethylene Dibromide	µg/L	0.2	0.2	-	-	-	-	<0.20	-	-	-	-	-	-	<0.20	<0.20	-	-
Hexane (n)	µg/L	0.5	520	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**
Methylene Chloride	µg/L	2	50	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**
Methyl Ethyl Ketone	µg/L	10	1800	**<20R**	**<20R**	**<20R**	**<20R**	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	**<20R**	**<20R**
Methyl Isobutyl Ketone	µg/L	5	640	**<20R**	**<20R**	**<20R**	**<20R**	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	**<20R**	**<20R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**
Styrene	µg/L	0.5	5.4	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**
Tetrachloroethylene	µg/L	0.2	17	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**
Toluene	µg/L	0.2	24	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**1.03R**	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.55	<0.50	**0.66R**	**<0.50R**
1,1,1-Trichloroethane	µg/L	0.2	200	**<0.50R**	**<0.50R**	**5.03R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<50R**	**<0.50R**	<100	<0.50	**<430R**	**<0.50R**	**<0.50R**
1,1,2-Trichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**
Trichloroethylene	µg/L	0.5	5	**18.5R**	**<2.5R**	**0.79R**	**0.62R**	<0.50	**135R**	**1930R**	**5920R**	**2110R**	**5450R**	**3300**	**37.9**	**6230**	**102R**	**340R**
Trichlorofluoromethane	µg/L	0.5	150	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**
Vinyl Chloride	µg/L	0.2	1.7	**313R**	**331R**	**358R**	**240R**	**152**	**35.4R**	**1250R**	**6710R**	**2710R**	**212R**	**3210**	**1730**	**4090**	**52R**	**13R**
o-Xylene	µg/L	0.2	NR	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.30	**<0.50R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.30	**<0.50R**	**<0.40R**
m+p-Xylene	µg/L	0.2	NR	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.40	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.40	**<0.50R**	**<0.30R**
Xylene Mixture	µg/L	0.2	300	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.71R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	**<0.71R**	**<0.50R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH41D	BH42U	BH42U	BH42U	BH42U	BH42U	BH42S	BH42S	BH42S	BH42S	BH42S	BH42S	BH42D	BH42D	BH42D
			Sample Name	BH41D	BH 42U	42U	42U	BH42U	BH42U	BH 42S	ENV223	42S	42S	BH42S	BH42S	BH42S	BH 42D	ENV424	42D
			Laboratory ID	L2032736-1	L1145702-19	L1453930-10	L1535816-6	L1610038-6	L2028320-10	L1145702-20	L1145702-20	L1453930-11	L1535816-7	L1610038-7	L2028320-11	L1145702-21	L1145702-28	L1453930-12
			Lab Job #	L2032736	L1145702	L1453930	L1535816	L1610038	L2028320	L1145702	L1145702	L1453930	L1535816	L1610038	L2028320	L1145702	L1145702	L1453930
			Sampling Date	6-Dec-17	4-May-12	9-May-14	16-Oct-14	7-May-15	27-Nov-17	4-May-12	4-May-12	9-May-14	16-Oct-14	7-May-15	27-Nov-17	4-May-12	4-May-12	9-May-14
			Well Screen Depth (mbgs)	8.0-9.5	2.0-3.5	2.0-3.5	2.0-3.5	2.0-3.5	2.0-3.5	5.1-6.6	5.1-6.6	5.1-6.6	5.1-6.6	5.1-6.6	5.1-6.6	7.9-9.4	7.9-9.4	7.9-9.4
			Consultant	MTE	AB	AB	AB	AB	MTE	AB	AB	AB	AB	AB	MTE	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)								*Field duplicate sample of BH42S*						*Field duplicate sample of BH42D*	
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	**<30R**	**<30R**	**<30R**	**<30R**	<30	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	**<30R**	**<30R**	**<30R**
Benzene	µg/L	0.2	5	0.78	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Bromodichloromethane	µg/L	0.5	16	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	**2.8R**	**2.7R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	**2.8R**	**3.2R**	**<2.0R**
Bromoform	µg/L	1	25	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	**<5.0R**	**<5.0R**	**<5.0R**
Bromomethane	µg/L	0.5	0.89	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Carbon Tetrachloride	µg/L	0.2	5	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	**<0.20R**	**<0.20R**	**<0.20R**
Chlorobenzene	µg/L	0.2	30	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Chloroform	µg/L	0.2	22	<1.0	**2.4R**	**<1.0R**	**<1.0R**	**<1.0R**	<2.0	**4.1R**	**3.8R**	**<1.0R**	**<1.0R**	**<1.0R**	<2.0	**3.9R**	**6.2R**	**<1.0R**
Dibromochloromethane	µg/L	0.5	25	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<1.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<1.0	**<2.0R**	**<2.0R**	**<2.0R**
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Dichlorodifluoromethane	µg/L	1	590	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	**<2.0R**	**<2.0R**	**<2.0R**
1,1-Dichloroethane	µg/L	0.2	5	1.66	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,2-Dichloroethane	µg/L	0.5	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,1-Dichloroethylene	µg/L	0.2	14	**36.3**	**<0.50R**	**0.92R**	**0.89R**	**0.52R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	**8970**	**111R**	**193R**	**530R**	**294R**	**411**	**19.7R**	**25.4R**	**11.3R**	**18.3R**	**24.7R**	12.10	**26R**	**18.4R**	**85.7R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	**36.6**	**1.08R**	**3.12R**	**3.23R**	**2.34R**	2.76	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**0.59R**	<0.50	**<0.50R**	**<0.50R**	**0.79R**
1,2-Dichloropropane	µg/L	0.2	5	<0.50	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.50	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.50	**<0.30R**	**<0.50R**	**<0.30R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	**<0.30R**	**<0.30R**	**<0.30R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.30	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.30	**<0.50R**	**<0.30R**	**<0.50R**
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Ethylbenzene	µg/L	0.2	2.4	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	-	-	-	-	<0.20	-	-	-	-	-	<0.20	-	-	-
Hexane (n)	µg/L	0.5	520	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Methylene Chloride	µg/L	2	50	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	**<5.0R**	**<5.0R**	**<5.0R**
Methyl Ethyl Ketone	µg/L	10	1800	<20	**<20R**	**<20R**	**<20R**	**<20R**	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	**<20R**	**<20R**	**<20R**
Methyl Isobutyl Ketone	µg/L	5	640	<20	**<20R**	**<20R**	**<20R**	**<20R**	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	**<20R**	**<20R**	**<20R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	**<2.0R**	**<2.0R**	**<2.0R**
Styrene	µg/L	0.5	5.4	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Tetrachloroethylene	µg/L	0.2	17	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Toluene	µg/L	0.2	24	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**0.57R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1-Trichloroethane	µg/L	0.2	200	<1.3	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<9.5	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Trichloroethylene	µg/L	0.5	5	**5360**	**15R**	**129R**	**5.2R**	**4.02R**	4.56	**61.4R**	**327R**	**27.5R**	**1.89R**	**2.42R**	<0.50	**248R**	**245R**	**27.5R**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	**<5.0R**	**<5.0R**	**<5.0R**
Vinyl Chloride	µg/L	0.2	1.7	**2110**	**35.2R**	**3.39R**	**324R**	**223R**	**23.2**	**4.76R**	**2.25R**	**1.09R**	**2.81R**	**<0.50R**	0.77	**1.87R**	**<2.5R**	**3.25R**
o-Xylene	µg/L	0.2	NR	<0.30	**<0.50R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.30	**<0.50R**	**<0.50R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.30	**<0.50R**	**<0.50R**	**<0.40R**
m+p-Xylene	µg/L	0.2	NR	<0.40	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.40	**<0.50R**	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.40	**<0.50R**	**<0.50R**	**<0.30R**
Xylene Mixture	µg/L	0.2	300	<0.50	**<0.71R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.71R**	**<0.71R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	**<0.71R**	**<0.71R**	**<0.50R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH42D	BH42D	BH42D	BH43U	BH43U	BH43U	BH43U	BH43U	BH43U	BH43S	BH43S	BH43S	BH43S	BH43S	BH43S
			Sample Name	42D	BH42D	BH42D	BH 43U	43U	43U	C	BH43U	BH43U	BH 43S	43S	43S	43S	BH43S	43S	BH43S
			Laboratory ID	L1535816-8	L1610038-8	L2029000-5	L1145702-22	L1453930-22	L1535816-9	L1535816-12	L2028320-12	GRN890	L1145702-23	L1453930-23	L1535816-10	L1610038-9	L1699659-19	L1762380-18
			Lab Job #	L1535816	L1610038	L2029000	L1145702	L1453930	L1535816	L1535816	L2028320	B882534	L1145702	L1453930	L1535816	L1610038	L1699659	L1762380
			Sampling Date	16-Oct-14	7-May-15	28-Nov-17	4-May-12	10-May-14	16-Oct-14	16-Oct-14	27-Nov-17	11-May-18	4-May-12	10-May-14	16-Oct-14	7-May-15	4-Nov-15	27-Apr-16
			Well Screen Depth (mbgs)	7.9-9.4	7.9-9.4	7.9-9.4	2.0-3.5	2.0-3.5	2.0-3.5	2.0-3.5	2.0-3.5	2.0-3.5	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4
			Consultant	AB	AB	MTE	AB	AB	AB	AB	MTE	MTE	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)							*Field duplicate sample of BH43U*								
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<30R**	**<30R**	<30	**<30R**	**<30R**	**<30R**	**<30R**	<30	<10	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30
Benzene	µg/L	0.2	5	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.20	**<0.50R**	**0.92R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
Bromodichloromethane	µg/L	0.5	16	**<2.0R**	**<2.0R**	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<0.50	**3.4R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0
Bromoform	µg/L	1	25	**<5.0R**	**<5.0R**	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<1.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0
Bromomethane	µg/L	0.5	0.89	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
Carbon Tetrachloride	µg/L	0.2	5	**<0.20R**	**<0.20R**	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20
Chlorobenzene	µg/L	0.2	30	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
Chloroform	µg/L	0.2	22	**<1.0R**	**<1.0R**	<1.0	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<2.0	<0.20	**3.9R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0
Dibromochloromethane	µg/L	0.5	25	**<2.0R**	**<2.0R**	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<1.0	<0.50	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
Dichlorodifluoromethane	µg/L	1	590	**<2.0R**	**<2.0R**	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<1.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0
1,1-Dichloroethane	µg/L	0.2	5	**<0.50R**	**<0.50R**	0.54	**<0.50R**	**<0.50R**	**2.19R**	**2.21R**	<0.50	<0.20	**<0.50R**	**7.01R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
1,2-Dichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	**<0.50R**	**<0.50R**	11.90	**0.7R**	**0.68R**	**12.8R**	**13.4R**	<0.50	0.21	**1.18R**	**29.3R**	**<0.50R**	**<0.50R**	**0.51R**	<0.50
cis-1,2-Dichloroethylene	µg/L	0.5	17	**51.3R**	**15.7R**	**1380**	**109R**	**131R**	**2030R**	**2080R**	**30.8**	**23**	**77.4R**	**4590R**	**61.1R**	**54R**	**67.9R**	**31.3**
trans-1,2-Dichloroethylene	µg/L	0.5	17	**<0.50R**	**<0.50R**	11.20	**3R**	**2.62R**	**11.3R**	**11.4R**	2.32	2	**0.75R**	**21.8R**	**2.41R**	**2.28R**	**3.26R**	1.57
1,2-Dichloropropane	µg/L	0.2	5	**<0.30R**	**<0.30R**	<0.50	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.50	<0.20	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<0.30R**	**<0.30R**	<0.30	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	**<0.50R**	**<0.50R**	<0.30	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.30	<0.40	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
1,3-Dichloropropene	µg/L	0.5	0.5	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
Ethylbenzene	µg/L	0.2	2.4	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	-	-	<0.20	-	-	-	-	<0.20	<0.20	-	-	-	-	-	-
Hexane (n)	µg/L	0.5	520	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<1.0	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
Methylene Chloride	µg/L	2	50	**<5.0R**	**<5.0R**	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<2.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	**<20R**	**<20R**	<20	**<20R**	**<20R**	**<20R**	**<20R**	<20	<10	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20
Methyl Isobutyl Ketone	µg/L	5	640	**<20R**	**<20R**	<20	**<20R**	**<20R**	**<20R**	**<20R**	<20	<5.0	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<2.0R**	**<2.0R**	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<0.50	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0
Styrene	µg/L	0.5	5.4	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
Tetrachloroethylene	µg/L	0.2	17	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
Toluene	µg/L	0.2	24	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.20	**<0.50R**	**0.73R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	**0.85R**	**<0.50R**	<30	**<0.50R**	**<0.50R**	**31.6R**	**31.5R**	<0.75	<0.20	**<0.50R**	**<0.50R**	**1.03R**	**<0.50R**	**<0.50R**	<0.75
1,1,2-Trichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50
Trichloroethylene	µg/L	0.5	5	**6.2R**	**8.42R**	**4130**	**174R**	**118R**	**779R**	**795R**	**50.5**	**34**	**264R**	**2700R**	**69.9R**	**103R**	**113R**	**65.6**
Trichlorofluoromethane	µg/L	0.5	150	**<5.0R**	**<5.0R**	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<0.50	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0
Vinyl Chloride	µg/L	0.2	1.7	**<0.50R**	**<0.50R**	**145**	**3.55R**	**0.97R**	**107R**	**104R**	1.23	0.96	**12.8R**	**210R**	**0.95R**	**2.19R**	**1.04R**	<0.50
o-Xylene	µg/L	0.2	NR	**<0.40R**	**<0.40R**	<0.30	**<0.50R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.30	<0.20	**<0.50R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40
m+p-Xylene	µg/L	0.2	NR	**<0.30R**	**<0.30R**	<0.40	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.40	<0.20	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30
Xylene Mixture	µg/L	0.2	300	**<0.50R**	**<0.50R**	<0.50	**<0.71R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.20	**<0.71R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH43S	BH43S	BH43S	BH43S	BH43S	BH43S	BH43S	BH43S	BH43D	BH43D	BH43D	BH43D	BH43D	BH43D	BH43D
			Sample Name	43S	43S	43S	43S	43S	43S	43S	43S	BH 43D	43D	43D	43D	43D	43D	43D
			Laboratory ID	L1844588-19	L1925873-17	L2028320-13	L2087604-38	L2195936-51	L2257510-37	L2380425-11	L2443052-12	L1145702-24	L1453930-24	L1535816-11	L1610038-10	L1699659-20	L1762380-19	L1844588-20
			Lab Job #	L1844588	L1925873	L2028320	L2087604	L2195936	L2257510	L2380425	L2443052	L1145702	L1453930	L1535816	L1610038	L1699659	L1762380	L1844588
			Sampling Date	12-Oct-16	8-May-17	27-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	27-Apr-20	4-May-12	10-May-14	16-Oct-14	7-May-15	4-Nov-15	27-Apr-16	12-Oct-16
			Well Screen Depth (mbgs)	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	4.9-6.4	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9
			Consultant	AB	AB	MTE	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	<30	<30	<30	<30	<30	<30	<30	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	<30
Benzene	µg/L	0.2	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**0.59R**	**<0.50R**	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**4.3R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0
Bromoform	µg/L	1	25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Chloroform	µg/L	0.2	22	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	**5.1R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.3R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	<0.50	<0.50	1.40	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**1.85R**	**2.97R**	0.69	<0.50
1,2-Dichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	<0.50	<0.50	6.56	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**2.05R**	**<0.50R**	**8.88R**	**15.3R**	3.77	2.02
cis-1,2-Dichloroethylene	µg/L	0.5	17	**40.4**	**32.3**	**511**	**25**	**35**	**22**	**18**	**21**	**18.4R**	**252R**	**59R**	**723R**	**1630R**	**328**	**272**
trans-1,2-Dichloroethylene	µg/L	0.5	17	2.09	1.73	5.16	1.67	1.79	1.44	1.28	1.63	**<0.50R**	**3.46R**	**3.33R**	**6.92R**	**12R**	4.31	2.98
1,2-Dichloropropane	µg/L	0.2	5	<0.50	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	-	-	-	-	<0.20
Hexane (n)	µg/L	0.5	520	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Methylene Chloride	µg/L	2	50	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	<20	<20	<20	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	<20	<20	<20	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0
Styrene	µg/L	0.5	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	<0.50	<0.50	0.77	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**0.84R**	**1.07R**	0.72	<0.50
Toluene	µg/L	0.2	24	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**0.56R**	**<0.50R**	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	<0.50	<0.50	<12	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**0.99R**	**<16R**	**<0.50R**	<5.0	<0.50
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**64.6**	**45**	**5070**	**42**	**52**	**36**	**28**	**31**	**126R**	**343R**	**79.7R**	**2080R**	**3050R**	**1060**	**391**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	<0.50	<0.50	**101**	<0.50	<0.50	<0.50	<0.50	<0.50	**3.35R**	**13.2R**	**0.72R**	**92.5R**	**106R**	**40.2**	1.06
o-Xylene	µg/L	0.2	NR	<0.30	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.50R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.30
m+p-Xylene	µg/L	0.2	NR	<0.40	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40
Xylene Mixture	µg/L	0.2	300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.71R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH43D	BH43D	BH43D	BH43D	BH43D	BH43D	BH43D	BH45D	BH45D	BH45D	BH45D	BH45D	BH45D	BH45D	BH45D
			Sample Name	43D	BH43D	BH43D	BH43D	43D	BH43D	BH43D	BH45	BH45	45	BH45	45	B	45	BH45D
			Laboratory ID	L1925873-18	L2029000-6	L2087604-39	L2195936-52	L2257510-38	L2380425-12	L2443052-13	L1589649-1	L1609442-17	L1699659-21	L1762380-20	L1844588-21	L1844588-23	L1925873-19	L2029000-7
			Lab Job #	L1925873	L2029000	L2087604	L2195936	L2257510	L2380425	L2443052	L1589649	L1609442	L1699659	L1762380	L1844588	L1844588	L1925873	L2029000
			Sampling Date	8-May-17	28-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	5-Nov-19	27-Apr-20	19-Mar-15	6-May-15	4-Nov-15	27-Apr-16	12-Oct-16	12-Oct-16	8-May-17	28-Nov-17
			Well Screen Depth (mbgs)	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	7.4-8.9	11.4-12.9	11.4-12.9	11.4-12.9	11.4-12.9	11.4-12.9	11.4-12.9	11.4-12.9	11.4-12.9
			Consultant	AB	MTE	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)													*Field duplicate sample of BH45D*		
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	<30	<30	<30	<30	<30	<30	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	<30
Benzene	µg/L	0.2	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**4.28R**	**2.24R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	µg/L	1	25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	µg/L	0.2	22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	0.71	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.56R**	**1.29R**	**1.59R**	0.99	0.85	0.7	<0.50	1.14
1,2-Dichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	1.77	2.33	0.75	0.92	2.07	1.15	0.72	**3.74R**	**7.79R**	**18.4R**	6.75	5.06	4.63	<0.50	9.85
cis-1,2-Dichloroethylene	µg/L	0.5	17	**270**	**273**	**103**	**131**	**240**	**126**	**125**	**212R**	**3250R**	**4530R**	**2590**	**2260**	**1870**	**3090**	**828**
trans-1,2-Dichloroethylene	µg/L	0.5	17	3.22	4.06	1.94	2.36	2.99	1.85	2.41	**3.15R**	**20.9R**	**20.8R**	9.95	8.00	7.770	<0.50	9.92
1,2-Dichloropropane	µg/L	0.2	5	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.50	<0.30	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.30	<0.50	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.55R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	-	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	2	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	<20	<20	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	<20	<20	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	**<40R**	<2.0
Styrene	µg/L	0.5	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	µg/L	0.2	24	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.03R**	**1.11R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	<0.50	<0.50	<0.50	<0.50	<5.1	<0.50	<0.50	**<4.5R**	**<65R**	**<0.50R**	<10	<0.50	<2.4	<0.50	<20
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**93.4**	**273**	**71**	**113**	**183**	**163**	**55**	**1590R**	**3.75R**	**15R**	**44.4**	**60**	**52.7**	**2280**	**5040**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	**10.9**	**16.60**	<0.50	**2.34**	**14.00**	<0.50	<0.50	**12.6R**	**57.4R**	**161R**	**46.9**	**4.54**	**4.73**	<0.50	**79.80**
o-Xylene	µg/L	0.2	NR	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**1.01R**	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.30	<0.40	<0.30
m+p-Xylene	µg/L	0.2	NR	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	**0.4R**	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.40	<0.30	<0.40
Xylene Mixture	µg/L	0.2	300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.41R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH45D	BH45D	BH45D	BH46S	BH46S	BH46S	BH46S	BH46S	BH46S	BH46S	BH46S	BH46S	BH46S	BH46S	BH46S
			Sample Name	BH45	A	BH45	BH46S	A	BH46S	D	46S	46S	46S	BH46S	BH46S	46S	BH46S	BH46S
			Laboratory ID	L2087604-42	L2087604-49	L2195936-53	L1589649-2	L1589649-8	L1610038-11	L1610038-18	L1699659-25	L1925873-20	L2028320-14	L2087604-43	L2195936-45	L2257510-42	L2380426-3	L2443052-21
			Lab Job #	L2087604	L2087604	L2195936	L1589649	L1589649	L1610038	L1610038	L1699659	L1925873	L2028320	L2087604	L2195936	L2257510	L2380426	L2443052
			Sampling Date	26-Apr-18	26-Apr-2018	9-Nov-18	19-Mar-15	19-Mar-15	7-May-15	7-May-15	4-Nov-15	8-May-17	27-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	6-Nov-19	28-Apr-20
			Well Screen Depth (mbgs)	11.4-12.9	11.4-12.9	11.4-12.9	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	MTE	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)		*Field duplicate sample of BH45D*			*Field duplicate sample of BH46S*		*Field duplicate sample of BH46S*								
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	<30	<30	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	<30	<30	<30
Benzene	µg/L	0.2	5	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	µg/L	1	25	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	<0.20	<0.20	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	µg/L	0.2	22	<1.0	<1.0	<1.0	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	1.66	1.82	2.06	**4.77R**	**4.71R**	**3.54R**	**3.63R**	**4.06R**	**5.16**	**5.39**	4.70	**5.54**	3.18	**5.02**	3.29
1,2-Dichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	9.15	10.10	8.69	**3.74R**	**3.65R**	**3.17R**	**3.21R**	**3.42R**	6.76	7.44	6.39	7.53	3.97	7.96	4.66
cis-1,2-Dichloroethylene	µg/L	0.5	17	**1260**	**1330**	**1210**	**485R**	**494R**	**1810R**	**1860R**	**1420R**	**1490**	**1830**	**1690**	**2010**	**1120**	**1410**	**1440**
trans-1,2-Dichloroethylene	µg/L	0.5	17	7.22	7.69	7.58	**3.56R**	**3.41R**	**10.9R**	**10.7R**	**10.7R**	9.270	9.73	8.97	14.80	5.62	9.62	8.36
1,2-Dichloropropane	µg/L	0.2	5	<0.50	<0.50	<0.50	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	<0.20	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	-	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	2	50	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	<20	<20	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	<20	<20	<20	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	0.5	5.4	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	0.60	0.65	0.74	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	µg/L	0.2	24	<0.50	<0.50	<0.50	**1.06R**	**1.04R**	**0.68R**	**0.6R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	<0.50	<0.50	<0.50	**<5.0R**	**<0.50R**	**<36R**	**<36R**	**<0.50R**	<0.50	<43	<0.50	<1.0	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**4480**	**4730**	**4990**	**875R**	**903R**	**141R**	**140R**	**13.9R**	**48.8**	**237**	**29**	**6**	**15**	**11**	**11**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	**14.10**	**15.20**	**3.72**	**108R**	**108R**	**71.1R**	**71.9R**	**77R**	**15.7**	**79.80**	**3.90**	**44.00**	1.07	**<5.0**	0.93
o-Xylene	µg/L	0.2	NR	<0.30	<0.30	<0.30	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
m+p-Xylene	µg/L	0.2	NR	<0.40	<0.40	<0.40	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene Mixture	µg/L	0.2	300	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH46D	BH46D	BH46D	BH46D	BH46D	BH46D	BH46D	BH46D	BH46D	BH46D	BH47S	BH47S	BH47S	BH47S	BH47S
			Sample Name	BH46D	BH46D	46D	46D	BH46D	BH46D	BH46D	46D	BH46D	BH46D	BH47S	A	BH47S	47S	BH47S
			Laboratory ID	L1589649-3	L1610038-12	L1699659-26	L1925873-21	L2030566-2	L2087604-44	L2195936-46	L2257510-43	L2380426-4	L2443052-22	L1589649-4	L1589649-8	L1610038-13	L1925873-22	L2028320-15
			Lab Job #	L1589649	L1610038	L1699659	L1925873	L2030566	L2087604	L2195936	L2257510	L2380426	L2443052	L1589649	L1589649	L1610038	L1925873	L2028320
			Sampling Date	19-Mar-15	7-May-15	4-Nov-15	8-May-17	1-Dec-17	26-Apr-18	9-Nov-18	10-Apr-19	6-Nov-19	28-Apr-20	19-Mar-15	19-Mar-15	7-May-15	8-May-17	27-Nov-17
			Well Screen Depth (mbgs)	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14
			Consultant	AB	AB	AB	AB	MTE	AB	AB	AB	AB	AB	AB	AB	AB	AB	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)												*Field duplicate sample of BH47S*			
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	<30	<30	<30	**<30R**	**<30R**	**<30R**	<30	<30
Benzene	µg/L	0.2	5	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.11R**	**<0.50R**	**0.75R**	0.57	<0.50
Bromodichloromethane	µg/L	0.5	16	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0
Bromoform	µg/L	1	25	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Chloroform	µg/L	0.2	22	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<2.0
Dibromochloromethane	µg/L	0.5	25	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<1.0
1,2-Dichlorobenzene	µg/L	0.5	3	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.15R**	**4.71R**	**0.97R**	1.17	1.07
1,2-Dichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	**3.74R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**12.9R**	**3.65R**	**9.97R**	11.9	9.96
cis-1,2-Dichloroethylene	µg/L	0.5	17	**9.91R**	**5.65R**	**5.81R**	3.6	4.43	13.20	3.13	**34.3**	9.0	13.3	**1010R**	**494R**	**983R**	**736**	**828**
trans-1,2-Dichloroethylene	µg/L	0.5	17	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	0.69	<0.50	<0.50	<0.50	<0.50	<0.50	**10.3R**	**3.41R**	**8.82R**	7.270	5.90
1,2-Dichloropropane	µg/L	0.2	5	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<0.20R**	-	**<0.20R**	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Methylene Chloride	µg/L	2	50	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0
Styrene	µg/L	0.5	5.4	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Toluene	µg/L	0.2	24	**1.06R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.7R**	**1.04R**	**<0.50R**	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<0.50R**	**<19R**	<0.50	<18
1,1,2-Trichloroethane	µg/L	0.5	5	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**25.6R**	**12R**	**14.7R**	1.5	0.67	2.58	<0.50	**179.00**	0.69	**21.20**	**5210R**	**903R**	**4910R**	**3250**	**3090**
Trichlorofluoromethane	µg/L	0.5	150	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	**2R**	**<0.50R**	**<0.50R**	0.96	1.64	<0.50	1.26	**2.93**	<0.50	**1.73**	**288R**	**108R**	**201R**	**2.08**	**86.6**
o-Xylene	µg/L	0.2	NR	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**0.42R**	**<0.40R**	**<0.40R**	<0.40	<0.30
m+p-Xylene	µg/L	0.2	NR	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40
Xylene Mixture	µg/L	0.2	300	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH47S	BH47S	BH47S	BH47S	BH47S	BH47S	BH47S	BH47D	BH47D	BH47D	BH47D	BH47D	BH47D	BH47D	BH47D
			Sample Name	BH47S	BH470S	BH47S	BH47S	47S	BH47S	BH47S	BH47D	BH47D	47D	47D	BH47D	BH47D	47D	BH47D
			Laboratory ID	GIL112	GIL114	L2087604-45	L2195936-47	L2257510-44	L2380426-5	L2443052-23	L1589649-5	L1610038-14	L1699659-27	L1925873-23	L2030566-3	L2087604-46	L2257510-45	L2380426-6
			Lab Job #	B868106	B868106	L2087604	L2195936	L2257510	L2380426	L2443052	L1589649	L1610038	L1699659	L1925873	L2030566	L2087604	L2257510	L2380426
			Sampling Date	26-Mar-18	26-Mar-18	26-Apr-18	9-Nov-18	10-Apr-19	6-Nov-19	28-Apr-20	19-Mar-15	7-May-15	4-Nov-15	8-May-17	1-Dec-17	26-Apr-18	10-Apr-19	6-Nov-19
			Well Screen Depth (mbgs)	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10
			Consultant	MTE	MTE	AB	AB	AB	AB	AB	AB	AB	AB	AB	MTE	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)		*Field duplicate sample of BH47S*													
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<100	<100	<30	<30	<30	<30	<30	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	<30
Benzene	µg/L	0.2	5	0.5	0.48	0.61	0.59	<0.50	0.59	0.76	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	<0.50	<0.50	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	µg/L	1	25	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	µg/L	0.2	22	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	<0.50	<0.50	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	1.2	1.1	1.33	1.35	1.11	1.36	1.7	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	10	10	11.9	11.6	7.82	12.3	12.2	**3.04R**	**1.02R**	**1.1R**	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	µg/L	0.5	17	**700**	**680**	**871**	**915**	**919**	**1050**	**1630**	**102R**	**39.2R**	**50.2R**	3.18	4.86	4.63	2.38	5.43
trans-1,2-Dichloroethylene	µg/L	0.5	17	5.6	5.5	7.14	7.25	4.75	7.39	8.86	**1.04R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	µg/L	0.2	5	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.40	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.30	<0.30	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	2	50	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	<100	<100	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	<50	<50	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	0.5	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	µg/L	0.2	24	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	**0.64R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	**<2.5R**	**<1.0R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**2300**	**2200**	**2920**	**2980**	**2610**	**2880**	**3490**	**425R**	**131R**	**130R**	**10.5**	3.78	**12.60**	**5.16**	**13.90**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	**36**	**34**	**2.12**	**18.7**	**2.22**	**35**	**3.17**	**150R**	**50.9R**	**46.1R**	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene	µg/L	0.2	NR	<2.0	<2.0	<0.30	<0.30	<0.30	<0.30	<0.30	**0.42R**	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.30	<0.30	<0.30
m+p-Xylene	µg/L	0.2	NR	<2.0	<2.0	<0.40	<0.40	<0.40	<0.40	<0.40	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.40	<0.40	<0.40
Xylene Mixture	µg/L	0.2	300	<2.0	<2.0	<0.50	<0.50	<0.50		<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH47D	BH48S	BH48S	BH48S	BH48S	BH48S	BH48S	BH48S	BH48S	BH48S	BH48S	BH48S	BH48D	BH48D	BH48D
			Sample Name	BH47D	BH48S	BH48S	48S	48S	BH48S	BH48S0	BH48S	BH48S	48S	BH48S	BH48S	BH48D	BH48D	48D
			Laboratory ID	L2443052-24	L1589649-6	L1610038-15	L1699659-28	L1925873-24	L2028320-16	L2028320-18	L2087604-47	L2195936-49	L2257510-46	L2380426-7	L2443052-25	L1589649-7	L1610038-16	L1699659-29
			Lab Job #	L2443052	L1589649	L1610038	L1699659	L1925873	L2028320	L2028320	L2087604	L2195936	L2257510	L2380426	L2443052	L1589649	L1610038	L1699659
			Sampling Date	28-Apr-20	19-Mar-15	7-May-15	4-Nov-15	8-May-17	27-Nov-17	27-Nov-17	26-Apr-18	9-Nov-18	10-Apr-19	6-Nov-19	28-Apr-20	19-Mar-15	7-May-15	4-Nov-15
			Well Screen Depth (mbgs)	9.58-11.10	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	3.62-5.14	9.58-11.10	9.58-11.10	9.58-11.10
			Consultant	AB	AB	AB	AB	AB	MTE	MTE	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)							*Field duplicate sample of BH48S*								
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	<30	<30	<30	<30	**<30R**	**<30R**	**<30R**
Benzene	µg/L	0.2	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.81R**	**<0.50R**	**<0.50R**
Bromodichloromethane	µg/L	0.5	16	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**
Bromoform	µg/L	1	25	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**
Bromomethane	µg/L	0.5	0.89	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Carbon Tetrachloride	µg/L	0.2	5	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<0.20R**	**<0.20R**	**<0.20R**
Chlorobenzene	µg/L	0.2	30	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Chloroform	µg/L	0.2	22	<1.0	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	**<1.0R**	**<1.0R**	**<1.0R**
Dibromochloromethane	µg/L	0.5	25	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Dichlorodifluoromethane	µg/L	1	590	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**
1,1-Dichloroethane	µg/L	0.2	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,2-Dichloroethane	µg/L	0.5	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,1-Dichloroethylene	µg/L	0.2	14	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.23R**	**<0.50R**	**<0.50R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	0.82	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	1.39	<0.50	<0.50	<0.50	<0.50	**87.9R**	**36.1R**	**5.14R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.68R**	**<0.50R**	**<0.50R**
1,2-Dichloropropane	µg/L	0.2	5	<0.50	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.30R**	**<0.30R**	**<0.30R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.30R**	**<0.30R**	**<0.30R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<0.50R**	**<0.50R**	**<0.50R**
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Ethylbenzene	µg/L	0.2	2.4	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<0.20R**	**<0.20R**	**<0.20R**
Hexane (n)	µg/L	0.5	520	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Methylene Chloride	µg/L	2	50	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**
Methyl Ethyl Ketone	µg/L	10	1800	<20	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**
Methyl Isobutyl Ketone	µg/L	5	640	<20	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	<20	**<20R**	**<20R**	**<20R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<2.0R**	**<2.0R**	**<2.0R**
Styrene	µg/L	0.5	5.4	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Tetrachloroethylene	µg/L	0.2	17	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Toluene	µg/L	0.2	24	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.19R**	**<0.50R**	**<0.50R**
1,1,1-Trichloroethane	µg/L	0.2	200	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<1.0R**	**<0.50R**
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<0.50R**	**<0.50R**	**<0.50R**
Trichloroethylene	µg/L	0.5	5	1.87	**<0.50R**	**0.65R**	**<0.50R**	<0.50	<0.50	<0.50	**5.65**	<0.50	<0.50	<0.50	<0.50	**916R**	**14R**	**23.3R**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<5.0R**	**<5.0R**	**<5.0R**
Vinyl Chloride	µg/L	0.2	1.7	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.16R**	**<0.50R**	**<0.50R**
o-Xylene	µg/L	0.2	NR	<0.30	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**0.51R**	**<0.40R**	**<0.40R**
m+p-Xylene	µg/L	0.2	NR	<0.40	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	**<0.30R**	**<0.30R**	**<0.30R**
Xylene Mixture	µg/L	0.2	300	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.51R**	**<0.50R**	**<0.50R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH48D	BH48D	BH48D	BH48D	BH48D	BH48D	BH48D	BH48D	BH48D	BH48D	BH48D	RW1	RW1	RW1	RW1
			Sample Name	48D	BH48D	BH48D	BH48D	D	BH48D	48D	BH48D	BH48D	BH48D	B	RW	RW	RW	RW
			Laboratory ID	L1925873-25	L2030566-4	GIL113	L2087604-48	L2087604-51	L2195936-48	L2195936-50	L2257510-47	L2380426-8	L2443052-26	L2443052-37	L962785-28	L1002665-28	L1080092-34	L1121563-1
			Lab Job #	L1925873	L2030566	B868106	L2087604	L2087604	L2195936	L2195936	L2257510	L2380426	L2443052	L2443052	L962785	L1002665	L1080092	L1121563
			Sampling Date	9-May-17	1-Dec-17	26-Mar-18	26-Apr-18	27-Apr-2018	9-Nov-18	9-Nov-18	10-Apr-19	6-Nov-19	28-Apr-20	28-Apr-20	7-Dec-10	30-Apr-11	28-Oct-11	2-Mar-12
			Well Screen Depth (mbgs)	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	9.58-11.10	4.88-6.40	4.88-6.40	4.88-6.40	4.88-6.40
			Consultant	AB	MTE	MTE	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)					*Field duplicate sample of BH48D*										
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	<30	<10	<30	<30	<30	<30	<30	<30	<30	<30	**<2000R**	**<4000R**	**<15000R**	**<30R**
Benzene	µg/L	0.2	5	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**1.29R**
Bromodichloromethane	µg/L	0.5	16	<2.0	<2.0	<0.50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<50R**	**<100R**	**<1000R**	**<2.0R**
Bromoform	µg/L	1	25	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<50R**	**<100R**	**<2500R**	**<5.0R**
Bromomethane	µg/L	0.5	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<90R**	**<180R**	**<250R**	**<0.50R**
Carbon Tetrachloride	µg/L	0.2	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**<50R**	**<100R**	**<100R**	**<0.20R**
Chlorobenzene	µg/L	0.2	30	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**<0.50R**
Chloroform	µg/L	0.2	22	<1.0	<1.0	<0.20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**<50R**	**<100R**	**<500R**	**<1.0R**
Dibromochloromethane	µg/L	0.5	25	<2.0	<2.0	<0.50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<50R**	**<100R**	**<1000R**	**<2.0R**
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**<0.50R**
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**<0.50R**
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**<0.50R**
Dichlorodifluoromethane	µg/L	1	590	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<100R**	**<200R**	**<1000R**	**<2.0R**
1,1-Dichloroethane	µg/L	0.2	5	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**5.25R**
1,2-Dichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**<0.50R**
1,1-Dichloroethylene	µg/L	0.2	14	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**33.9R**
cis-1,2-Dichloroethylene	µg/L	0.5	17	<0.50	0.85	6.1	**20.8**	**36.9**	<0.50	5.35	0.9	<0.50	0.68	<0.50	**2400R**	**1470R**	**1910R**	**1620R**
trans-1,2-Dichloroethylene	µg/L	0.5	17	<0.50	<0.50	<0.50	<0.50	<0.70	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**89.1R**
1,2-Dichloropropane	µg/L	0.2	5	<0.30	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<150R**	**<0.30R**
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<50R**	**<100R**	**<150R**	**<0.30R**
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.50	<0.30	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	-	-	**<210R**	**<0.50R**
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**<0.50R**
Ethylbenzene	µg/L	0.2	2.4	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**<0.50R**
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	-	-
Hexane (n)	µg/L	0.5	520	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	**<250R**	**<0.50R**
Methylene Chloride	µg/L	2	50	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	-	-	**<2500R**	**<5.0R**
Methyl Ethyl Ketone	µg/L	10	1800	<20	<20	<10	<20	<20	<20	<20	<20	<20	<20	<20	**<2000R**	**<4000R**	**<10000R**	**<20R**
Methyl Isobutyl Ketone	µg/L	5	640	<20	<20	<5.0	<20	<20	<20	<20	<20	<20	<20	<20	**<2000R**	**<4000R**	**<10000R**	**<20R**
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	<2.0	<0.50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**<50R**	**<100R**	**<1000R**	**<2.0R**
Styrene	µg/L	0.5	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**<0.50R**
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**<0.50R**
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**<0.50R**
Tetrachloroethylene	µg/L	0.2	17	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**8.44R**
Toluene	µg/L	0.2	24	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**0.76R**
1,1,1-Trichloroethane	µg/L	0.2	200	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**<0.50R**
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<50R**	**<100R**	**<250R**	**<0.50R**
Trichloroethylene	µg/L	0.5	5	1.82	0.58	**5.5**	**73.1**	**94.4**	1.34	**12.9**	1.36	1.22	0.84	0.77	**24000R**	**25000R**	**10700R**	**19100R**
Trichlorofluoromethane	µg/L	0.5	150	<5.0	<5.0	<0.50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**<100R**	**<200R**	**<2500R**	**<5.0R**
Vinyl Chloride	µg/L	0.2	1.7	<0.50	**2.23**	<0.20	<0.50	1.14	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**230R**	**220R**	**<250R**	**150R**
o-Xylene	µg/L	0.2	NR	<0.40	<0.30	<0.20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**<100R**	**<200R**	**<250R**	**<0.50R**
m+p-Xylene	µg/L	0.2	NR	<0.30	<0.40	<0.20	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	**<50R**	**<100R**	**<250R**	**<0.50R**
Xylene Mixture	µg/L	0.2	300	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**<150R**	**<300R**	**<350R**	**<0.71R**

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	RW1	RW1	RW1	RW1	RW1	RW1	RW1	RW1	RW1	RW1	RW1	RW1	RW1	RW1	BH101S
			Sample Name	RW	RW	RW	RW	RW	RW	RW	RW	RW	RW	RW	RW	RW	RW	BH101S
			Laboratory ID	L1143691-28	L1236205-30	L12922007-33	L1387784-31	L1453930-1	L1533707-8	L1699659-13	L1762387-1	L1844588-13	L1925873-55	L2195936-20	L2257510-20	L2380426-9	L2443052-14	L2027604-1
			Lab Job #	L1143691	L1236205	L12922007	L1387784	L1453930	L1533707	L1699659	L1762387	L1844588	L1925873	L2195936	L2257510	L2380426	L2443052	L2027604
			Sampling Date	30-Apr-12	6-Nov-12	18-Apr-13	31-Oct-13	9-May-14	14-Oct-14	4-Nov-15	27-Apr-16	12-Oct-16	8-May-17	12-Nov-18	10-Apr-19	7-Nov-19	27-Apr-20	24-Nov-17
			Well Screen Depth (mbgs)	4.88-6.40	4.88-6.40	4.88-6.40	4.88-6.40	4.88-6.40	4.88-6.40	4.88-6.40	4.88-6.40	4.88-6.40	4.88-6.40	4.88-6.40	4.88-6.40	4.88-6.40	4.88-6.40	1.52-4.57
			Consultant	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	**<6000R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30	<30	<30	<30	<30	<30	<30	<30
Benzene	µg/L	0.2	5	**<100R**	**<0.50R**	**0.82R**	**<0.50R**	**<0.50R**	**0.66R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	**<400R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	µg/L	1	25	**<1000R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	**<40R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	µg/L	0.2	22	**<200R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	**<400R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	**<400R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	**<100R**	**<0.50R**	**7.08R**	**<0.50R**	**<0.50R**	**4.12R**	**<0.50R**	2.86	<0.50	<0.50	<0.50	<0.50	**<13**	0.54	<0.50
1,2-Dichloroethane	µg/L	0.5	5	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	**<100R**	**<0.50R**	**31.4R**	**9.54R**	**<10R**	**12.4R**	**3.6R**	10.6	8.21	4.24	2.35	1.74	<13	5.26	0.73
cis-1,2-Dichloroethylene	µg/L	0.5	17	**2260R**	**1.54R**	**2110R**	**1830R**	**1920R**	**900R**	**1260R**	**1010**	**5980**	**1610**	**133**	**695**	**639**	**1940**	**198**
trans-1,2-Dichloroethylene	µg/L	0.5	17	**<100R**	**<0.50R**	**19.7R**	**11.8R**	**9.34R**	**7.88R**	**6.05R**	**<50**	16.1	5.91	1.68	3.95	<13	10.9	1.58
1,2-Dichloropropane	µg/L	0.2	5	**<60R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.50	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	**<60R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	**<85R**	-	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.30	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	-	-	-	-	-	-	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	2	50	**<1000R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20	<20	<20	<20	<20	<20	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	**<400R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	0.5	5.4	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	**<100R**	**<0.50R**	**18R**	**2.18R**	**<10R**	**39.9R**	**<0.50R**	12.6	<0.50	<0.50	0.98	<0.50	6.7	<0.50	<0.50
Toluene	µg/L	0.2	24	**<100R**	**<0.50R**	**0.96R**	**<0.50R**	**<0.50R**	**0.82R**	**<0.50R**	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	**<100R**	**<0.50R**	**<29R**	**<4.3R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<11	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	µg/L	0.5	5	**<100R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**13900R**	**<0.50R**	**19200R**	**2460R**	**244R**	**17900R**	**288R**	**10900**	**22.3**	**14.5**	**1090**	**26.7**	**6260**	**281**	**772**
Trichlorofluoromethane	µg/L	0.5	150	**<1000R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	**140R**	**<0.50R**	**171R**	**103R**	**67.3R**	**1.86R**	**66R**	**62.3**	**995**	**147**	**15.9**	**30.9**	**33**	**32.1**	**38**
o-Xylene	µg/L	0.2	NR	**<100R**	**<0.35R**	-	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.40	<0.30	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30
m+p-Xylene	µg/L	0.2	NR	**<100R**	**<0.35R**	-	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30	<0.40	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene Mixture	µg/L	0.2	300	**<140R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH102S	BH102S	BH103S	BH104S	BH105S	BH106S	BH107S	BH107S	BH109D	BH109D	BH109D	BH109D	BH110S	BH110S	BH112S
			Sample Name	BH102S	BH102S	BH103S	BH104S	BH105S	BH106S	BH107S	BH107S	BH109D	BH1090D	BH109D	BH109D	BH110S	BH1100	BH112S
			Laboratory ID	L2027604-2	GRN888	L2027604-3	L2027604-4	L2027604-5	L2027604-6	L2027604-7	L2085065-5	L2029000-8	L2029000-9	L2061580-1	B864417	L2027604-8	L2027604-13	L2027604-9
			Lab Job #	L2027604	B882534	L2027604	L2027604	L2027604	L2027604	L2027604	L2085065	L2029000	L2029000	L2061580	GHQ985	L2027604	L2027604	L2027604
			Sampling Date	24-Nov-17	11-May-18	24-Nov-17	24-Nov-17	24-Nov-17	24-Nov-17	24-Nov-17	24-Apr-18	28-Nov-17	28-Nov-17	27-Feb-18	22-Mar-18	24-Nov-17	24-Nov-17	24-Nov-17
			Well Screen Depth (mbgs)	1.52-4.57	1.52-4.57	1.83-4.88	1.83-4.88	1.52-4.57	0.91-3.96	1.52-4.57	1.52-4.57	16.77-18.29	16.77-18.29	16.77-18.29	16.77-18.29	2.13-5.18	2.13-5.18	1.52-4.57
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)										*Field duplicate sample of BH109D*				*Field duplicate sample of BH110S*	
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	<25	<30	<30	<30	47.00	<30	-	<30	<30	<30	<10	<30	<30	<30
Benzene	µg/L	0.2	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	<2.0	<1.3	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<0.50	<2.0	<2.0	<2.0
Bromoform	µg/L	1	25	<5.0	<2.5	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50
Chloroform	µg/L	0.2	22	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<0.20	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	<2.0	<1.3	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<0.50	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	<2.0	<2.5	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	1.96	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50
1,2-Dichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	0.56	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.60
1,1-Dichloroethylene	µg/L	0.2	14	6.15	3	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	µg/L	0.5	17	**708**	**620**	<0.50	12.00	<0.50	<0.50	<0.50	-	5.20	5.05	0.58	3.6	<0.50	<0.50	1.09
trans-1,2-Dichloroethylene	µg/L	0.5	17	8.72	10	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	µg/L	0.2	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	-	<0.30	<0.30	<0.30	<0.40	<0.30	<0.30	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	2	50	<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	5.90
Methyl Ethyl Ketone	µg/L	10	1800	<20	<25	<20	<20	<20	<20	<20	-	<20	<20	<20	<10	<20	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	<20	<13	<20	<20	<20	<20	<20	-	<20	<20	<20	<5.0	<20	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	<1.3	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<0.50	<2.0	<2.0	<2.0
Styrene	µg/L	0.5	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	**55.9**	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50
Toluene	µg/L	0.2	24	<0.50	<0.50	<0.50	<0.50	<0.50	0.65	<0.50	<0.50	0.50	0.51	<0.50	<0.20	<0.50	<0.50	0.61
1,1,1-Trichloroethane	µg/L	0.2	200	7.42	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**6870**	**150**	<0.50	**6.27**	<0.50	<0.50	<0.50	-	**23**	**23.1**	<0.50	**8.3**	<0.50	<0.50	<0.50
Trichlorofluoromethane	µg/L	0.5	150	<5.0	<1.3	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<0.50	<5.0	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	**69.4**	**89**	<0.50	**5.91**	<0.50	<0.50	<0.50	-	0.57	<0.50	<0.50	0.31	<0.50	<0.50	**15.1**
o-Xylene	µg/L	0.2	NR	0.45	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.40	<0.30	<0.30	<0.30	<0.20	<0.30	<0.30	<0.30
m+p-Xylene	µg/L	0.2	NR	<0.40	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.30	<0.40	<0.40	<0.40	<0.20	<0.40	<0.40	<0.40
Xylene Mixture	µg/L	0.2	300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	BH113S	BH113S	BH114D	BH117S	BH117S	BH118D	BH118D	BH120S	BH211S	BH211S	BH212S	BH213S	BH213S	BH216D	MW302S
			Sample Name	BH113S	BH1300	BH114D	BH117S	BH117S	BH118D	BH180D	BH120S	BH211S	BH2110S	BH212S	BH213S	BH213S	BH216D	MW302S
			Laboratory ID	L2027604-10	L2027604-14	L2029000-10	L2028320-1	GRN889	L2030566-5	L2030566-6	L2027604-11	L2085065-2	L2085065-7	L2085065-3	L2085065-4	L2118439-3	L2092060-6	MEI620
			Lab Job #	L2027604	L2027604	L2029000	L2028320	B882534	L2030566	L2030566	L2027604	L2085065	L2085065	L2085065	L2085065	L2118439	L2092060	C060962
			Sampling Date	24-Nov-17	24-Nov-17	28-Nov-17	27-Nov-17	11-May-18	1-Dec-17	1-Dec-17	24-Nov-17	24-Apr-18	24-Apr-18	24-Apr-18	24-Apr-18	22-Jun-18	9-May-18	5-Mar-2020
			Well Screen Depth (mbgs)	1.52-4.57	1.52-4.57	7.63-9.15	1.52-4.57	1.52-4.57	21.35-22.67	21.35-22.67	1.52-4.57	1.52-4.57	1.52-4.57	1.52-4.57	1.52-4.57	1.52-4.57	21.35-22.67	1.52-4.57
			Consultant	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE	MTE
			2011 Table 2 SCS (R/P/I, Med/Fine)		*Field duplicate sample of BH113S*								*Field duplicate sample of BH211S*					
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<30	<30	<30	<30	<10	<30	<30	<30	<30	-	<30	<30	-	<30	<10
Benzene	µg/L	0.2	5	<0.50	<0.50	<0.50	0.50	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	1.49	1.02	<0.50	<0.50	<0.20
Bromodichloromethane	µg/L	0.5	16	<2.0	<2.0	<2.0	<2.0	<0.50	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	-	<2.0	<0.50
Bromoform	µg/L	1	25	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	-	<5.0	<1.0
Bromomethane	µg/L	0.5	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	-	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.20
Chloroform	µg/L	0.2	22	1.50	1.50	<1.0	<2.0	<0.20	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	-	<1.0	<0.20
Dibromochloromethane	µg/L	0.5	25	<2.0	<2.0	<2.0	<1.0	<0.50	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	-	<2.0	<0.50
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	<2.0	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	-	<2.0	<1.0
1,1-Dichloroethane	µg/L	0.2	5	<0.50	<0.50	<0.50	0.98	0.48	<0.50	<0.50	<0.50	<0.50	-	3.98	2.97	-	<0.50	<0.20
1,2-Dichloroethane	µg/L	0.5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	**31.8**	**31.8**	1.22	3.58	4.5	<0.50	<0.50	<0.50	<0.50	-	**37.3**	**22**	-	<0.50	<0.20
cis-1,2-Dichloroethylene	µg/L	0.5	17	**9380**	**9850**	**19.4**	**342**	**350**	<0.50	<0.50	6.10	<0.50	-	**1810**	**1170**	-	<0.50	<0.50
trans-1,2-Dichloroethylene	µg/L	0.5	17	**53.7**	**58.5**	1.66	**19.7**	**35**	<0.50	<0.50	<0.50	<0.50	-	**27.2**	**17.5**	-	<0.50	<0.50
1,2-Dichloropropane	µg/L	0.2	5	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.20
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	-	<0.30	<0.30	-	<0.45	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	<0.30	<0.30	<0.30	<0.40	<0.30	<0.30	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.40
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	-	**<0.54R**	<0.50
Ethylbenzene	µg/L	0.2	2.4	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	-	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<1.0
Methylene Chloride	µg/L	2	50	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	-	<5.0	<2.0
Methyl Ethyl Ketone	µg/L	10	1800	<20	<20	<20	<20	<10	<20	<20	<20	<20	-	<20	<20	-	<20	<10
Methyl Isobutyl Ketone	µg/L	5	640	<20	<20	<20	<20	<5.0	<20	<20	<20	<20	-	<20	<20	-	<20	<5.0
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0	<2.0	<2.0	<2.0	<0.50	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	-	<2.0	<0.50
Styrene	µg/L	0.5	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	5.15	5.35	<0.50	<0.50	0.38	<0.50	<0.50	<0.50	<0.50	-	**23.1**	13.3	-	<0.50	<0.20
Toluene	µg/L	0.2	24	<0.50	<0.50	0.52	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	0.77	1.10	1.15	15.20	0.39
1,1,1-Trichloroethane	µg/L	0.2	200	<1.6	<1.7	<0.50	<8.0	<0.20	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.20
1,1,2-Trichloroethane	µg/L	0.5	5	**5.76**	**5.53**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	2.68	<0.50	-	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	**6110**	**6760**	**560**	**1250**	**1500**	<0.50	<0.50	**7.63**	**18.4**	-	**25600**	**18300**	-	0.79	<0.20
Trichlorofluoromethane	µg/L	0.5	150	<5.0	<5.0	<5.0	<5.0	<0.50	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	-	<5.0	<0.50
Vinyl Chloride	µg/L	0.2	1.7	**549**	**611**	**2.52**	**27**	**26**	<0.50	<0.50	**2.36**	<0.50	-	**140**	**64**	-	<0.50	<0.20
o-Xylene	µg/L	0.2	NR	<0.30	<0.30	<0.30	<0.30	<0.20	<0.30	<0.30	<0.30	<0.30	<0.40	<0.30	0.43	<0.40	<0.30	<0.20
m+p-Xylene	µg/L	0.2	NR	<0.40	<0.40	<0.40	<0.40	<0.20	<0.40	<0.40	<0.40	<0.40	<0.30	<0.40	<0.40	<0.30	<0.40	<0.20
Xylene Mixture	µg/L	0.2	300	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	MW1302S	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
			Sample Name	MW1302S	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
			Laboratory ID	MEI621	L1145702-30	L1453930-29	L1453930-30	L1455224-15	L1533707-12	L1533716-14	L1610038-19	L1609442-20	L2027604-15	L2029000-11	L2030566-7	L2085065-1	L2087604-53	L2087604-54
			Lab Job #	C060962	L11145702	L1453930	L1453930	L1455224	L1533707	L1533716	L1610038	L1609442	L2027604	L2029000	L2030566	L2085065	L2087604	L2087604
			Sampling Date	5-Mar-2020	4-May-12	9-May-14	10-May-14	13-May-14	14-Oct-14	15-Oct-14	7-May-15	6-May-15	24-Nov-17	28-Nov-17	1-Dec-17	24-Apr-18	27-Apr-18	27-Apr-18
			Well Screen Depth (mbgs)	1.52-4.57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Consultant	MTE	AB	AB	AB	AB	AB	AB	AB	AB	MTE	MTE	MTE	MTE	AB	AB
			2011 Table 2 SCS (R/P/I, Med/Fine)															
Volatile Organic Compounds (VOCs)																		
Acetone	µg/L	10	2700	<10	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	**<30R**	<30T	<30T	<30T	<30T	<30	<30
Benzene	µg/L	0.2	5	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
Bromodichloromethane	µg/L	0.5	16	<0.50	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0T	<2.0T	<2.0T	<2.0T	<2.0	<2.0
Bromoform	µg/L	1	25	<1.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0T	<5.0T	<5.0T	<5.0T	<5.0	<5.0
Bromomethane	µg/L	0.5	0.89	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.2	5	<0.20	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	**<0.20R**	<0.20T	<0.20T	<0.20T	<0.20T	<0.20	<0.20
Chlorobenzene	µg/L	0.2	30	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
Chloroform	µg/L	0.2	22	<0.20	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	**<1.0R**	<1.0T	<1.0T	<1.0T	<1.0T	<1.0	<1.0
Dibromochloromethane	µg/L	0.5	25	<0.50	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0T	<2.0T	<2.0T	<2.0T	<2.0	<2.0
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
Dichlorodifluoromethane	µg/L	1	590	<1.0	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0T	<2.0T	<2.0T	<2.0T	<2.0	<2.0
1,1-Dichloroethane	µg/L	0.2	5	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
1,2-Dichloroethane	µg/L	0.5	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
1,1-Dichloroethylene	µg/L	0.2	14	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
cis-1,2-Dichloroethylene	µg/L	0.5	17	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
trans-1,2-Dichloroethylene	µg/L	0.5	17	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
1,2-Dichloropropane	µg/L	0.2	5	<0.20	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.30T	<0.30T	<0.30T	<0.30T	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.40	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.30T	<0.30T	<0.30T	<0.30T	<0.30	<0.30
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
Ethylbenzene	µg/L	0.2	2.4	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
Ethylene Dibromide	µg/L	0.2	0.2	<0.20	-	-	-	-	-	-	-	-	<0.20T	<0.20T	<0.20T	<0.20T	<0.20	<0.20
Hexane (n)	µg/L	0.5	520	<1.0	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
Methylene Chloride	µg/L	2	50	<2.0	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0T	<5.0T	<5.0T	<5.0T	<5.0	<5.0
Methyl Ethyl Ketone	µg/L	10	1800	<10	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20T	<20T	<20T	<20T	<20	<20
Methyl Isobutyl Ketone	µg/L	5	640	<5.0	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	**<20R**	<20T	<20T	<20T	<20T	<20	<20
Methyl Tert-Butyl Ether	µg/L	0.5	15	<0.50	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	**<2.0R**	<2.0T	<2.0T	<2.0T	<2.0T	<2.0	<2.0
Styrene	µg/L	0.5	5.4	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
Tetrachloroethylene	µg/L	0.2	17	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
Toluene	µg/L	0.2	24	0.33	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
1,1,1-Trichloroethane	µg/L	0.2	200	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
Trichloroethylene	µg/L	0.5	5	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
Trichlorofluoromethane	µg/L	0.5	150	<0.50	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	**<5.0R**	<5.0T	<5.0T	<5.0T	<5.0T	<5.0	<5.0
Vinyl Chloride	µg/L	0.2	1.7	<0.20	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50
o-Xylene	µg/L	0.2	NR	<0.20	**<0.50R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	**<0.40R**	<0.30T	<0.30T	<0.30T	<0.30T	<0.30	<0.30
m+p-Xylene	µg/L	0.2	NR	<0.20	**<0.50R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	**<0.30R**	<0.40T	<0.40T	<0.40T	<0.40T	<0.40	<0.40
Xylene Mixture	µg/L	0.2	300	<0.20	**<0.71R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	**<0.50R**	<0.50T	<0.50T	<0.50T	<0.50T	<0.50	<0.50

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Table 16: Groundwater Analytical Results For Volatile Organic Compounds (VOCs)

Parameters	Unit	RDL	Sample Location	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK		Maximum Concentration
			Sample Name	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK		
			Laboratory ID	L2092060-7	L2195936-59	L2195936-60	L2257510-54	L2257510-55	L2380427-5	MEI623		
			Lab Job #	L2092060	L2195936	L2195936	L2257510	L2257510	L2380427	C060962		
			Sampling Date	9-May-18	12-Nov-18	12-Nov-18	11-Apr-19	11-Apr-19	5-Nov-19	5-Mar-2020		
			Well Screen Depth (mbgs)	NA	NA	NA	NA	NA	NA	NA		
			Consultant	MTE	AB	AB	AB	AB	AB	MTE		
			2011 Table 2 SCS (R/P/I, Med/Fine)									
Volatile Organic Compounds (VOCs)												
Acetone	µg/L	10	2700	<30T	<30	<30	<30	<30	<30	<10T	<	600
Benzene	µg/L	0.2	5	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20T	<	**10**
Bromodichloromethane	µg/L	0.5	16	<2.0T	<2.0	<2.0	<2.0	<2.0	<2.0	<0.50T	<	2
Bromoform	µg/L	1	25	<5.0T	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0T	<	5
Bromomethane	µg/L	0.5	0.89	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50T	<	0.5
Carbon Tetrachloride	µg/L	0.2	5	<0.20T	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20T	<	4
Chlorobenzene	µg/L	0.2	30	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20T	<	10
Chloroform	µg/L	0.2	22	<1.0T	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20T	<	20
Dibromochloromethane	µg/L	0.5	25	<2.0T	<2.0	<2.0	<2.0	<2.0	<2.0	<0.50T	<	20
1,2-Dichlorobenzene	µg/L	0.5	3	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50T	<	0.5
1,3-Dichlorobenzene	µg/L	0.5	59	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50T	<	10
1,4-Dichlorobenzene	µg/L	0.5	1	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50T	<	0.5
Dichlorodifluoromethane	µg/L	1	590	<2.0T	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0T	<	40
1,1-Dichloroethane	µg/L	0.2	5	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20T	<	**250**
1,2-Dichloroethane	µg/L	0.5	5	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50T	<	5
1,1-Dichloroethylene	µg/L	0.2	14	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20T		**119**
cis-1,2-Dichloroethylene	µg/L	0.5	17	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50T		**19700**
trans-1,2-Dichloroethylene	µg/L	0.5	17	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50T		**69.6**
1,2-Dichloropropane	µg/L	0.2	5	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20T	<	3
cis-1,3-Dichloropropene	µg/L	0.3	NR	<0.30T	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30T	<	6
trans-1,3-Dichloropropene	µg/L	0.3	NR	<0.30T	<0.30	<0.30	<0.30	<0.30	<0.30	<0.40T	<	8.5
1,3-Dichloropropene	µg/L	0.5	0.5	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50T	<	0.5
Ethylbenzene	µg/L	0.2	2.4	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20T	<	0.5
Ethylene Dibromide	µg/L	0.2	0.2	<0.20T	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20T	<	0.2
Hexane (n)	µg/L	0.5	520	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0T	<	10
Methylene Chloride	µg/L	2	50	<5.0T	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0T	<	50
Methyl Ethyl Ketone	µg/L	10	1800	<20T	<20	<20	<20	<20	<20	<10T	<	400
Methyl Isobutyl Ketone	µg/L	5	640	<20T	<20	<20	<20	<20	<20	<5.0T	<	400
Methyl Tert-Butyl Ether	µg/L	0.5	15	<2.0T	<2.0	<2.0	<2.0	<2.0	<2.0	<0.50T	<	10
Styrene	µg/L	0.5	5.4	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50T	<	5
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50T	<	0.5
1,1,2,2-Tetrachloroethane	µg/L	0.5	1	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50T	<	0.5
Tetrachloroethylene	µg/L	0.2	17	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20T		**71.9**
Toluene	µg/L	0.2	24	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20T		15.2
1,1,1-Trichloroethane	µg/L	0.2	200	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20T	<	170
1,1,2-Trichloroethane	µg/L	0.5	5	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50T	<	**10**
Trichloroethylene	µg/L	0.5	5	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20T		**66200**
Trichlorofluoromethane	µg/L	0.5	150	<5.0T	<5.0	<5.0	<5.0	<5.0	<5.0	<0.50T	<	100
Vinyl Chloride	µg/L	0.2	1.7	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20T		**4090**
o-Xylene	µg/L	0.2	NR	<0.30T	<0.30	<0.30	<0.30	<0.30	<0.30	<0.20T	<	8
m+p-Xylene	µg/L	0.2	NR	<0.40T	<0.40	<0.40	<0.40	<0.40	<0.40	<0.20T	<	6
Xylene Mixture	µg/L	0.2	300	<0.50T	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20T	<	10

Notes:

2011 Table 2 SCS - As identified for groundwater in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 2 SCS
Bold	- Detection limit exceeds 2011 Table 2 SCS
R	- Results rejected by QPESA. Refer to Phase Two ESA report for details and rationale.

RDL - Reported detection limit
NR - Not Relevant
"-" - Not Analysed
"<" - Less than the Reporting Detection Limit

Appendix A1

Sampling and Analysis Plan

SAMPLING & ANALYSIS PLAN

PROJECT NAME:	Phase Two ESA – 2362 Fairview Street, Burlington, ON
LOCATION:	2362 Fairview Street, Burlington, ON
DISTRIBUTION:	Anthony Puntillo, B.Sc., G.I.T., Field Technician Thomas Jones, P.Eng., Qualified Person (QP_{ESA}) Spencer Buck, B.Sc., Project Manager
CLIENT CONTACT:	Mr. Jay Lockwood, Lockwood Auto Group Inc.
MTE FILE NO.:	38934-100
DATE:	November 2017
PREPARED BY:	Spencer Buck
REVIEWED BY:	Thomas Jones

The purpose of this Sampling and Analysis Plan (SAP) is to outline the procedures to follow during the completion of the Phase Two ESA and includes a summary of the following:

- Media to be sampled;
- Sampling methods;
- Numbers of samples and sampling locations,
- Field measurements to be collected; and
- Laboratory analysis.

The SAP is a required component of a Phase Two ESA and applies to the Phase Two ESA Property located at 2362 Fairview Street in Burlington, Ontario ("the Phase Two Property" or "Site"). The SAP was developed under the supervision of a Qualified Person (QP_{ESA}) and considers the potentially contaminating activities (PCAs) and contaminants of potential concern (COPC) identified by the Phase One ESA. All COPCs are to be sampled and analyzed to characterize the environmental condition of the Site.

1. INTRODUCTION

The Phase Two ESA is required in accordance with Ontario Regulation 153/04 (as amended) to support the filing of a Record of Site Condition (RSC) for the Site. The SAP was prepared following a review of information obtained about the Site during a Phase One ESA (MTE, 2017).

The results of the Phase One ESA confirmed that the Phase Two Property is not located within 30m of a surface water body, is located within a municipality that does not rely on groundwater as a source of drinking water and there is greater than 2m of overburden present above bedrock. Written Notifications of Intent to use non-potable groundwater SCSs were sent to the

City of Burlington and Regional Municipality of Halton on May 10th, 2018. The Region of Halton responded in a letter dated May 31st, 2018 and objected to the use of non-potable groundwater condition standards based on the presence of a "highly vulnerable aquifer" in the vicinity of the Site. The results of the borehole drilling identified the native soils to primarily consist of silty clay till over silty fine sand, which represent more than 2/3 of the Site soil by volume. The results of soil grain size analyses (attached at the end of this summary) indicated that both soil units are characterized as medium and fine texture soil. The analytical results for soil and groundwater samples will therefore be compared to the Table 2 Site Condition Standards (SCSs) from *Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011,* and those for Residential/Parkland/Institutional property use and medium-fine textured soil (the "2011 Table 2 RPI SCSs").

The Phase One ESA identified APECs on the Phase Two Property, which are summarized in the APEC table in **Appendix A7** of the Phase Two ESA.

2. SCOPE OF INVESTIGATION

The scope of the Phase Two ESA was designed to assess the following APECs (where needed) and further delineate the lateral and vertical extent of contamination on the Site.

APEC 1 – Presence of former on-Site drum storage

- APEC 1 was the former on-Site drum storage area (PCA 8), and included the area along the northern half of the east wall of the former main building and the interior of the former Quonset Hut. Soil and/or groundwater samples will be collected from the following sampling locations: BH42(U,S), BH101S, BH108S, BH113S, BH202S and BH210S and submitted for analysis of the COPCs within APEC 1, which included petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene, xylenes (BTEX) and volatile organic compounds (VOCs).

APEC 2 – Former on-Site waste oil UST area

- APEC 2 was the former on-Site waste oil UST area (PCA 28) located in the central portion of the Site, between the former main building and the former Quonset Hut. Soil and/or groundwater samples will be collected from the following sampling locations: BH102S and BH210S and submitted for analysis of the COPCs within APEC 2, which included PHCs, BTEX, VOCs, metals, arsenic (As), antimony (Sb), selenium (Se), mercury (Hg) and polychlorinated biphenyls (PCBs). The depth of the former USTs was not known; however, samples will be collected at multiple locations and intervals between 1.5m and 4.5m bgs, including from between 2.7m and 3.0m, the expected depth below the former USTs.

APEC 3 – Former on-Site gasoline AST area

- APEC 3 was the former on-Site gasoline AST area (PCA 28), which was reported to

have been located along the northern half of east wall of the former main building. Soil and/or groundwater samples will be collected from the following sampling locations: BH42(U,S), BH101S, BH108S, BH113S, BH202S and BH210S and will be submitted for analysis of the COPCs within APEC 3, which included PHCs, BTEX and VOCs.

APEC 4 – Fill material of unknown quality

- APEC 4 included the entire Site where fill material of unknown quality (PCA 30) was observed during previous investigations. Soil fill samples will be collected from borehole locations across the Site and submitted for analysis of the COPCs within APEC 4, which included PHCs, VOCs, metals, As, Sb, Se, Hg, hexavalent chromium (Cr (VI)), boron hot water soluble (B-HWS), cyanide (CN^-), electrical conductivity (EC), sodium adsorption ratio (SAR), low or high pH, and polycyclic aromatic hydrocarbons (PAHs).

APEC 5 – Former soil remediation areas

- APEC 5 was defined as the former soil remediation areas, located in the central, eastern and southern portions of the Site, where fill material of unknown quality (PCA 30) was imported to backfill the excavations. APEC 5 will be evaluated through the collection and analysis of soil fill samples for the COPCs from boreholes within APEC 5, which included PHCs, metals, As, Sb, Se, Hg, Cr (VI), B-HWS, CN^-, EC, SAR, low or high pH, and PAHs.

APEC 6 and 7 – Former on-Site machine shops and TCE degreasing AST

- APEC 6 and APEC 7 had the same boundary that was defined as the footprint of the former main building, which was occupied by two machine shops (PCA 34), and where historical records indicated a TCE degreasing AST was located (PCA 51). APEC 7 was defined as the building footprint as the location of the AST was not known. The COPCs within APEC 6 included PHCs, BTEX, VOCs, metals, As, Sb, Se, Hg, Cr (VI), B-HWS, CN^- and acid-base-neutral compounds (ABNs). The COPCs in APEC 7 included VOCs. Soil and/or groundwater samples will be collected from the following boreholes/water table monitoring wells for analysis of one or more of the COPCs: BH22S, BH40(U,S), BH41(U,S), BH43(U,S), BH101S, BH102S, BH104S, BH108S, BH111S, BH113S, BH115S, BH204S, BH205S, BH209S and BH210S.

APEC 8 – Former on-Site truck repairs

- APEC 8 included the entire Site where historical diesel truck repairs may have been completed. The location of these activities on the Site was not known. The COPCs within APEC 8 included PHCs, BTEX, VOCs, metals, As, Sb and Se. Shallow soil samples, fill samples and groundwater samples will be collected from boreholes and water table monitoring wells across the Site for analysis of these COPCs.

APEC 9 – Former on-Site transformer area

- APEC 9 was defined as the former on-Site transformer area (PCA 55) located in the northwestern portion of the Site. Shallow soil samples (0.3-0.6m) will be collected from two boreholes, BH214S and BH215S, and submitted for analysis of the COPCs within APEC 9, which included PHCs, BTEX and PCBs.

APEC 10 – On-Site VOC detections in groundwater

- APEC 10 was defined as the entire Site based on the detections of VOCs in groundwater during previous environmental investigations. The COPCs within APEC 10 included VOCs. Groundwater samples will be collected from all monitoring wells on the Site and submitted for analysis of VOCs.

APECs 11 to 13 – Historical industrial activities (off-Site) to the west

- APECs 11, 12 and 13 had the same boundary defined as the southwestern portion of the Site based on the presence of a former fuel UST to the west (PCA 28), industrial machinery manufacturing to the west (PCA 34), and auto repairs to west (PCA 27). Groundwater samples will be collected from the following water table monitoring wells: BH2S, BH106S, BH107S and BH110S and submitted for analysis of the COPCs within these APECs, which included one or all of PHCs, BTEX, VOCS, metals, As, Sb, Se, Hg and Cr (VI).

APECs 14 – Historical industrial activities (off-Site) to the east

- APEC 14 was defined as the northeastern portion of the Site based on the historical presence of a carpet retailer (where cleaning with chemicals may have been conducted) on the adjoining property to the east (PCA 37). Groundwater samples will be collected from water table monitoring wells BH5S, BH6S, BH105S and BH120S for analysis of the COPCs within APEC 14, which included VOCs.

APECs 15 to 18 – Historical industrial activities (off-Site) to the north

- APECs 15, 16, 17 and 18 had the same boundary defined as the northwestern portion of the Site based on the presence of a former off-Site retail fuel outlet with USTs (PCA 28), an off-Site plastics products manufacturer with TCE USTs that were documented to have leaked (PCA 43 and PCA 51), and the presence of an off-Site auto repair business (PCA 27) north of the Site. Groundwater samples will be collected from monitoring wells BH1S, BH1D, BH46S, BH46D, BH47S, BH47D, BH48S, BH48D, BH105S, BH106S, BH109D, and BH110S and submitted for analysis of the COPCs within these APECs, which included PHCs, BTEX, VOCs, metals, As, Sb and Se. Groundwater samples will be collected for analysis of VOCs from all overburden and bedrock monitoring wells in this APEC to evaluate the migration of impacted groundwater onto the Site as a result of off-Site PCA 51 (leaking TCE USTs).

SAMPLING & ANALYSIS PLAN

The Phase Two Property does not include a surface water body, and therefore no surface water or sediment samples will be collected.

Tasks relating to the Phase Two ESA will include:

- Preparation of a Site Specific Health and Safety Plan (HASP);
- Preparation of this Sampling and Analysis Plan based on the results of the Phase One ESA;
- Review of MTE Standard Operating Procedures for borehole and monitoring well installation, equipment calibration, groundwater sampling, disposal of soil cuttings and development water and equipment decontamination;
- Completing a monitoring well survey to evaluate the condition and functionality of existing monitoring wells previously installed at the Phase Two Property;
- Drilling of 38 boreholes, with 19 completed as a permanent monitoring well, to evaluate the presence or absence of soil and groundwater impacts within the APECs;
- Assessment and field screening of soil samples from each borehole for the presence of environmental impacts;
- Submission of selected soil samples to an accredited laboratory for analysis of one or more of metals, As, Sb, Se, B-HWS, Hg, Cr (VI), CN^-, EC, SAR, pH, ABNs, PCBs, PAHs, PHCs, BTEX and VOCs under Chain-of-Custody;
- Collecting groundwater samples from the newly installed monitoring wells and selected existing wells for submission to an accredited laboratory for analysis of metals, As, Sb, Se, Hg, Cr (VI), CN^-, Na, Cl, pH, ABNs, PCBs, PAHs, PHCs, BTEX and VOCs under Chain-of-Custody;
- Measurement of water levels and elevation surveying of the monitoring wells to allow for determination of groundwater flow conditions and hydraulic gradients;
- Conducting slug tests on selected wells to estimate hydraulic conductivity;
- Implementing and evaluating Quality Assurance/Quality control (QA/QC) procedures for field sampling activities and laboratory analytical data;
- Site photographs of the field activities;
- Preparation of a Phase Two Conceptual Site Model (CSM); and
- Data analysis and report preparation.

The selection of soil samples for laboratory analysis during this Phase Two ESA will be completed in consultation with the QP_{ESA} and be based on the results of the field observations, soil headspace readings and to assess the COPCs in each APEC. All samples shall be

submitted under chain-of-custody to ALS Laboratories and Maxxam Analytics.

3. STANDARD OPERATING PROCEDURES

MTE technical staff shall review and follow the following MTE Standard Operating Procedures:

- 5.ENV.3(5)(a) - Borehole Drilling;
- 5.ENV.3(5)(d) - Field Screening Measurements (Soil) and Equipment Calibration;
- 5.ENV.3(5)(e) - Monitoring Well Installation;
- 5.ENV.3(5)(f) - Monitoring Well Development;
- 5.ENV.3(5)(g) - Field Measurement of Water Quality and Equipment Calibration; and,
- 5.ENV.3(5)(i) - Groundwater Sampling.

4. HEALTH AND SAFETY PROGRAM

Contaminants of Potential Concern in soil and/or groundwater identified by the Phase One ESA include metals, As, Sb, Se, B-HWS, Hg, Cr (VI), CN^-, EC, SAR, ABNs, PCBs, PAHs, PHCs, BTEX and VOCs.

The prepared Health and Safety Plan shall be reviewed and followed. MTE personnel shall wear safety boots, safety glasses, reflective vests, nitrile gloves and long pants for the duration of all sampling activities. Hearing protection shall be worn during drilling activities.

Access to the Site is provided from Fairview Street. MTE staff shall park in a designated parking spot during the sampling and field activities. Site sign-in procedures for working alone include notification of arrival and departure and periodic check-ins will be as required by the client or project manager.

Utility services shall be located and marked by the utility provider through Ontario One Call prior to drilling. A private locator will also be contracted to clear all drilling locations prior to the commencement of fieldwork.

5. FIELD ACTIVITIES

Calibration of field monitoring equipment shall be performed according to manufacturers' recommendations and the MTE SOP to ensure proper operation in the field.

Field screening:	Soils from soil cores shall be field screened at each sampling location. This will include recording visual evidence of staining, non-soil materials or odours. Organic vapour measurements shall be measured from soil cores at each sampling location.
Sampling from boreholes:	Undisturbed soil samples shall be taken from a plastic core obtained by direct push percussion drilling or split spoons obtained by conventional drilling.

SAMPLING & ANALYSIS PLAN

Soil samples being analyzed for volatile parameters (F1 PHCs, BTEX) shall be collected following EPA Method 5035, which includes collecting approximately 5 grams of soil from the undisturbed soil core for placement in a VOC vile containing methanol preservative.

Soil samples collected for other parameters will be collected in 120 mL or 250 mL unpreserved glass jars supplied by the laboratory.

Water levels: Water levels shall be collected prior to any purging of the wells. The water level and/or interface probe is to be decontaminated between sampling locations as indicated in the MTE SOP.

Field chemistry: Parameters include conductivity, pH, temperature, dissolved oxygen, oxidation reduction potential and turbidity will be recorded during well purging until stabilized measurements are recorded. If the monitoring well does not provide sufficient water, each monitoring well should be purged dry at least three times.

The following details the container types and preservatives for the soil analytes:

Soil Analyte Group	Container Type	Preservative
PHC F1, BTEX, VOCs	2 – 40mL clear glass vials	Methanol
PHC F2-F4, ABNs, PAHs, PCBs, metals, As,Sb,Se, Hg, Cr VI, CN-, EC, SAR, B-HWS, pH	1 – 250mL clear glass jar	None

Groundwater samples analyzed for PHC F1, BTEX and VOCs will be placed in septum vials, with Teflon® lined lids with zero head space, provided by the laboratory as follows:

Groundwater Analysis Group	Container Type	Preservative
PHC F1, VOCs, BTEX	3 – 40ml Amber Vials	$NaHS0_4$
PHC F2-F4, PAHs	2 – 500ml Amber Glass Bottle	$NaHS0_4$
PCBs	2 – 500ml Amber Glass Bottle	None
ABNs	2 – 1L Amber Glass Bottle	None
metals, As, Sb, Se	1 – 125ml Plastic Bottle (Field Filtered)	HNO_3

Groundwater Analysis Group	Container Type	Preservative
Hg	1 – 100ml Clear Glass Bottle (Field Filtered)	HCl
Cr (VI)	1 – 125ml Plastic Bottle (Field Filtered)	$(NH_4)_2SO_4NH_4OH$
CN^-	1 – 125ml Plastic Bottle	NaOH
pH, Sodium, Chloride	1 – 250ml Plastic Bottle	None

The samples shall be placed immediately after collection into insulated coolers with sufficient ice to initiate cooling prior to and during transportation to ALS or Maxxam.

Field forms are to be maintained by technical staff to record data collection and sampling activities. The equipment used to collect samples shall be noted, along with the time of sampling, sampling description, depth from which the samples were collected and volume and number of containers. All samples are to be accompanied by a completed chain-of-custody record which lists each sample identifier, sampling date and time, sample matrix, the number of containers and analytical parameters for which the sample is to be tested.

6. PHYSICAL IMPEDIMENTS AND FIELD CHANGES

There are no known physical or access impediments to completing the scope or work.

Conditions such as weather, buried utilities or minimum clearance requirements may require alteration and revision of the investigation and sampling plan. If these situations arise they should be reported to the MTE Project Manager and QP_{ESA} as soon as possible for instruction and revisions.

7. QUALITY ASSURANCE AND QUALITY CONTROL PLAN

The quality of data depends upon planning, sampling, analysis and reporting. A data quality evaluation process will be implemented to demonstrate that a sufficient number of representative samples were collected and the analytical results can be used to support the decision making process. Samples or a specific analyte in a sample can be rejected as unusable or qualified due to potential bias of the result.

Field quality control measures including trip blanks and field duplicates shall be guided by Regulation 153/04 (as amended):

- One field duplicate for every 10 samples collected; and
- One trip blank to accompany each batch submission of VOC samples in groundwater.

The QA/QC review will include confirmation with the lab that all samples were received in good condition, within an acceptable temperature range and that the holding times, preservation

requirements and proper number of containers was met.

The QP_{ESA} will review the analytical results including occurrences where the data has been qualified due to sample dilution, matrix interference, or elevated laboratory detection limits. The Relative Percent Difference (RPD) between samples and their field duplicates will also be evaluated, with the acceptance criteria being 30% for groundwater and 50% for soil.

SAMPLING & ANALYSIS PLAN – ADDENDUM 1

PROJECT NAME:	Phase Two ESA – 2362 Fairview Street, Burlington, ON
LOCATION:	2362 Fairview Street, Burlington, ON
DISTRIBUTION:	Anthony Puntillo, P.Geo., Field Technician Thomas Jones, P.Eng., Qualified Person (QP_{ESA}) Spencer Buck, B.Sc., Project Manager
CLIENT CONTACT:	Mr. Jay Lockwood, Lockwood Auto Group Inc.
MTE FILE NO.:	38934-100
DATE:	February 2020
PREPARED BY:	Anthony Puntillo
REVIEWED BY:	Thomas Jones

Based on the results of the soil and groundwater analysis completed as part of the Phase Two ESA between November 2017 and July 2018, as outlined in the Sampling and Analysis Plan dated November 2017, and comments received from the MECP in response to a Risk Assessment Pre-Submission Form submission, additional investigation of APECs is required as part of this Phase Two ESA. This *Addendum 1* outlines the scope of work for the additional soil and groundwater investigation. This *Addendum 1* should be read in conjunction with the *Sampling and Analysis Plan* dated January 2017.

An additional 16 boreholes, with one completed as a permamentn monitoring well, will be advanced in order to investigate additional potential impacts in soil and groundwater as a result of historical activities on the Site.

<u>Tasks relating to the Phase Two ESA will include:</u>

- A Site Specific Health and Safety Plan (HASP) including – safety provisions for project team members (i.e. protective gloves, hard hat, safety boots and safety glasses);
- Preparation of this Sampling and Analysis Plan – Addendum 1 based on the Phase Two ESA;
- Review of MTE Standard Operating Procedures for borehole drilling, field screening measurements, monitoring well installation and development, field measurement of water quality, equipment calibration, soil sampling and groundwater sampling;
- Advancement of 16 boreholes, with one completed as a permanent monitoring well, to investigate additional potential soil impacts;
- Assessment and field screening of soil samples from each test hole for the presence of

environmental impacts;
- Submission of selected soil and groundwater samples for laboratory analysis of contaminants of potential concern: one or more of metals, As, Sb, Se, polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene, xylene (BTEX) and volatile organic compounds (VOCs) according to chain-of-custody procedures;
- Quality Assurance/Quality control (QA/QC) procedures for field activities and laboratory data;
- Photographic record of field activities;
- Preparation of a Phase Two Conceptual Site Model (CSM); and
- Data analysis and report preparation.

All samples shall be submitted under chain-of-custody to Bureau Veritas Laboratories.

This *Addendum 1* should be read in conjunction with the *Sampling and Analysis Plan* dated January 2017.

Appendix A2

Borehole Logs and Site Photographs

Borehole Number: BH101S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

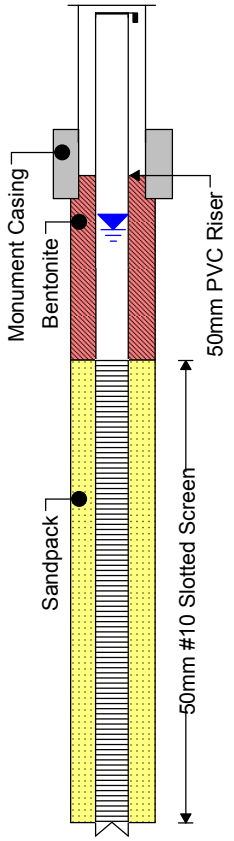
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/22/2017

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA/CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 ft / 0 m		Ground Surface	97.9						
		FILL Granular underlain by sand with silt, light brown, moist	0.0	1	SS	70	Metals ORPs, PAHs, PCBs	0	
2			97.2						
		Dark staining from 0.91 to 1.22 mbgs, native silty till in tip	0.8	2	SS	70	ABNs	0	
4			96.5						
		SILTY CLAY TILL Light brown, dense	1.4	3	SS	90	pH	0, 6	
6 / 2			95.6						
		Turns grey with depth	2.3	4	SS	90	VOCs	25, 27	
8			95.0						
		Increase silt content with depth	2.9	5	SS	90		10, 6	
10			94.3						
12		Light brown, wet from 3.81 to 4.27 mbgs	3.7	6	SS	70		55, 165	
4			93.7						
14		Light grey	4.3						
		SILTY SAND Light brown, trace gravel, wet		7	SS	90	PHCs, VOCs	40, 250	
16									
18			92.3	8	SS	90	VOCs	10, 20	
		End of Borehole	5.6						
6 / 20									
22									



Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH102S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/15/2017

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface	98.1						
		FILL Light brown sand and gravel fill, some silt (increases with depth), moist	0.0	1	CS	50	Metals ORPs, PAHs, PCBs	0	
4 / 2		**SILTY CLAY TILL** Light brown, dense	96.9 1.2 96.6						
		Shale fragments throughout, wet from 1.52 to 1.68 mbgs	1.5	2	CS	100	PHCs, VOCs	25 62	
							PHCs, VOCs	35 402	
10 / 4		Wet seams throughout	95.1 3.0	3	CS	100		40 20	
			93.5				PHCs, VOCs	40 >500	
16 / 6		Dense from 4.57 to 5.18 mbgs Wet and soft from 5.18 to 5.49 mbgs	4.6	4	CS	100			
			92.6				VOCs	0 5	
18 / 6		End of Borehole	5.5						

Well Completion Details: Monument Casing; Bentonite; 50mm PVC Riser; Sandpack; 50mm #10 Slotted Screen

Cover Type: Gravel

Notes: Refusal at 5.49 mbgs

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH103S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

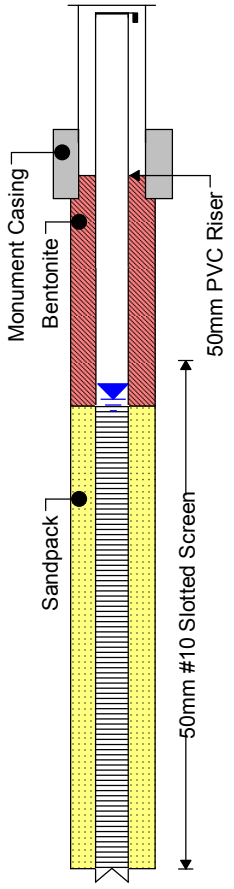
Drill Date: 11/15/2017

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

Depth (ft)	Depth (m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	HEADSPACE VOC ppm / Hydrocarbon ppm (100 200 300 400)
			Ground Surface	98.1					
0	0		**FILL** Granular underlain by sand and gravel fill with silt and some concrete.	0.0	1	CS	50	PCBs	0
4			**SILTY CLAY TILL** Light brown, dense	96.9 1.2					
6	2				2	CS	85		0
8									0
10			Turning grey at approximately 3.66 mbgs, increasing silt content with depth, wet at 4.57mbgs	95.1 3.0					0
12	4				3	CS	90		0
14				93.5					0
16			**SILTY SAND** Light brown, wet. Shale fragments at depth	4.6	4	CS	95	VOCs	0
18									0
20	6		End of Borehole	92.3 5.8					
22									

Well Completion Details



Cover Type: Gravel

Notes: Refusal at 5.79 mbgs

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH104S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

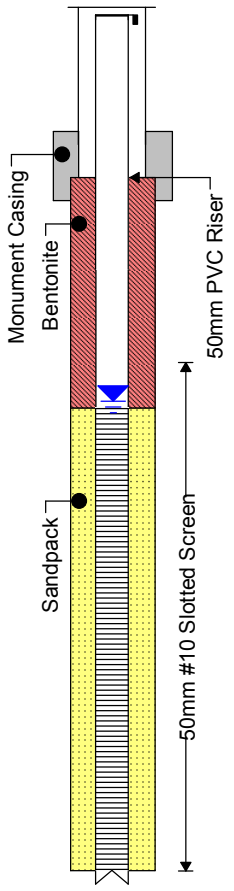
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/22/2017

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA/CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface	98.0						
		FILL Granular underlain by sand and gravel fill	0.0	1	SS	75	ORPs, ABNs, PCBs	0	
2			97.3						
		SILTY CLAY TILL Light brown, dense	0.8	2	SS	90		0	
4									
6 / 2				3	SS	90	pH	0	
			95.7						
8		Turning grey, dense	2.3	4	SS	90		0	
			95.0						
10		Grey throughout	3.0	5	SS	90		0	
12									
14 / 4			93.4						
		SILTY SAND Light brown, wet, loose, shale fragments throughout	4.6	6	SS	90	VOCs	0 15	
16									
18				7	SS	90	VOCs	0	
			92.1						
20 / 6		**SHALE** Weathered bedrock	5.9	8	SS	90		0	
			91.6						
22		End of Borehole	6.4						



Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH105S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

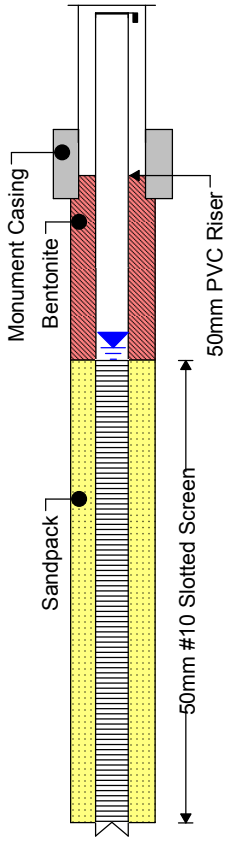
Drill Date: 11/16/2017

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

Depth (ft)	Depth (m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	HEADSPACE VOC ppm / Hydrocarbon ppm (100 200 300 400)
			Ground Surface	98.1					
0	0		**FILL** Granular underlain by sand and gravel fill, some concrete, moist	0.0	1	CS	60		0
2			Light brown sand fill, moist	97.2 0.9 96.9					
4			**SILTY CLAY TILL** Light brown, dense	1.2 96.6					
6	2		Light brown, very dense	1.5	2	CS	100		0
8					3	CS	100		0
10				94.8	4	CS	100		0
12			Increasing moisture content and silt content with depth, wet at 3.81 mbgs	3.4 94.3					
14	4		**SILTY SAND** Light brown, wet, some shale fragments	3.8	5	CS	100	VOCs	0
16				93.4	6	CS	100		0
			End of Borehole	4.7					
18									
20	6								
22									

Well Completion Details



Cover Type: Gravel

Notes: Refusal at 4.72 mbgs

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH106S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

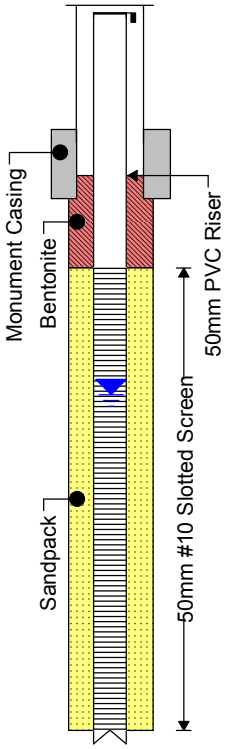
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/16/2017

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface	98.1						
		FILL Granular underlain by sand and gravel fill, moist	0.0						
			97.8						
		SILTY CLAY TILL Light brown, dense	0.3	1	CS	75		0	
2				2	CS	100		0	
4				3	CS	100		0	
			95.1						
10 / 2		Turning grey, moist at 3.51 mbgs, shale fragments noted at 3.96 mbgs	3.0	4	CS	100	VOCs	0	
12 / 4		End of Borehole	94.1 4.0						
14 / 6									
16									
18									
20									
22									



Cover Type: Gravel

Notes: Refusal at 3.96 mbgs

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH107S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

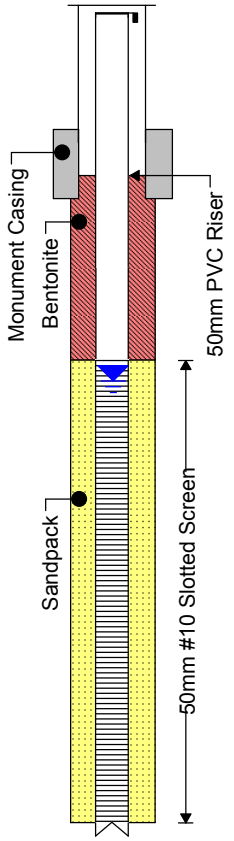
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/21/2017

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

Depth (ft)	Depth (m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	HEADSPACE VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
			Ground Surface	97.9						
0	0		**FILL** Granular underlain by sand and gravel fill, moist	0.0 97.6 0.3						
2			**SILTY CLAY TILL** Light brown, dense		1	CS	70		0	
4										
6	2				2	CS	70		0	
8										
10			Turning grey at 3.05 mbgs, increasing silt content with depth, wet	94.9 3.0					0	
12					3	CS	70		0	
14	4			93.3						
16			**SILTY SAND** Light brown, wet, shale fragments at depth	4.6	4	CS	90		0	
18				92.3						
20	6		End of Borehole	5.6						
22										



Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH108S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/21/2017

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface	98.1						
		FILL Light brown sand and gravel and silt fill, moist	0.0	1	CS	50	PHCs, VOCs	0	
4		**SILTY CLAY TILL** Light brown, dense	96.9 1.2						
		Saturated seams	96.6 1.5	2	CS	35		0	
8		Dark staining and PHC odour noted from 2.74 to 3.35 mbgs	95.4 2.7				PHCs, VOCs	30 20	
10		No staining or odour noted, saturated	94.8 3.4	3	CS	90		15 5	
14 / 4		**SILTY SAND** Dark staining and odour noted from 4.57 to 4.88 mbgs, saturated	93.5 4.6					3 20	
16		Light red/brown, wet, shale fragments noted at 5.18 mbgs	93.1 5.0	4	CS	90	VOCs	2 10	
18		End of Borehole							
20 / 6									
22									

Backfilled with Bentonite

Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH109D

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

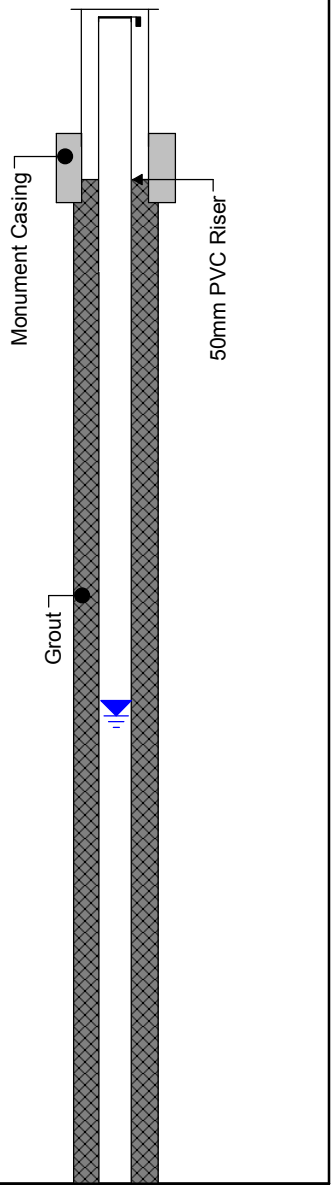
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/21/2017

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA/CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface	98.0						
		FILL Granular underlain by sand and gravel fill, moist	0.0	1	SS	50	Metals, PAHs	0	
			97.7						
2		**SILTY CLAY TILL** Light brown, dense	0.3						
				2	SS	75		0, 3	
4			96.5						
			1.5	3	SS	90	VOCs	0, 13	
6 / 2									
8				4	SS	90	VOCs	5, 62	
10		Dense, turning grey	95.0						
			3.0	5	SS	75		0, 32	
12			94.2						
14 / 4		Grey, moist Light brown at 4.42 mbgs	3.8	6	SS	70		9, 5	
			93.4						
		SILTY SAND Light brown, wet, shale and limestone chips present	4.6	7	SS	70	VOCs	0, 4	
16			92.7						
18		**SHALE**	5.3	8	SS	50		0	
20 / 6									
22									



Cover Type: Gravel

Notes:

Sheet: 1 of 3

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH109D

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/21/2017

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA/CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
24									
26	8								
28									
30									
32									
34	10								
36									
38									
40	12								
42									
44									
46	14								

Cover Type: Gravel

Notes:

Sheet: 2 of 3

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH109D

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

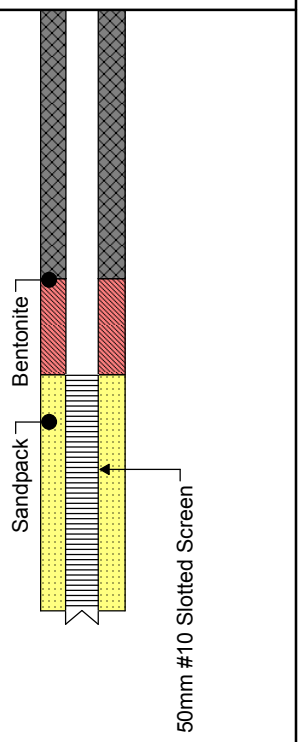
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/21/2017

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA/CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
48									
50									
52									
54	16								
56									
58									
60	18								
62		End of Borehole	79.7 18.3						
64									
66	20								
68									
70									
72	22								



Cover Type: Gravel

Notes:

Sheet: 3 of 3

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH110S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

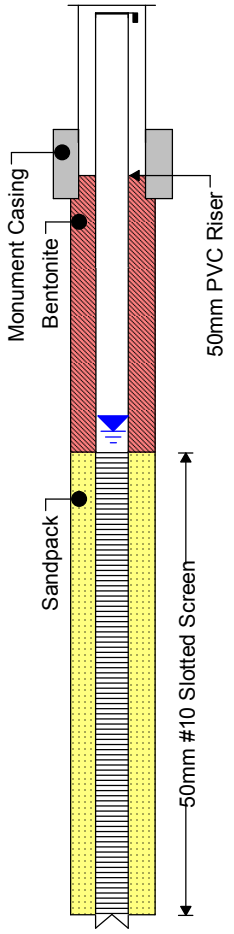
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/16/2017

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface	98.3						
		FILL Light brown sand and gravel fill, moist	0.0 98.0						
		SILTY CLAY TILL Light brown, dense	0.3	1	CS	60		0	
4			96.8						
		Very dense	1.5	2	CS	100		0	
8				3	CS	100		0	
10				4	CS	100		0	
12 / 4			94.5						
		Grey, moist to wet	3.8	5	CS	100		0	
14			93.7						
		SILTY SAND Light brown, saturated	4.6	6	CS	100		0	
16			93.1						
		Light brown, shale fragments, dense	5.2	7	CS	100		0	
18			92.5						
20 / 6		End of Borehole	5.8						
22									



Cover Type: Gravel

Notes: Refusal at 5.79 mbgs

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH111S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/22/2017

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA/CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 ft / 0 m		Ground Surface	98.0						
0		**FILL** Granular underlain by sand and gravel fill	0.0	1	SS	30	Metals and ORPs, ABNs, PAHs	0	Backfilled with Bentonite
2		**SILTY CLAY TILL** Light brown, dense; Turning grey at 2.13 mbgs	97.4 0.6	2	SS	50		0	
4				3	SS	70	pH	0 / 10	
6 / 2		Grey throughout; Brown at 3.66 mbgs	95.9 2.1	4	SS	50		0	
8				5	SS	50	PHCs	0	
10				6	SS	75		0	
12		**SILTY SAND** Light brown, wet. Increasing density with depth. Shale fragments noted at 5.18 mbgs	94.2 3.8	7	SS	35		0	
14 / 4				8	SS	50		0	
16									
18		End of Borehole	92.5 5.5						
20 / 6									
22									

Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH112S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

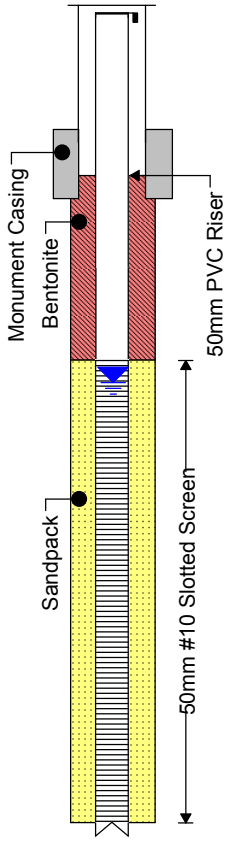
Drill Date: 11/21/2017

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

Depth (ft)	Depth (m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	HEADSPACE VOC ppm / Hydrocarbon ppm (100 200 300 400)
			Ground Surface	98.0					
0	0		**FILL** Light grey/brown, moist, reworked native material	0.0	1	CS	60	Metals and ORPs, PAHs	0
				97.1					
2			**SILTY CLAY TILL** Light brown, dense	0.9					
4				96.5					
	2		Dense throughout, moist	1.5	2	CS	90		0
6									
8									
				95.0					
10			Turning grey, moist to wet	3.0	3	CS	80	PHCs	0
12	4								
				93.7					
14			**SILTY SAND** Light brown, wet. Shale fragments noted at depth	4.3					0
					4	CS	80	VOCs	0
16									
18									0
	6			91.9					
20			End of Borehole	6.1					
22									

Well Completion Details



Cover Type: Gravel

Notes: Refusal at 6.10 mbgs

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH113S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

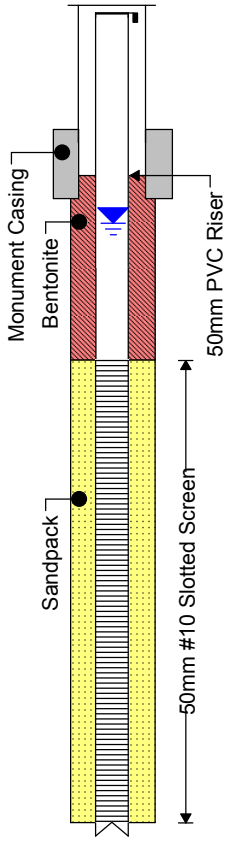
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/15/2017

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface	98.0						
		FILL Light brown sand and gravel fill with silt, moist	0.0						
2		Light brown, moist, dense, reworked native silty clay till	97.4 0.6	1	CS	70		0	
4			96.5				PHCs, VOCs	0 55	
6 / 2		**SILTY CLAY TILL** Dense Wet seam at 1.98 mbgs Odour noted at 3.05 mbgs	1.5	2	CS	100		10 200	
8			95.0				PHCs, VOCs	20 >500	
10		Numerous wet seams, odours present	3.0	3	CS	100		25 321	
12 / 4			94.1						
14		**SILTY SAND** Light brown, wet	4.0					40 280	
			93.1	4	CS	100	PHCs, VOCs	95 351	
16		End of Borehole	4.9						
18 / 6									
20									
22									



Cover Type: Gravel

Notes: Refusal at 4.88 mbgs

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH114D

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

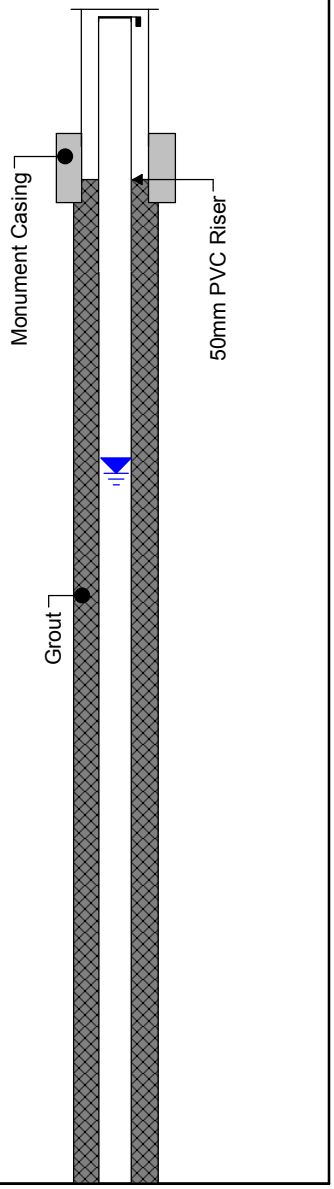
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/20/2017

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA/CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface	98.1						
		FILL Light brown sand and gravel fill, moist	0.0	1	SS	50	Metals, PAHs	0	
2									
			97.0	2	SS	100		0	
4		**SILTY CLAY TILL** Light brown, dense	1.1						
			96.6						
		Very dense	1.5	3	SS	100		0	
6 / 2									
8				4	SS	100		0	
			95.1						
10		Increasing moisture content, less dense Limestone at 3.66 mbgs	3.0	5	SS	70		0	
12			94.3						
		Turning grey, softer, large shale fragments	3.8	6	SS	100		0	
14 / 4			93.5						
		SILTY SAND Light brown, saturated	4.6	7	SS	100	PHCs, VOCs	0	
16			92.8						
		SHALE	5.3	8	SS	100		0	
18									
20 / 6									
22									



Cover Type: Gravel

Notes:

Sheet: 1 of 2

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH114D

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

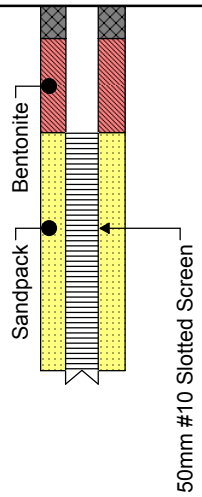
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/20/2017

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA/CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
24									
26	8								
28									
30		End of Borehole	89.0 9.1						
32									
34	10								
36									
38									
40	12								
42									
44									
46	14								



Cover Type: Gravel

Notes:

Sheet: 2 of 2

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH115S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/16/2017

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
		Ground Surface	98.0						
0 / 0		**FILL** Light brown sand and gravel fill, moist	0.0	1	CS	60	Metals, PAHs	0 / 10	Backfilled with Bentonite
4 / 1		**SILTY CLAY TILL** Light brown, dense	96.8 1.2						
		Dense throughout	96.5 1.5	2	CS	100		0 / 15	
8 / 2			95.7 2.3	3	CS	100	As, Sb, Se	0 / 20	
		Turning grey, increasing silt content with depth Moisture at 3.35 mbgs	95.0 3.0	4	CS	100		1 / 25	
12 / 4		**SILTY SAND** Light brown, wet	94.2 3.8	5	CS	100	PHCS, VOCs	25 / 45	
16 / 5		**SHALE**	93.3 4.7	6	CS		VOCs	35 / 30	
		End of Borehole							
20 / 6									
22									

Cover Type: Gravel

Notes: Refusal at 4.88 mbgs

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH116S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/16/2017

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

Depth (ft)	Depth (m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	HEADSPACE VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0	0		Ground Surface	98.1						Backfilled with Bentonite
			FILL Light brown sand and gravel fill, moist	0.0	1	CS	60	Metals and ORPs, PAHs	0 / 10	
				96.9						
4			**SILTY CLAY TILL** Light brown, dense	1.2						
				96.6						
			Dense throughout	1.5	2	CS	100	VOCs	0 / 15	
6	2			95.8						
8				2.3	3	CS	100		0 / 20	
10				95.1						
			Turning grey, increasing silt content with depth Moisture at 3.35 mbgs	3.0	4	CS	100		1 / 25	
12				94.3						
	4		**SILTY SAND** Light brown, wet	3.8	5	CS	100	PHCS, VOCs	25 / 45	
14									35 / 30	
				93.4	6	CS				
16			**SHALE**	4.7						
			End of Borehole							
18										
20	6									
22										

Cover Type:

Notes: Refusal at 4.88 mbgs

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH117S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

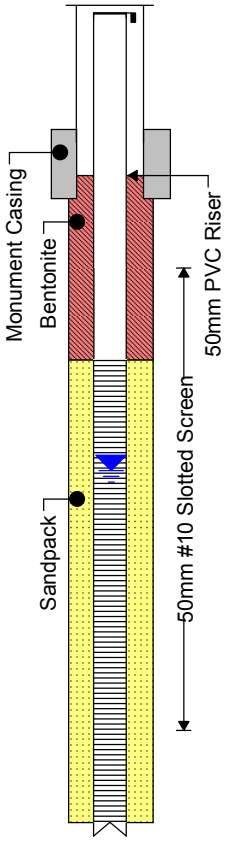
Drill Date: 11/15/2017

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

Depth (ft)	Depth (m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	HEADSPACE VOC ppm / Hydrocarbon ppm (100 200 300 400)
			Ground Surface	98.0					
0	0		**FILL** Granular fill Light to dark brown silty sand till, some gravel	0.0 97.4	1	SS	50	Metals and ORPs, PAHs	0
2			**SILTY CLAY TILL** Light brown, moist	0.6	2	SS	75		0
4					3	SS	80		0
6	2			95.7					
8			Increasing moisture content with depth, dense	2.3	4	SS	15	PHCs, VOCs	15 9
10			Very dense	95.0 3.0	5	SS	70	VOCs	5 12
12	4			94.4 3.7					
14				93.4					
16			**SILTY SAND** Light brown, wet	4.6	6	SS	75		6
18									
20	6		**SAND AND GRAVEL** Large shale fragments, coarse, saturated	91.9 6.1	7	SS	65	VOCs	0
22			End of Borehole	91.3 6.7					

Well Completion Details



Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH118D

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

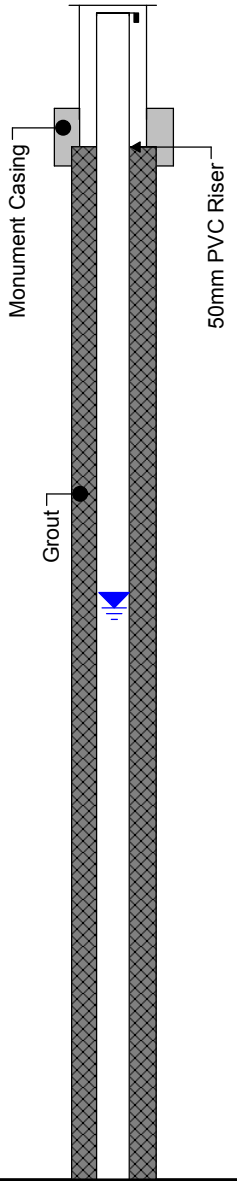
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/22/2017

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA/CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface	97.9						
		FILL Granular underlain by sand fill	0.0						
2		**SILTY CLAY TILL** Light brown, dense		1	CS	75	Metals and ORPs, PAHs	0	
4			96.4						
		Turning grey at 3.05 mbgs	1.5						
6 / 2							VOCs	0	
8				2	CS	90		0 103	
10			94.9						
		Grey, moist, plastic	3.0						
12				3	CS	90	VOCs	0 241	
14 / 4			93.7						
		SILTY SAND Light brown, wet, increasing density and shale fragments with depth	4.3					5 100	
16									
18				4	CS	90	PHCs	25 25	
20 / 6							VOCs	7 10	
			91.7	5					
		SHALE	6.2						
22									
24									
26 / 8									



Cover Type: Gravel

Notes:

Sheet: 1 of 3

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH118D

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/22/2017

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA/CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
28									
30									
32									
10									
34									
36									
38									
12									
40									
42									
44									
46									
14									
48									
50									
52									
16									
54									
56									

Cover Type: Gravel

Notes:

Sheet: 2 of 3

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH118D

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/22/2017

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA/CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
58									
18									
60									
62									
64									
20									
66									
68									
70									
72									
22									
74			75.1						
		End of Borehole	22.9						
76									
78									
24									
80									
82									
84									
26									
86									

Bentonite

Sandpack

50mm #10 Slotted Screen

Cover Type: Gravel

Notes:

Sheet: 3 of 3

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH119S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/16/2017

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft)	Depth (m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0	0		Ground Surface	97.9						Backfilled with Bentonite
			FILL Granular underlain by sand and gravel fill	0.0 / 97.6 / 0.3						
2			**SILTY CLAY TILL** Light brown, dense		1	CS	40	Metals and ORPs, PAHs	0	
4										
6	2				2	CS	80	VOCs	0	
8										
10				94.6						
			Turning grey, increasing silt and moisture content with depth	3.4 / 94.1	3	CS	90		0	
12			**SILTY SAND** Wet, shale fragments at 4.57 mbgs	3.8					0	
14	4				4	CS	100			
				93.3						
16			Light brown, wet, increasing density and shale fragments with depth	4.6	5	CS	70	PHCs, VOCs	5 / 1	
18					6	CS	60	VOCs	5 / 1	
				92.0						
20	6		End of Borehole	5.9						
22										

Cover Type: Gravel

Notes: Refusal at 5.94 mbgs

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH120S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

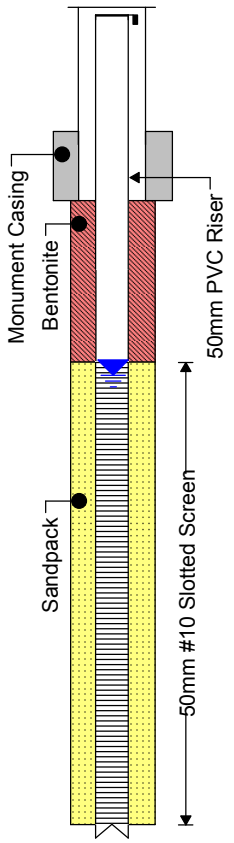
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/22/2017

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA.CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface	98.0						
		FILL Granular underlain by sand and gravel fill, moist	0.0	1	SS	65	Metals and ORPs, PAHs	0	
2			97.4						
		SILTY CLAY TILL Light brown, dense	0.6	2	SS	90		0	
4									
6 / 2				3	SS	90	Metals, pH	0	
			95.7						
8		Turning grey Less dense at 2.44 mbgs	2.3	4	SS	90		0	
			95.0						
10		Grey throughout, increasing silt content with depth	3.0					0	
			94.7	5	SS	75			
12			3.4						
4									
14			93.4						
		SILTY SAND Light brown, shale fragments and limestone chips throughout	4.6				PHCs, VOCs		
16				6	SS	100		0	
18				7	SS	0			
			92.1						
6 / 20		**SHALE**	5.9						
			91.8	8	SS	100		0	
		End of Borehole	6.2						
22									



Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH121S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 11/22/2017

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA.CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface	97.8						
		FILL Granular	0.0 / 97.5						
		SILTY CLAY TILL Light brown, dense	0.3	1	CS	85		0	
2				2	CS	100		0	
4 / 2				3	CS	100		0	
6									
8				4	CS	100	VOCs	0	
10		Increasing silt content with depth, wet	94.5 / 3.4						
12		**SILTY SAND** Wet throughout, increasing grain size with depth	94.0 / 3.8	5	CS	100		0	
14 / 4				6	CS	100		0 / 2	
16							PHCs, VOCs		
18		**SAND AND GRAVEL** Light brown, shale fragments, wet	92.3 / 5.5	7	CS	100		0	
20 / 6			91.7				VOCs		
22		End of Borehole	6.1						

Backfilled with Bentonite

Cover Type: Gravel

Notes: Refusal at 6.10 mbgs

Sheet: 1 of 1

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH201S

Project: Phase Two ESA

Project No: 38934-100

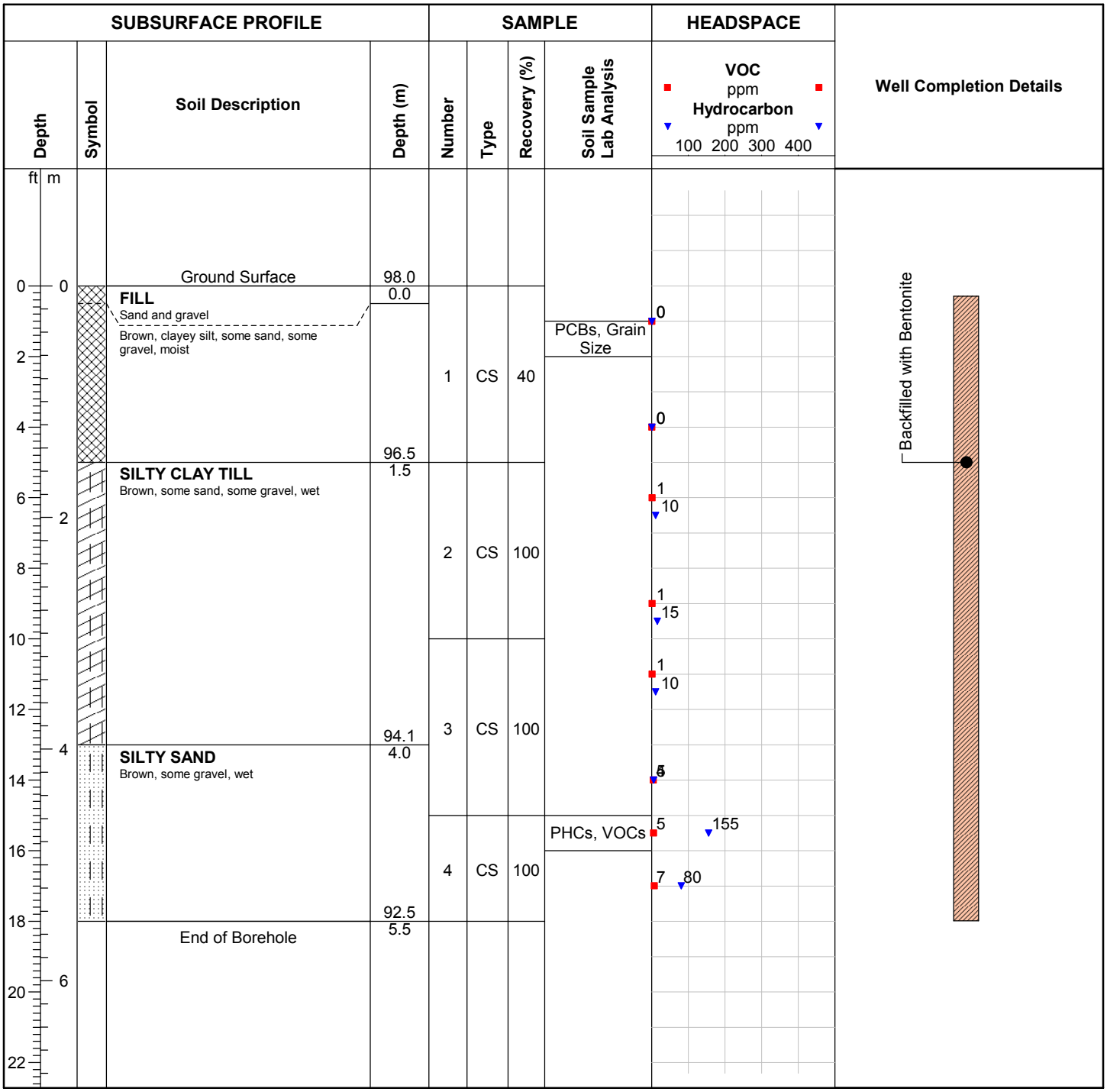
Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT



Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH202S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface	98.0						
0 / 0		**FILL** Sand and gravel. Brown, clayey silt, trace sand and gravel, moist	0.0	1	CS	40	Metals, PHCs, VOCs	0	Backfilled with Bentonite
4			96.5					0	
6 / 2		**SILTY CLAY TILL** Brown, some clay, trace sand and gravel, wet	1.5	2	CS	100		0	
8			95.0					0	
10		End of Borehole	3.0						
12 / 4									
16									
18 / 6									
20									
22									

Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH203S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

Depth (ft)	Depth (m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	HEADSPACE VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
			Ground Surface	98.0						
0	0		**FILL** Sand and gravel Brown, clayey silt, some sand, some gravel, moist Wet at 1.52m bgs	0.0	1	CS	80	Metals	0	Backfilled with Bentonite
									0	
6	2		**SILTY CLAY TILL** Brown, some clay, some sand, trace gravel	96.2 1.8	2	CS	100	VOCs	0	
									0	
12	4		Increasing silt content, trace gravel, wet	94.4 3.7	3	CS	100	VOCs	0 0.45	
16			**SILTY SAND** Brown, some sand, some gravel, some clay, wet	93.1 4.9	4	CS	100		0	
18				92.4	5	CS	100		0	
20	6		End of Borehole	5.6						

Cover Type:

Notes: Refusal at 5.64m bgs

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH204S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface	98.1						
0 / 0		**FILL** Sand and gravel; Grey to black, clayey silt, some sand, trace gravel, moist; Brown at 0.91m bgs	0.0	1	CS	80	Metals, PAHs	0, 1, 0, 2	Backfilled with Bentonite
4		**SILTY CLAY TILL** Brown, some sand, some gravel, wet	96.6 1.5	2	CS	100	Grain Size	0, 3, 3, 25	
10 / 2		End of Borehole	95.1 3.0						
12 / 4									
20 / 6									
22									

Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH205S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

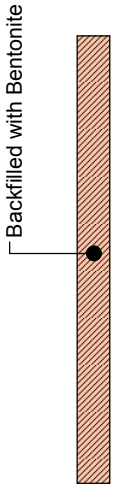
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface	98.0						
0 / 0		**FILL** Sand and gravel; Brown, clayey silt, some sand, some gravel, moist	0.0	1	CS	90	Metals	0	
4		**SILTY CLAY TILL** Brown, moist, some clay, trace sand and gravel	96.8 / 1.2					0	
6 / 2				2	CS	100		0	
8								0	
10		End of Borehole	95.0 / 3.0						
12 / 4									
14									
16									
18 / 6									
20									
22									



Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH206S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface	98.1						
0 / 0		**FILL** Sand and gravel; Brown, clayey silt, some sand, some gravel, moist	0.0	1	CS	70	Metals	0, 1	Backfilled with Bentonite
4			96.6					0, 1	
6 / 2		**SILTY CLAY TILL** Brown, some clay, trace sand and gravel, moist	1.5	2	CS	100		0, 1	
8								5, 2	
10			95.1						
		End of Borehole	3.0						
12 / 4									
16									
18									
20 / 6									
22									

Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH207S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface	98.1						
0 / 0		**FILL** Sand and gravel; Brown, clayey silt, some sand, some gravel, moist	0.0	1	CS	100	PAHs	0	Backfilled with Bentonite
4			96.6					0	
6 / 2		**SILTY CLAY TILL** Brown, some sand, some clay, trace gravel, moist	1.5	2	CS	100		0	
10			95.1					0	
		End of Borehole	3.0						
12 / 4									
16									
18 / 6									
20									
22									

Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH208S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

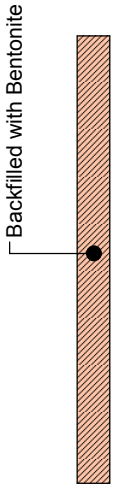
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface	98.1						
0 / 0		**FILL** Brown, clayey silt, some sand, some gravel, moist	0.0	1	CS	60	PAHs	0	
4			96.6					0	
		SILTY CLAY TILL Brown, some clay, trace sand and gravel, wet	1.5	2	CS	80		0	
10 / 2			95.1					0	
		End of Borehole	3.0						
12 / 4									
16									
18 / 6									
20									
22									



Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH209S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface	98.0						
		FILL Grey, sand and gravel, coarse, wet Brown, some sand and gravel, trace clay, moist	0.0	1	CS	70	VOCs	0 0	Backfilled with Bentonite
4			96.5						
		SILTY CLAY TILL Brown, some clay, trace sand and gravel, wet Increasing silt and sand content at 3.66 mbgs	1.5	2	CS	100	PAHs VOCs	0 0	
12 / 4			94.1	3	CS	100		0 1 10	
		SILTY SAND Brown, some gravel, wet	4.0	4	CS	100	VOCs	1 15 1 25	
18 / 6			92.4	5	CS	100	Grain Size	0	
		End of Borehole	5.6						

Cover Type: Gravel

Notes: Refusal at 5.64m bgs

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH210S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

Depth (ft)	Depth (m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm	Hydrocarbon ppm	Well Completion Details
									100 200 300 400		
			Ground Surface	98.1							
0	0		**FILL** Grey, sand and gravel, coarse, wet Brown, silty sand, some gravel, wet at 1.52 mbgs Black staining and hydrocarbon odour at 2.13 mbgs	0.0	1	CS	50		0	0 1	Backfilled with Bentonite
2					2	CS	100		0	0 1	
4									0	0 3	
6	2			94.8	3	CS	100		10	0	
8			**SILTY SAND** Brown, some gravel, some clay, wet, hydrocarbon odour Black staining and hydrocarbon odour at 4.57 mbgs Brown at 4.88 mbgs and no hydrocarbon odour noted	3.4					3	5	
10					4	CS	100		3	10 1 13 3	
12	4				5	CS	100	PHCs	0	0	
14				92.2							
16			End of Borehole	5.9							
18	6										
20											
22											

Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH211S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface	97.9						
0 / 0		**FILL** Sand and gravel; Brown, clayey silt, some sand, some gravel, moist	0.0	1	CS	100	PHCs, VOCs	0, 1	Monument Casing; Bentonite; 50mm PVC Riser
4			96.4						
6 / 2		**SILTY CLAY TILL** Brown, some clay, trace sand and gravel, wet	1.5	2	CS	100		0, 1	Sandpack; 50mm #10 Slotted Screen
10				3	CS	100		0, 1	
12 / 4									
14			93.3						
16		End of Borehole	4.6						
20 / 6									
22									

Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH212S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface	97.9						
		FILL Sand and gravel; Brown, clayey silt, some sand, some gravel, moist	0.0	1	CS	100	PHCs, VOCs	0 1	Monument Casing; Bentonite; 50mm PVC Riser
		SILTY CLAY TILL Brown, some clay, trace sand and gravel, wet	96.4 1.5	2	CS	100		0 1	Sandpack; 50mm #10 Slotted Screen
				3	CS	100	Grain Size	0 1	
		End of Borehole	93.3 4.6						

Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH213S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

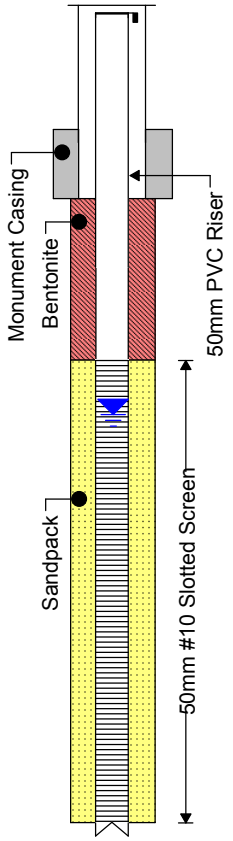
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface	97.9						
0 / 0		**FILL** Sand and gravel. Brown, clayey silt, some sand, some gravel, moist	0.0	1	CS	80	PHCs, VOCs	0, 0	
4 / 2		**SILTY CLAY TILL** Brown, some clay, trace sand and gravel, moist to wet. Grey at 3.79 mbgs	96.7 1.2	2	CS	100		0, 1, 0, 2	
12 / 4		**SILTY SAND** Brown, some gravel, wet	94.0 4.0	3	CS	100	VOCs	3, >500, 20, 134	
		End of Borehole	93.3 4.6						



Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH214S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface	98.1						
0 / 0		**FILL** Grey, sand and gravel, coarse, wet	0.0						
		Brown, clayey silt, some sand some gravel, moist		1	CS	70	PCBs, PHCs, VOCs	0	Backfilled with Bentonite
4								0	
		End of Borehole	96.6 / 1.5						
2 / 6									
8									
10									
12									

Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH215S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/19/2018

Drilling Contractor: Strata Drilling Group

Drill Method: Geoprobe/7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface	98.1						
0 / 0		**FILL** Grey, sand and gravel, coarse, wet Brown, clayey silt, some sand some gravel, moist Black staining at 0.31m bgs	0.0	1	CS	60	PCBs, PHCs, VOCs	0 0	Backfilled with Bentonite
		End of Borehole	96.6 1.5						
2 / 2									
4									
6									
8									
10									
12									

Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH216D

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/25/2018

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA/CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m									
0 / 0		Ground Surface							
2									
4									
6 / 2									
8									
10									Monument Casing; Grout; 50mm PVC Riser
12 / 4									
14									
16									
18									
20 / 6									
22									
24									
26 / 8									

Cover Type: Gravel

Notes: No soil samples taken

Sheet: 1 of 3

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH216D

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/25/2018

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA/CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
28									
30									
32									
10									
34									
36									
38									
12									
40									
42									
44									
46									
14									
48									
50									
52									
16									
54									
56									

Cover Type: Gravel

Notes: No soil samples taken

Sheet: 2 of 3

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH216D

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

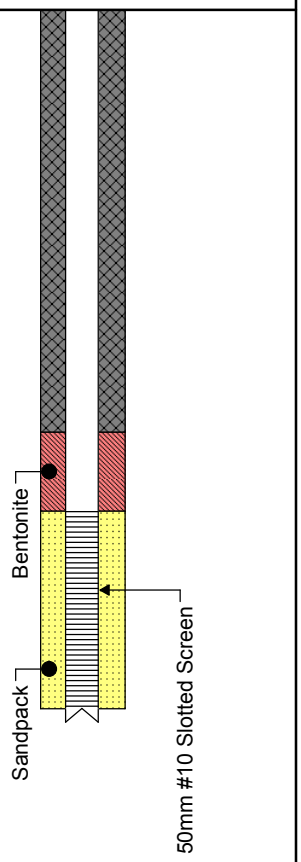
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 4/25/2018

Drilling Contractor: Geo Environmental Drilling

Drill Method: HSA/CME 75 Truck

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
58									
18									
60									
62									
64									
66									
20									
68									
70									
72									
22									
74			75.2						
		End of Borehole	22.9						
76									
78									
24									
80									
82									
84									
26									
86									



Cover Type: Gravel

Notes: No soil samples taken

Sheet: 3 of 3

Field Technician: SDB

Drafted by: JSR

Reviewed by: TJJ

Borehole Number: BH301S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

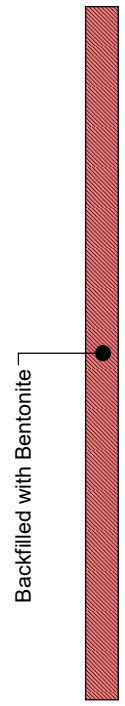
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/19/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface							
0 / 0		**FILL** Granular underlain by sand and gravel fill	0.0	1	DP	30	PHCs, VOCs	0	
4 / 2		**SILTY CLAY TILL** Light brown, dense, some shale pieces, moist	0.9	2	DP	80	PHCs, VOCs	0	
8 / 2		Wet at 2.4m bgs		3	DP	80		0	
14 / 4		End of Borehole	4.6						
20 / 6									
24									



Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: MW302S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

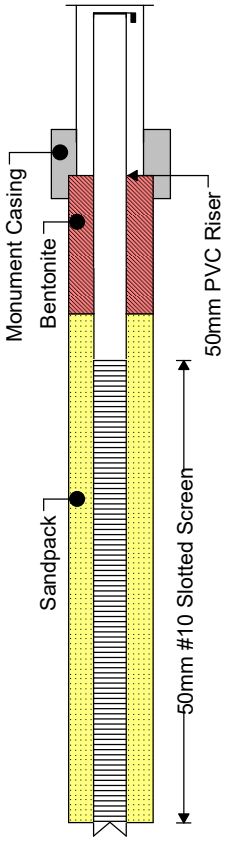
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/19/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface							
0 / 0		**FILL** Granular underlain by sand and gravel fill	0.0	1	DP	20	PHCs, VOCs Plus Dup	0	
6 / 2		**SILTY CLAY TILL** Light brown, some shale, moist	2.1	2	DP	20			
10 / 3				3	DP	80	PHCs, VOCs	0	
14 / 4				4	DP	100		0	
16 / 5		End of Borehole	4.6						



Cover Type: Gravel

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: BH303S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

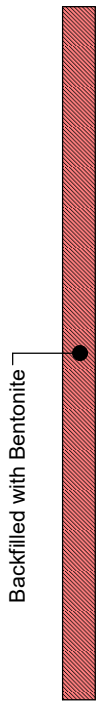
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/20/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface							
		FILL Granular fill Light to dark brown silty sand till, some gravel	0.0						
2		**SILTY CLAY TILL** Light brown, some shale pieces moist	0.6	1	DP	50	PHCs, VOCs	0	
4									
6 / 2									
		Increasing moisture content with depth, dense	2.3	2	DP	100	PHCs, VOCs	0	
8									
10		Very dense	3.0						
12			3.7	3	DP	70		0	
14 / 4									
		End of Borehole	4.6						
16									
18									
20 / 6									
22									
24									



Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: BH304S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/20/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface							
0 / 0		**FILL** Granular fill Light to dark brown silty sand till, some gravel	0.0	1	DP	60	PHCs, VOCs	0	
4 / 1.2		**SILTY CLAY TILL** Light brown, some shale pieces, moist	1.2					0	
6 / 1.5		End of Borehole	1.5						

Backfilled with Bentonite

Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: BH305S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/19/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
0 / 0		Ground Surface							
		FILL Granular underlain by sand and gravel fill	0.0	1	DP	40		0	
6 / 2		**SILTY CLAY TILL** Light brown, dense, some shale pieces, moist	1.5	2	DP	100	PHCs, VOCs, Metals, Hydrides	0	
		Wet at 2.4m bgs		3	DP	60		0	
14 / 4		End of Borehole	4.6						
20 / 6									
24									

Backfilled with Bentonite

Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: BH306S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/19/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface							
0 / 0		**FILL** Granular underlain by sand and gravel fill	0.0	1	DP	50		0	
4		**SILTY CLAY TILL** Light brown, dense, some shale pieces, moist	0.9	2	DP	100	PHCs, VOCs, Metals, Hydrides	0	
8		Wet at 2.4m bgs		3	DP	100		0	
14		End of Borehole	4.6						
2 / 4 / 6									Backfilled with Bentonite

Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: BH307S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/20/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface							
0 / 0		**FILL** Granular fill Light to dark brown silty sand till, some gravel	0.0	1	DP	50	PHCs, VOCs Plus Dup	0	
4		**SILTY CLAY TILL** Light brown, some shale pieces, moist	1.2					0	
6 / 2		End of Borehole	1.5						Backfilled with Bentonite
8									
10									
12 / 4									
14									
16									
18									
20 / 6									
22									
24									

Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: BH308S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/20/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface							
0 / 0		**FILL** Granular underlain by sand and gravel fill	0.0	1	DP	60	PHCs, VOCs PAHs	0	
4 / 1		**SILTY CLAY TILL** Light brown, dense, some shale pieces, moist	0.9	2	DP	100	PHCs, VOCs	0	
8 / 2		Wet at 2.4m bgs		3	DP	80		0	Backfilled with Bentonite
12 / 4									
16 / 5		End of Borehole	4.6						
20 / 6									
24 / 7									

Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: BH309S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/20/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface							
0 / 0		**FILL** Granular fill Light to dark brown silty sand till, some gravel	0.0	1	DP	60	PHCs, VOCs	0	
4 / 1.2		**SILTY CLAY TILL** Light brown, some shale pieces, moist	1.2					0	
		End of Borehole	1.5						Backfilled with Bentonite

Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: SDB

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: BH310S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/20/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface							
0 / 0		**FILL** Granular underlain by sand and gravel fill, moist	0.0	1	DP	60	PHCs, VOCs	0	Backfilled with Bentonite
4		**SILTY CLAY TILL** Light brown, some shale pieces, moist	0.9					0	
6 / 2		End of Borehole	1.5						
12 / 4									
20 / 6									
24									

Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: BH311S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

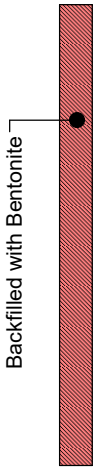
Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/19/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface							
0		**FILL** Granular fill; Light to dark brown silty sand till, some gravel	0.0	1	DP	30	PHCs, VOCs	0	
2		**SILTY CLAY TILL** Light brown, some shale pieces, moist	0.9					0	
4					DP	100			
6								0	
8									
10		End of Borehole	3.0						
12									
14									
16									
18									
20									
22									
24									



Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: BH312S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/20/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface							
0 / 0		**FILL** Granular underlain by sand and gravel fill, moist	0.0	1	DP	50	PHCs, VOCs	0	Backfilled with Bentonite
4		**SILTY CLAY TILL** Light brown, some shale pieces, moist	0.9					0	
6 / 2		End of Borehole	1.5						
12 / 4									
20 / 6									
24									

Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: BH313S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/20/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface							
0 / 0		**FILL** Granular underlain by sand and gravel fill, moist	0.0	1	DP	60	PHCs, VOCs	0	Backfilled with Bentonite
4		**SILTY CLAY TILL** Light brown, some shale pieces, moist	0.9					0	
6 / 2		End of Borehole	1.5						
12 / 4									
20 / 6									
24									

Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: BH314S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/20/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface							
0 / 0		**FILL** Granular underlain by sand and gravel fill	0.0	1	DP	40	Metals + Hydrides	0	
4		**SILTY CLAY TILL** Light brown, dense	1.2						
6 / 2		Wet from 1.8m to 2.4m bgs	1.8	2	DP	100	PHCs, VOCs	0	
10		Wet from 3.0m to 3.4m bgs	3.0	3	DP	60		0	
14 / 4		End of Borehole	4.6						
20 / 6									
24									

Backfilled with Bentonite

Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: BH315S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/20/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface							
0 / 0		**FILL** Granular underlain by sand and gravel fill	0.0	1	DP	60		0	
4		**SILTY CLAY TILL** Light brown, dense, some shale pieces, moist	0.9	2	DP	100	PHCs, VOCs	0	Backfilled with Bentonite
12 / 4				3	DP	80		0	
14		End of Borehole	4.6						
20 / 6									
24									

Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ

Borehole Number: BH316S

Project: Phase Two ESA

Project No: 38934-100

Client: J. Lockwood Leasing Ltd.

Location: 2362 Fairview Street, Burlington, ON

Drill Date: 2/20/2020

Drilling Contractor: Groundforce

Drill Method: Geoprobe 7822DT

SUBSURFACE PROFILE				SAMPLE				HEADSPACE	
Depth	Symbol	Soil Description	Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	VOC ppm / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
ft / m		Ground Surface							
0 / 0		**FILL** Granular underlain by sand and gravel fill	0.0	1	DP	60		0	
4		**SILTY CLAY TILL** Light brown, dense, some shale pieces, moist	0.9	2	DP	100	PHCs, VOCs	0	Backfilled with Bentonite
12 / 4				3	DP	80		0	
16		End of Borehole	4.6						
20 / 6									
24									

Cover Type: N/A

Notes:

Sheet: 1 of 1

Field Technician: ADP

Drafted by: ZXT

Reviewed by: TJJ



Photograph No. 1 – East facing view of the northern portion of the Site. Fairview Street is on the left of this photo.



Photograph No. 2 – South facing view of the western portion of the Site.



Photograph No. 3 – East facing view of the southern portion of the Site. The shed housing the recovery well is on the right of this photo.



Photograph No. 4 – Northeast facing view of the central and eastern portions of the Site.



Photograph No. 5 – Advancement of BH213S, located in the southern portion of the Site adjacent to the recovery well system.



Photograph No. 6 – Advancement of BH118D, located in the southern portion of the Site.

Appendix A3

Laboratory Certificates of Analysis

MTE CONSULTANTS INC. (Kitchener)
ATTN: Spencer Buck
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Date Received: 17-NOV-17
Report Date: 19-DEC-17 13:31 (MT)
Version: FINAL REV. 3

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2024278

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 17-617285, 17-617286, 17-617287, 17-617288, 17-617289
Legal Site Desc:

Comments: ADDITIONAL 06-DEC-17 12:20
ADDITIONAL 27-NOV-17 15:03

1-DEC-2017 Additional

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-1 BH102(1-3)						
Sampled By: SDB on 15-NOV-17 @ 13:30						
Matrix: SOIL						
Physical Tests						
% Moisture	11.3		0.10	%	23-NOV-17	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	23-NOV-17	7.5
Arsenic (As)	7.5		1.0	ug/g	23-NOV-17	18
Barium (Ba)	124		1.0	ug/g	23-NOV-17	390
Beryllium (Be)	<0.50		0.50	ug/g	23-NOV-17	5
Boron (B)	7.9		5.0	ug/g	23-NOV-17	120
Boron (B), Hot Water Ext.	0.11		0.10	ug/g	24-NOV-17	1.5
Cadmium (Cd)	<0.50		0.50	ug/g	23-NOV-17	1.2
Chromium (Cr)	15.3		1.0	ug/g	23-NOV-17	160
Cobalt (Co)	9.3		1.0	ug/g	23-NOV-17	22
Copper (Cu)	58.8		1.0	ug/g	23-NOV-17	180
Lead (Pb)	13.2		1.0	ug/g	23-NOV-17	120
Mercury (Hg)	0.0173		0.0050	ug/g	23-NOV-17	1.8
Molybdenum (Mo)	<1.0		1.0	ug/g	23-NOV-17	6.9
Nickel (Ni)	18.6		1.0	ug/g	23-NOV-17	130
Selenium (Se)	<1.0		1.0	ug/g	23-NOV-17	2.4
Silver (Ag)	<0.20		0.20	ug/g	23-NOV-17	25
Thallium (Tl)	<0.50		0.50	ug/g	23-NOV-17	1
Uranium (U)	<1.0		1.0	ug/g	23-NOV-17	23
Vanadium (V)	23.7		1.0	ug/g	23-NOV-17	86
Zinc (Zn)	62.5		5.0	ug/g	23-NOV-17	340
Speciated Metals						
Chromium, Hexavalent	<0.20		0.20	ug/g	23-NOV-17	10
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	24-NOV-17	29
Acenaphthylene	<0.050		0.050	ug/g	24-NOV-17	0.17
Anthracene	<0.050		0.050	ug/g	24-NOV-17	0.74
Benzo(a)anthracene	<0.050		0.050	ug/g	24-NOV-17	0.63
Benzo(a)pyrene	<0.050		0.050	ug/g	24-NOV-17	0.3
Benzo(b)fluoranthene	<0.050		0.050	ug/g	24-NOV-17	0.78
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	24-NOV-17	7.8
Benzo(k)fluoranthene	<0.050		0.050	ug/g	24-NOV-17	0.78
Chrysene	<0.050		0.050	ug/g	24-NOV-17	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	24-NOV-17	0.1
Fluoranthene	<0.050		0.050	ug/g	24-NOV-17	0.69
Fluorene	<0.050		0.050	ug/g	24-NOV-17	69
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	24-NOV-17	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	24-NOV-17	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	24-NOV-17	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	24-NOV-17	3.4
Naphthalene	<0.050		0.050	ug/g	24-NOV-17	0.75
Phenanthrene	<0.050		0.050	ug/g	24-NOV-17	7.8
Pyrene	<0.050		0.050	ug/g	24-NOV-17	78
Surrogate: 2-Fluorobiphenyl	90.1		50-140	%	24-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2024278-1	BH102(1-3)									
Sampled By:	SDB on 15-NOV-17 @ 13:30									
Matrix:	SOIL						#1			
Polycyclic Aromatic Hydrocarbons										
	Surrogate: p-Terphenyl d14	86.7		50-140	%	24-NOV-17				
Polychlorinated Biphenyls										
	Aroclor 1242	<0.010		0.010	ug/g	23-NOV-17				
	Aroclor 1248	<0.010		0.010	ug/g	23-NOV-17				
	Aroclor 1254	<0.010		0.010	ug/g	23-NOV-17				
	Aroclor 1260	<0.010		0.010	ug/g	23-NOV-17				
	Total PCBs	<0.020		0.020	ug/g	23-NOV-17	0.35			
	Surrogate: d14-Terphenyl	90.4		60-140	%	23-NOV-17				
L2024278-2	BH102(5-7)									
Sampled By:	SDB on 15-NOV-17 @ 13:35									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	11.3		0.10	%	28-NOV-17				
Volatile Organic Compounds										
	Acetone	<0.50		0.50	ug/g	30-NOV-17	28			
	Benzene	<0.0068		0.0068	ug/g	30-NOV-17	0.17			
	Bromodichloromethane	<0.050		0.050	ug/g	30-NOV-17	1.9			
	Bromoform	<0.050		0.050	ug/g	30-NOV-17	0.26			
	Bromomethane	<0.050		0.050	ug/g	30-NOV-17	0.05			
	Carbon tetrachloride	<0.050		0.050	ug/g	30-NOV-17	0.12			
	Chlorobenzene	<0.050		0.050	ug/g	30-NOV-17	2.7			
	Dibromochloromethane	<0.050		0.050	ug/g	30-NOV-17	2.9			
	Chloroform	<0.050		0.050	ug/g	30-NOV-17	0.18			
	1,2-Dibromoethane	<0.050		0.050	ug/g	30-NOV-17	0.05			
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	1.7			
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	6			
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	0.097			
	Dichlorodifluoromethane	<0.050		0.050	ug/g	30-NOV-17	25			
	1,1-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.6			
	1,2-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05			
	1,1-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.05			
	cis-1,2-Dichloroethylene	0.183		0.050	ug/g	30-NOV-17	2.5			
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.75			
	Methylene Chloride	<0.050		0.050	ug/g	30-NOV-17	0.96			
	1,2-Dichloropropane	<0.050		0.050	ug/g	30-NOV-17	0.085			
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17				
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17				
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	30-NOV-17	0.081			
	Ethylbenzene	<0.018		0.018	ug/g	30-NOV-17	1.6			
	n-Hexane	<0.050		0.050	ug/g	30-NOV-17	34			
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	30-NOV-17	44			
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	30-NOV-17	4.3			
	MTBE	<0.050		0.050	ug/g	30-NOV-17	1.4			
	Styrene	<0.050		0.050	ug/g	30-NOV-17	2.2			
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-2 BH102(5-7)						
Sampled By: SDB on 15-NOV-17 @ 13:35						
Matrix: SOIL						#1
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	<0.25	DLVH	0.25	ug/g	30-NOV-17	**0.05
Tetrachloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	30-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Trichloroethylene	0.211		0.010	ug/g	30-NOV-17	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	30-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	30-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	30-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	30-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	30-NOV-17	25
Surrogate: 4-Bromofluorobenzene	110.4		50-140	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	101.1		50-140	%	30-NOV-17	
Hydrocarbons						
F1 (C6-C10)	21.7		5.0	ug/g	30-NOV-17	65
F1-BTEX	21.7		5.0	ug/g	01-DEC-17	65
F2 (C10-C16)	<10		10	ug/g	01-DEC-17	150
F3 (C16-C34)	55		50	ug/g	01-DEC-17	1300
F4 (C34-C50)	<50		50	ug/g	01-DEC-17	5600
Total Hydrocarbons (C6-C50)	77		72	ug/g	01-DEC-17	
Chrom. to baseline at nC50	YES			No Unit	01-DEC-17	
Surrogate: 2-Bromobenzotrifluoride	96.7		60-140	%	01-DEC-17	
Surrogate: 3,4-Dichlorotoluene	84.5		60-140	%	30-NOV-17	
L2024278-3 BH102(9-10)						
Sampled By: SDB on 15-NOV-17 @ 13:40						
Matrix: SOIL						#1
Physical Tests						
% Moisture	11.3		0.10	%	23-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-3 BH102(9-10)						
Sampled By: SDB on 15-NOV-17 @ 13:40						
Matrix: SOIL						#1
Volatile Organic Compounds						
1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05
cis-1,2-Dichloroethylene	0.715		0.050	ug/g	23-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	23-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Tetrachloroethylene	2.01		0.050	ug/g	23-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	0.051		0.050	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Trichloroethylene	41.1	DLHC	0.16	ug/g	23-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	23-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	23-NOV-17	25
Surrogate: 4-Bromofluorobenzene	96.2		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	97.9		50-140	%	23-NOV-17	
Hydrocarbons						
F1 (C6-C10)	10.3		5.0	ug/g	23-NOV-17	65
F1-BTEX	10.3		5.0	ug/g	24-NOV-17	65
F2 (C10-C16)	<10		10	ug/g	23-NOV-17	150
F3 (C16-C34)	<50		50	ug/g	23-NOV-17	1300
F4 (C34-C50)	<50		50	ug/g	23-NOV-17	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	24-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	23-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	82.1		60-140	%	23-NOV-17	
Surrogate: 3,4-Dichlorotoluene	81.6		60-140	%	23-NOV-17	
L2024278-4 BH1020(9-10)						
Sampled By: SDB on 15-NOV-17 @ 13:45						
Matrix: SOIL						#1
Physical Tests						
% Moisture	7.11		0.10	%	23-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-4 BH1020(9-10)						
Sampled By: SDB on 15-NOV-17 @ 13:45						
Matrix: SOIL						
Volatile Organic Compounds						
Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05
cis-1,2-Dichloroethylene	1.00		0.050	ug/g	23-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	23-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Tetrachloroethylene	3.15		0.050	ug/g	23-NOV-17	*2.3
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	0.075		0.050	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Trichloroethylene	61.5	DLHC	0.16	ug/g	23-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	23-NOV-17	0.022
o-Xylene	0.026		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	23-NOV-17	25
Surrogate: 4-Bromofluorobenzene	101.1		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	102.2		50-140	%	23-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<80	DLHC	80	ug/g	23-NOV-17	**65
F1-BTEX	<80		80	ug/g	24-NOV-17	**65

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-4 BH1020(9-10)						
Sampled By: SDB on 15-NOV-17 @ 13:45						
Matrix: SOIL						#1
Hydrocarbons						
F2 (C10-C16)	<10		10	ug/g	23-NOV-17	150
F3 (C16-C34)	<50		50	ug/g	23-NOV-17	1300
F4 (C34-C50)	<50		50	ug/g	23-NOV-17	5600
Total Hydrocarbons (C6-C50)	<110		110	ug/g	24-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	23-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	83.9		60-140	%	23-NOV-17	
Surrogate: 3,4-Dichlorotoluene	N/A	SDO:RNA	60-140	%	23-NOV-17	
L2024278-5 BH102(14-15)						
Sampled By: SDB on 15-NOV-17 @ 13:50						
Matrix: SOIL						#1
Physical Tests						
% Moisture	15.2		0.10	%	23-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05
cis-1,2-Dichloroethylene	0.720		0.050	ug/g	23-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	23-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-5 BH102(14-15)						
Sampled By: SDB on 15-NOV-17 @ 13:50						
Matrix: SOIL						#1
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Tetrachloroethylene	1.31		0.050	ug/g	23-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Trichloroethylene	53.7	DLHC	0.16	ug/g	23-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	0.021		0.020	ug/g	23-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	23-NOV-17	25
Surrogate: 4-Bromofluorobenzene	91.8		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	93.6		50-140	%	23-NOV-17	
Hydrocarbons						
F1 (C6-C10)	12.6		5.0	ug/g	23-NOV-17	65
F1-BTEX	12.6		5.0	ug/g	24-NOV-17	65
F2 (C10-C16)	11		10	ug/g	23-NOV-17	150
F3 (C16-C34)	214		50	ug/g	23-NOV-17	1300
F4 (C34-C50)	<50		50	ug/g	23-NOV-17	5600
Total Hydrocarbons (C6-C50)	238		72	ug/g	24-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	23-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	80.7		60-140	%	23-NOV-17	
Surrogate: 3,4-Dichlorotoluene	75.5		60-140	%	23-NOV-17	
L2024278-6 BH102(17-18)						
Sampled By: SDB on 15-NOV-17 @ 13:55						
Matrix: SOIL						#1
Physical Tests						
% Moisture	19.3		0.10	%	28-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	30-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	30-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	30-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	30-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	30-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	30-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	30-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	30-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	30-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-6 BH102(17-18)						
Sampled By: SDB on 15-NOV-17 @ 13:55						
Matrix: SOIL						#1
Volatile Organic Compounds						
1,1-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.05
cis-1,2-Dichloroethylene	0.732		0.050	ug/g	30-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	30-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	30-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	01-DEC-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	30-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	30-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	30-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	30-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	30-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	30-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Tetrachloroethylene	0.093		0.050	ug/g	30-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	30-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Trichloroethylene	11.9	DLHC	0.040	ug/g	01-DEC-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	30-NOV-17	5.8
Vinyl chloride	0.059		0.020	ug/g	30-NOV-17	*0.022
o-Xylene	<0.020		0.020	ug/g	30-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	30-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	01-DEC-17	25
Surrogate: 4-Bromofluorobenzene	91.4		50-140	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	96.0		50-140	%	30-NOV-17	
L2024278-10 BH105(14-15)						
Sampled By: SDB on 16-NOV-17 @ 09:45						
Matrix: SOIL						#1
Physical Tests						
% Moisture	11.5		0.10	%	23-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-10 BH105(14-15)						
Sampled By: SDB on 16-NOV-17 @ 09:45						
Matrix: SOIL						#1
Volatile Organic Compounds						
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	23-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Trichloroethylene	<0.010		0.010	ug/g	23-NOV-17	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	23-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	23-NOV-17	25
Surrogate: 4-Bromofluorobenzene	95.6		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	102.5		50-140	%	23-NOV-17	
L2024278-13 BH106(12-13)						
Sampled By: SDB on 16-NOV-17 @ 10:55						
Matrix: SOIL						#1
Physical Tests						
% Moisture	15.6		0.10	%	23-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-13 BH106(12-13)						
Sampled By: SDB on 16-NOV-17 @ 10:55						
Matrix: SOIL						#1
Volatile Organic Compounds						
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	23-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Trichloroethylene	<0.010		0.010	ug/g	23-NOV-17	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	23-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	23-NOV-17	25
Surrogate: 4-Bromofluorobenzene	93.4		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	99.5		50-140	%	23-NOV-17	
L2024278-14 BH108(2-4)						
Sampled By: SDB on 15-NOV-17 @ 14:45						
Matrix: SOIL						#1
Physical Tests						
% Moisture	11.4		0.10	%	28-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	30-NOV-17	28

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-14 BH108(2-4)						
Sampled By: SDB on 15-NOV-17 @ 14:45						
Matrix: SOIL						
Volatile Organic Compounds						
Benzene	<0.0068		0.0068	ug/g	30-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	30-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	30-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	30-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	30-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	30-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	30-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	30-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	30-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	30-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	30-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	30-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	30-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	30-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	30-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	30-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	30-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	30-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Trichloroethylene	0.035		0.010	ug/g	30-NOV-17	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	30-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	30-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	30-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	30-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	30-NOV-17	25
Surrogate: 4-Bromofluorobenzene	93.3		50-140	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	99.3		50-140	%	30-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	30-NOV-17	65
F1-BTEX	<5.0		5.0	ug/g	01-DEC-17	65

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-14 BH108(2-4)						
Sampled By: SDB on 15-NOV-17 @ 14:45						
Matrix: SOIL						#1
Hydrocarbons						
F2 (C10-C16)	<10		10	ug/g	01-DEC-17	150
F3 (C16-C34)	<50		50	ug/g	01-DEC-17	1300
F4 (C34-C50)	<50		50	ug/g	01-DEC-17	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	01-DEC-17	
Chrom. to baseline at nC50	YES			No Unit	01-DEC-17	
Surrogate: 2-Bromobenzotrifluoride	91.8		60-140	%	01-DEC-17	
Surrogate: 3,4-Dichlorotoluene	76.0		60-140	%	30-NOV-17	
Semi-Volatile Organics						
Biphenyl	<0.050		0.050	ug/g	19-DEC-17	1.1
4-Chloroaniline	<0.10		0.10	ug/g	19-DEC-17	0.53
Bis(2-chloroethyl)ether	<0.10		0.10	ug/g	19-DEC-17	0.5
Bis(2-chloroisopropyl)ether	<0.10		0.10	ug/g	19-DEC-17	1.8
3,3'-Dichlorobenzidine	<0.10		0.10	ug/g	19-DEC-17	1
Diethylphthalate	<0.10		0.10	ug/g	19-DEC-17	0.5
Dimethylphthalate	<0.10		0.10	ug/g	19-DEC-17	0.5
2,4-Dimethylphenol	<0.10		0.10	ug/g	19-DEC-17	53
2,4-Dinitrophenol	<1.0		1.0	ug/g	19-DEC-17	2.9
2,4-Dinitrotoluene	<0.10		0.10	ug/g	19-DEC-17	
2,6-Dinitrotoluene	<0.10		0.10	ug/g	19-DEC-17	
Bis(2-ethylhexyl)phthalate	<0.10		0.10	ug/g	19-DEC-17	5
Phenol	<0.10		0.10	ug/g	19-DEC-17	9.4
1,2,4-Trichlorobenzene	<0.050		0.050	ug/g	19-DEC-17	1.4
Surrogate: 2-Fluorobiphenyl	108.1		50-140	%	19-DEC-17	
Surrogate: Nitrobenzene d5	115.0		50-140	%	19-DEC-17	
Surrogate: Phenol d5	110.2		30-130	%	19-DEC-17	
Surrogate: p-Terphenyl d14	111.6		50-140	%	19-DEC-17	
Surrogate: 2,4,6-Tribromophenol	101.9		50-140	%	19-DEC-17	
L2024278-15 BH108(9-10)						
Sampled By: SDB on 15-NOV-17 @ 14:50						
Matrix: SOIL						#1
Physical Tests						
% Moisture	9.54		0.10	%	23-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28
Benzene	0.0068		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-15	BH108(9-10)						
Sampled By:	SDB on 15-NOV-17 @ 14:50						
Matrix:	SOIL						
Volatile Organic Compounds							
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
	Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
	1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
	1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
	1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05
	cis-1,2-Dichloroethylene	4.05		0.050	ug/g	23-NOV-17	*2.5
	trans-1,2-Dichloroethylene	0.281		0.050	ug/g	23-NOV-17	0.75
	Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
	1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	23-NOV-17	0.081
	Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
	n-Hexane	0.140		0.050	ug/g	23-NOV-17	34
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
	MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
	Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
	1,1,2,2-Tetrachloroethane	<0.70	DLVH	0.70	ug/g	23-NOV-17	**0.05
	Tetrachloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.3
	Toluene	<0.080		0.080	ug/g	23-NOV-17	6
	1,1,1-Trichloroethane	<0.10	DLQ	0.10	ug/g	23-NOV-17	3.4
	1,1,2-Trichloroethane	<0.070	DLVH	0.070	ug/g	23-NOV-17	**0.05
	Trichloroethylene	0.044		0.010	ug/g	23-NOV-17	0.52
	Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
	Vinyl chloride	6.13		0.020	ug/g	23-NOV-17	*0.022
	o-Xylene	0.030		0.020	ug/g	23-NOV-17	
	m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
	Xylenes (Total)	<0.050		0.050	ug/g	23-NOV-17	25
	Surrogate: 4-Bromofluorobenzene	99.5		50-140	%	23-NOV-17	
	Surrogate: 1,4-Difluorobenzene	95.0		50-140	%	23-NOV-17	
Hydrocarbons							
	F1 (C6-C10)	29.9		5.0	ug/g	23-NOV-17	65
	F1-BTEX	29.9		5.0	ug/g	24-NOV-17	65
	F2 (C10-C16)	210	DLM	100	ug/g	23-NOV-17	*150
	F3 (C16-C34)	2730	DLM	500	ug/g	23-NOV-17	*1300
	F4 (C34-C50)	540	DLM	500	ug/g	23-NOV-17	5600
	F4G-SG (GHH-Silica)	2970		250	ug/g	23-NOV-17	5600
	Total Hydrocarbons (C6-C50)	3510		710	ug/g	24-NOV-17	
	Chrom. to baseline at nC50	NO			No Unit	23-NOV-17	
	Surrogate: 2-Bromobenzotrifluoride	95.6		60-140	%	23-NOV-17	
	Surrogate: 3,4-Dichlorotoluene	64.7		60-140	%	23-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-17 BH108(16.5-17)						
Sampled By: SDB on 15-NOV-17 @ 15:00						
Matrix: SOIL						
Physical Tests						
% Moisture	11.0		0.10	%	28-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	30-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	30-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	30-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	30-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	30-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	30-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	30-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	30-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	30-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.05
cis-1,2-Dichloroethylene	0.305		0.050	ug/g	30-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	30-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	30-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	30-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	30-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	30-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	30-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	30-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	30-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	30-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	30-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Trichloroethylene	0.355		0.010	ug/g	30-NOV-17	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	30-NOV-17	5.8
Vinyl chloride	0.097		0.020	ug/g	30-NOV-17	*0.022
o-Xylene	<0.020		0.020	ug/g	30-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	30-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	30-NOV-17	25
Surrogate: 4-Bromofluorobenzene	91.6		50-140	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	97.6		50-140	%	30-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2024278-21	BH113(1-2)									
Sampled By:	SDB on 15-NOV-17 @ 15:30									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	9.98		0.10	%	06-DEC-17				
Semi-Volatile Organics										
	Biphenyl	<0.050		0.050	ug/g	19-DEC-17	1.1			
	4-Chloroaniline	<0.10		0.10	ug/g	19-DEC-17	0.53			
	Bis(2-chloroethyl)ether	<0.10		0.10	ug/g	19-DEC-17	0.5			
	Bis(2-chloroisopropyl)ether	<0.10		0.10	ug/g	19-DEC-17	1.8			
	3,3'-Dichlorobenzidine	<0.10		0.10	ug/g	19-DEC-17	1			
	Diethylphthalate	<0.10		0.10	ug/g	19-DEC-17	0.5			
	Dimethylphthalate	<0.10		0.10	ug/g	19-DEC-17	0.5			
	2,4-Dimethylphenol	<0.10		0.10	ug/g	19-DEC-17	53			
	2,4-Dinitrophenol	<1.0		1.0	ug/g	19-DEC-17	2.9			
	2,4-Dinitrotoluene	<0.10		0.10	ug/g	19-DEC-17				
	2,6-Dinitrotoluene	<0.10		0.10	ug/g	19-DEC-17				
	Bis(2-ethylhexyl)phthalate	<0.10		0.10	ug/g	19-DEC-17	5			
	Phenol	<0.10		0.10	ug/g	19-DEC-17	9.4			
	1,2,4-Trichlorobenzene	<0.050		0.050	ug/g	19-DEC-17	1.4			
	Surrogate: 2-Fluorobiphenyl	110.1		50-140	%	19-DEC-17				
	Surrogate: Nitrobenzene d5	113.1		50-140	%	19-DEC-17				
	Surrogate: Phenol d5	111.4		30-130	%	19-DEC-17				
	Surrogate: p-Terphenyl d14	115.4		50-140	%	19-DEC-17				
	Surrogate: 2,4,6-Tribromophenol	98.9		50-140	%	19-DEC-17				
L2024278-22	BH113(3-5)									
Sampled By:	SDB on 15-NOV-17 @ 15:35									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	11.2		0.10	%	28-NOV-17				
Volatile Organic Compounds										
	Acetone	<0.50		0.50	ug/g	30-NOV-17	28			
	Benzene	<0.0068		0.0068	ug/g	30-NOV-17	0.17			
	Bromodichloromethane	<0.050		0.050	ug/g	30-NOV-17	1.9			
	Bromoform	<0.050		0.050	ug/g	30-NOV-17	0.26			
	Bromomethane	<0.050		0.050	ug/g	30-NOV-17	0.05			
	Carbon tetrachloride	<0.050		0.050	ug/g	30-NOV-17	0.12			
	Chlorobenzene	<0.050		0.050	ug/g	30-NOV-17	2.7			
	Dibromochloromethane	<0.050		0.050	ug/g	30-NOV-17	2.9			
	Chloroform	<0.050		0.050	ug/g	30-NOV-17	0.18			
	1,2-Dibromoethane	<0.050		0.050	ug/g	30-NOV-17	0.05			
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	1.7			
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	6			
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	0.097			
	Dichlorodifluoromethane	<0.050		0.050	ug/g	30-NOV-17	25			
	1,1-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.6			
	1,2-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05			
	1,1-Dichloroethylene	0.093		0.050	ug/g	30-NOV-17	*0.05			
	cis-1,2-Dichloroethylene	17.6	DLHC	0.40	ug/g	01-DEC-17	*2.5			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-22 BH113(3-5)						
Sampled By: SDB on 15-NOV-17 @ 15:35						
Matrix: SOIL						#1
Volatile Organic Compounds						
trans-1,2-Dichloroethylene	0.129		0.050	ug/g	30-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	30-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	30-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	01-DEC-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	30-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	30-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	30-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	30-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	30-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	30-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Tetrachloroethylene	0.051		0.050	ug/g	30-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	30-NOV-17	6
1,1,1-Trichloroethane	<0.35	DLQ	0.35	ug/g	30-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Trichloroethylene	5.05		0.010	ug/g	30-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	30-NOV-17	5.8
Vinyl chloride	0.685		0.020	ug/g	30-NOV-17	*0.022
o-Xylene	<0.020		0.020	ug/g	30-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	30-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	01-DEC-17	25
Surrogate: 4-Bromofluorobenzene	100.5		50-140	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	100.6		50-140	%	30-NOV-17	
Hydrocarbons						
F1 (C6-C10)	6.4		5.0	ug/g	30-NOV-17	65
F1-BTEX	6.4		5.0	ug/g	01-DEC-17	65
F2 (C10-C16)	50		10	ug/g	01-DEC-17	150
F3 (C16-C34)	880		50	ug/g	01-DEC-17	1300
F4 (C34-C50)	53		50	ug/g	01-DEC-17	5600
Total Hydrocarbons (C6-C50)	988		72	ug/g	01-DEC-17	
Chrom. to baseline at nC50	YES			No Unit	01-DEC-17	
Surrogate: 2-Bromobenzotrifluoride	90.3		60-140	%	01-DEC-17	
Surrogate: 3,4-Dichlorotoluene	71.1		60-140	%	30-NOV-17	
L2024278-23 BH113(8-10)						
Sampled By: SDB on 15-NOV-17 @ 15:40						
Matrix: SOIL						#1
Physical Tests						
% Moisture	7.97		0.10	%	23-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-23 BH113(8-10)						
Sampled By: SDB on 15-NOV-17 @ 15:40						
Matrix: SOIL						
Volatile Organic Compounds						
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1-Dichloroethylene	0.054		0.050	ug/g	23-NOV-17	*0.05
cis-1,2-Dichloroethylene	6.18		0.050	ug/g	23-NOV-17	*2.5
trans-1,2-Dichloroethylene	0.065		0.050	ug/g	23-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	23-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Tetrachloroethylene	0.190		0.050	ug/g	23-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	<0.15	DLQ	0.15	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	0.067		0.050	ug/g	23-NOV-17	*0.05
Trichloroethylene	120	DLHC	0.40	ug/g	23-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	0.202		0.020	ug/g	23-NOV-17	*0.022
o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	23-NOV-17	25
Surrogate: 4-Bromofluorobenzene	93.7		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	97.0		50-140	%	23-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<200	DLHC	200	ug/g	23-NOV-17	**65
F1-BTEX	<200		200	ug/g	24-NOV-17	**65
F2 (C10-C16)	12		10	ug/g	23-NOV-17	150
F3 (C16-C34)	206		50	ug/g	23-NOV-17	1300

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-23 BH113(8-10)						
Sampled By: SDB on 15-NOV-17 @ 15:40						
Matrix: SOIL						#1
Hydrocarbons						
F4 (C34-C50)	<50		50	ug/g	23-NOV-17	5600
Total Hydrocarbons (C6-C50)	220		210	ug/g	24-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	23-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	88.7		60-140	%	23-NOV-17	
Surrogate: 3,4-Dichlorotoluene	N/A	SDO:RNA	60-140	%	23-NOV-17	
L2024278-24 BH113(15-16)						
Sampled By: SDB on 15-NOV-17 @ 15:45						
Matrix: SOIL						#1
Physical Tests						
% Moisture	9.93		0.10	%	23-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28
Benzene	0.0121		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1-Dichloroethylene	0.067		0.050	ug/g	23-NOV-17	*0.05
cis-1,2-Dichloroethylene	1.46		0.050	ug/g	23-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	23-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.3

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-24 BH113(15-16)						
Sampled By: SDB on 15-NOV-17 @ 15:45						
Matrix: SOIL						
Volatile Organic Compounds						
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Trichloroethylene	59.7	DLHC	0.16	ug/g	23-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	0.333		0.020	ug/g	23-NOV-17	*0.022
o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	23-NOV-17	25
Surrogate: 4-Bromofluorobenzene	93.9		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	97.6		50-140	%	23-NOV-17	
Hydrocarbons						
F1 (C6-C10)	12.8		5.0	ug/g	23-NOV-17	65
F1-BTEX	12.7		5.0	ug/g	24-NOV-17	65
F2 (C10-C16)	<10		10	ug/g	23-NOV-17	150
F3 (C16-C34)	<50		50	ug/g	23-NOV-17	1300
F4 (C34-C50)	<50		50	ug/g	23-NOV-17	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	24-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	23-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	79.1		60-140	%	23-NOV-17	
Surrogate: 3,4-Dichlorotoluene	79.1		60-140	%	23-NOV-17	
L2024278-25 BH115(2-4)						
Sampled By: SDB on 16-NOV-17 @ 13:30						
Matrix: SOIL						#1
Physical Tests						
% Moisture	13.1		0.10	%	23-NOV-17	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	23-NOV-17	7.5
Arsenic (As)	21.4		1.0	ug/g	23-NOV-17	*18
Barium (Ba)	49.3		1.0	ug/g	23-NOV-17	390
Beryllium (Be)	<0.50		0.50	ug/g	23-NOV-17	5
Boron (B)	12.4		5.0	ug/g	23-NOV-17	120
Boron (B), Hot Water Ext.	0.19		0.10	ug/g	24-NOV-17	1.5
Cadmium (Cd)	0.69		0.50	ug/g	23-NOV-17	1.2
Chromium (Cr)	8.8		1.0	ug/g	23-NOV-17	160
Cobalt (Co)	6.3		1.0	ug/g	23-NOV-17	22
Copper (Cu)	61.2		1.0	ug/g	23-NOV-17	180
Lead (Pb)	35.3		1.0	ug/g	23-NOV-17	120
Mercury (Hg)	0.151		0.0050	ug/g	23-NOV-17	1.8
Molybdenum (Mo)	2.5		1.0	ug/g	23-NOV-17	6.9
Nickel (Ni)	11.5		1.0	ug/g	23-NOV-17	130
Selenium (Se)	<1.0		1.0	ug/g	23-NOV-17	2.4
Silver (Ag)	0.22		0.20	ug/g	23-NOV-17	25
Thallium (Tl)	<0.50		0.50	ug/g	23-NOV-17	1
Uranium (U)	<1.0		1.0	ug/g	23-NOV-17	23

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-25 BH115(2-4)						
Sampled By: SDB on 16-NOV-17 @ 13:30						
Matrix: SOIL						
Metals						
Vanadium (V)	13.0		1.0	ug/g	23-NOV-17	86
Zinc (Zn)	196		5.0	ug/g	23-NOV-17	340
Speciated Metals						
Chromium, Hexavalent	<0.20		0.20	ug/g	23-NOV-17	10
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	24-NOV-17	29
Acenaphthylene	<0.050		0.050	ug/g	24-NOV-17	0.17
Anthracene	0.125		0.050	ug/g	24-NOV-17	0.74
Benzo(a)anthracene	0.115		0.050	ug/g	24-NOV-17	0.63
Benzo(a)pyrene	0.081		0.050	ug/g	24-NOV-17	0.3
Benzo(b)fluoranthene	0.084		0.050	ug/g	24-NOV-17	0.78
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	24-NOV-17	7.8
Benzo(k)fluoranthene	0.071		0.050	ug/g	24-NOV-17	0.78
Chrysene	0.109		0.050	ug/g	24-NOV-17	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	24-NOV-17	0.1
Fluoranthene	0.284		0.050	ug/g	24-NOV-17	0.69
Fluorene	0.064		0.050	ug/g	24-NOV-17	69
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	24-NOV-17	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	24-NOV-17	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	24-NOV-17	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	24-NOV-17	3.4
Naphthalene	<0.050		0.050	ug/g	24-NOV-17	0.75
Phenanthrene	0.350		0.050	ug/g	24-NOV-17	7.8
Pyrene	0.208		0.050	ug/g	24-NOV-17	78
Surrogate: 2-Fluorobiphenyl	88.7		50-140	%	24-NOV-17	
Surrogate: p-Terphenyl d14	85.1		50-140	%	24-NOV-17	
Semi-Volatile Organics						
Biphenyl	<0.050		0.050	ug/g	19-DEC-17	1.1
4-Chloroaniline	<0.10		0.10	ug/g	19-DEC-17	0.53
Bis(2-chloroethyl)ether	<0.10		0.10	ug/g	19-DEC-17	0.5
Bis(2-chloroisopropyl)ether	<0.10		0.10	ug/g	19-DEC-17	1.8
3,3'-Dichlorobenzidine	<0.10		0.10	ug/g	19-DEC-17	1
Diethylphthalate	<0.10		0.10	ug/g	19-DEC-17	0.5
Dimethylphthalate	<0.10		0.10	ug/g	19-DEC-17	0.5
2,4-Dimethylphenol	<0.10		0.10	ug/g	19-DEC-17	53
2,4-Dinitrophenol	<1.0		1.0	ug/g	19-DEC-17	2.9
2,4-Dinitrotoluene	<0.10		0.10	ug/g	19-DEC-17	
2,6-Dinitrotoluene	<0.10		0.10	ug/g	19-DEC-17	
Bis(2-ethylhexyl)phthalate	<0.10		0.10	ug/g	19-DEC-17	5
Phenol	<0.10		0.10	ug/g	19-DEC-17	9.4
1,2,4-Trichlorobenzene	<0.050		0.050	ug/g	19-DEC-17	1.4
Surrogate: 2-Fluorobiphenyl	112.5		50-140	%	19-DEC-17	
Surrogate: Nitrobenzene d5	110.0		50-140	%	19-DEC-17	
Surrogate: Phenol d5	112.6		30-130	%	19-DEC-17	
Surrogate: p-Terphenyl d14	108.3		50-140	%	19-DEC-17	
Surrogate: 2,4,6-Tribromophenol	104.9		50-140	%	19-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-25 BH115(2-4) Sampled By: SDB on 16-NOV-17 @ 13:30 Matrix: SOIL						#1
L2024278-26 BH115(7.5-10) Sampled By: SDB on 16-NOV-17 @ 13:35 Matrix: SOIL						#1
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	30-NOV-17	7.5
Arsenic (As)	7.89		0.20	ug/g	30-NOV-17	18
Selenium (Se)	<1.0		1.0	ug/g	30-NOV-17	2.4
L2024278-28 BH115(12.5-15) Sampled By: SDB on 16-NOV-17 @ 13:45 Matrix: SOIL						#1
Physical Tests						
% Moisture	10.3		0.10	%	23-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05
cis-1,2-Dichloroethylene	0.201		0.050	ug/g	23-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	23-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-28 BH115(12.5-15)						
Sampled By: SDB on 16-NOV-17 @ 13:45						
Matrix: SOIL						#1
Volatile Organic Compounds						
Tetrachloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Trichloroethylene	2.71		0.010	ug/g	23-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	23-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	23-NOV-17	25
Surrogate: 4-Bromofluorobenzene	90.7		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	95.3		50-140	%	23-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	23-NOV-17	65
F1-BTEX	<5.0		5.0	ug/g	24-NOV-17	65
F2 (C10-C16)	<10		10	ug/g	23-NOV-17	150
F3 (C16-C34)	<50		50	ug/g	23-NOV-17	1300
F4 (C34-C50)	<50		50	ug/g	23-NOV-17	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	24-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	23-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	83.5		60-140	%	23-NOV-17	
Surrogate: 3,4-Dichlorotoluene	72.0		60-140	%	23-NOV-17	
L2024278-29 BH115(15-16)						
Sampled By: SDB on 16-NOV-17 @ 13:50						
Matrix: SOIL						#1
Physical Tests						
% Moisture	13.6		0.10	%	29-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	30-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	30-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	30-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	30-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	30-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	30-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	30-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	30-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	30-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-29	BH115(15-16)						
Sampled By:	SDB on 16-NOV-17 @ 13:50						
Matrix:	SOIL						#1
Volatile Organic Compounds							
	cis-1,2-Dichloroethylene	0.328		0.050	ug/g	30-NOV-17	2.5
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.75
	Methylene Chloride	<0.050		0.050	ug/g	30-NOV-17	0.96
	1,2-Dichloropropane	<0.050		0.050	ug/g	30-NOV-17	0.085
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	30-NOV-17	0.081
	Ethylbenzene	<0.018		0.018	ug/g	30-NOV-17	1.6
	n-Hexane	<0.050		0.050	ug/g	30-NOV-17	34
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	30-NOV-17	44
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	30-NOV-17	4.3
	MTBE	<0.050		0.050	ug/g	30-NOV-17	1.4
	Styrene	<0.050		0.050	ug/g	30-NOV-17	2.2
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
	Tetrachloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.3
	Toluene	<0.080		0.080	ug/g	30-NOV-17	6
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	3.4
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
	Trichloroethylene	2.97		0.010	ug/g	30-NOV-17	*0.52
	Trichlorofluoromethane	<0.050		0.050	ug/g	30-NOV-17	5.8
	Vinyl chloride	0.029		0.020	ug/g	30-NOV-17	*0.022
	o-Xylene	<0.020		0.020	ug/g	30-NOV-17	
	m+p-Xylenes	<0.030		0.030	ug/g	30-NOV-17	
	Xylenes (Total)	<0.050		0.050	ug/g	30-NOV-17	25
	Surrogate: 4-Bromofluorobenzene	93.5		50-140	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	100.1		50-140	%	30-NOV-17	
L2024278-30	BH1150(2-4)						
Sampled By:	SDB on 16-NOV-17 @ 13:55						
Matrix:	SOIL						#1
Physical Tests							
	% Moisture	7.25		0.10	%	23-NOV-17	
Metals							
	Antimony (Sb)	<1.0		1.0	ug/g	23-NOV-17	7.5
	Arsenic (As)	24.5		1.0	ug/g	23-NOV-17	*18
	Barium (Ba)	45.8		1.0	ug/g	23-NOV-17	390
	Beryllium (Be)	<0.50		0.50	ug/g	23-NOV-17	5
	Boron (B)	12.4		5.0	ug/g	23-NOV-17	120
	Boron (B), Hot Water Ext.	0.18		0.10	ug/g	24-NOV-17	1.5
	Cadmium (Cd)	0.97		0.50	ug/g	23-NOV-17	1.2
	Chromium (Cr)	7.9		1.0	ug/g	23-NOV-17	160
	Cobalt (Co)	6.0		1.0	ug/g	23-NOV-17	22
	Copper (Cu)	121		1.0	ug/g	23-NOV-17	180
	Lead (Pb)	44.7		1.0	ug/g	23-NOV-17	120
	Mercury (Hg)	0.112		0.0050	ug/g	23-NOV-17	1.8

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-30 BH1150(2-4)						
Sampled By: SDB on 16-NOV-17 @ 13:55						
Matrix: SOIL						#1
Metals						
Molybdenum (Mo)	2.9		1.0	ug/g	23-NOV-17	6.9
Nickel (Ni)	11.1		1.0	ug/g	23-NOV-17	130
Selenium (Se)	<1.0		1.0	ug/g	23-NOV-17	2.4
Silver (Ag)	0.24		0.20	ug/g	23-NOV-17	25
Thallium (Tl)	<0.50		0.50	ug/g	23-NOV-17	1
Uranium (U)	<1.0		1.0	ug/g	23-NOV-17	23
Vanadium (V)	11.7		1.0	ug/g	23-NOV-17	86
Zinc (Zn)	228		5.0	ug/g	23-NOV-17	340
Speciated Metals						
Chromium, Hexavalent	<0.20		0.20	ug/g	23-NOV-17	10
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	24-NOV-17	29
Acenaphthylene	<0.050		0.050	ug/g	24-NOV-17	0.17
Anthracene	<0.050		0.050	ug/g	24-NOV-17	0.74
Benzo(a)anthracene	<0.050		0.050	ug/g	24-NOV-17	0.63
Benzo(a)pyrene	<0.050		0.050	ug/g	24-NOV-17	0.3
Benzo(b)fluoranthene	<0.050		0.050	ug/g	24-NOV-17	0.78
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	24-NOV-17	7.8
Benzo(k)fluoranthene	<0.050		0.050	ug/g	24-NOV-17	0.78
Chrysene	<0.050		0.050	ug/g	24-NOV-17	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	24-NOV-17	0.1
Fluoranthene	0.052		0.050	ug/g	24-NOV-17	0.69
Fluorene	<0.050		0.050	ug/g	24-NOV-17	69
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	24-NOV-17	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	24-NOV-17	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	24-NOV-17	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	24-NOV-17	3.4
Naphthalene	<0.050		0.050	ug/g	24-NOV-17	0.75
Phenanthrene	<0.050		0.050	ug/g	24-NOV-17	7.8
Pyrene	<0.050		0.050	ug/g	24-NOV-17	78
Surrogate: 2-Fluorobiphenyl	84.6		50-140	%	24-NOV-17	
Surrogate: p-Terphenyl d14	80.4		50-140	%	24-NOV-17	
L2024278-31 BH116(1-3)						
Sampled By: SDB on 16-NOV-17 @ 12:30						
Matrix: SOIL						#1
Physical Tests						
% Moisture	9.73		0.10	%	23-NOV-17	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	23-NOV-17	7.5
Arsenic (As)	11.2		1.0	ug/g	23-NOV-17	18
Barium (Ba)	93.2		1.0	ug/g	23-NOV-17	390
Beryllium (Be)	<0.50		0.50	ug/g	23-NOV-17	5
Boron (B)	10.5		5.0	ug/g	23-NOV-17	120
Boron (B), Hot Water Ext.	0.14		0.10	ug/g	24-NOV-17	1.5

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-31 BH116(1-3)						
Sampled By: SDB on 16-NOV-17 @ 12:30						
Matrix: SOIL						#1
Metals						
Cadmium (Cd)	<0.50		0.50	ug/g	23-NOV-17	1.2
Chromium (Cr)	15.3		1.0	ug/g	23-NOV-17	160
Cobalt (Co)	8.6		1.0	ug/g	23-NOV-17	22
Copper (Cu)	62.8		1.0	ug/g	23-NOV-17	180
Lead (Pb)	33.4		1.0	ug/g	23-NOV-17	120
Mercury (Hg)	0.0376		0.0050	ug/g	23-NOV-17	1.8
Molybdenum (Mo)	1.3		1.0	ug/g	23-NOV-17	6.9
Nickel (Ni)	17.4		1.0	ug/g	23-NOV-17	130
Selenium (Se)	<1.0		1.0	ug/g	23-NOV-17	2.4
Silver (Ag)	<0.20		0.20	ug/g	23-NOV-17	25
Thallium (Tl)	<0.50		0.50	ug/g	23-NOV-17	1
Uranium (U)	<1.0		1.0	ug/g	23-NOV-17	23
Vanadium (V)	21.5		1.0	ug/g	23-NOV-17	86
Zinc (Zn)	128		5.0	ug/g	23-NOV-17	340
Speciated Metals						
Chromium, Hexavalent	<0.20		0.20	ug/g	23-NOV-17	10
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	24-NOV-17	29
Acenaphthylene	<0.050		0.050	ug/g	24-NOV-17	0.17
Anthracene	<0.050		0.050	ug/g	24-NOV-17	0.74
Benzo(a)anthracene	<0.050		0.050	ug/g	24-NOV-17	0.63
Benzo(a)pyrene	<0.050		0.050	ug/g	24-NOV-17	0.3
Benzo(b)fluoranthene	<0.050		0.050	ug/g	24-NOV-17	0.78
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	24-NOV-17	7.8
Benzo(k)fluoranthene	<0.050		0.050	ug/g	24-NOV-17	0.78
Chrysene	<0.050		0.050	ug/g	24-NOV-17	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	24-NOV-17	0.1
Fluoranthene	<0.050		0.050	ug/g	24-NOV-17	0.69
Fluorene	<0.050		0.050	ug/g	24-NOV-17	69
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	24-NOV-17	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	24-NOV-17	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	24-NOV-17	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	24-NOV-17	3.4
Naphthalene	<0.050		0.050	ug/g	24-NOV-17	0.75
Phenanthrene	<0.050		0.050	ug/g	24-NOV-17	7.8
Pyrene	<0.050		0.050	ug/g	24-NOV-17	78
Surrogate: 2-Fluorobiphenyl	89.4		50-140	%	24-NOV-17	
Surrogate: p-Terphenyl d14	85.5		50-140	%	24-NOV-17	
L2024278-32 BH116(6-7)						
Sampled By: SDB on 16-NOV-17 @ 12:35						
Matrix: SOIL						#1
Physical Tests						
% Moisture	10.2		0.10	%	29-NOV-17	
Volatile Organic Compounds						

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-32 BH116(6-7)						
Sampled By: SDB on 16-NOV-17 @ 12:35						
Matrix: SOIL						
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	30-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	30-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	30-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	30-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	30-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	30-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	30-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	30-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	30-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	30-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	30-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	30-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	30-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	30-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	30-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	30-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	30-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	30-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	30-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Trichloroethylene	<0.010		0.010	ug/g	30-NOV-17	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	30-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	30-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	30-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	30-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	30-NOV-17	25
Surrogate: 4-Bromofluorobenzene	95.0		50-140	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	100.9		50-140	%	30-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-34	BH116(13-14)						
Sampled By:	SDB on 16-NOV-17 @ 12:45						
Matrix:	SOIL						
Physical Tests							
	% Moisture	19.0		0.10	%	23-NOV-17	
Volatile Organic Compounds							
	Acetone	<0.50		0.50	ug/g	23-NOV-17	28
	Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17
	Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
	Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
	Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
	Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
	Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
	Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
	Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
	1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
	Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
	1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
	1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
	1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05
	cis-1,2-Dichloroethylene	0.186		0.050	ug/g	23-NOV-17	2.5
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75
	Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
	1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	23-NOV-17	0.081
	Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
	n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
	MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
	Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
	Tetrachloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.3
	Toluene	<0.080		0.080	ug/g	23-NOV-17	6
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	3.4
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
	Trichloroethylene	7.31		0.010	ug/g	23-NOV-17	*0.52
	Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
	Vinyl chloride	<0.020		0.020	ug/g	23-NOV-17	0.022
	o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
	m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
	Xylenes (Total)	<0.050		0.050	ug/g	23-NOV-17	25
	Surrogate: 4-Bromofluorobenzene	92.7		50-140	%	23-NOV-17	
	Surrogate: 1,4-Difluorobenzene	99.0		50-140	%	23-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2024278-34 BH116(13-14)									
Sampled By: SDB on 16-NOV-17 @ 12:45									
Matrix: SOIL						#1			
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	23-NOV-17	65			
F1-BTEX	<5.0		5.0	ug/g	24-NOV-17	65			
F2 (C10-C16)	<10		10	ug/g	23-NOV-17	150			
F3 (C16-C34)	<50		50	ug/g	23-NOV-17	1300			
F4 (C34-C50)	<50		50	ug/g	23-NOV-17	5600			
Total Hydrocarbons (C6-C50)	<72		72	ug/g	24-NOV-17				
Chrom. to baseline at nC50	YES			No Unit	23-NOV-17				
Surrogate: 2-Bromobenzotrifluoride	73.7		60-140	%	23-NOV-17				
Surrogate: 3,4-Dichlorotoluene	71.5		60-140	%	23-NOV-17				
L2024278-35 BH1160(13-14)									
Sampled By: SDB on 16-NOV-17 @ 12:50									
Matrix: SOIL						#1			
Physical Tests									
% Moisture	17.7		0.10	%	23-NOV-17				
Volatile Organic Compounds									
Acetone	<0.50		0.50	ug/g	23-NOV-17	28			
Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17			
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9			
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26			
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05			
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12			
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7			
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9			
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18			
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05			
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7			
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6			
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097			
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25			
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6			
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05			
1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05			
cis-1,2-Dichloroethylene	0.130		0.050	ug/g	23-NOV-17	2.5			
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75			
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96			
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085			
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17				
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17				
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	23-NOV-17	0.081			
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6			
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34			
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44			
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3			
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4			
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-35 BH1160(13-14)						
Sampled By: SDB on 16-NOV-17 @ 12:50						
Matrix: SOIL						
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Trichloroethylene	5.13		0.010	ug/g	23-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	23-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	23-NOV-17	25
Surrogate: 4-Bromofluorobenzene	84.6		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	90.1		50-140	%	23-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	23-NOV-17	65
F1-BTEX	<5.0		5.0	ug/g	24-NOV-17	65
F2 (C10-C16)	<10		10	ug/g	23-NOV-17	150
F3 (C16-C34)	<50		50	ug/g	23-NOV-17	1300
F4 (C34-C50)	<50		50	ug/g	23-NOV-17	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	24-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	23-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	79.3		60-140	%	23-NOV-17	
Surrogate: 3,4-Dichlorotoluene	72.5		60-140	%	23-NOV-17	
L2024278-36 BH116(15-16)						
Sampled By: SDB on 16-NOV-17 @ 12:55						
Matrix: SOIL						#1
Physical Tests						
% Moisture	12.3		0.10	%	06-DEC-17	
Volatile Organic Compounds						
Acetone	<0.50	PEHT	0.50	ug/g	08-DEC-17	28
Benzene	<0.0068	PEHT	0.0068	ug/g	08-DEC-17	0.17
Bromodichloromethane	<0.050	PEHT	0.050	ug/g	08-DEC-17	1.9
Bromoform	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.26
Bromomethane	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.05
Carbon tetrachloride	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.12
Chlorobenzene	<0.050	PEHT	0.050	ug/g	08-DEC-17	2.7
Dibromochloromethane	<0.050	PEHT	0.050	ug/g	08-DEC-17	2.9
Chloroform	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.18
1,2-Dibromoethane	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.05
1,2-Dichlorobenzene	<0.050	PEHT	0.050	ug/g	08-DEC-17	1.7
1,3-Dichlorobenzene	<0.050	PEHT	0.050	ug/g	08-DEC-17	6
1,4-Dichlorobenzene	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.097
Dichlorodifluoromethane	<0.050	PEHT	0.050	ug/g	08-DEC-17	25
1,1-Dichloroethane	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.6

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-36 BH116(15-16)						
Sampled By: SDB on 16-NOV-17 @ 12:55						
Matrix: SOIL						#1
Volatile Organic Compounds						
1,2-Dichloroethane	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.05
1,1-Dichloroethylene	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.05
cis-1,2-Dichloroethylene	<0.050	PEHT	0.050	ug/g	08-DEC-17	2.5
trans-1,2-Dichloroethylene	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.75
Methylene Chloride	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.96
1,2-Dichloropropane	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.085
cis-1,3-Dichloropropene	<0.030	PEHT	0.030	ug/g	08-DEC-17	
trans-1,3-Dichloropropene	<0.030	PEHT	0.030	ug/g	08-DEC-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	08-DEC-17	0.081
Ethylbenzene	<0.018	PEHT	0.018	ug/g	08-DEC-17	1.6
n-Hexane	<0.050	PEHT	0.050	ug/g	08-DEC-17	34
Methyl Ethyl Ketone	<0.50	PEHT	0.50	ug/g	08-DEC-17	44
Methyl Isobutyl Ketone	<0.50	PEHT	0.50	ug/g	08-DEC-17	4.3
MTBE	<0.050	PEHT	0.050	ug/g	08-DEC-17	1.4
Styrene	<0.050	PEHT	0.050	ug/g	08-DEC-17	2.2
1,1,1,2-Tetrachloroethane	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.05
1,1,2,2-Tetrachloroethane	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.05
Tetrachloroethylene	<0.050	PEHT	0.050	ug/g	08-DEC-17	2.3
Toluene	<0.080	PEHT	0.080	ug/g	08-DEC-17	6
1,1,1-Trichloroethane	<0.050	PEHT	0.050	ug/g	08-DEC-17	3.4
1,1,2-Trichloroethane	<0.050	PEHT	0.050	ug/g	08-DEC-17	0.05
Trichloroethylene	0.063	PEHT	0.010	ug/g	08-DEC-17	0.52
Trichlorofluoromethane	<0.050	PEHT	0.050	ug/g	08-DEC-17	5.8
Vinyl chloride	<0.020	PEHT	0.020	ug/g	08-DEC-17	0.022
o-Xylene	<0.020	PEHT	0.020	ug/g	08-DEC-17	
m+p-Xylenes	<0.030	PEHT	0.030	ug/g	08-DEC-17	
Xylenes (Total)	<0.050		0.050	ug/g	08-DEC-17	25
Surrogate: 4-Bromofluorobenzene	93.7		50-140	%	08-DEC-17	
Surrogate: 1,4-Difluorobenzene	95.3		50-140	%	08-DEC-17	
L2024278-37 BH117(1-2)						
Sampled By: SDB on 15-NOV-17 @ 09:00						
Matrix: SOIL						#1
Physical Tests						
% Moisture	13.4		0.10	%	23-NOV-17	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	23-NOV-17	7.5
Arsenic (As)	7.1		1.0	ug/g	23-NOV-17	18
Barium (Ba)	121		1.0	ug/g	23-NOV-17	390
Beryllium (Be)	0.80		0.50	ug/g	23-NOV-17	5
Boron (B)	8.9		5.0	ug/g	23-NOV-17	120
Boron (B), Hot Water Ext.	0.13		0.10	ug/g	24-NOV-17	1.5
Cadmium (Cd)	<0.50		0.50	ug/g	23-NOV-17	1.2
Chromium (Cr)	23.5		1.0	ug/g	23-NOV-17	160
Cobalt (Co)	13.2		1.0	ug/g	23-NOV-17	22
Copper (Cu)	51.3		1.0	ug/g	23-NOV-17	180

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-37 BH117(1-2)						
Sampled By: SDB on 15-NOV-17 @ 09:00						
Matrix: SOIL						#1
Metals						
Lead (Pb)	10.8		1.0	ug/g	23-NOV-17	120
Mercury (Hg)	0.0180		0.0050	ug/g	23-NOV-17	1.8
Molybdenum (Mo)	<1.0		1.0	ug/g	23-NOV-17	6.9
Nickel (Ni)	28.4		1.0	ug/g	23-NOV-17	130
Selenium (Se)	<1.0		1.0	ug/g	23-NOV-17	2.4
Silver (Ag)	<0.20		0.20	ug/g	23-NOV-17	25
Thallium (Tl)	<0.50		0.50	ug/g	23-NOV-17	1
Uranium (U)	<1.0		1.0	ug/g	23-NOV-17	23
Vanadium (V)	33.0		1.0	ug/g	23-NOV-17	86
Zinc (Zn)	62.2		5.0	ug/g	23-NOV-17	340
Speciated Metals						
Chromium, Hexavalent	0.33		0.20	ug/g	23-NOV-17	10
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	24-NOV-17	29
Acenaphthylene	<0.050		0.050	ug/g	24-NOV-17	0.17
Anthracene	<0.050		0.050	ug/g	24-NOV-17	0.74
Benzo(a)anthracene	<0.050		0.050	ug/g	24-NOV-17	0.63
Benzo(a)pyrene	<0.050		0.050	ug/g	24-NOV-17	0.3
Benzo(b)fluoranthene	<0.050		0.050	ug/g	24-NOV-17	0.78
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	24-NOV-17	7.8
Benzo(k)fluoranthene	<0.050		0.050	ug/g	24-NOV-17	0.78
Chrysene	<0.050		0.050	ug/g	24-NOV-17	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	24-NOV-17	0.1
Fluoranthene	<0.050		0.050	ug/g	24-NOV-17	0.69
Fluorene	<0.050		0.050	ug/g	24-NOV-17	69
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	24-NOV-17	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	24-NOV-17	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	24-NOV-17	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	24-NOV-17	3.4
Naphthalene	<0.050		0.050	ug/g	24-NOV-17	0.75
Phenanthrene	<0.050		0.050	ug/g	24-NOV-17	7.8
Pyrene	<0.050		0.050	ug/g	24-NOV-17	78
Surrogate: 2-Fluorobiphenyl	93.4		50-140	%	24-NOV-17	
Surrogate: p-Terphenyl d14	90.7		50-140	%	24-NOV-17	
L2024278-39 BH117(7.5-9.5)						
Sampled By: SDB on 15-NOV-17 @ 09:20						
Matrix: SOIL						#1
Physical Tests						
% Moisture	10.6		0.10	%	23-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	28-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	28-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	28-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	28-NOV-17	0.26

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-39 BH117(7.5-9.5)						
Sampled By: SDB on 15-NOV-17 @ 09:20						
Matrix: SOIL						
Volatile Organic Compounds						
Bromomethane	<0.050		0.050	ug/g	28-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	28-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	28-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	28-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	28-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	28-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	28-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	28-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	28-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	28-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	28-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	28-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	28-NOV-17	0.05
cis-1,2-Dichloroethylene	0.192		0.050	ug/g	28-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	28-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	28-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	28-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	28-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	28-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	01-DEC-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	28-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	28-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	28-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	28-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	28-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	28-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	28-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	28-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	28-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	28-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	28-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	28-NOV-17	0.05
Trichloroethylene	4.08		0.010	ug/g	28-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	28-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	28-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	28-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	28-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	01-DEC-17	25
Surrogate: 4-Bromofluorobenzene	95.9		50-140	%	28-NOV-17	
Surrogate: 1,4-Difluorobenzene	98.8		50-140	%	28-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	22-NOV-17	65
F2 (C10-C16)	<10		10	ug/g	23-NOV-17	150
F3 (C16-C34)	<50		50	ug/g	23-NOV-17	1300
F4 (C34-C50)	<50		50	ug/g	23-NOV-17	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	24-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-39 BH117(7.5-9.5)						
Sampled By: SDB on 15-NOV-17 @ 09:20						
Matrix: SOIL						#1
Hydrocarbons						
Chrom. to baseline at nC50	YES			No Unit	23-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	82.9		60-140	%	23-NOV-17	
Surrogate: 3,4-Dichlorotoluene	82.3		60-140	%	22-NOV-17	
L2024278-40 BH117(10-12)						
Sampled By: SDB on 15-NOV-17 @ 09:30						
Matrix: SOIL						#1
Physical Tests						
% Moisture	7.08		0.10	%	23-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05
cis-1,2-Dichloroethylene	2.54		0.050	ug/g	23-NOV-17	*2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	23-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	<0.060	DLQ	0.060	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-40 BH117(10-12)						
Sampled By: SDB on 15-NOV-17 @ 09:30						
Matrix: SOIL						#1
Volatile Organic Compounds						
Trichloroethylene	0.062		0.010	ug/g	23-NOV-17	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	0.150		0.020	ug/g	23-NOV-17	*0.022
o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	23-NOV-17	25
Surrogate: 4-Bromofluorobenzene	93.4		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	98.9		50-140	%	23-NOV-17	
L2024278-42 BH117(20-22)						
Sampled By: SDB on 15-NOV-17 @ 09:50						
Matrix: SOIL						#1
Physical Tests						
% Moisture	8.92		0.10	%	28-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	30-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	30-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	30-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	30-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	30-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	30-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	30-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	30-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	30-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	30-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	30-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	30-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	30-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	30-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	30-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	30-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	30-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	30-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-42 BH117(20-22)						
Sampled By: SDB on 15-NOV-17 @ 09:50						
Matrix: SOIL						
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	30-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Trichloroethylene	1.42		0.010	ug/g	30-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	30-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	30-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	30-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	30-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	30-NOV-17	25
Surrogate: 4-Bromofluorobenzene	91.8		50-140	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	98.8		50-140	%	30-NOV-17	
L2024278-43 BH119(2-4)						
Sampled By: SDB on 16-NOV-17 @ 14:15						
Matrix: SOIL						#1
Physical Tests						
% Moisture	17.0		0.10	%	23-NOV-17	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	23-NOV-17	7.5
Arsenic (As)	8.5		1.0	ug/g	23-NOV-17	18
Barium (Ba)	156		1.0	ug/g	23-NOV-17	390
Beryllium (Be)	0.91		0.50	ug/g	23-NOV-17	5
Boron (B)	8.6		5.0	ug/g	23-NOV-17	120
Boron (B), Hot Water Ext.	<0.10		0.10	ug/g	24-NOV-17	1.5
Cadmium (Cd)	<0.50		0.50	ug/g	23-NOV-17	1.2
Chromium (Cr)	26.2		1.0	ug/g	23-NOV-17	160
Cobalt (Co)	12.1		1.0	ug/g	23-NOV-17	22
Copper (Cu)	49.2		1.0	ug/g	23-NOV-17	180
Lead (Pb)	12.0		1.0	ug/g	23-NOV-17	120
Mercury (Hg)	0.0354		0.0050	ug/g	23-NOV-17	1.8
Molybdenum (Mo)	<1.0		1.0	ug/g	23-NOV-17	6.9
Nickel (Ni)	26.9		1.0	ug/g	23-NOV-17	130
Selenium (Se)	<1.0		1.0	ug/g	23-NOV-17	2.4
Silver (Ag)	<0.20		0.20	ug/g	23-NOV-17	25
Thallium (Tl)	<0.50		0.50	ug/g	23-NOV-17	1
Uranium (U)	<1.0		1.0	ug/g	23-NOV-17	23
Vanadium (V)	39.7		1.0	ug/g	23-NOV-17	86
Zinc (Zn)	64.8		5.0	ug/g	23-NOV-17	340
Speciated Metals						
Chromium, Hexavalent	0.81		0.20	ug/g	23-NOV-17	10
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	24-NOV-17	29
Acenaphthylene	<0.050		0.050	ug/g	24-NOV-17	0.17

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-43 BH119(2-4)						
Sampled By: SDB on 16-NOV-17 @ 14:15						
Matrix: SOIL						#1
Polycyclic Aromatic Hydrocarbons						
Anthracene	<0.050		0.050	ug/g	24-NOV-17	0.74
Benzo(a)anthracene	<0.050		0.050	ug/g	24-NOV-17	0.63
Benzo(a)pyrene	<0.050		0.050	ug/g	24-NOV-17	0.3
Benzo(b)fluoranthene	<0.050		0.050	ug/g	24-NOV-17	0.78
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	24-NOV-17	7.8
Benzo(k)fluoranthene	<0.050		0.050	ug/g	24-NOV-17	0.78
Chrysene	<0.050		0.050	ug/g	24-NOV-17	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	24-NOV-17	0.1
Fluoranthene	<0.050		0.050	ug/g	24-NOV-17	0.69
Fluorene	<0.050		0.050	ug/g	24-NOV-17	69
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	24-NOV-17	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	24-NOV-17	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	24-NOV-17	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	24-NOV-17	3.4
Naphthalene	<0.050		0.050	ug/g	24-NOV-17	0.75
Phenanthrene	<0.050		0.050	ug/g	24-NOV-17	7.8
Pyrene	<0.050		0.050	ug/g	24-NOV-17	78
Surrogate: 2-Fluorobiphenyl	90.5		50-140	%	24-NOV-17	
Surrogate: p-Terphenyl d14	86.7		50-140	%	24-NOV-17	
L2024278-44 BH119(6-8)						
Sampled By: SDB on 16-NOV-17 @ 14:20						
Matrix: SOIL						#1
Physical Tests						
% Moisture	9.45		0.10	%	29-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	30-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	30-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	30-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	30-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	30-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	30-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	30-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	30-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	30-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.75

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-44 BH119(6-8)						
Sampled By: SDB on 16-NOV-17 @ 14:20						
Matrix: SOIL						#1
Volatile Organic Compounds						
Methylene Chloride	<0.050		0.050	ug/g	30-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	30-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	30-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	30-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	30-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	30-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	30-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	30-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	30-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	30-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Trichloroethylene	<0.010		0.010	ug/g	30-NOV-17	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	30-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	30-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	30-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	30-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	30-NOV-17	25
Surrogate: 4-Bromofluorobenzene	91.1		50-140	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	95.6		50-140	%	30-NOV-17	
L2024278-45 BH119(15-17.5)						
Sampled By: SDB on 16-NOV-17 @ 14:25						
Matrix: SOIL						#1
Physical Tests						
% Moisture	7.31		0.10	%	23-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-45 BH119(15-17.5)						
Sampled By: SDB on 16-NOV-17 @ 14:25						
Matrix: SOIL						#1
Volatile Organic Compounds						
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	23-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Trichloroethylene	0.994		0.010	ug/g	23-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	23-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	23-NOV-17	25
Surrogate: 4-Bromofluorobenzene	94.5		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	102.0		50-140	%	23-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	23-NOV-17	65
F1-BTEX	<5.0		5.0	ug/g	24-NOV-17	65
F2 (C10-C16)	<10		10	ug/g	23-NOV-17	150
F3 (C16-C34)	<50		50	ug/g	23-NOV-17	1300
F4 (C34-C50)	<50		50	ug/g	23-NOV-17	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	24-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	23-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	87.7		60-140	%	23-NOV-17	
Surrogate: 3,4-Dichlorotoluene	77.0		60-140	%	23-NOV-17	
L2024278-46 BH119(17.5-19.5)						
Sampled By: SDB on 16-NOV-17 @ 14:30						
Matrix: SOIL						#1
Physical Tests						
% Moisture	12.4		0.10	%	29-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-46 BH119(17.5-19.5)						
Sampled By: SDB on 16-NOV-17 @ 14:30						
Matrix: SOIL						
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	30-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	30-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	30-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	30-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	30-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	30-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	30-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	30-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	30-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	30-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	30-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	30-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	30-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	30-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	30-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	30-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	30-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	30-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	30-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Trichloroethylene	0.876		0.010	ug/g	30-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	30-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	30-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	30-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	30-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	30-NOV-17	25
Surrogate: 4-Bromofluorobenzene	93.6		50-140	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	100.1		50-140	%	30-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-48 BH121(10-11)						
Sampled By: SDB on 16-NOV-17 @ 14:45						
Matrix: SOIL						
Physical Tests						
% Moisture	12.6		0.10	%	29-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	30-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	30-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	30-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	30-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	30-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	30-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	30-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	30-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	30-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	30-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	30-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	30-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	30-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	30-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	30-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	30-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	30-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	30-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	30-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Trichloroethylene	<0.010		0.010	ug/g	30-NOV-17	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	30-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	30-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	30-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	30-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	30-NOV-17	25
Surrogate: 4-Bromofluorobenzene	93.1		50-140	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	99.3		50-140	%	30-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-50 BH121(17-18)						
Sampled By: SDB on 16-NOV-17 @ 14:55						
Matrix: SOIL						
Physical Tests						
% Moisture	18.5		0.10	%	23-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05
cis-1,2-Dichloroethylene	0.064		0.050	ug/g	23-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	23-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Trichloroethylene	2.67		0.010	ug/g	23-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	23-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	23-NOV-17	25
Surrogate: 4-Bromofluorobenzene	88.2		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	94.3		50-140	%	23-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2024278-50 BH121(17-18)						
Sampled By: SDB on 16-NOV-17 @ 14:55						
Matrix: SOIL						#1
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	23-NOV-17	65
F1-BTEX	<5.0		5.0	ug/g	24-NOV-17	65
F2 (C10-C16)	<10		10	ug/g	24-NOV-17	150
F3 (C16-C34)	<50		50	ug/g	24-NOV-17	1300
F4 (C34-C50)	<50		50	ug/g	24-NOV-17	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	24-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	24-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	81.2		60-140	%	24-NOV-17	
Surrogate: 3,4-Dichlorotoluene	76.3		60-140	%	23-NOV-17	
L2024278-52 BH121(19-19.5)						
Sampled By: SDB on 16-NOV-17 @ 15:05						
Matrix: SOIL						#1
Physical Tests						
% Moisture	17.3		0.10	%	29-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	30-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	30-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	30-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	30-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	30-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	30-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	30-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	30-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	30-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	30-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	30-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	30-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	30-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	30-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	30-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	30-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	30-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	30-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	30-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	30-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	30-NOV-17	2.2

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2024278-52 BH121(19-19.5)						
Sampled By: SDB on 16-NOV-17 @ 15:05						
Matrix: SOIL						
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	30-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	30-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	30-NOV-17	0.05
Trichloroethylene	0.843		0.010	ug/g	30-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	30-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	30-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	30-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	30-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	30-NOV-17	25
Surrogate: 4-Bromofluorobenzene	95.1		50-140	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	103.2		50-140	%	30-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
DLQ	Detection Limit raised due to co-eluting interference. GCMS qualifier ion ratio did not meet acceptance criteria.
DLVH	Detection Limit raised due to interference from Volatile Hydrocarbons on VOC method. Chromatographic elution of interfering peaks in the same region as test analytes prevents a determination of whether VOC analyte is present or absent (above/below regular detection limits).
PEHT	Parameter Exceeded Recommended Holding Time Prior to Analysis
SDO:RNA	Surrogate diluted out:% recovery not available
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
625-511-WT	Soil	ABN-O.Reg 153/04 (July 2011)	SW846 8270 (511)

Soil and sediment samples are dried by mixing with a desiccant prior to extraction. The extracts are dried, concentrated and exchanged into a solvent and analyzed by GC/MS. Depending on the analytical GC/MS column used benzo(j)fluoranthene may chromatographically co-elute with benzo(b)fluoranthene or benzo(k)fluoranthene.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

B-HWS-R511-WT	Soil	Boron-HWE-O.Reg 153/04 (July 2011)	HW EXTR, EPA 6010B

A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-WT	Soil	Hexavalent Chromium in Soil	SW846 3060A/7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

F1-F4-511-CALC-WT	Soil	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-S

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

Reference Information

F1-HS-511-WT Soil F1-O.Reg 153/04 (July 2011) E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT Soil F2-F4-O.Reg 153/04 (July 2011) CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:
1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
4. F4G: Gravimetric Heavy Hydrocarbons
5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
8. This method is validated for use.
9. Data from analysis of validation and quality control samples is available upon request.
10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F4G-ADD-511-WT Soil F4G SG-O.Reg 153/04 (July 2011) MOE DECPH-E3398/CCME TIER 1

F4G, gravimetric analysis, is determined if the chromatogram does not return to baseline at or before C50. A soil sample is extracted with a solvent mix, the solvent is evaporated and the weight of the residue is determined.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-200.2-CVAA-WT Soil Mercury in Soil by CVAAS EPA 200.2/1631E (mod)

Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-200.2-CCMS-WT Soil Metals in Soil by CRC ICPMS EPA 200.2/6020A (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT Soil ABN-Calculated Parameters SW846 8270

MOISTURE-WT Soil % Moisture CCME PHC in Soil - Tier 1 (mod)

PAH-511-WT Soil PAH-O.Reg 153/04 (July 2011) SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking techniqueis used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PCB-511-WT Soil PCB-O.Reg 153/04 (July 2011) SW846 3510/8082

An aliquot of a solid sample is extracted with a solvent, extract is cleaned up and analyzed on the GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

Reference Information

VOC-1,3-DCP-CALC-WT	Soil	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Soil	VOC-O.Reg 153/04 (July 2011)	SW846 8260 (511)

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

17-617285 17-617286 17-617287 17-617288 17-617289

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Soil**							
Batch R3915641								
WG2684990-4 DUP		**WG2684990-3**						
1,2,4-Trichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-DEC-17
2,4-Dimethylphenol		<0.10	<0.10	RPD-NA	ug/g	N/A	40	19-DEC-17
2,4-Dinitrophenol		<1.0	<1.0	RPD-NA	ug/g	N/A	40	19-DEC-17
2,4-Dinitrotoluene		<0.10	<0.10	RPD-NA	ug/g	N/A	40	19-DEC-17
2,6-Dinitrotoluene		<0.10	<0.10	RPD-NA	ug/g	N/A	40	19-DEC-17
3,3'-Dichlorobenzidine		<0.10	<0.10	RPD-NA	ug/g	N/A	40	19-DEC-17
4-Chloroaniline		<0.10	<0.10	RPD-NA	ug/g	N/A	40	19-DEC-17
Biphenyl		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-DEC-17
Bis(2-chloroethyl)ether		<0.10	<0.10	RPD-NA	ug/g	N/A	40	19-DEC-17
Bis(2-chloroisopropyl)ether		<0.10	<0.10	RPD-NA	ug/g	N/A	40	19-DEC-17
Bis(2-ethylhexyl)phthalate		<0.10	<0.10	RPD-NA	ug/g	N/A	40	19-DEC-17
Diethylphthalate		<0.10	<0.10	RPD-NA	ug/g	N/A	40	19-DEC-17
Dimethylphthalate		<0.10	<0.10	RPD-NA	ug/g	N/A	40	19-DEC-17
Phenol		<0.10	<0.10	RPD-NA	ug/g	N/A	40	19-DEC-17
WG2684990-2 LCS								
1,2,4-Trichlorobenzene			106.6		%		50-140	19-DEC-17
2,4-Dimethylphenol			114.6		%		30-130	19-DEC-17
2,4-Dinitrophenol			106.7		%		30-130	19-DEC-17
2,4-Dinitrotoluene			143.4	LCS-H	%		50-140	19-DEC-17
2,6-Dinitrotoluene			146.1	LCS-H	%		50-140	19-DEC-17
3,3'-Dichlorobenzidine			111.7		%		30-130	19-DEC-17
4-Chloroaniline			105.5		%		30-130	19-DEC-17
Biphenyl			114.0		%		50-140	19-DEC-17
Bis(2-chloroethyl)ether			106.3		%		50-140	19-DEC-17
Bis(2-chloroisopropyl)ether			104.1		%		50-140	19-DEC-17
Bis(2-ethylhexyl)phthalate			106.1		%		50-140	19-DEC-17
Diethylphthalate			98.8		%		50-140	19-DEC-17
Dimethylphthalate			101.3		%		50-140	19-DEC-17
Phenol			107.0		%		30-130	19-DEC-17
WG2684990-1 MB								
1,2,4-Trichlorobenzene			<0.050		ug/g		0.05	19-DEC-17
2,4-Dimethylphenol			<0.10		ug/g		0.1	19-DEC-17
2,4-Dinitrophenol			<1.0		ug/g		1	19-DEC-17
							0.1	

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Soil**							
Batch R3915641								
WG2684990-1 MB								
2,4-Dinitrotoluene			<0.10		ug/g		0.1	19-DEC-17
2,6-Dinitrotoluene			<0.10		ug/g		0.1	19-DEC-17
3,3'-Dichlorobenzidine			<0.10		ug/g		0.1	19-DEC-17
4-Chloroaniline			<0.10		ug/g		0.1	19-DEC-17
Biphenyl			<0.050		ug/g		0.05	19-DEC-17
Bis(2-chloroethyl)ether			<0.10		ug/g		0.1	19-DEC-17
Bis(2-chloroisopropyl)ether			<0.10		ug/g		0.1	19-DEC-17
Bis(2-ethylhexyl)phthalate			<0.10		ug/g		0.1	19-DEC-17
Diethylphthalate			<0.10		ug/g		0.1	19-DEC-17
Dimethylphthalate			<0.10		ug/g		0.1	19-DEC-17
Phenol			<0.10		ug/g		0.1	19-DEC-17
Surrogate: 2-Fluorobiphenyl			111.7		%		50-140	19-DEC-17
Surrogate: 2,4,6-Tribromophenol			64.0		%		50-140	19-DEC-17
Surrogate: Nitrobenzene d5			123.5		%		50-140	19-DEC-17
Surrogate: p-Terphenyl d14			123.3		%		50-140	19-DEC-17
Surrogate: Phenol d5			108.4		%		30-130	19-DEC-17
WG2684990-5 MS		**WG2684990-3**						
1,2,4-Trichlorobenzene			100.4		%		50-140	19-DEC-17
2,4-Dimethylphenol			107.4		%		30-150	19-DEC-17
2,4-Dinitrophenol			97.5		%		30-150	19-DEC-17
2,4-Dinitrotoluene			139.5		%		50-140	19-DEC-17
2,6-Dinitrotoluene			138.5		%		50-140	19-DEC-17
3,3'-Dichlorobenzidine			115.1		%		30-130	19-DEC-17
4-Chloroaniline			95.9		%		30-130	19-DEC-17
Biphenyl			107.8		%		50-140	19-DEC-17
Bis(2-chloroethyl)ether			104.9		%		50-140	19-DEC-17
Bis(2-chloroisopropyl)ether			105.8		%		50-140	19-DEC-17
Bis(2-ethylhexyl)phthalate			94.6		%		50-140	19-DEC-17
Diethylphthalate			94.5		%		50-140	19-DEC-17
Dimethylphthalate			94.9		%		50-140	19-DEC-17
Phenol			110.5		%		30-130	19-DEC-17

COMMENTS: Matrix Spike recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.

B-HWS-R511-WT **Soil**

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT	**Soil**							
Batch R3894088								
WG2670622-4 DUP		**L2024278-37**						
Boron (B), Hot Water Ext.		0.13	0.13		ug/g	3.1	30	24-NOV-17
WG2670622-2 IRM		**HOTB-SAL_SOIL5**						
Boron (B), Hot Water Ext.			103.5		%		70-130	24-NOV-17
WG2670622-3 LCS								
Boron (B), Hot Water Ext.			106.1		%		70-130	24-NOV-17
WG2670622-1 MB								
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	24-NOV-17
CR-CR6-IC-WT	**Soil**							
Batch R3894257								
WG2668916-3 CRM		**WT-SQC012**						
Chromium, Hexavalent			82.0		%		70-130	23-NOV-17
WG2668916-4 DUP		**L2023767-1**						
Chromium, Hexavalent		<0.20	<0.20	RPD-NA	ug/g	N/A	35	23-NOV-17
WG2668916-2 LCS								
Chromium, Hexavalent			89.0		%		80-120	23-NOV-17
WG2668916-1 MB								
Chromium, Hexavalent			<0.20		ug/g		0.2	23-NOV-17
F1-HS-511-WT	**Soil**							
Batch R3892418								
WG2667677-4 DUP		**WG2667677-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	22-NOV-17
WG2667677-2 LCS								
F1 (C6-C10)			103.8		%		80-120	22-NOV-17
WG2667677-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	22-NOV-17
Surrogate: 3,4-Dichlorotoluene			106.6		%		60-140	22-NOV-17
WG2667677-7 MS		**WG2667677-6**						
F1 (C6-C10)			94.6		%		60-140	22-NOV-17
Batch R3893157								
WG2668112-4 DUP		**WG2668112-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	23-NOV-17
WG2668112-2 LCS								
F1 (C6-C10)			105.6		%		80-120	23-NOV-17
WG2668112-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	23-NOV-17
Surrogate: 3,4-Dichlorotoluene			97.0		%		60-140	23-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Soil**							
Batch R3893157								
WG2668112-7 MS		**WG2668112-6**						
F1 (C6-C10)			91.4		%		60-140	22-NOV-17
Batch R3898976								
WG2672823-4 DUP		**WG2672823-3**						
F1 (C6-C10)		21.7	24.2		ug/g	11	30	30-NOV-17
WG2672823-2 LCS								
F1 (C6-C10)			99.8		%		80-120	30-NOV-17
WG2672823-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	30-NOV-17
Surrogate: 3,4-Dichlorotoluene			85.3		%		60-140	30-NOV-17
WG2672823-7 MS		**WG2672823-6**						
F1 (C6-C10)			103.6		%		60-140	30-NOV-17
F2-F4-511-WT	**Soil**							
Batch R3894015								
WG2668488-4 DUP		**WG2668488-3**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	23-NOV-17
F3 (C16-C34)		150	134		ug/g	11	30	23-NOV-17
F4 (C34-C50)		366	332		ug/g	9.7	30	23-NOV-17
WG2668488-2 LCS								
F2 (C10-C16)			98.1		%		80-120	23-NOV-17
F3 (C16-C34)			97.3		%		80-120	23-NOV-17
F4 (C34-C50)			101.2		%		80-120	23-NOV-17
WG2668488-1 MB								
F2 (C10-C16)			<10		ug/g		10	23-NOV-17
F3 (C16-C34)			<50		ug/g		50	23-NOV-17
F4 (C34-C50)			<50		ug/g		50	23-NOV-17
Surrogate: 2-Bromobenzotrifluoride			86.9		%		60-140	23-NOV-17
WG2668488-5 MS		**WG2668488-3**						
F2 (C10-C16)			93.2		%		60-140	23-NOV-17
F3 (C16-C34)			110.8		%		60-140	23-NOV-17
F4 (C34-C50)			N/A	MS-B	%		-	23-NOV-17
Batch R3894240								
WG2668470-4 DUP		**WG2668470-3**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	23-NOV-17
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	23-NOV-17

Quality Control Report

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520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	**Soil**							
Batch R3894240								
WG2668470-4 DUP		**WG2668470-3**						
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	23-NOV-17
WG2668470-2 LCS								
F2 (C10-C16)			99.7		%		80-120	23-NOV-17
F3 (C16-C34)			98.6		%		80-120	23-NOV-17
F4 (C34-C50)			102.5		%		80-120	23-NOV-17
WG2668470-1 MB								
F2 (C10-C16)			<10		ug/g		10	23-NOV-17
F3 (C16-C34)			<50		ug/g		50	23-NOV-17
F4 (C34-C50)			<50		ug/g		50	23-NOV-17
Surrogate: 2-Bromobenzotrifluoride			89.3		%		60-140	23-NOV-17
WG2668470-5 MS		**WG2668470-3**						
F2 (C10-C16)			98.7		%		60-140	23-NOV-17
F3 (C16-C34)			99.5		%		60-140	23-NOV-17
F4 (C34-C50)			103.6		%		60-140	23-NOV-17
Batch R3898712								
WG2673532-4 DUP		**WG2673532-3**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	30-NOV-17
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	30-NOV-17
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	30-NOV-17
WG2673532-2 LCS								
F2 (C10-C16)			103.1		%		80-120	30-NOV-17
F3 (C16-C34)			98.9		%		80-120	30-NOV-17
F4 (C34-C50)			99.0		%		80-120	30-NOV-17
WG2673532-1 MB								
F2 (C10-C16)			<10		ug/g		10	30-NOV-17
F3 (C16-C34)			<50		ug/g		50	30-NOV-17
F4 (C34-C50)			<50		ug/g		50	30-NOV-17
Surrogate: 2-Bromobenzotrifluoride			79.2		%		60-140	30-NOV-17
WG2673532-5 MS		**WG2673532-3**						
F2 (C10-C16)			99.1		%		60-140	30-NOV-17
F3 (C16-C34)			96.4		%		60-140	30-NOV-17
F4 (C34-C50)			97.1		%		60-140	30-NOV-17
F4G-ADD-511-WT	**Soil**							

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KITCHENER ON N2B 3X9
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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F4G-ADD-511-WT	**Soil**							
Batch R3894299								
WG2671130-2 LCS								
F4G-SG (GHH-Silica)			81.6		%		60-140	23-NOV-17
WG2671130-1 MB								
F4G-SG (GHH-Silica)			<250		ug/g		250	23-NOV-17
HG-200.2-CVAA-WT	**Soil**							
Batch R3893254								
WG2669692-2 CRM		**WT-CANMET-TILL1**						
Mercury (Hg)			103.5		%		70-130	23-NOV-17
WG2669692-6 DUP		**WG2669692-5**						
Mercury (Hg)		0.0145	0.0151		ug/g	4.4	40	23-NOV-17
WG2669692-3 LCS								
Mercury (Hg)			106.0		%		80-120	23-NOV-17
WG2669692-1 MB								
Mercury (Hg)			<0.0050		mg/kg		0.005	23-NOV-17
MET-200.2-CCMS-WT	**Soil**							
Batch R3893418								
WG2669692-2 CRM		**WT-CANMET-TILL1**						
Antimony (Sb)			96.6		%		70-130	23-NOV-17
Arsenic (As)			99.1		%		70-130	23-NOV-17
Barium (Ba)			95.2		%		70-130	23-NOV-17
Beryllium (Be)			97.2		%		70-130	23-NOV-17
Boron (B)			3.1		mg/kg		0-8.2	23-NOV-17
Cadmium (Cd)			97.7		%		70-130	23-NOV-17
Chromium (Cr)			97.9		%		70-130	23-NOV-17
Cobalt (Co)			99.0		%		70-130	23-NOV-17
Copper (Cu)			99.5		%		70-130	23-NOV-17
Lead (Pb)			96.8		%		70-130	23-NOV-17
Molybdenum (Mo)			98.0		%		70-130	23-NOV-17
Nickel (Ni)			97.7		%		70-130	23-NOV-17
Selenium (Se)			0.30		mg/kg		0.11-0.51	23-NOV-17
Silver (Ag)			0.22		mg/kg		0.13-0.33	23-NOV-17
Thallium (Tl)			0.114		mg/kg		0.077-0.18	23-NOV-17
Uranium (U)			95.9		%		70-130	23-NOV-17
Vanadium (V)			97.0		%		70-130	23-NOV-17
Zinc (Zn)			97.1		%		70-130	23-NOV-17
WG2669692-6 DUP		**WG2669692-5**						

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R3893418								
WG2669692-6 DUP		**WG2669692-5**						
Antimony (Sb)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	23-NOV-17
Arsenic (As)		2.36	2.38		ug/g	1.0	30	23-NOV-17
Barium (Ba)		26.2	27.8		ug/g	6.0	40	23-NOV-17
Beryllium (Be)		0.26	0.28		ug/g	7.6	30	23-NOV-17
Boron (B)		5.7	5.7		ug/g	0.8	30	23-NOV-17
Cadmium (Cd)		0.106	0.101		ug/g	4.1	30	23-NOV-17
Chromium (Cr)		10.1	10.7		ug/g	5.3	30	23-NOV-17
Cobalt (Co)		3.49	3.64		ug/g	4.2	30	23-NOV-17
Copper (Cu)		8.32	8.73		ug/g	4.8	30	23-NOV-17
Lead (Pb)		7.01	7.07		ug/g	0.8	40	23-NOV-17
Molybdenum (Mo)		<1.0	<1.0		ug/g	N/A	0.2	23-NOV-17
Nickel (Ni)		7.26	7.54		ug/g	3.8	30	23-NOV-17
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	23-NOV-17
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	23-NOV-17
Thallium (Tl)		0.051	0.050		ug/g	2.0	30	23-NOV-17
Uranium (U)		0.438	0.401		ug/g	8.9	30	23-NOV-17
Vanadium (V)		18.7	19.2		ug/g	2.7	30	23-NOV-17
Zinc (Zn)		36.2	36.9		ug/g	1.9	30	23-NOV-17
WG2669692-4 LCS								
Antimony (Sb)			99.3		%		80-120	23-NOV-17
Arsenic (As)			89.7		%		80-120	23-NOV-17
Barium (Ba)			81.4		%		80-120	23-NOV-17
Beryllium (Be)			89.2		%		80-120	23-NOV-17
Boron (B)			85.6		%		80-120	23-NOV-17
Cadmium (Cd)			87.4		%		80-120	23-NOV-17
Chromium (Cr)			90.4		%		80-120	23-NOV-17
Cobalt (Co)			89.0		%		80-120	23-NOV-17
Copper (Cu)			87.1		%		80-120	23-NOV-17
Lead (Pb)			98.1		%		80-120	23-NOV-17
Molybdenum (Mo)			93.4		%		80-120	23-NOV-17
Nickel (Ni)			88.8		%		80-120	23-NOV-17
Selenium (Se)			96.1		%		80-120	23-NOV-17
Silver (Ag)			93.3		%		80-120	23-NOV-17

Quality Control Report

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KITCHENER ON N2B 3X9
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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R3893418								
WG2669692-4 LCS								
Thallium (Tl)			97.8		%		80-120	23-NOV-17
Uranium (U)			88.5		%		80-120	23-NOV-17
Vanadium (V)			92.2		%		80-120	23-NOV-17
Zinc (Zn)			84.6		%		80-120	23-NOV-17
WG2669692-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	23-NOV-17
Arsenic (As)			<0.10		mg/kg		0.1	23-NOV-17
Barium (Ba)			<0.50		mg/kg		0.5	23-NOV-17
Beryllium (Be)			<0.10		mg/kg		0.1	23-NOV-17
Boron (B)			<5.0		mg/kg		5	23-NOV-17
Cadmium (Cd)			<0.020		mg/kg		0.02	23-NOV-17
Chromium (Cr)			<0.50		mg/kg		0.5	23-NOV-17
Cobalt (Co)			<0.10		mg/kg		0.1	23-NOV-17
Copper (Cu)			<0.50		mg/kg		0.5	23-NOV-17
Lead (Pb)			<0.50		mg/kg		0.5	23-NOV-17
Molybdenum (Mo)			<0.10		mg/kg		0.1	23-NOV-17
Nickel (Ni)			<0.50		mg/kg		0.5	23-NOV-17
Selenium (Se)			<0.20		mg/kg		0.2	23-NOV-17
Silver (Ag)			<0.10		mg/kg		0.1	23-NOV-17
Thallium (Tl)			<0.050		mg/kg		0.05	23-NOV-17
Uranium (U)			<0.050		mg/kg		0.05	23-NOV-17
Vanadium (V)			<0.20		mg/kg		0.2	23-NOV-17
Zinc (Zn)			<2.0		mg/kg		2	23-NOV-17
Batch R3899403								
WG2674557-2 CRM		**WT-CANMET-TILL1**						
Antimony (Sb)			99.5		%		70-130	30-NOV-17
Arsenic (As)			108.1		%		70-130	30-NOV-17
Selenium (Se)			0.30		mg/kg		0.11-0.51	30-NOV-17
WG2674557-6 DUP		**WG2674557-5**						
Antimony (Sb)		0.30	0.26		ug/g	11	30	30-NOV-17
Arsenic (As)		5.98	5.42		ug/g	9.9	30	30-NOV-17
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	30-NOV-17
WG2674557-4 LCS								
Antimony (Sb)			98.8		%		80-120	30-NOV-17

Quality Control Report

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R3899403								
WG2674557-4 LCS								
Arsenic (As)			100.1		%		80-120	30-NOV-17
Selenium (Se)			98.8		%		80-120	30-NOV-17
WG2674557-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	30-NOV-17
Arsenic (As)			<0.10		mg/kg		0.1	30-NOV-17
Selenium (Se)			<0.20		mg/kg		0.2	30-NOV-17
MOISTURE-WT	**Soil**							
Batch R3893060								
WG2668976-3 DUP		**L2024278-3**						
% Moisture		11.3	11.4		%	0.4	20	23-NOV-17
WG2668976-2 LCS								
% Moisture			100.7		%		90-110	23-NOV-17
WG2668976-1 MB								
% Moisture			<0.10		%		0.1	23-NOV-17
Batch R3893061								
WG2668940-3 DUP		**L2021497-8**						
% Moisture		16.6	16.8		%	1.2	20	23-NOV-17
WG2668940-2 LCS								
% Moisture			99.8		%		90-110	23-NOV-17
WG2668940-1 MB								
% Moisture			<0.10		%		0.1	23-NOV-17
Batch R3897627								
WG2673190-6 DUP		**L2026686-5**						
% Moisture		5.22	5.14		%	1.6	20	28-NOV-17
WG2673190-5 LCS								
% Moisture			100.2		%		90-110	28-NOV-17
WG2673190-4 MB								
% Moisture			<0.10		%		0.1	28-NOV-17
Batch R3897628								
WG2673114-3 DUP		**L2026684-6**						
% Moisture		4.88	4.93		%	1.1	20	28-NOV-17
WG2673114-2 LCS								
% Moisture			100.0		%		90-110	28-NOV-17
WG2673114-1 MB								
% Moisture			<0.10		%		0.1	28-NOV-17

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT	**Soil**							
Batch R3898430								
WG2674398-3 DUP		**L2027151-6**						
% Moisture		10.8	10.8		%	0.4	20	29-NOV-17
WG2674398-2 LCS								
% Moisture			98.9		%		90-110	29-NOV-17
WG2674398-1 MB								
% Moisture			<0.10		%		0.1	29-NOV-17
Batch R3906227								
WG2679051-3 DUP		**L2031784-5**						
% Moisture		9.70	9.69		%	0.0	20	06-DEC-17
WG2679051-2 LCS								
% Moisture			99.5		%		90-110	06-DEC-17
WG2679051-1 MB								
% Moisture			<0.10		%		0.1	06-DEC-17
PAH-511-WT	**Soil**							
Batch R3893942								
WG2667120-4 DUP		**WG2667120-3**						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	24-NOV-17
2-Methylnaphthalene		<0.030	0.034	RPD-NA	ug/g	N/A	40	24-NOV-17
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Anthracene		<0.050	0.058	RPD-NA	ug/g	N/A	40	24-NOV-17
Benzo(a)anthracene		0.120	0.158		ug/g	27	40	24-NOV-17
Benzo(a)pyrene		0.124	0.157		ug/g	23	40	24-NOV-17
Benzo(b)fluoranthene		0.142	0.169		ug/g	17	40	24-NOV-17
Benzo(g,h,i)perylene		0.081	0.097		ug/g	18	40	24-NOV-17
Benzo(k)fluoranthene		0.106	0.145		ug/g	31	40	24-NOV-17
Chrysene		0.152	0.192		ug/g	24	40	24-NOV-17
Dibenzo(ah)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Fluoranthene		0.297	0.410		ug/g	32	40	24-NOV-17
Fluorene		<0.050	0.056	RPD-NA	ug/g	N/A	40	24-NOV-17
Indeno(1,2,3-cd)pyrene		0.076	0.096		ug/g	23	40	24-NOV-17
Naphthalene		<0.050	0.063	RPD-NA	ug/g	N/A	40	24-NOV-17
Phenanthrene		0.225	0.357	DUP-H	ug/g	46	40	24-NOV-17
Pyrene		0.235	0.315		ug/g	29	40	24-NOV-17
WG2667120-2 LCS								

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R3893942								
WG2667120-2 LCS								
1-Methylnaphthalene			102.6		%		50-140	24-NOV-17
2-Methylnaphthalene			102.2		%		50-140	24-NOV-17
Acenaphthene			102.5		%		50-140	24-NOV-17
Acenaphthylene			100.6		%		50-140	24-NOV-17
Anthracene			104.1		%		50-140	24-NOV-17
Benzo(a)anthracene			102.6		%		50-140	24-NOV-17
Benzo(a)pyrene			101.8		%		50-140	24-NOV-17
Benzo(b)fluoranthene			96.4		%		50-140	24-NOV-17
Benzo(g,h,i)perylene			102.0		%		50-140	24-NOV-17
Benzo(k)fluoranthene			103.6		%		50-140	24-NOV-17
Chrysene			106.4		%		50-140	24-NOV-17
Dibenzo(ah)anthracene			103.3		%		50-140	24-NOV-17
Fluoranthene			102.0		%		50-140	24-NOV-17
Fluorene			98.7		%		50-140	24-NOV-17
Indeno(1,2,3-cd)pyrene			107.0		%		50-140	24-NOV-17
Naphthalene			100.9		%		50-140	24-NOV-17
Phenanthrene			99.3		%		50-140	24-NOV-17
Pyrene			103.3		%		50-140	24-NOV-17
WG2667120-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	24-NOV-17
2-Methylnaphthalene			<0.030		ug/g		0.03	24-NOV-17
Acenaphthene			<0.050		ug/g		0.05	24-NOV-17
Acenaphthylene			<0.050		ug/g		0.05	24-NOV-17
Anthracene			<0.050		ug/g		0.05	24-NOV-17
Benzo(a)anthracene			<0.050		ug/g		0.05	24-NOV-17
Benzo(a)pyrene			<0.050		ug/g		0.05	24-NOV-17
Benzo(b)fluoranthene			<0.050		ug/g		0.05	24-NOV-17
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	24-NOV-17
Benzo(k)fluoranthene			<0.050		ug/g		0.05	24-NOV-17
Chrysene			<0.050		ug/g		0.05	24-NOV-17
Dibenzo(ah)anthracene			<0.050		ug/g		0.05	24-NOV-17
Fluoranthene			<0.050		ug/g		0.05	24-NOV-17
Fluorene			<0.050		ug/g		0.05	24-NOV-17
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	24-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R3893942								
WG2667120-1 MB								
Naphthalene			<0.050		ug/g		0.05	24-NOV-17
Phenanthrene			<0.050		ug/g		0.05	24-NOV-17
Pyrene			<0.050		ug/g		0.05	24-NOV-17
Surrogate: 2-Fluorobiphenyl			91.1		%		50-140	24-NOV-17
Surrogate: p-Terphenyl d14			87.4		%		50-140	24-NOV-17
WG2667120-5 MS		**WG2667120-3**						
1-Methylnaphthalene			102.3		%		50-140	24-NOV-17
2-Methylnaphthalene			102.9		%		50-140	24-NOV-17
Acenaphthene			103.2		%		50-140	24-NOV-17
Acenaphthylene			101.7		%		50-140	24-NOV-17
Anthracene			104.1		%		50-140	24-NOV-17
Benzo(a)anthracene			108.5		%		50-140	24-NOV-17
Benzo(a)pyrene			108.1		%		50-140	24-NOV-17
Benzo(b)fluoranthene			109.0		%		50-140	24-NOV-17
Benzo(g,h,i)perylene			92.6		%		50-140	24-NOV-17
Benzo(k)fluoranthene			106.7		%		50-140	24-NOV-17
Chrysene			108.0		%		50-140	24-NOV-17
Dibenzo(ah)anthracene			94.3		%		50-140	24-NOV-17
Fluoranthene			98.9		%		50-140	24-NOV-17
Fluorene			101.5		%		50-140	24-NOV-17
Indeno(1,2,3-cd)pyrene			99.9		%		50-140	24-NOV-17
Naphthalene			100.4		%		50-140	24-NOV-17
Phenanthrene			89.8		%		50-140	24-NOV-17
Pyrene			103.8		%		50-140	24-NOV-17
PCB-511-WT	**Soil**							
Batch R3893440								
WG2667120-4 DUP		**WG2667120-3**						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	23-NOV-17
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	23-NOV-17
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	23-NOV-17
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	23-NOV-17
WG2667120-2 LCS								
Aroclor 1242			83.3		%		60-140	23-NOV-17
Aroclor 1248			79.8		%		60-140	23-NOV-17

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-511-WT	**Soil**							
Batch R3893440								
WG2667120-2 LCS								
Aroclor 1254			84.1		%		60-140	23-NOV-17
Aroclor 1260			102.4		%		60-140	23-NOV-17
WG2667120-1 MB								
Aroclor 1242			<0.010		ug/g		0.01	23-NOV-17
Aroclor 1248			<0.010		ug/g		0.01	23-NOV-17
Aroclor 1254			<0.010		ug/g		0.01	23-NOV-17
Aroclor 1260			<0.010		ug/g		0.01	23-NOV-17
Surrogate: d14-Terphenyl			87.9		%		60-140	23-NOV-17
WG2667120-5 MS		**WG2667120-3**						
Aroclor 1242			80.8		%		60-140	23-NOV-17
Aroclor 1254			88.6		%		60-140	23-NOV-17
Aroclor 1260			111.2		%		60-140	23-NOV-17
VOC-511-HS-WT	**Soil**							
Batch R3891805								
WG2667726-4 DUP		**WG2667726-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	21-NOV-17
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	21-NOV-17
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
Chlorobenzene		<0.050	<0.050					

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3891805								
WG2667726-4 DUP		**WG2667726-3**						
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	21-NOV-17
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	21-NOV-17
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	21-NOV-17
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	21-NOV-17
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	21-NOV-17
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	21-NOV-17
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	21-NOV-17
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	21-NOV-17
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	21-NOV-17
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-NOV-17
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	21-NOV-17
WG2667726-2 LCS								
1,1,1,2-Tetrachloroethane			97.3		%		60-130	21-NOV-17
1,1,2,2-Tetrachloroethane			91.0		%		60-130	21-NOV-17
1,1,1-Trichloroethane			98.2		%		60-130	21-NOV-17
1,1,2-Trichloroethane			98.3		%		60-130	21-NOV-17
1,1-Dichloroethane			99.1		%		60-130	21-NOV-17
1,1-Dichloroethylene			91.5		%		60-130	21-NOV-17
1,2-Dibromoethane			96.3		%		70-130	21-NOV-17
1,2-Dichlorobenzene			100.2		%		70-130	21-NOV-17
1,2-Dichloroethane			99.3		%		60-130	21-NOV-17
1,2-Dichloropropane			99.6		%		70-130	21-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3891805								
WG2667726-2 LCS								
1,3-Dichlorobenzene			100.1		%		70-130	21-NOV-17
1,4-Dichlorobenzene			103.8		%		70-130	21-NOV-17
Acetone			99.7		%		60-140	21-NOV-17
Benzene			100.4		%		70-130	21-NOV-17
Bromodichloromethane			94.1		%		50-140	21-NOV-17
Bromoform			91.5		%		70-130	21-NOV-17
Bromomethane			101.1		%		50-140	21-NOV-17
Carbon tetrachloride			97.9		%		70-130	21-NOV-17
Chlorobenzene			98.7		%		70-130	21-NOV-17
Chloroform			100.3		%		70-130	21-NOV-17
cis-1,2-Dichloroethylene			98.9		%		70-130	21-NOV-17
cis-1,3-Dichloropropene			99.4		%		70-130	21-NOV-17
Dibromochloromethane			98.6		%		60-130	21-NOV-17
Dichlorodifluoromethane			79.3		%		50-140	21-NOV-17
Ethylbenzene			93.0		%		70-130	21-NOV-17
n-Hexane			80.1		%		70-130	21-NOV-17
Methylene Chloride			103.1		%		70-130	21-NOV-17
MTBE			99.3		%		70-130	21-NOV-17
m+p-Xylenes			96.2		%		70-130	21-NOV-17
Methyl Ethyl Ketone			92.6		%		60-140	21-NOV-17
Methyl Isobutyl Ketone			93.5		%		60-140	21-NOV-17
o-Xylene			94.6		%		70-130	21-NOV-17
Styrene			90.2		%		70-130	21-NOV-17
Tetrachloroethylene			99.1		%		60-130	21-NOV-17
Toluene			95.9		%		70-130	21-NOV-17
trans-1,2-Dichloroethylene			102.1		%		60-130	21-NOV-17
trans-1,3-Dichloropropene			99.6		%		70-130	21-NOV-17
Trichloroethylene			100.2		%		60-130	21-NOV-17
Trichlorofluoromethane			101.7		%		50-140	21-NOV-17
Vinyl chloride			97.4		%		60-140	21-NOV-17
WG2667726-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	21-NOV-17
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	21-NOV-17
1,1,1-Trichloroethane			<0.050		ug/g		0.05	21-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3891805								
WG2667726-1 MB								
1,1,2-Trichloroethane			<0.050		ug/g		0.05	21-NOV-17
1,1-Dichloroethane			<0.050		ug/g		0.05	21-NOV-17
1,1-Dichloroethylene			<0.050		ug/g		0.05	21-NOV-17
1,2-Dibromoethane			<0.050		ug/g		0.05	21-NOV-17
1,2-Dichlorobenzene			<0.050		ug/g		0.05	21-NOV-17
1,2-Dichloroethane			<0.050		ug/g		0.05	21-NOV-17
1,2-Dichloropropane			<0.050		ug/g		0.05	21-NOV-17
1,3-Dichlorobenzene			<0.050		ug/g		0.05	21-NOV-17
1,4-Dichlorobenzene			<0.050		ug/g		0.05	21-NOV-17
Acetone			<0.50		ug/g		0.5	21-NOV-17
Benzene			<0.0068		ug/g		0.0068	21-NOV-17
Bromodichloromethane			<0.050		ug/g		0.05	21-NOV-17
Bromoform			<0.050		ug/g		0.05	21-NOV-17
Bromomethane			<0.050		ug/g		0.05	21-NOV-17
Carbon tetrachloride			<0.050		ug/g		0.05	21-NOV-17
Chlorobenzene			<0.050		ug/g		0.05	21-NOV-17
Chloroform			<0.050		ug/g		0.05	21-NOV-17
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	21-NOV-17
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	21-NOV-17
Dibromochloromethane			<0.050		ug/g		0.05	21-NOV-17
Dichlorodifluoromethane			<0.050		ug/g		0.05	21-NOV-17
Ethylbenzene			<0.018		ug/g		0.018	21-NOV-17
n-Hexane			<0.050		ug/g		0.05	21-NOV-17
Methylene Chloride			<0.050		ug/g		0.05	21-NOV-17
MTBE			<0.050		ug/g		0.05	21-NOV-17
m+p-Xylenes			<0.030		ug/g		0.03	21-NOV-17
Methyl Ethyl Ketone			<0.50		ug/g		0.5	21-NOV-17
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	21-NOV-17
o-Xylene			<0.020		ug/g		0.02	21-NOV-17
Styrene			<0.050		ug/g		0.05	21-NOV-17
Tetrachloroethylene			<0.050		ug/g		0.05	21-NOV-17
Toluene			<0.080		ug/g		0.08	21-NOV-17
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	21-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3891805								
WG2667726-1 MB								
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	21-NOV-17
Trichloroethylene			<0.010		ug/g		0.01	21-NOV-17
Trichlorofluoromethane			<0.050		ug/g		0.05	21-NOV-17
Vinyl chloride			<0.020		ug/g		0.02	21-NOV-17
Surrogate: 1,4-Difluorobenzene			96.9		%		50-140	21-NOV-17
Surrogate: 4-Bromofluorobenzene			96.2		%		50-140	21-NOV-17
WG2667726-5 MS		**WG2667726-3**						
1,1,1,2-Tetrachloroethane			104.9		%		50-140	21-NOV-17
1,1,2,2-Tetrachloroethane			97.0		%		50-140	21-NOV-17
1,1,1-Trichloroethane			105.0		%		50-140	21-NOV-17
1,1,2-Trichloroethane			106.1		%		50-140	21-NOV-17
1,1-Dichloroethane			106.2		%		50-140	21-NOV-17
1,1-Dichloroethylene			97.9		%		50-140	21-NOV-17
1,2-Dibromoethane			104.0		%		50-140	21-NOV-17
1,2-Dichlorobenzene			107.2		%		50-140	21-NOV-17
1,2-Dichloroethane			106.7		%		50-140	21-NOV-17
1,2-Dichloropropane			107.0		%		50-140	21-NOV-17
1,3-Dichlorobenzene			107.3		%		50-140	21-NOV-17
1,4-Dichlorobenzene			111.1		%		50-140	21-NOV-17
Acetone			107.5		%		50-140	21-NOV-17
Benzene			107.3		%		50-140	21-NOV-17
Bromodichloromethane			101.7		%		50-140	21-NOV-17
Bromoform			98.6		%		50-140	21-NOV-17
Bromomethane			105.6		%		50-140	21-NOV-17
Carbon tetrachloride			104.5		%		50-140	21-NOV-17
Chlorobenzene			106.7		%		50-140	21-NOV-17
Chloroform			107.7		%		50-140	21-NOV-17
cis-1,2-Dichloroethylene			105.9		%		50-140	21-NOV-17
cis-1,3-Dichloropropene			104.0		%		50-140	21-NOV-17
Dibromochloromethane			107.0		%		50-140	21-NOV-17
Dichlorodifluoromethane			77.5		%		50-140	21-NOV-17
Ethylbenzene			98.6		%		50-140	21-NOV-17
n-Hexane			84.2		%		50-140	21-NOV-17
Methylene Chloride			110.9		%		50-140	21-NOV-17

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3891805								
WG2667726-5 MS		**WG2667726-3**						
MTBE			108.1		%		50-140	21-NOV-17
m+p-Xylenes			102.2		%		50-140	21-NOV-17
Methyl Ethyl Ketone			100.9		%		50-140	21-NOV-17
Methyl Isobutyl Ketone			100.3		%		50-140	21-NOV-17
o-Xylene			100.5		%		50-140	21-NOV-17
Styrene			96.6		%		50-140	21-NOV-17
Tetrachloroethylene			105.7		%		50-140	21-NOV-17
Toluene			102.1		%		50-140	21-NOV-17
trans-1,2-Dichloroethylene			108.7		%		50-140	21-NOV-17
trans-1,3-Dichloropropene			103.7		%		50-140	21-NOV-17
Trichloroethylene			107.5		%		50-140	21-NOV-17
Trichlorofluoromethane			107.1		%		50-140	21-NOV-17
Vinyl chloride			101.9		%		50-140	21-NOV-17
Batch R3893157								
WG2668112-4 DUP		**WG2668112-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	23-NOV-17
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	23-NOV-17
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3893157								
WG2668112-4 DUP		**WG2668112-3**						
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	23-NOV-17
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	23-NOV-17
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	23-NOV-17
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	23-NOV-17
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	23-NOV-17
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	23-NOV-17
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	23-NOV-17
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	23-NOV-17
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	23-NOV-17
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	23-NOV-17
WG2668112-2 LCS								
1,1,1,2-Tetrachloroethane			101.6		%		60-130	23-NOV-17
1,1,2,2-Tetrachloroethane			106.2		%		60-130	23-NOV-17
1,1,1-Trichloroethane			100.5		%		60-130	23-NOV-17
1,1,2-Trichloroethane			109.3		%		60-130	23-NOV-17
1,1-Dichloroethane			102.1		%		60-130	23-NOV-17
1,1-Dichloroethylene			92.4		%		60-130	23-NOV-17
1,2-Dibromoethane			110.9		%		70-130	23-NOV-17
1,2-Dichlorobenzene			105.5		%		70-130	23-NOV-17
1,2-Dichloroethane			110.9		%		60-130	23-NOV-17
1,2-Dichloropropane			106.6		%		70-130	23-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3893157								
WG2668112-2 LCS								
1,3-Dichlorobenzene			102.3		%		70-130	23-NOV-17
1,4-Dichlorobenzene			104.4		%		70-130	23-NOV-17
Acetone			133.6		%		60-140	23-NOV-17
Benzene			104.0		%		70-130	23-NOV-17
Bromodichloromethane			103.3		%		50-140	23-NOV-17
Bromoform			104.4		%		70-130	23-NOV-17
Bromomethane			99.6		%		50-140	23-NOV-17
Carbon tetrachloride			97.8		%		70-130	23-NOV-17
Chlorobenzene			103.7		%		70-130	23-NOV-17
Chloroform			104.5		%		70-130	23-NOV-17
cis-1,2-Dichloroethylene			104.0		%		70-130	23-NOV-17
cis-1,3-Dichloropropene			104.0		%		70-130	23-NOV-17
Dibromochloromethane			109.4		%		60-130	23-NOV-17
Dichlorodifluoromethane			66.5		%		50-140	23-NOV-17
Ethylbenzene			95.9		%		70-130	23-NOV-17
n-Hexane			77.8		%		70-130	23-NOV-17
Methylene Chloride			107.2		%		70-130	23-NOV-17
MTBE			101.9		%		70-130	23-NOV-17
m+p-Xylenes			99.6		%		70-130	23-NOV-17
Methyl Ethyl Ketone			125.7		%		60-140	23-NOV-17
Methyl Isobutyl Ketone			125.2		%		60-140	23-NOV-17
o-Xylene			102.2		%		70-130	23-NOV-17
Styrene			102.0		%		70-130	23-NOV-17
Tetrachloroethylene			98.2		%		60-130	23-NOV-17
Toluene			99.96		%		70-130	23-NOV-17
trans-1,2-Dichloroethylene			101.3		%		60-130	23-NOV-17
trans-1,3-Dichloropropene			103.3		%		70-130	23-NOV-17
Trichloroethylene			101.7		%		60-130	23-NOV-17
Trichlorofluoromethane			99.7		%		50-140	23-NOV-17
Vinyl chloride			94.5		%		60-140	23-NOV-17
WG2668112-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	23-NOV-17
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	23-NOV-17
1,1,1-Trichloroethane			<0.050		ug/g		0.05	23-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3893157								
WG2668112-1 MB								
1,1,2-Trichloroethane			<0.050		ug/g		0.05	23-NOV-17
1,1-Dichloroethane			<0.050		ug/g		0.05	23-NOV-17
1,1-Dichloroethylene			<0.050		ug/g		0.05	23-NOV-17
1,2-Dibromoethane			<0.050		ug/g		0.05	23-NOV-17
1,2-Dichlorobenzene			<0.050		ug/g		0.05	23-NOV-17
1,2-Dichloroethane			<0.050		ug/g		0.05	23-NOV-17
1,2-Dichloropropane			<0.050		ug/g		0.05	23-NOV-17
1,3-Dichlorobenzene			<0.050		ug/g		0.05	23-NOV-17
1,4-Dichlorobenzene			<0.050		ug/g		0.05	23-NOV-17
Acetone			<0.50		ug/g		0.5	23-NOV-17
Benzene			<0.0068		ug/g		0.0068	23-NOV-17
Bromodichloromethane			<0.050		ug/g		0.05	23-NOV-17
Bromoform			<0.050		ug/g		0.05	23-NOV-17
Bromomethane			<0.050		ug/g		0.05	23-NOV-17
Carbon tetrachloride			<0.050		ug/g		0.05	23-NOV-17
Chlorobenzene			<0.050		ug/g		0.05	23-NOV-17
Chloroform			<0.050		ug/g		0.05	23-NOV-17
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	23-NOV-17
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	23-NOV-17
Dibromochloromethane			<0.050		ug/g		0.05	23-NOV-17
Dichlorodifluoromethane			<0.050		ug/g		0.05	23-NOV-17
Ethylbenzene			<0.018		ug/g		0.018	23-NOV-17
n-Hexane			<0.050		ug/g		0.05	23-NOV-17
Methylene Chloride			<0.050		ug/g		0.05	23-NOV-17
MTBE			<0.050		ug/g		0.05	23-NOV-17
m+p-Xylenes			<0.030		ug/g		0.03	23-NOV-17
Methyl Ethyl Ketone			<0.50		ug/g		0.5	23-NOV-17
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	23-NOV-17
o-Xylene			<0.020		ug/g		0.02	23-NOV-17
Styrene			<0.050		ug/g		0.05	23-NOV-17
Tetrachloroethylene			<0.050		ug/g		0.05	23-NOV-17
Toluene			<0.080		ug/g		0.08	23-NOV-17
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	23-NOV-17

Quality Control Report

Workorder: L2024278 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch	**R3893157**							
WG2668112-1	**MB**							
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	23-NOV-17
Trichloroethylene			<0.010		ug/g		0.01	23-NOV-17
Trichlorofluoromethane			<0.050		ug/g		0.05	23-NOV-17
Vinyl chloride			<0.020		ug/g		0.02	23-NOV-17
Surrogate: 1,4-Difluorobenzene			105.8		%		50-140	23-NOV-17
Surrogate: 4-Bromofluorobenzene			101.2		%		50-140	23-NOV-17
WG2668112-5	**MS**	**WG2668112-3**						
1,1,1,2-Tetrachloroethane			98.9		%		50-140	22-NOV-17
1,1,2,2-Tetrachloroethane			105.0		%		50-140	22-NOV-17
1,1,1-Trichloroethane			98.9		%		50-140	22-NOV-17
1,1,2-Trichloroethane			107.3		%		50-140	22-NOV-17
1,1-Dichloroethane			101.2		%		50-140	22-NOV-17
1,1-Dichloroethylene			91.5		%		50-140	22-NOV-17
1,2-Dibromoethane			109.3		%		50-140	22-NOV-17
1,2-Dichlorobenzene			102.7		%		50-140	22-NOV-17
1,2-Dichloroethane			110.3		%		50-140	22-NOV-17
1,2-Dichloropropane			104.5		%		50-140	22-NOV-17
1,3-Dichlorobenzene			98.8		%		50-140	22-NOV-17
1,4-Dichlorobenzene			101.2		%		50-140	22-NOV-17
Acetone			131.3		%		50-140	22-NOV-17
Benzene			102.4		%		50-140	22-NOV-17
Bromodichloromethane			101.9		%		50-140	22-NOV-17
Bromoform			102.9		%		50-140	22-NOV-17
Bromomethane			100.3		%		50-140	22-NOV-17
Carbon tetrachloride			96.3		%		50-140	22-NOV-17
Chlorobenzene			100.8		%		50-140	22-NOV-17
Chloroform			103.3		%		50-140	22-NOV-17
cis-1,2-Dichloroethylene			102.5		%		50-140	22-NOV-17
cis-1,3-Dichloropropene			99.7		%		50-140	22-NOV-17
Dibromochloromethane			107.6		%		50-140	22-NOV-17
Dichlorodifluoromethane			72.4		%		50-140	22-NOV-17
Ethylbenzene			91.6		%		50-140	22-NOV-17
n-Hexane			77.9		%		50-140	22-NOV-17
Methylene Chloride			107.1		%		50-140	22-NOV-17

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3893157								
WG2668112-5 MS		**WG2668112-3**						
MTBE			99.2		%		50-140	22-NOV-17
m+p-Xylenes			95.6		%		50-140	22-NOV-17
Methyl Ethyl Ketone			122.2		%		50-140	22-NOV-17
Methyl Isobutyl Ketone			118.5		%		50-140	22-NOV-17
o-Xylene			97.6		%		50-140	22-NOV-17
Styrene			97.0		%		50-140	22-NOV-17
Tetrachloroethylene			94.3		%		50-140	22-NOV-17
Toluene			96.5		%		50-140	22-NOV-17
trans-1,2-Dichloroethylene			98.8		%		50-140	22-NOV-17
trans-1,3-Dichloropropene			98.6		%		50-140	22-NOV-17
Trichloroethylene			98.7		%		50-140	22-NOV-17
Trichlorofluoromethane			100.2		%		50-140	22-NOV-17
Vinyl chloride			95.0		%		50-140	22-NOV-17
Batch R3898976								
WG2672823-4 DUP		**WG2672823-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
1,1,2,2-Tetrachloroethane		<0.25	<0.30	RPD-NA	ug/g	N/A	40	30-NOV-17
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	30-NOV-17
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	30-NOV-17
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3898976								
WG2672823-4 DUP		**WG2672823-3**						
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
cis-1,2-Dichloroethylene		0.183	0.185		ug/g	1.2	40	30-NOV-17
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	30-NOV-17
Dibromochloromethane		<0.050	<0.060	RPD-NA	ug/g	N/A	40	30-NOV-17
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	30-NOV-17
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	30-NOV-17
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	30-NOV-17
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	30-NOV-17
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	30-NOV-17
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	30-NOV-17
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	30-NOV-17
Trichloroethylene		0.211	0.213		ug/g	0.7	40	30-NOV-17
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	30-NOV-17
WG2672823-2 LCS								
1,1,1,2-Tetrachloroethane			95.0		%		60-130	30-NOV-17
1,1,2,2-Tetrachloroethane			87.4		%		60-130	30-NOV-17
1,1,1-Trichloroethane			100.1		%		60-130	30-NOV-17
1,1,2-Trichloroethane			95.5		%		60-130	30-NOV-17
1,1-Dichloroethane			97.6		%		60-130	30-NOV-17
1,1-Dichloroethylene			90.8		%		60-130	30-NOV-17
1,2-Dibromoethane			95.9		%		70-130	30-NOV-17
1,2-Dichlorobenzene			100.1		%		70-130	30-NOV-17
1,2-Dichloroethane			97.1		%		60-130	30-NOV-17
1,2-Dichloropropane			97.9		%		70-130	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3898976								
WG2672823-2 LCS								
1,3-Dichlorobenzene			101.3		%		70-130	30-NOV-17
1,4-Dichlorobenzene			103.4		%		70-130	30-NOV-17
Acetone			106.0		%		60-140	30-NOV-17
Benzene			100.6		%		70-130	30-NOV-17
Bromodichloromethane			95.5		%		50-140	30-NOV-17
Bromoform			89.7		%		70-130	30-NOV-17
Bromomethane			97.0		%		50-140	30-NOV-17
Carbon tetrachloride			99.1		%		70-130	30-NOV-17
Chlorobenzene			98.8		%		70-130	30-NOV-17
Chloroform			100.1		%		70-130	30-NOV-17
cis-1,2-Dichloroethylene			100.2		%		70-130	30-NOV-17
cis-1,3-Dichloropropene			93.4		%		70-130	30-NOV-17
Dibromochloromethane			97.6		%		60-130	30-NOV-17
Dichlorodifluoromethane			64.7		%		50-140	30-NOV-17
Ethylbenzene			90.2		%		70-130	30-NOV-17
n-Hexane			76.9		%		70-130	30-NOV-17
Methylene Chloride			101.9		%		70-130	30-NOV-17
MTBE			98.9		%		70-130	30-NOV-17
m+p-Xylenes			96.3		%		70-130	30-NOV-17
Methyl Ethyl Ketone			100.3		%		60-140	30-NOV-17
Methyl Isobutyl Ketone			92.6		%		60-140	30-NOV-17
o-Xylene			94.9		%		70-130	30-NOV-17
Styrene			92.6		%		70-130	30-NOV-17
Tetrachloroethylene			100.1		%		60-130	30-NOV-17
Toluene			94.5		%		70-130	30-NOV-17
trans-1,2-Dichloroethylene			99.5		%		60-130	30-NOV-17
trans-1,3-Dichloropropene			87.0		%		70-130	30-NOV-17
Trichloroethylene			102.0		%		60-130	30-NOV-17
Trichlorofluoromethane			100.5		%		50-140	30-NOV-17
Vinyl chloride			92.9		%		60-140	30-NOV-17
WG2672823-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	30-NOV-17
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	30-NOV-17
1,1,1-Trichloroethane			<0.050		ug/g		0.05	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3898976								
WG2672823-1 MB								
1,1,2-Trichloroethane			<0.050		ug/g		0.05	30-NOV-17
1,1-Dichloroethane			<0.050		ug/g		0.05	30-NOV-17
1,1-Dichloroethylene			<0.050		ug/g		0.05	30-NOV-17
1,2-Dibromoethane			<0.050		ug/g		0.05	30-NOV-17
1,2-Dichlorobenzene			<0.050		ug/g		0.05	30-NOV-17
1,2-Dichloroethane			<0.050		ug/g		0.05	30-NOV-17
1,2-Dichloropropane			<0.050		ug/g		0.05	30-NOV-17
1,3-Dichlorobenzene			<0.050		ug/g		0.05	30-NOV-17
1,4-Dichlorobenzene			<0.050		ug/g		0.05	30-NOV-17
Acetone			<0.50		ug/g		0.5	30-NOV-17
Benzene			<0.0068		ug/g		0.0068	30-NOV-17
Bromodichloromethane			<0.050		ug/g		0.05	30-NOV-17
Bromoform			<0.050		ug/g		0.05	30-NOV-17
Bromomethane			<0.050		ug/g		0.05	30-NOV-17
Carbon tetrachloride			<0.050		ug/g		0.05	30-NOV-17
Chlorobenzene			<0.050		ug/g		0.05	30-NOV-17
Chloroform			<0.050		ug/g		0.05	30-NOV-17
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	30-NOV-17
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	30-NOV-17
Dibromochloromethane			<0.050		ug/g		0.05	30-NOV-17
Dichlorodifluoromethane			<0.050		ug/g		0.05	30-NOV-17
Ethylbenzene			<0.018		ug/g		0.018	30-NOV-17
n-Hexane			<0.050		ug/g		0.05	30-NOV-17
Methylene Chloride			<0.050		ug/g		0.05	30-NOV-17
MTBE			<0.050		ug/g		0.05	30-NOV-17
m+p-Xylenes			<0.030		ug/g		0.03	30-NOV-17
Methyl Ethyl Ketone			<0.50		ug/g		0.5	30-NOV-17
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	30-NOV-17
o-Xylene			<0.020		ug/g		0.02	30-NOV-17
Styrene			<0.050		ug/g		0.05	30-NOV-17
Tetrachloroethylene			<0.050		ug/g		0.05	30-NOV-17
Toluene			<0.080		ug/g		0.08	30-NOV-17
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3898976								
WG2672823-1 MB								
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	30-NOV-17
Trichloroethylene			<0.010		ug/g		0.01	30-NOV-17
Trichlorofluoromethane			<0.050		ug/g		0.05	30-NOV-17
Vinyl chloride			<0.020		ug/g		0.02	30-NOV-17
Surrogate: 1,4-Difluorobenzene			103.4		%		50-140	30-NOV-17
Surrogate: 4-Bromofluorobenzene			93.6		%		50-140	30-NOV-17
WG2672823-5 MS		**WG2672823-3**						
1,1,1,2-Tetrachloroethane			98.6		%		50-140	30-NOV-17
1,1,2,2-Tetrachloroethane			80.1		%		50-140	30-NOV-17
1,1,1-Trichloroethane			103.6		%		50-140	30-NOV-17
1,1,2-Trichloroethane			97.2		%		50-140	30-NOV-17
1,1-Dichloroethane			99.6		%		50-140	30-NOV-17
1,1-Dichloroethylene			94.4		%		50-140	30-NOV-17
1,2-Dibromoethane			97.6		%		50-140	30-NOV-17
1,2-Dichlorobenzene			103.1		%		50-140	30-NOV-17
1,2-Dichloroethane			96.8		%		50-140	30-NOV-17
1,2-Dichloropropane			99.1		%		50-140	30-NOV-17
1,3-Dichlorobenzene			105.3		%		50-140	30-NOV-17
1,4-Dichlorobenzene			105.6		%		50-140	30-NOV-17
Acetone			106.1		%		50-140	30-NOV-17
Benzene			102.9		%		50-140	30-NOV-17
Bromodichloromethane			96.3		%		50-140	30-NOV-17
Bromoform			90.4		%		50-140	30-NOV-17
Bromomethane			99.8		%		50-140	30-NOV-17
Carbon tetrachloride			102.4		%		50-140	30-NOV-17
Chlorobenzene			101.7		%		50-140	30-NOV-17
Chloroform			101.6		%		50-140	30-NOV-17
cis-1,2-Dichloroethylene			108.2		%		50-140	30-NOV-17
cis-1,3-Dichloropropene			92.2		%		50-140	30-NOV-17
Dibromochloromethane			98.0		%		50-140	30-NOV-17
Dichlorodifluoromethane			73.7		%		50-140	30-NOV-17
Ethylbenzene			97.8		%		50-140	30-NOV-17
n-Hexane			81.7		%		50-140	30-NOV-17
Methylene Chloride			103.0		%		50-140	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3898976								
WG2672823-5 MS		**WG2672823-3**						
MTBE			101.5		%		50-140	30-NOV-17
m+p-Xylenes			100.6		%		50-140	30-NOV-17
Methyl Ethyl Ketone			97.5		%		50-140	30-NOV-17
Methyl Isobutyl Ketone			89.9		%		50-140	30-NOV-17
o-Xylene			104.3		%		50-140	30-NOV-17
Styrene			101.9		%		50-140	30-NOV-17
Tetrachloroethylene			105.7		%		50-140	30-NOV-17
Toluene			98.9		%		50-140	30-NOV-17
trans-1,2-Dichloroethylene			101.3		%		50-140	30-NOV-17
trans-1,3-Dichloropropene			87.8		%		50-140	30-NOV-17
Trichloroethylene			105.0		%		50-140	30-NOV-17
Trichlorofluoromethane			106.0		%		50-140	30-NOV-17
Vinyl chloride			98.5		%		50-140	30-NOV-17
Batch R3907165								
WG2679293-4 DUP		**WG2679293-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	08-DEC-17
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	08-DEC-17
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3907165								
WG2679293-4 DUP		**WG2679293-3**						
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	08-DEC-17
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	08-DEC-17
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	08-DEC-17
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	08-DEC-17
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	08-DEC-17
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	08-DEC-17
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	08-DEC-17
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	08-DEC-17
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	08-DEC-17
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-DEC-17
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	08-DEC-17
WG2679293-2 LCS								
1,1,1,2-Tetrachloroethane			105.4		%		60-130	08-DEC-17
1,1,2,2-Tetrachloroethane			114.1		%		60-130	08-DEC-17
1,1,1-Trichloroethane			100.3		%		60-130	08-DEC-17
1,1,2-Trichloroethane			115.3		%		60-130	08-DEC-17
1,1-Dichloroethane			107.2		%		60-130	08-DEC-17
1,1-Dichloroethylene			90.2		%		60-130	08-DEC-17
1,2-Dibromoethane			113.9		%		70-130	08-DEC-17
1,2-Dichlorobenzene			106.8		%		70-130	08-DEC-17
1,2-Dichloroethane			115.2		%		60-130	08-DEC-17
1,2-Dichloropropane			114.0		%		70-130	08-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3907165								
WG2679293-2 LCS								
1,3-Dichlorobenzene			100.7		%		70-130	08-DEC-17
1,4-Dichlorobenzene			102.9		%		70-130	08-DEC-17
Acetone			124.9		%		60-140	08-DEC-17
Benzene			107.6		%		70-130	08-DEC-17
Bromodichloromethane			105.6		%		50-140	08-DEC-17
Bromoform			103.2		%		70-130	08-DEC-17
Bromomethane			87.9		%		50-140	08-DEC-17
Carbon tetrachloride			96.7		%		70-130	08-DEC-17
Chlorobenzene			106.7		%		70-130	08-DEC-17
Chloroform			107.3		%		70-130	08-DEC-17
cis-1,2-Dichloroethylene			103.0		%		70-130	08-DEC-17
cis-1,3-Dichloropropene			113.4		%		70-130	08-DEC-17
Dibromochloromethane			111.0		%		60-130	08-DEC-17
Dichlorodifluoromethane			44.4	MES	%		50-140	08-DEC-17
Ethylbenzene			101.4		%		70-130	08-DEC-17
n-Hexane			74.8		%		70-130	08-DEC-17
Methylene Chloride			108.4		%		70-130	08-DEC-17
MTBE			103.8		%		70-130	08-DEC-17
m+p-Xylenes			102.5		%		70-130	08-DEC-17
Methyl Ethyl Ketone			116.3		%		60-140	08-DEC-17
Methyl Isobutyl Ketone			119.3		%		60-140	08-DEC-17
o-Xylene			102.5		%		70-130	08-DEC-17
Styrene			101.8		%		70-130	08-DEC-17
Tetrachloroethylene			95.1		%		60-130	08-DEC-17
Toluene			103.6		%		70-130	08-DEC-17
trans-1,2-Dichloroethylene			102.6		%		60-130	08-DEC-17
trans-1,3-Dichloropropene			113.2		%		70-130	08-DEC-17
Trichloroethylene			102.3		%		60-130	08-DEC-17
Trichlorofluoromethane			89.3		%		50-140	08-DEC-17
Vinyl chloride			80.8		%		60-140	08-DEC-17
WG2679293-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	08-DEC-17
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	08-DEC-17
1,1,1-Trichloroethane			<0.050		ug/g		0.05	08-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3907165								
WG2679293-1 MB								
1,1,2-Trichloroethane			<0.050		ug/g		0.05	08-DEC-17
1,1-Dichloroethane			<0.050		ug/g		0.05	08-DEC-17
1,1-Dichloroethylene			<0.050		ug/g		0.05	08-DEC-17
1,2-Dibromoethane			<0.050		ug/g		0.05	08-DEC-17
1,2-Dichlorobenzene			<0.050		ug/g		0.05	08-DEC-17
1,2-Dichloroethane			<0.050		ug/g		0.05	08-DEC-17
1,2-Dichloropropane			<0.050		ug/g		0.05	08-DEC-17
1,3-Dichlorobenzene			<0.050		ug/g		0.05	08-DEC-17
1,4-Dichlorobenzene			<0.050		ug/g		0.05	08-DEC-17
Acetone			<0.50		ug/g		0.5	08-DEC-17
Benzene			<0.0068		ug/g		0.0068	08-DEC-17
Bromodichloromethane			<0.050		ug/g		0.05	08-DEC-17
Bromoform			<0.050		ug/g		0.05	08-DEC-17
Bromomethane			<0.050		ug/g		0.05	08-DEC-17
Carbon tetrachloride			<0.050		ug/g		0.05	08-DEC-17
Chlorobenzene			<0.050		ug/g		0.05	08-DEC-17
Chloroform			<0.050		ug/g		0.05	08-DEC-17
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	08-DEC-17
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	08-DEC-17
Dibromochloromethane			<0.050		ug/g		0.05	08-DEC-17
Dichlorodifluoromethane			<0.050		ug/g		0.05	08-DEC-17
Ethylbenzene			<0.018		ug/g		0.018	08-DEC-17
n-Hexane			<0.050		ug/g		0.05	08-DEC-17
Methylene Chloride			<0.050		ug/g		0.05	08-DEC-17
MTBE			<0.050		ug/g		0.05	08-DEC-17
m+p-Xylenes			<0.030		ug/g		0.03	08-DEC-17
Methyl Ethyl Ketone			<0.50		ug/g		0.5	08-DEC-17
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	08-DEC-17
o-Xylene			<0.020		ug/g		0.02	08-DEC-17
Styrene			<0.050		ug/g		0.05	08-DEC-17
Tetrachloroethylene			<0.050		ug/g		0.05	08-DEC-17
Toluene			<0.080		ug/g		0.08	08-DEC-17
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	08-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3907165								
WG2679293-1 MB								
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	08-DEC-17
Trichloroethylene			<0.010		ug/g		0.01	08-DEC-17
Trichlorofluoromethane			<0.050		ug/g		0.05	08-DEC-17
Vinyl chloride			<0.020		ug/g		0.02	08-DEC-17
Surrogate: 1,4-Difluorobenzene			107.1		%		50-140	08-DEC-17
Surrogate: 4-Bromofluorobenzene			103.2		%		50-140	08-DEC-17
WG2679293-5 MS		**WG2679293-3**						
1,1,1,2-Tetrachloroethane			105.2		%		50-140	08-DEC-17
1,1,2,2-Tetrachloroethane			104.4		%		50-140	08-DEC-17
1,1,1-Trichloroethane			103.8		%		50-140	08-DEC-17
1,1,2-Trichloroethane			112.5		%		50-140	08-DEC-17
1,1-Dichloroethane			105.1		%		50-140	08-DEC-17
1,1-Dichloroethylene			94.0		%		50-140	08-DEC-17
1,2-Dibromoethane			110.1		%		50-140	08-DEC-17
1,2-Dichlorobenzene			107.9		%		50-140	08-DEC-17
1,2-Dichloroethane			112.1		%		50-140	08-DEC-17
1,2-Dichloropropane			113.4		%		50-140	08-DEC-17
1,3-Dichlorobenzene			104.8		%		50-140	08-DEC-17
1,4-Dichlorobenzene			106.5		%		50-140	08-DEC-17
Acetone			119.2		%		50-140	08-DEC-17
Benzene			109.0		%		50-140	08-DEC-17
Bromodichloromethane			104.1		%		50-140	08-DEC-17
Bromoform			97.1		%		50-140	08-DEC-17
Bromomethane			89.2		%		50-140	08-DEC-17
Carbon tetrachloride			100.3		%		50-140	08-DEC-17
Chlorobenzene			108.3		%		50-140	08-DEC-17
Chloroform			108.4		%		50-140	08-DEC-17
cis-1,2-Dichloroethylene			106.1		%		50-140	08-DEC-17
cis-1,3-Dichloropropene			110.0		%		50-140	08-DEC-17
Dibromochloromethane			108.3		%		50-140	08-DEC-17
Dichlorodifluoromethane			48.7	MES	%		50-140	08-DEC-17
Ethylbenzene			105.2		%		50-140	08-DEC-17
n-Hexane			79.2		%		50-140	08-DEC-17
Methylene Chloride			108.2		%		50-140	08-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3907165								
WG2679293-5 MS		**WG2679293-3**						
MTBE			105.6		%		50-140	08-DEC-17
m+p-Xylenes			106.0		%		50-140	08-DEC-17
Methyl Ethyl Ketone			101.5		%		50-140	08-DEC-17
Methyl Isobutyl Ketone			107.0		%		50-140	08-DEC-17
o-Xylene			105.1		%		50-140	08-DEC-17
Styrene			102.0		%		50-140	08-DEC-17
Tetrachloroethylene			100.3		%		50-140	08-DEC-17
Toluene			107.7		%		50-140	08-DEC-17
trans-1,2-Dichloroethylene			105.4		%		50-140	08-DEC-17
trans-1,3-Dichloropropene			110.8		%		50-140	08-DEC-17
Trichloroethylene			104.5		%		50-140	08-DEC-17
Trichlorofluoromethane			94.0		%		50-140	08-DEC-17
Vinyl chloride			84.4		%		50-140	08-DEC-17

Quality Control Report

Workorder: L2024278 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2024278 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
% Moisture							
	21	15-NOV-17 15:30	06-DEC-17 17:51	14	21	days	EHT
	36	16-NOV-17 12:55	06-DEC-17 17:52	14	20	days	EHT
Volatile Organic Compounds							
VOC-O.Reg 153/04 (July 2011)							
	36	16-NOV-17 12:55	07-DEC-17 09:28	14	21	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2024278 were received on 17-NOV-17 10:52.

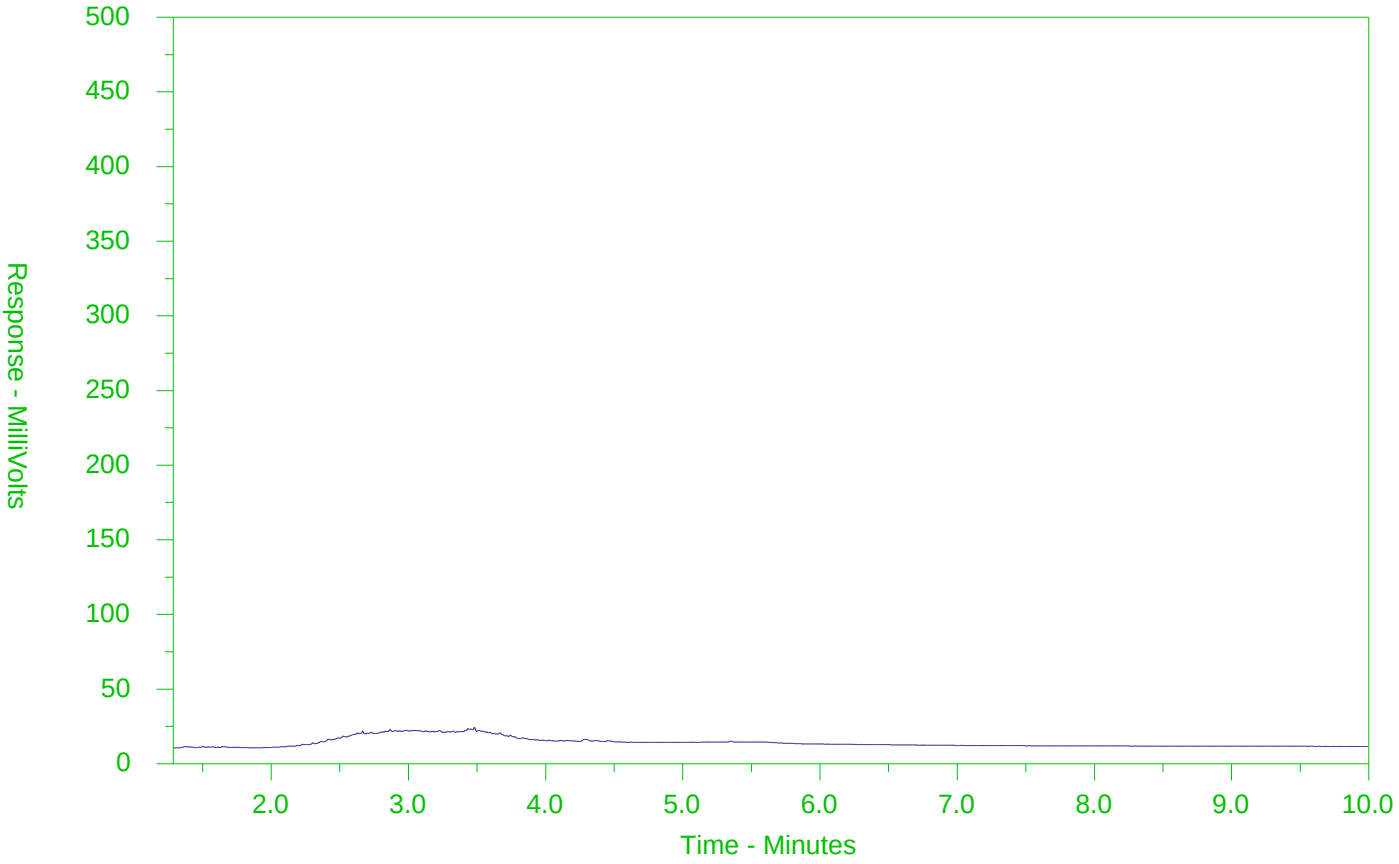
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-2
Client Sample ID: BH102(5-7)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

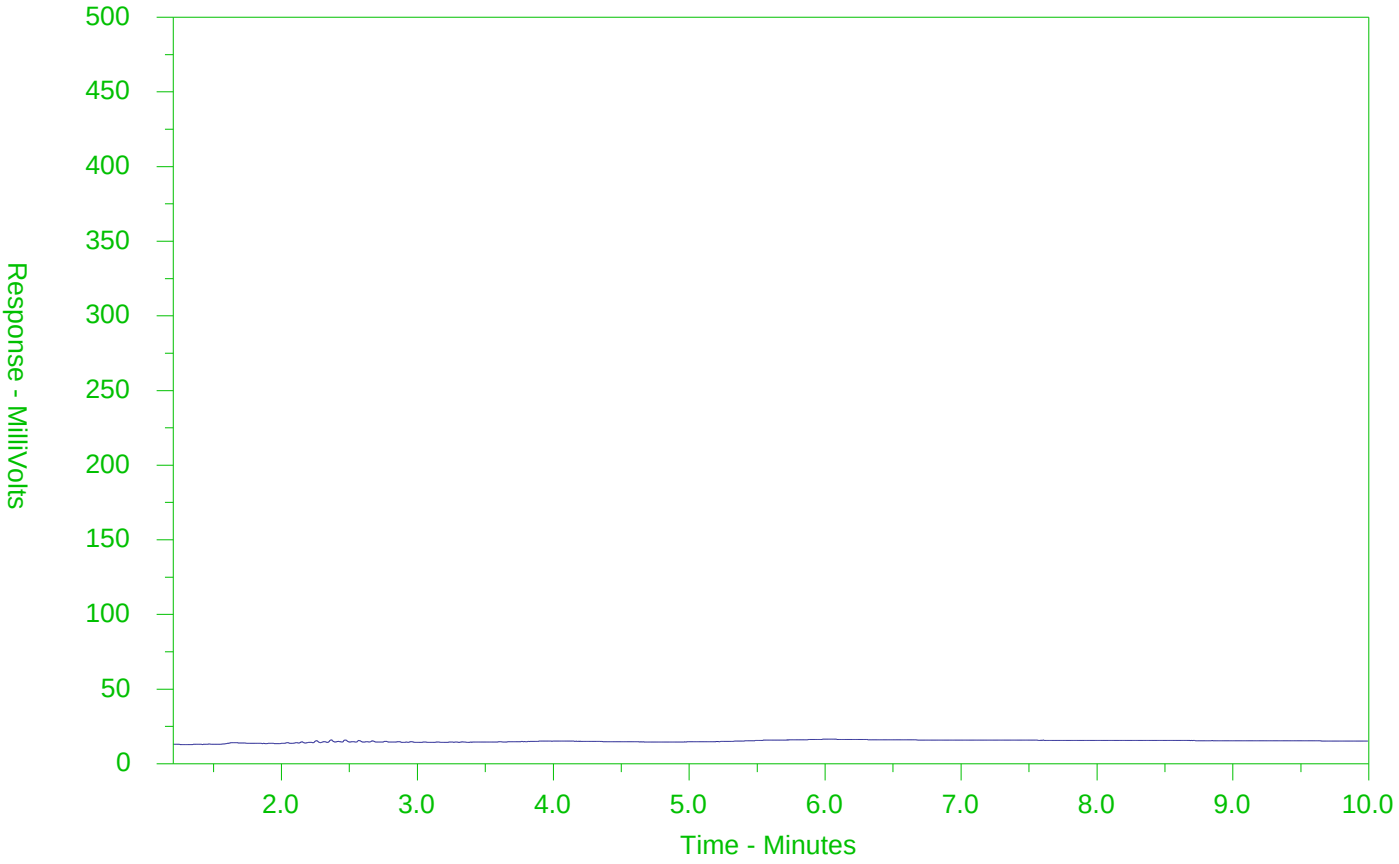
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-3
Client Sample ID: BH102(9-10)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

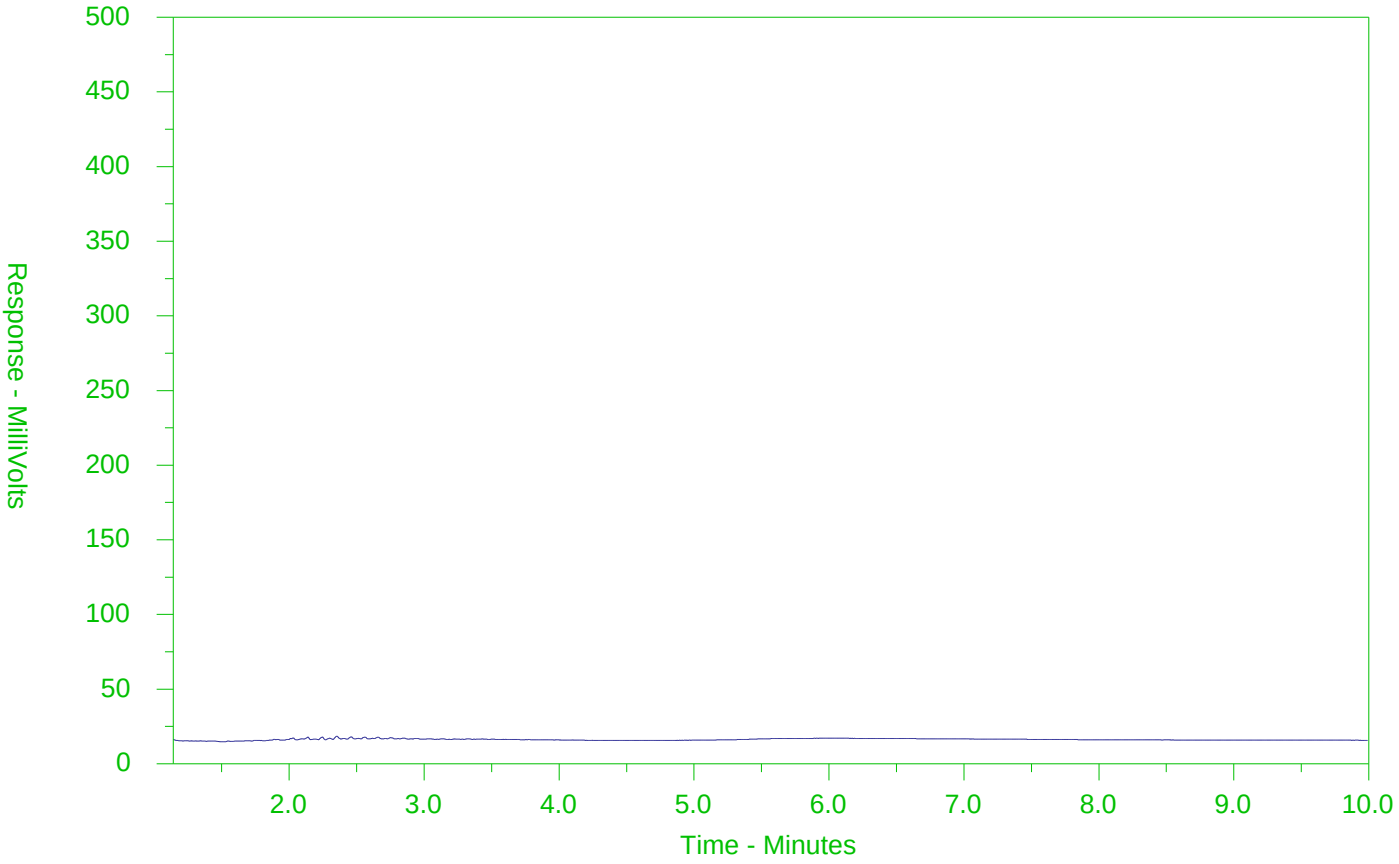
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-4
Client Sample ID: BH1020(9-10)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

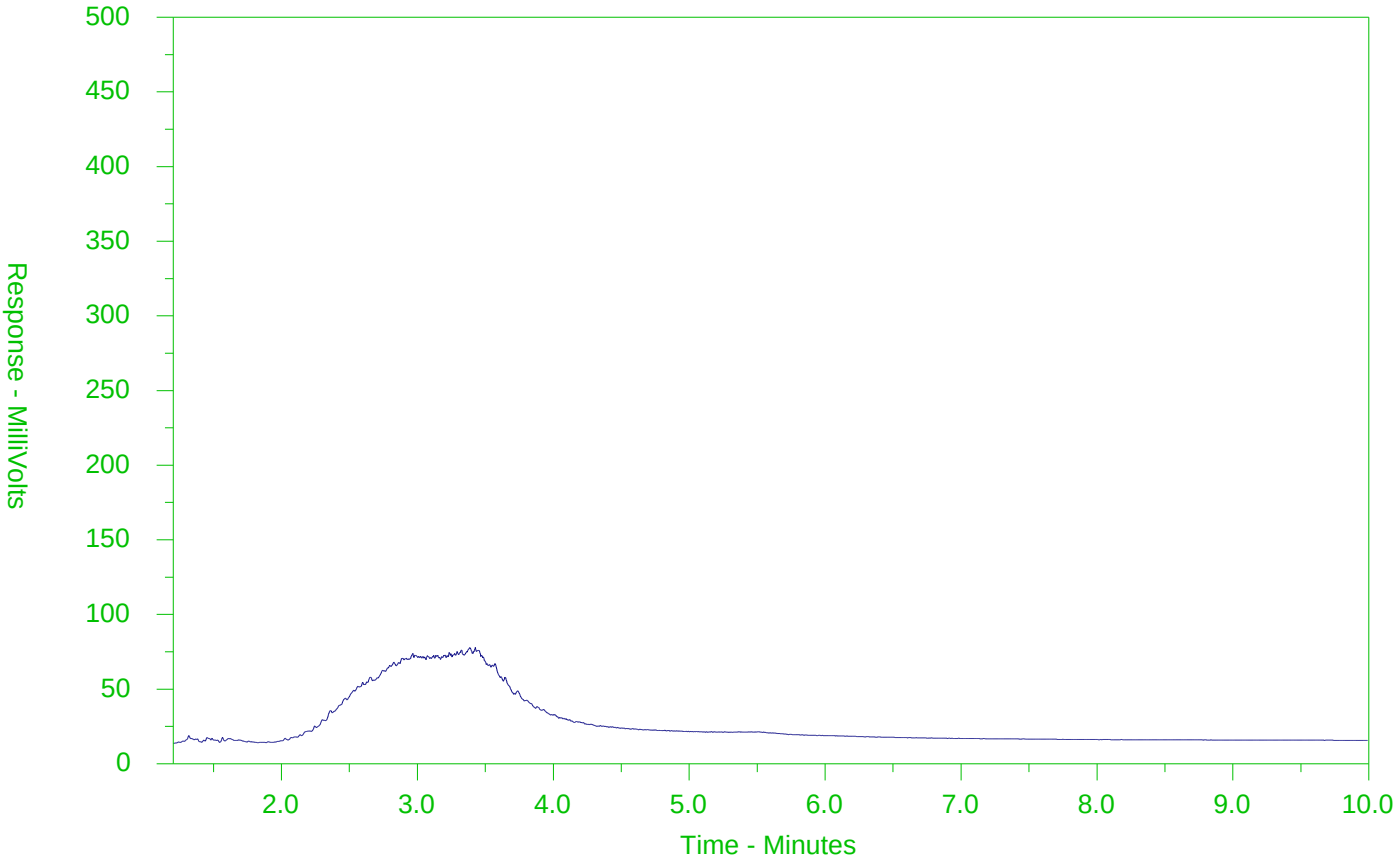
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-5
Client Sample ID: BH102(14-15)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

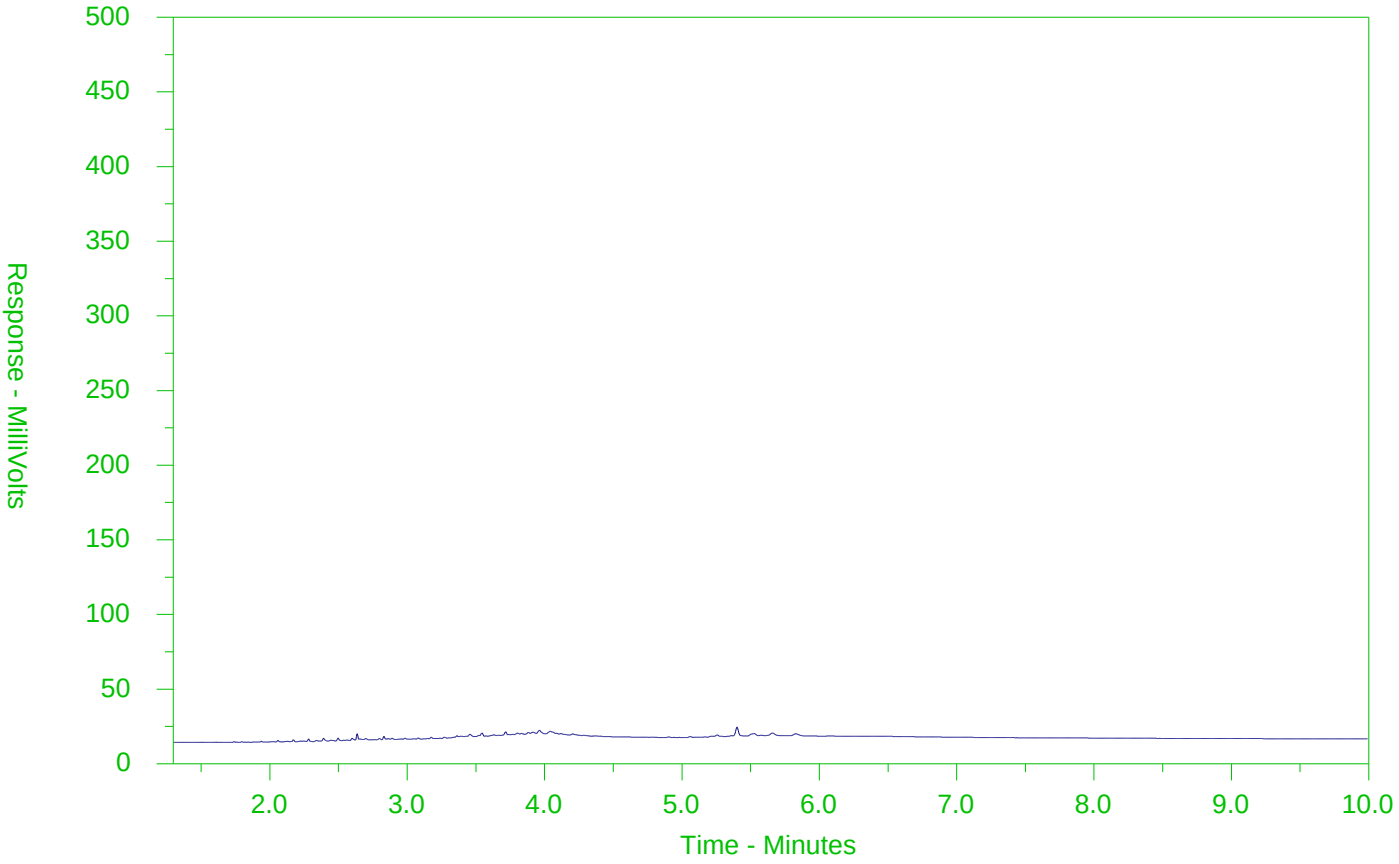
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-14
Client Sample ID: BH108(2-4)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

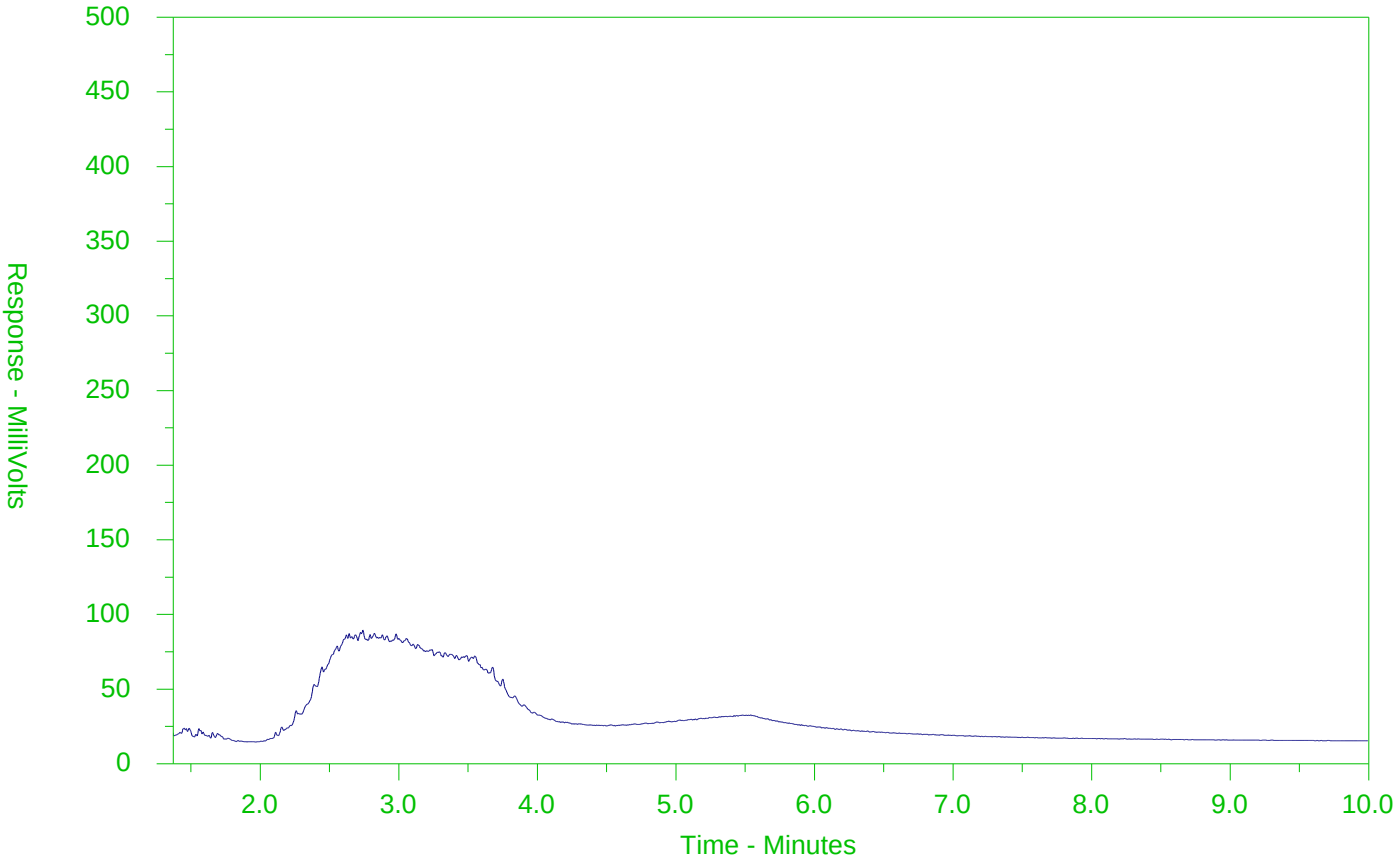
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-15
Client Sample ID: BH108(9-10)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

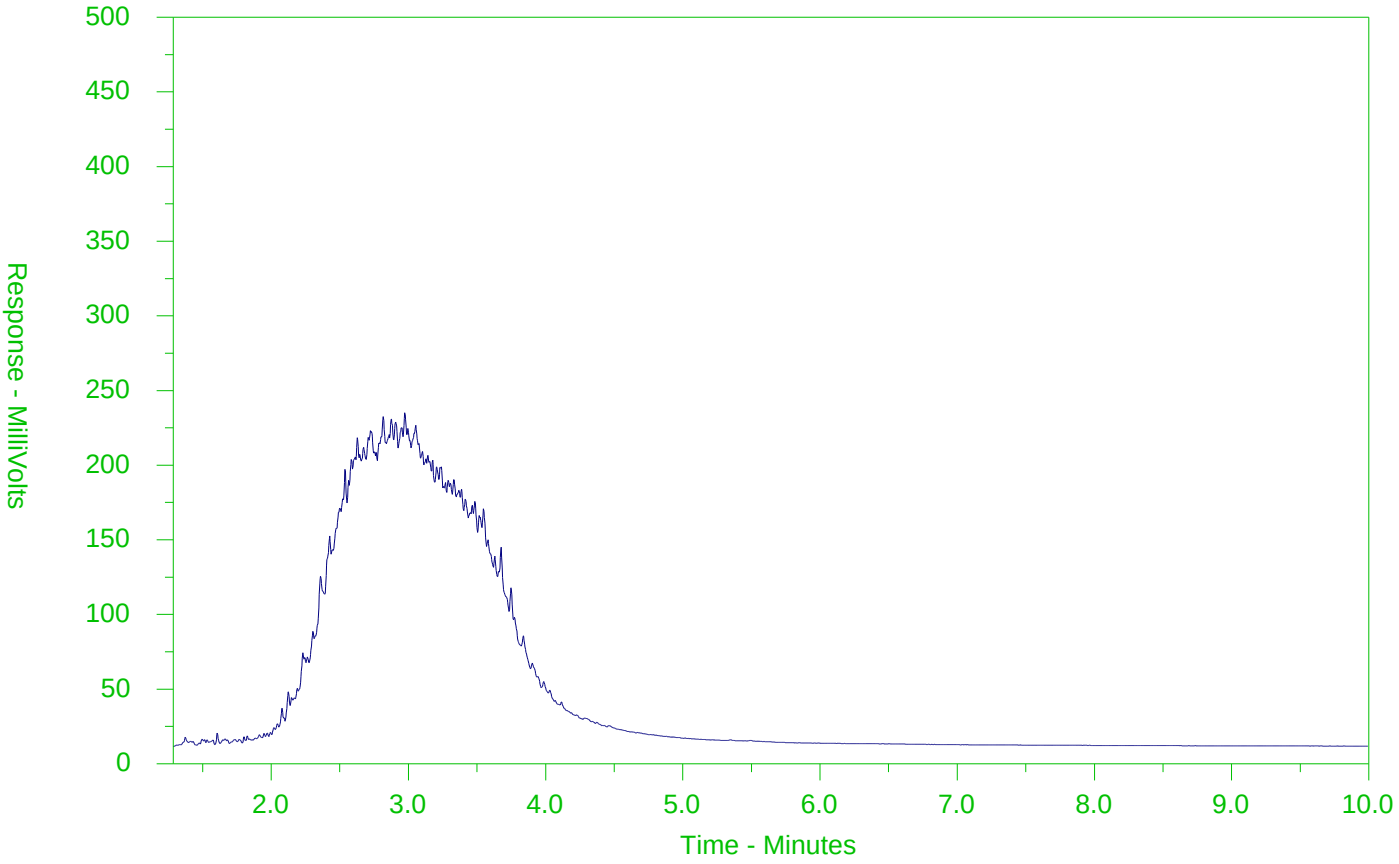
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-22
Client Sample ID: BH113(3-5)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

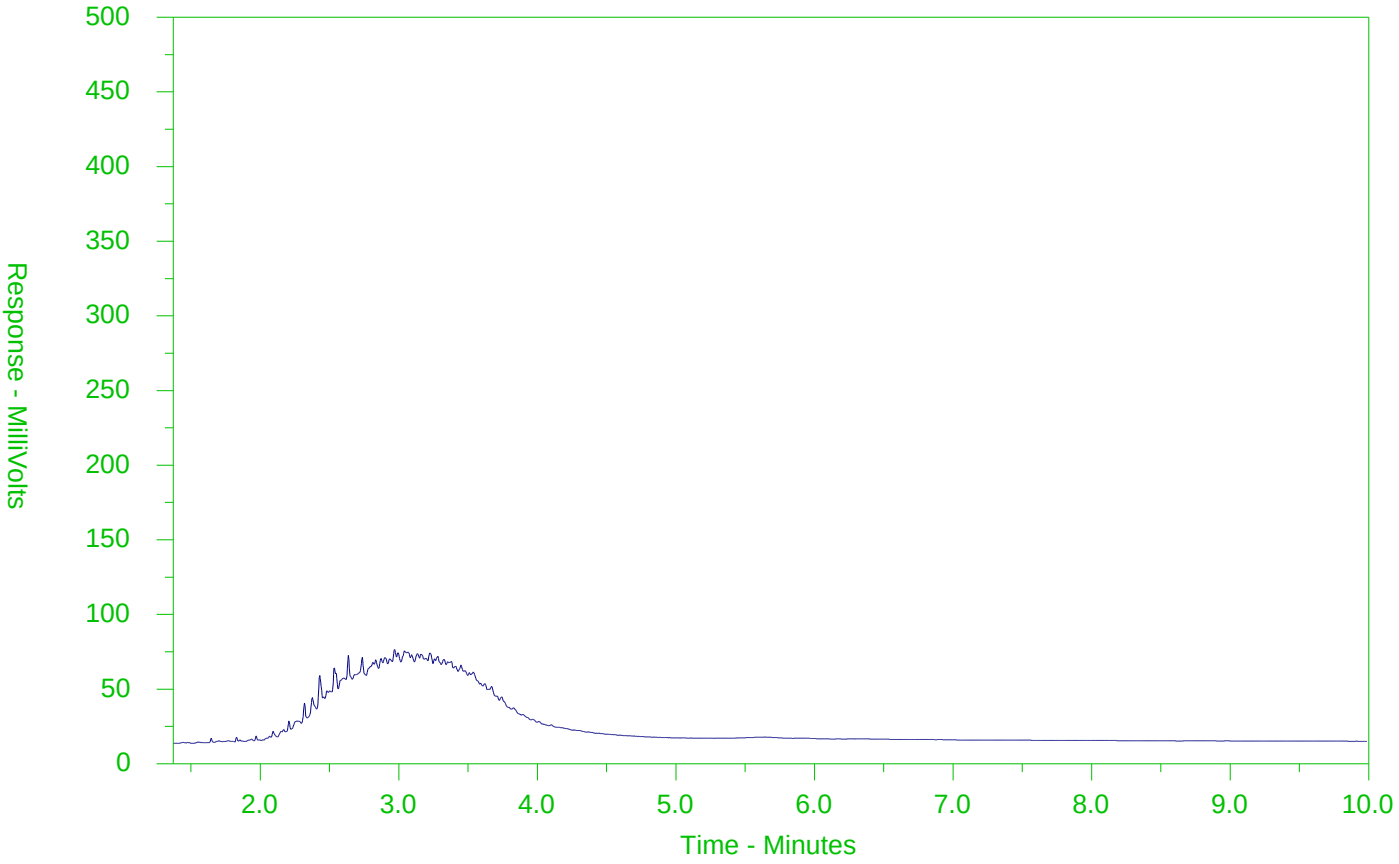
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-23
Client Sample ID: BH113(8-10)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

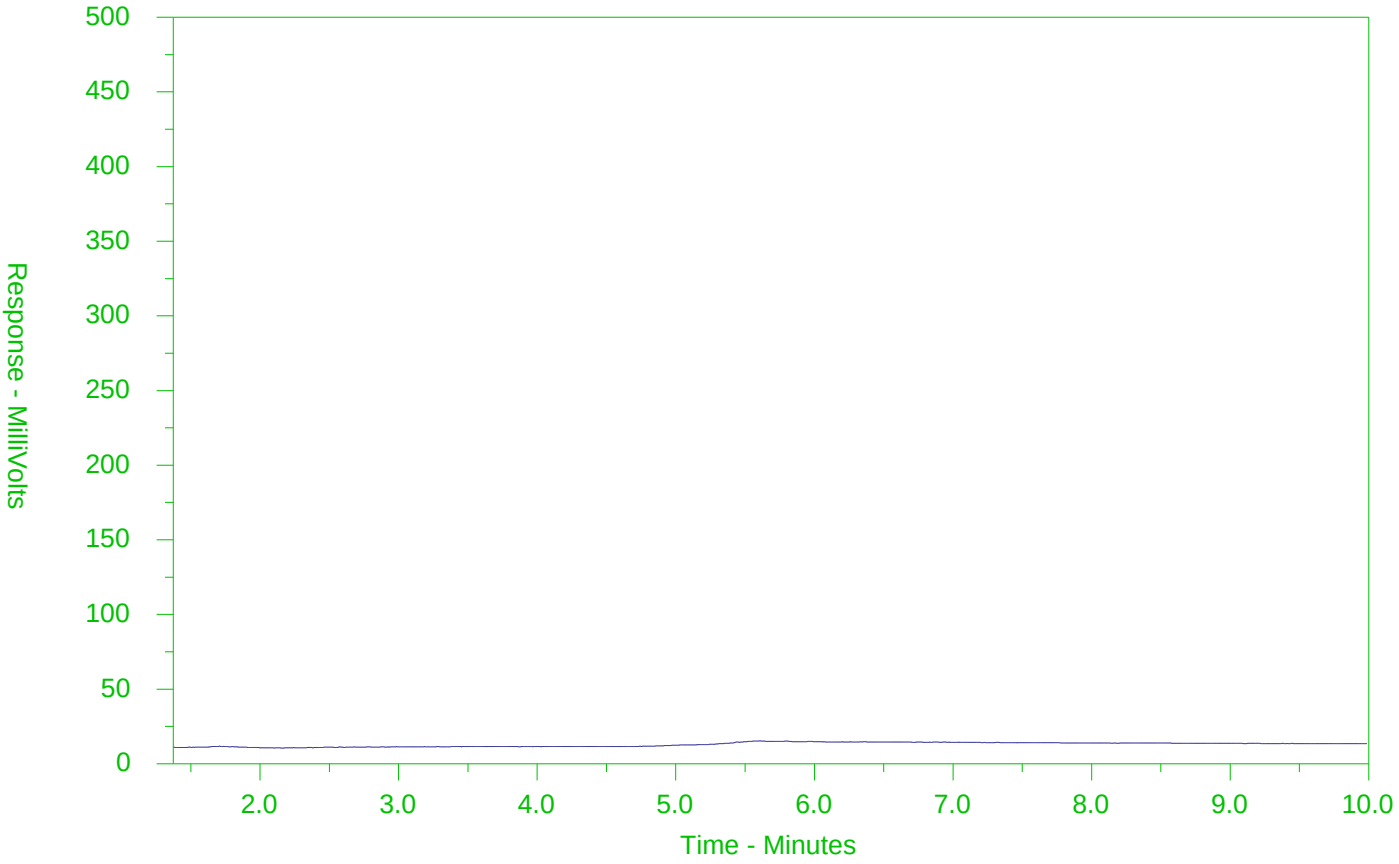
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-24
Client Sample ID: BH113(15-16)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

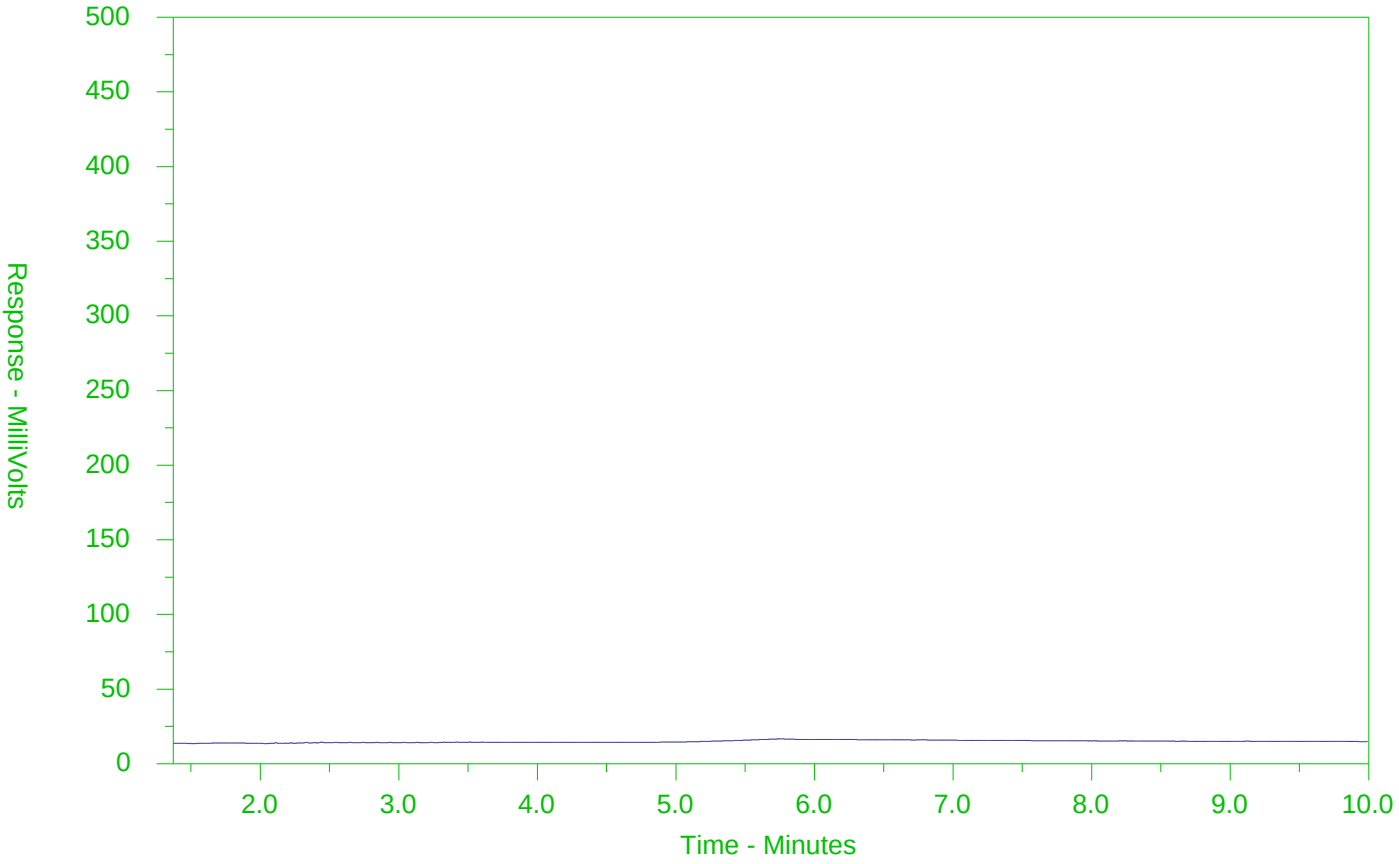
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-28
Client Sample ID: BH115(12.5-15)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

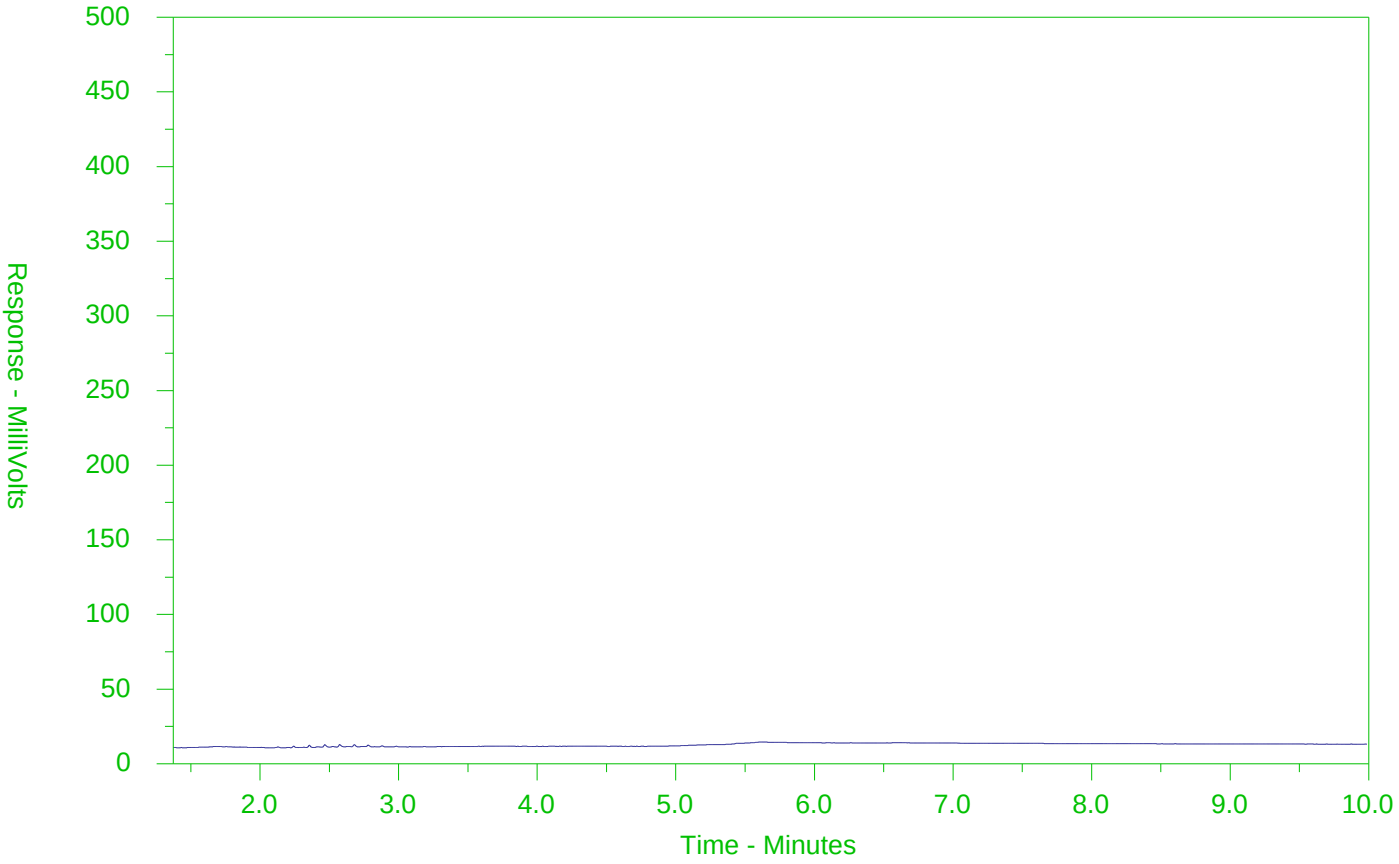
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-34
Client Sample ID: BH116(13-14)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

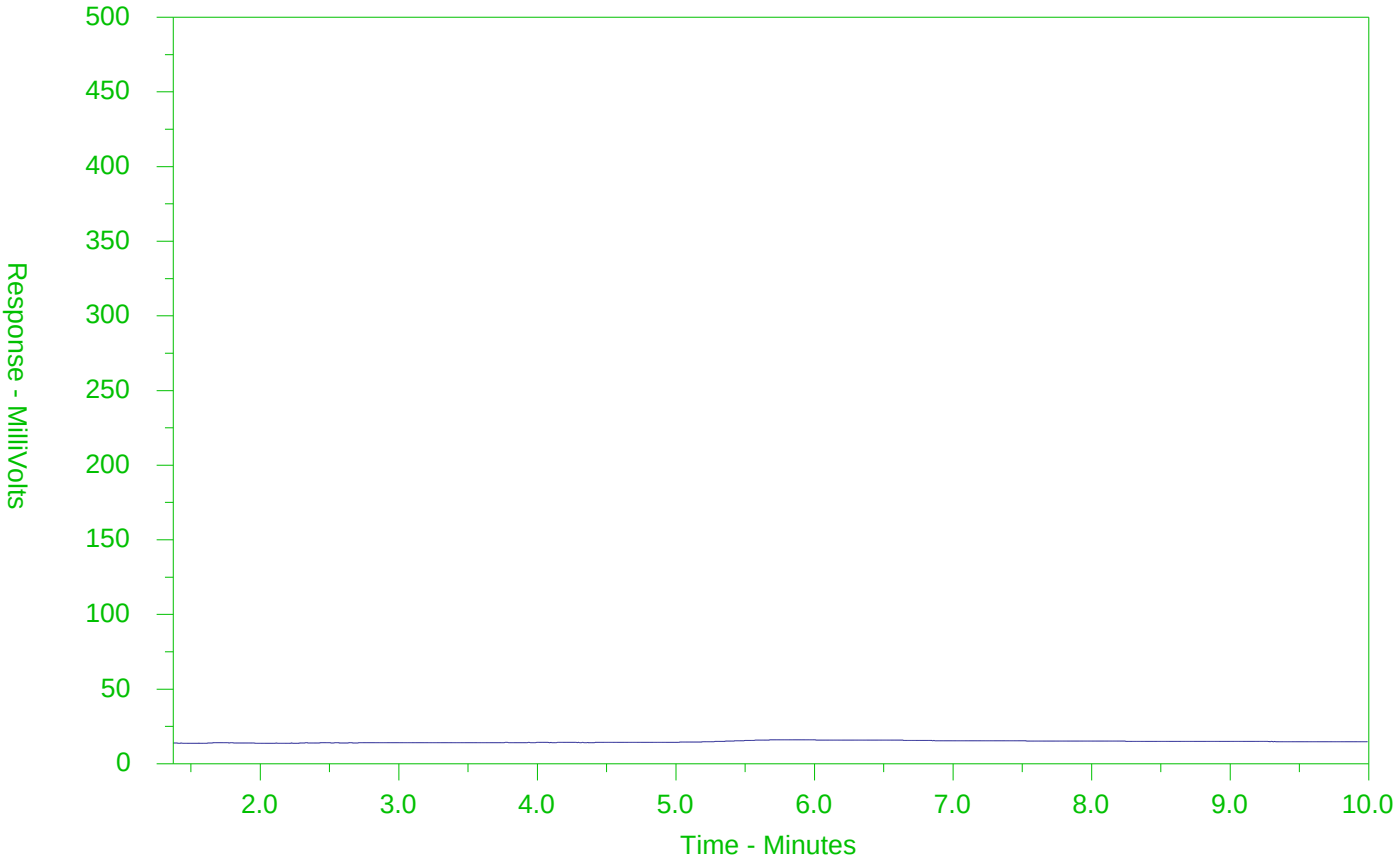
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-35
Client Sample ID: BH1160(13-14)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

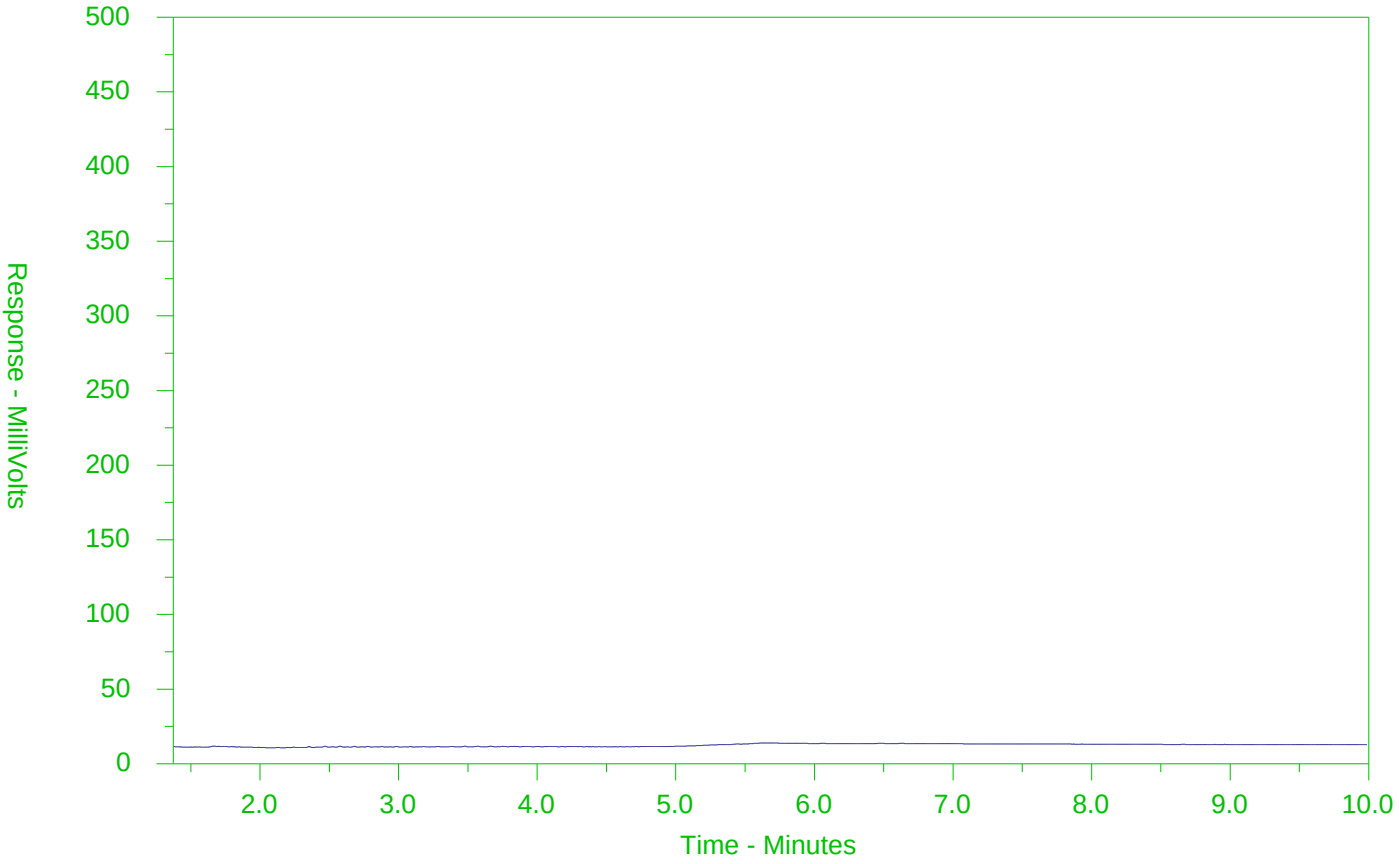
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-39
Client Sample ID: BH117(7.5-9.5)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

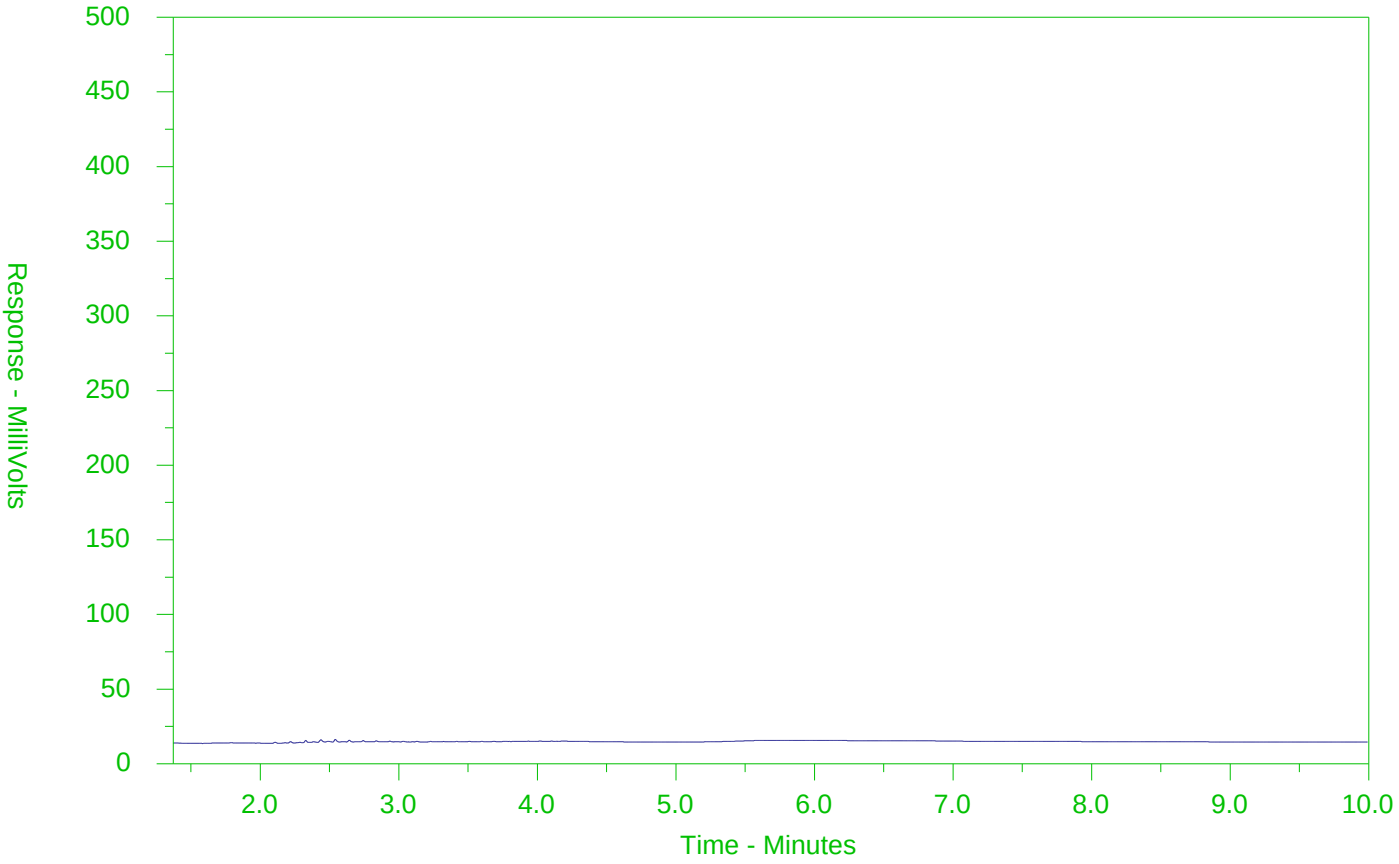
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-45
Client Sample ID: BH119(15-17.5)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

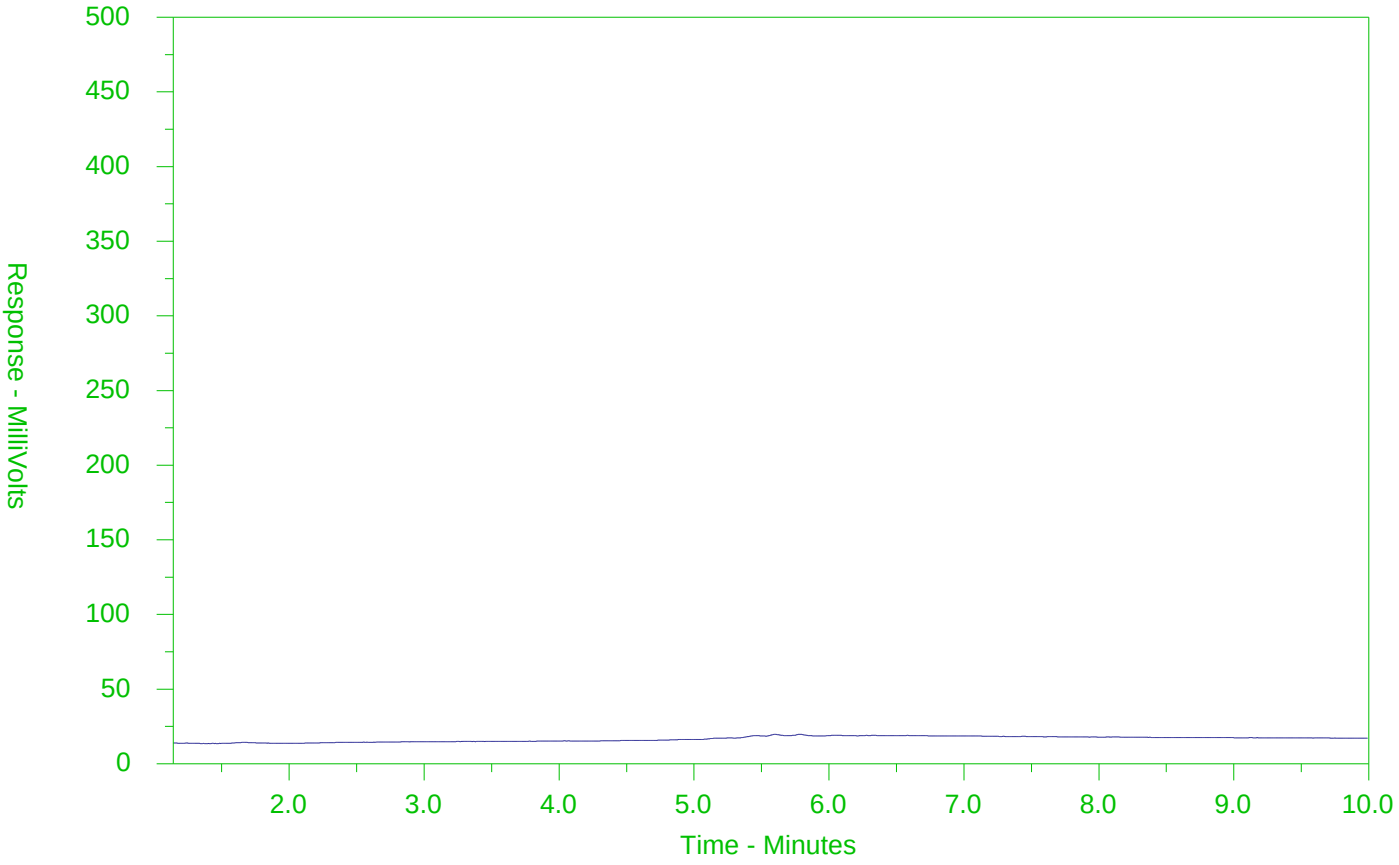
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2024278-50
Client Sample ID: BH121(17-18)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2024278-COFC

COC Number: 17 - 617285

Page 1 of 5

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	MTE Consultants Inc.	Select Report Format: [X] PDF [ ] EXCEL [ ] EDD (DIGITAL)	Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	S. BUCK	Quality Control (QC) Report with Report [X] YES [ ] NO	PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]
Phone:	905 639 2552	[X] Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E-100%] [ ]; Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] [ ]
	Company address below will appear on the final report	Select Distribution: [X] EMAIL [ ] MAIL [ ] FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:	1615 Sutton Dr.	Email 1 or Fax: shuckemte85.com	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:	Burlington, ON	Email 2: tjonesemte85.com	
Postal Code:	[illegible]	Email 3:	

Invoice To		Invoice Distribution	Analysis Request
	Same as Report To [X] YES [ ] NO	Select Invoice Distribution: [X] EMAIL [ ] MAIL [ ] FAX	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
	Copy of Invoice with Report [ ] YES [X] NO		
Company:		Email 1 or Fax	
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	38934-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):	L2024278	ALS Contact: MLP	Sampler: SAB

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Metals+ORPs	PAHs	PCBs	PHCs	VOCs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
1	BH102(1-3)	15-11-17	1330	S	X	X	X					1
2	BH102(5-7)	"	1335	"						X		4
3	BH102(9-10)	"	1340	"				X	X			3
4	~~BH102(14-15)~~ BH1020(9-10)	"	1345	"				X	X			3
5	BH102(~~17-18~~)14-15)	15-11-17	1350	"				X	X			3
6	BH102(17-18)	15-11-17	1355	"						X		3
7	BH105(1-3)	16-11-17	930	"						X		1
8	BH105(8-9)	"	935	"						X		3
9	BH105(11-12)	"	940	"						X		3
10	BH105(14-15)	"	945	"					X			3
11	BH106(2-4)	"	1045	"						X		3
12	BH106(8-10)	16-11-17	1050	"						X		3

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	0.leg 153104 T61 3, R/P/I, Med-Fine Soil
Are samples for human consumption/ use? [ ] YES [X] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)						
Frozen [ ]	SIF Observations	Yes [ ]	No [ ]			
Ice Packs [ ]	Ice Cubes [X]	Custody seal intact	Yes [ ]	No [ ]		
Cooling Initiated [X]						
INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C		
0.2°C				-1.0	2.0	-3.0

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by	Date	Time	Received by	Date	Time
BUCK	11/17/17	10:52	AARON BURTON	17-Nov-2017	10:52	[illegible]	17/11/17	19:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2024278-COFC

COC Number: 17 - 617286

Page 2 of 5

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:		Select Report Format: [X] PDF [ ] EXCEL [ ] EDD (DIGITAL)	Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:		Quality Control (QC) Report with Report [X] YES [ ] NO	PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]
Phone:		[X] Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E-100%] [ ]; Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] [ ]
Company address below will appear on the final report		Select Distribution: [X] EMAIL [ ] MAIL [ ] FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:	SAME	Email 1 or Fax	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:		Email 2 SAME	
Postal Code:		Email 3	

Invoice To		Invoice Distribution
	Same as Report To [X] YES [ ] NO	Select Invoice Distribution: [X] EMAIL [ ] MAIL [ ] FAX
	Copy of Invoice with Report [ ] YES [X] NO	Email 1 or Fax
Company:		Email 2
Contact:		

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	38934-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:	18P7	Location:	
ALS Lab Work Order # (lab use only):	L2024278	ALS Contact: MLP	Sampler: SDB

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Metals 40	PAHs	PCBs	PHCs	VOCs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
13	BH106 (12-13)	16-11-17	10:55	S					X			3
14	BH108 (2-4)	15-11-17	14:45	|						X		4
15	BH108 (9-10)	|	14:50	|				X	X	X		3
16	BH108 (14-15)	|	14:55	|						X		3
17	BH108 (16.5-17)	15-11-17	15:00	|						X		3
18	BH110 (2-4)	16-11-17	11:30	|						X		3
19	BH110 (10-12)	|	11:35	|						X		3
20	BH110 (18-19)	16-11-17	11:40	|						X		3
21	BH113 (1-2)	15-11-17	15:30	|						X		1
22	BH113 (3-5)	|	15:35	|						X		3
23	BH113 (8-10)	|	15:40	|				X	X			3
24	BH113 (15-16)	15-11-17	15:45	|				X	X			3

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	SAME
Are samples for human consumption/ use? [ ] YES [X] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen [ ]		SIF Observations	Yes [ ]	No [ ]	
Ice Packs [ ]	Ice Cubes [X]	Custody seal intact	Yes [ ]	No [ ]	
Cooling Initiated [X]					

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
0.2°C				4.0	2.0	-3.0	

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: SBUCK	Date: 11/17/17	Time: 10:52	Received by: AARON BURTON	Date: 17-Nov-2017	Time: 10:52	Received by: DH	Date: 17/11/17	Time: 19:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

ALS Environmental
www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L2024278-COFC

COC Number: 17 - 617287

Report To	Contact and company name below will appear on the final report
Company:	
Contact:	
Phone:	
Company address below will appear on the final report	
Street:	SAME
City/Province:	
Postal Code:	
Invoice To	Same as Report To [X] YES [ ] NO
	Copy of Invoice with Report [ ] YES [X] NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	[X] PDF [ ] EXCEL [ ] EDD (DIGITAL)
Quality Control (QC) Report with Report	[X] YES [ ] NO
[X] Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	[ ] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax	
Email 2	SAME
Email 3	

Invoice Distribution	
Select Invoice Distribution:	[X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax	
Email 2	

Project Information	
ALS Account # / Quote #:	
Job #:	35934-100
PO / AFE:	
LSD:	18D
ALS Lab Work Order # (lab use only):	L202 4276 DH

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
ALS Contact:	Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] [ ] | 3 day [P3-25%] [ ] | 2 day [P2-50%] [ ]

EMERGENCY: 1 Business day [E-100%] [ ] | Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] [ ]

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Metals (F/P)	PAHs	ICPMS	PHCs	VOCs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
25	BH115 (2-4)	16-11-17	13:30	S	X	X						1
26	BH115 (7.5-10)		13:35							X		4
27	BH115 (10-12.5)		13:40							X		3
28	BH115 (12.5-15)		13:45					X	X			3
29	BH115 (15-16)		13:50							X		3
30	BH1150 (2-4)		13:55		X	X						1
31	BH116 (1-3)		12:30		X	X						1
32	BH116 (6-7)		12:35							X		4
33	BH116 (10-11)		12:40							X		3
34	BH116 (13-14)		12:45					X	X			3
35	BH1160 (13-14)		12:50					X	X			3
36	BH116 (15-16)		12:55							X		3

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [ ] NO	SAME
Are samples for human consumption/ use? [ ] YES [ ] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen [ ] SIF Observations Yes [ ] No [ ]

Ice Packs [ ] Ice Cubes [X] Custody seal intact Yes [ ] No [ ]

Cooling Initiated [X]

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
0.2°C				-1.0	2.0	-3.0	

SHIPMENT RELEASE (client use)		
Released by: S.BUCK	Date: 17/17/17	Time: 10:52

INITIAL SHIPMENT RECEPTION (lab use only)		
Received by: AARON BURTON	Date: 17-Nov-2017	Time: 10:52

FINAL SHIPMENT RECEPTION (lab use only)		
Received by: DH	Date: 17/11/17	Time: 19:50

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

VG

ALS Environmental
www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L2024278-COFC

COC Number: 17 - 617288

Page 4 of 5

Report To	Contact and company name below will appear on the final report
Company:	
Contact:	
Phone:	
Company address below will appear on the final report	SAME
Street:	
City/Province:	
Postal Code:	

Report Format / Distribution	
Select Report Format:	[X] PDF [ ] EXCEL [ ] EDD (DIGITAL)
Quality Control (QC) Report with Report	[X] YES [ ] NO
[X] Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	[ ] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax	
Email 2	SAME
Email 3	

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)	
Regular [R]	[X] Standard TAT if received by 3 pm - business days - no surcharges apply
PRIORITY (Business Days) 4 day [P4-20%]	[ ]
PRIORITY (Business Days) 3 day [P3-25%]	[ ]
PRIORITY (Business Days) 2 day [P2-50%]	[ ]
EMERGENCY 1 Business day [E-100%]	[ ]
EMERGENCY Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)]	[ ]
Date and Time Required for all E&P TATs:	dd-mmm-yy hh:mm
For tests that can not be performed according to the service level selected, you will be contacted.	

Invoice To		
	Same as Report To	[X] YES [ ] NO
	Copy of Invoice with Report	[ ] YES [X] NO
Company:		
Contact:		

Invoice Distribution	
Select Invoice Distribution:	[X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax	
Email 2	

Project Information	
ALS Account # / Quote #:	
Job #:	38934-100
PO / AFE:	
LSD:	LSD
ALS Lab Work Order # (lab use only):	L2024278

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact: MLP	Sampler: SDB

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Metals for RPs	PAHs	PCBs	PHCs	VOCs														SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
									P																
37	BH117 (1-2)	15-11-17	9:00	S	X	X																			3
38	BH117 (5-7)		9:10																				X		1
39	BH117 (7.5-9.5)		9:20					X																	3
40	BH117 (10-12)		9:30						X																3
41	BH117 (15-17)		9:40																				X		3
42	BH117 (20-22)	15-11-17	9:50																				X		3
43	BH119 (2-4)	16-11-17	14:15		X	X																			1
44	BH119 (6-8)		14:20																				X		3
45	BH119 (15-17.5)		14:25					X	X																3
46	BH119 (17.5-19.5)		14:30																				X		3
47	BH121 (2-4)		14:40																				X		3
48	BH121 (10-11)	16-11-17	14:45																				X		4

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	SAME
Are samples for human consumption/ use? [ ] YES [X] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	[ ]	SIF Observations	Yes [ ]	No	[ ]
Ice Packs	[ ]	Ice Cubes [X]	Custody seal intact	Yes [ ]	No [ ]
Cooling initiated	[X]				

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C		
0.2°C				-1.0	2.0	-3.0

SHIPMENT RELEASE (client use)		
Released by: S. BULK	Date: 1/17/17	Time: 10:52

INITIAL SHIPMENT RECEPTION (lab use only)		
Received by: AARON BURTON	Date: 17-Nov-2017	Time: 10:52

FINAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date: 17/11/17	Time: 19:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2024278-COFC

COC Number: 17 - 617289

Page 5 of 5

Report To	Contact and company name below will appear on the final report
Company:	
Contact:	
Phone:	
Company address below will appear on the final report	
Street:	SAME
City/Province:	
Postal Code:	

Report Format / Distribution	
Select Report Format:	[X] PDF [ ] EXCEL [ ] EDD (DIGITAL)
Quality Control (QC) Report with Report	[X] YES [ ] NO
[X] Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	[X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax	
Email 2	SAME
Email 3	

Invoice To		
	Same as Report To	[X] YES [ ] NO
	Copy of Invoice with Report	[ ] YES [X] NO
Company:		
Contact:		

Invoice Distribution	
Select Invoice Distribution:	[X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax	
Email 2	

Project Information	
ALS Account # / Quote #:	
Job #:	38934-100
PO / AFE:	
LSD:	18/7
ALS Lab Work Order # (lab use only)	L2024278 DA

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact: MLP	Sampler: SDB

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R]: [X] Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]

EMERGENCY: 1 Business day [E-100%] [ ]; Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] [ ]

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Metals for CCME	PAHs	PCBs	PHCs	VOCs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
49	BH121 (14-15)	16-11-17	1450	S					P			3
50	BH121 (17-18)	16-11-17	1455					X	X			3
51	BH120 (17-18)	16-11-17	14500							X		3
52	BH121 (19-19.5)	16-11-17	1505							X		3

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	SAME
Are samples for human consumption/ use? [ ] YES [X] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen [ ] SIF Observations Yes [ ] No [ ]

Ice Packs [ ] Ice Cubes [X] Custody seal intact Yes [ ] No [ ]

Cooling Initiated [X]

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C		
0.2°C				-1.0	2.0	-3.0

SHIPMENT RELEASE (client use)		
Released by: S-BULK	Date: 14/7/17	Time: 10:52

INITIAL SHIPMENT RECEPTION (lab use only)		
Received by: AARON BURTON	Date: 17-Nov-2017	Time: 10:52

FINAL SHIPMENT RECEPTION (lab use only)		
Received by: N/A	Date: 17/11/17	Time: 19:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

115

MTE CONSULTANTS INC. (Kitchener)
ATTN: Spencer Buck
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Date Received: 21-NOV-17
Report Date: 02-MAY-19 10:37 (MT)
Version: FINAL REV. 3

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2025188

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers:
Legal Site Desc:

Comments: ADDITIONAL 30-NOV-17 06:58

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2025188-1 BH109(1-3)						
Sampled By: SDB on 20-NOV-17 @ 14:00						
Matrix: SOIL						#1
Physical Tests						
% Moisture	13.6		0.10	%	24-NOV-17	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	28-NOV-17	7.5
Arsenic (As)	7.4		1.0	ug/g	28-NOV-17	18
Barium (Ba)	97.4		1.0	ug/g	28-NOV-17	390
Beryllium (Be)	0.56		0.50	ug/g	28-NOV-17	5
Boron (B)	9.5		5.0	ug/g	28-NOV-17	120
Cadmium (Cd)	<0.50		0.50	ug/g	28-NOV-17	1.2
Chromium (Cr)	25.9		1.0	ug/g	28-NOV-17	160
Cobalt (Co)	6.8		1.0	ug/g	28-NOV-17	22
Copper (Cu)	87.0		1.0	ug/g	28-NOV-17	180
Lead (Pb)	38.7		1.0	ug/g	28-NOV-17	120
Molybdenum (Mo)	<1.0		1.0	ug/g	28-NOV-17	6.9
Nickel (Ni)	16.0		1.0	ug/g	28-NOV-17	130
Selenium (Se)	<1.0		1.0	ug/g	28-NOV-17	2.4
Silver (Ag)	0.20		0.20	ug/g	28-NOV-17	25
Thallium (Tl)	<0.50		0.50	ug/g	28-NOV-17	1
Uranium (U)	<1.0		1.0	ug/g	28-NOV-17	23
Vanadium (V)	23.0		1.0	ug/g	28-NOV-17	86
Zinc (Zn)	198		5.0	ug/g	28-NOV-17	340
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	28-NOV-17	29
Acenaphthylene	<0.050		0.050	ug/g	28-NOV-17	0.17
Anthracene	0.058		0.050	ug/g	28-NOV-17	0.74
Benzo(a)anthracene	0.124		0.050	ug/g	28-NOV-17	0.63
Benzo(a)pyrene	0.090		0.050	ug/g	28-NOV-17	0.3
Benzo(b)fluoranthene	0.136		0.050	ug/g	28-NOV-17	0.78
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	28-NOV-17	7.8
Benzo(k)fluoranthene	<0.050		0.050	ug/g	28-NOV-17	0.78
Chrysene	0.122		0.050	ug/g	28-NOV-17	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	28-NOV-17	0.1
Fluoranthene	0.297		0.050	ug/g	28-NOV-17	0.69
Fluorene	<0.050		0.050	ug/g	28-NOV-17	69
Indeno(1,2,3-cd)pyrene	0.055		0.050	ug/g	28-NOV-17	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	28-NOV-17	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	28-NOV-17	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	28-NOV-17	3.4
Naphthalene	<0.050		0.050	ug/g	28-NOV-17	0.75
Phenanthrene	0.233		0.050	ug/g	28-NOV-17	7.8
Pyrene	0.215		0.050	ug/g	28-NOV-17	78
Surrogate: 2-Fluorobiphenyl	85.8		50-140	%	28-NOV-17	
Surrogate: p-Terphenyl d14	83.5		50-140	%	28-NOV-17	
L2025188-2 BH109(5-7)						
Sampled By: SDB on 20-NOV-17 @ 14:10						
Matrix: SOIL						#1

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2025188-2 BH109(5-7)						
Sampled By: SDB on 20-NOV-17 @ 14:10						
Matrix: SOIL						#1
Physical Tests						
% Moisture	12.9		0.10	%	04-DEC-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	05-DEC-17	28
Benzene	<0.0068		0.0068	ug/g	05-DEC-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	05-DEC-17	1.9
Bromoform	<0.050		0.050	ug/g	05-DEC-17	0.26
Bromomethane	<0.050		0.050	ug/g	05-DEC-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	05-DEC-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	05-DEC-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	05-DEC-17	2.9
Chloroform	<0.050		0.050	ug/g	05-DEC-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	05-DEC-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	05-DEC-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	05-DEC-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	05-DEC-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	05-DEC-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	05-DEC-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	05-DEC-17	0.05
cis-1,2-Dichloroethylene	0.997		0.050	ug/g	05-DEC-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-DEC-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	05-DEC-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	05-DEC-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	05-DEC-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	05-DEC-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	05-DEC-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	05-DEC-17	1.6
n-Hexane	<0.050		0.050	ug/g	05-DEC-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	05-DEC-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	05-DEC-17	4.3
MTBE	<0.050		0.050	ug/g	05-DEC-17	1.4
Styrene	<0.050		0.050	ug/g	05-DEC-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	05-DEC-17	2.3
Toluene	<0.080		0.080	ug/g	05-DEC-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	05-DEC-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05
Trichloroethylene	7.75		0.010	ug/g	05-DEC-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	05-DEC-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	05-DEC-17	0.022
o-Xylene	<0.020		0.020	ug/g	05-DEC-17	
m+p-Xylenes	<0.030		0.030	ug/g	05-DEC-17	
Xylenes (Total)	<0.050		0.050	ug/g	05-DEC-17	25
Surrogate: 4-Bromofluorobenzene	97.8		50-140	%	05-DEC-17	
Surrogate: 1,4-Difluorobenzene	101.2		50-140	%	05-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2025188-3 BH109(8-9)						
Sampled By: SDB on 20-NOV-17 @ 14:20						
Matrix: SOIL						
Physical Tests						
% Moisture	10.9		0.10	%	24-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05
cis-1,2-Dichloroethylene	0.522		0.050	ug/g	23-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	27-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Trichloroethylene	25.9	DLHC	0.080	ug/g	24-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	23-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	27-NOV-17	25
Surrogate: 4-Bromofluorobenzene	89.0		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	95.0		50-140	%	23-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2025188-4 BH1090(8-9)						
Sampled By: SDB on 20-NOV-17 @ 14:30						
Matrix: SOIL						
Physical Tests						
% Moisture	11.7		0.10	%	24-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05
cis-1,2-Dichloroethylene	0.514		0.050	ug/g	23-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	27-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Trichloroethylene	26.8	DLHC	0.080	ug/g	24-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	23-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	27-NOV-17	25
Surrogate: 4-Bromofluorobenzene	92.6		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	97.1		50-140	%	23-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2025188-6 BH109(16-17)						
Sampled By: SDB on 20-NOV-17 @ 14:50						
Matrix: SOIL						
Physical Tests						
% Moisture	12.1		0.10	%	04-DEC-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	05-DEC-17	28
Benzene	<0.0068		0.0068	ug/g	05-DEC-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	05-DEC-17	1.9
Bromoform	<0.050		0.050	ug/g	05-DEC-17	0.26
Bromomethane	<0.050		0.050	ug/g	05-DEC-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	05-DEC-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	05-DEC-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	05-DEC-17	2.9
Chloroform	<0.050		0.050	ug/g	05-DEC-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	05-DEC-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	05-DEC-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	05-DEC-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	05-DEC-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	05-DEC-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	05-DEC-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	05-DEC-17	0.05
cis-1,2-Dichloroethylene	0.578		0.050	ug/g	05-DEC-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-DEC-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	05-DEC-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	05-DEC-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	05-DEC-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	05-DEC-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	05-DEC-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	05-DEC-17	1.6
n-Hexane	<0.050		0.050	ug/g	05-DEC-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	05-DEC-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	05-DEC-17	4.3
MTBE	<0.050		0.050	ug/g	05-DEC-17	1.4
Styrene	<0.050		0.050	ug/g	05-DEC-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	05-DEC-17	2.3
Toluene	<0.080		0.080	ug/g	05-DEC-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	05-DEC-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05
Trichloroethylene	1.61		0.010	ug/g	05-DEC-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	05-DEC-17	5.8
Vinyl chloride	0.049		0.020	ug/g	05-DEC-17	*0.022
o-Xylene	<0.020		0.020	ug/g	05-DEC-17	
m+p-Xylenes	<0.030		0.030	ug/g	05-DEC-17	
Xylenes (Total)	<0.050		0.050	ug/g	05-DEC-17	25
Surrogate: 4-Bromofluorobenzene	99.4		50-140	%	05-DEC-17	
Surrogate: 1,4-Difluorobenzene	102.9		50-140	%	05-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2025188-7	BH114(1-3)									
Sampled By:	SDB on 20-NOV-17 @ 10:30									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	21.7		0.10	%	24-NOV-17				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	28-NOV-17	7.5			
	Arsenic (As)	8.1		1.0	ug/g	28-NOV-17	18			
	Barium (Ba)	229		1.0	ug/g	28-NOV-17	390			
	Beryllium (Be)	0.77		0.50	ug/g	28-NOV-17	5			
	Boron (B)	7.8		5.0	ug/g	28-NOV-17	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	28-NOV-17	1.2			
	Chromium (Cr)	23.9		1.0	ug/g	28-NOV-17	160			
	Cobalt (Co)	10.4		1.0	ug/g	28-NOV-17	22			
	Copper (Cu)	70.6		1.0	ug/g	28-NOV-17	180			
	Lead (Pb)	14.9		1.0	ug/g	28-NOV-17	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	28-NOV-17	6.9			
	Nickel (Ni)	25.2		1.0	ug/g	28-NOV-17	130			
	Selenium (Se)	<1.0		1.0	ug/g	28-NOV-17	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	28-NOV-17	25			
	Thallium (Tl)	<0.50		0.50	ug/g	28-NOV-17	1			
	Uranium (U)	<1.0		1.0	ug/g	28-NOV-17	23			
	Vanadium (V)	33.7		1.0	ug/g	28-NOV-17	86			
	Zinc (Zn)	76.8		5.0	ug/g	28-NOV-17	340			
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	28-NOV-17	29			
	Acenaphthylene	<0.050		0.050	ug/g	28-NOV-17	0.17			
	Anthracene	<0.050		0.050	ug/g	28-NOV-17	0.74			
	Benzo(a)anthracene	<0.050		0.050	ug/g	28-NOV-17	0.63			
	Benzo(a)pyrene	<0.050		0.050	ug/g	28-NOV-17	0.3			
	Benzo(b)fluoranthene	<0.050		0.050	ug/g	28-NOV-17	0.78			
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	28-NOV-17	7.8			
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	28-NOV-17	0.78			
	Chrysene	<0.050		0.050	ug/g	28-NOV-17	7.8			
	Dibenzo(ah)anthracene	<0.050		0.050	ug/g	28-NOV-17	0.1			
	Fluoranthene	<0.050		0.050	ug/g	28-NOV-17	0.69			
	Fluorene	<0.050		0.050	ug/g	28-NOV-17	69			
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	28-NOV-17	0.48			
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	28-NOV-17	3.4			
	1-Methylnaphthalene	<0.030		0.030	ug/g	28-NOV-17	3.4			
	2-Methylnaphthalene	<0.030		0.030	ug/g	28-NOV-17	3.4			
	Naphthalene	<0.050		0.050	ug/g	28-NOV-17	0.75			
	Phenanthrene	<0.050		0.050	ug/g	28-NOV-17	7.8			
	Pyrene	<0.050		0.050	ug/g	28-NOV-17	78			
	Surrogate: 2-Fluorobiphenyl	84.4		50-140	%	28-NOV-17				
	Surrogate: p-Terphenyl d14	81.5		50-140	%	28-NOV-17				
L2025188-10	BH114(15-16)									
Sampled By:	SDB on 20-NOV-17 @ 11:00									
Matrix:	SOIL						#1			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2025188-10 BH114(15-16)						
Sampled By: SDB on 20-NOV-17 @ 11:00						
Matrix: SOIL						
Physical Tests						
% Moisture	11.9		0.10	%	24-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	23-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	23-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	23-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	23-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	23-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	23-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	23-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	23-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	23-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	23-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	23-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	23-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	23-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	23-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	27-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	23-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	23-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	23-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	23-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	23-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	23-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	23-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	23-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	23-NOV-17	0.05
Trichloroethylene	<0.010		0.010	ug/g	23-NOV-17	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	23-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	23-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	23-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	23-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	27-NOV-17	25
Surrogate: 4-Bromofluorobenzene	92.6		50-140	%	23-NOV-17	
Surrogate: 1,4-Difluorobenzene	97.2		50-140	%	23-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

38934-100

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1			
L2025188-10 BH114(15-16)									
Sampled By: SDB on 20-NOV-17 @ 11:00									
Matrix: SOIL									
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	23-NOV-17	65			
F1-BTEX	<5.0		5.0	ug/g	28-NOV-17	65			
F2 (C10-C16)	<10		10	ug/g	28-NOV-17	150			
F3 (C16-C34)	<50		50	ug/g	28-NOV-17	1300			
F4 (C34-C50)	<50		50	ug/g	28-NOV-17	5600			
Total Hydrocarbons (C6-C50)	<72		72	ug/g	28-NOV-17				
Chrom. to baseline at nC50	YES			No Unit	28-NOV-17				
Surrogate: 2-Bromobenzotrifluoride	98.9		60-140	%	28-NOV-17				
Surrogate: 3,4-Dichlorotoluene	85.0		60-140	%	23-NOV-17				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
F1-F4-511-CALC-WT	Soil	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-S

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Soil	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Soil	F2-F4-O.Reg 153/04 (July 2011)	CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:
1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
4. F4G: Gravimetric Heavy Hydrocarbons
5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
8. This method is validated for use.
9. Data from analysis of validation and quality control samples is available upon request.
10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MET-200.2-CCMS-WT	Soil	Metals in Soil by CRC ICPMS	EPA 200.2/6020A (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

Reference Information

METHYLNAPS-CALC-WT	Soil	ABN-Calculated Parameters	SW846 8270
MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
PAH-511-WT	Soil	PAH-O.Reg 153/04 (July 2011)	SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking techniqueis used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

VOC-1,3-DCP-CALC-WT	Soil	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Soil	VOC-O.Reg 153/04 (July 2011)	SW846 8260 (511)

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2025188 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Soil**							
Batch R3893238								
WG2668894-4 DUP		**WG2668894-3**						
F1 (C6-C10)		6.0	6.2		ug/g	4.2	30	23-NOV-17
WG2668894-2 LCS								
F1 (C6-C10)			104.3		%		80-120	23-NOV-17
WG2668894-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	23-NOV-17
Surrogate: 3,4-Dichlorotoluene			87.2		%		60-140	23-NOV-17
WG2668894-7 MS		**WG2668894-6**						
F1 (C6-C10)			100.9		%		60-140	23-NOV-17
F2-F4-511-WT	**Soil**							
Batch R3897527								
WG2671063-4 DUP		**WG2671063-3**						
F2 (C10-C16)		255	211		ug/g	19	30	28-NOV-17
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	28-NOV-17
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	28-NOV-17
WG2671063-2 LCS								
F2 (C10-C16)			113.7		%		80-120	28-NOV-17
F3 (C16-C34)			109.1		%		80-120	28-NOV-17
F4 (C34-C50)			113.6		%		80-120	28-NOV-17
WG2671063-1 MB								
F2 (C10-C16)			<10		ug/g		10	28-NOV-17
F3 (C16-C34)			<50		ug/g		50	28-NOV-17
F4 (C34-C50)			<50		ug/g		50	28-NOV-17
Surrogate: 2-Bromobenzotrifluoride			120.0		%		60-140	28-NOV-17
WG2671063-5 MS		**WG2671063-3**						
F2 (C10-C16)			110.2		%		60-140	28-NOV-17
F3 (C16-C34)			120.6		%		60-140	28-NOV-17
F4 (C34-C50)			121.6		%		60-140	28-NOV-17
MET-200.2-CCMS-WT	**Soil**							
Batch R3898064								
WG2672693-2 CRM		**WT-CANMET-TILL1**						
Antimony (Sb)			98.7		%		70-130	28-NOV-17
Arsenic (As)			99.1		%		70-130	28-NOV-17
Barium (Ba)			103.8		%		70-130	28-NOV-17
Beryllium (Be)			92.5		%		70-130	28-NOV-17
Boron (B)			3.3		mg/kg		0-8.2	28-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R3898064								
WG2672693-2 CRM		**WT-CANMET-TILL1**						
Cadmium (Cd)			96.6		%		70-130	28-NOV-17
Chromium (Cr)			97.3		%		70-130	28-NOV-17
Cobalt (Co)			94.2		%		70-130	28-NOV-17
Copper (Cu)			97.9		%		70-130	28-NOV-17
Lead (Pb)			98.4		%		70-130	28-NOV-17
Molybdenum (Mo)			104.2		%		70-130	28-NOV-17
Nickel (Ni)			99.3		%		70-130	28-NOV-17
Selenium (Se)			0.29		mg/kg		0.11-0.51	28-NOV-17
Silver (Ag)			0.23		mg/kg		0.13-0.33	28-NOV-17
Thallium (Tl)			0.121		mg/kg		0.077-0.18	28-NOV-17
Uranium (U)			98.5		%		70-130	28-NOV-17
Vanadium (V)			98.4		%		70-130	28-NOV-17
Zinc (Zn)			92.6		%		70-130	28-NOV-17
WG2672693-6 DUP		**WG2672693-5**						
Antimony (Sb)		0.46	0.45		ug/g	1.0	30	28-NOV-17
Arsenic (As)		3.79	4.06		ug/g	7.0	30	28-NOV-17
Barium (Ba)		145	165		ug/g	12	40	28-NOV-17
Beryllium (Be)		0.51	0.51		ug/g	0.0	30	28-NOV-17
Boron (B)		9.1	9.8		ug/g	7.3	30	28-NOV-17
Cadmium (Cd)		0.363	0.418		ug/g	14	30	28-NOV-17
Chromium (Cr)		24.7	25.7		ug/g	3.9	30	28-NOV-17
Cobalt (Co)		7.48	8.10		ug/g	8.0	30	28-NOV-17
Copper (Cu)		25.5	27.1		ug/g	6.3	30	28-NOV-17
Lead (Pb)		66.3	59.9		ug/g	10	40	28-NOV-17
Molybdenum (Mo)		0.56	0.52		ug/g	6.7	40	28-NOV-17
Nickel (Ni)		15.2	16.5		ug/g	8.3	30	28-NOV-17
Selenium (Se)		0.31	0.29		ug/g	5.9	30	28-NOV-17
Silver (Ag)		0.11	0.13		ug/g	11	40	28-NOV-17
Thallium (Tl)		0.162	0.162		ug/g	0.3	30	28-NOV-17
Uranium (U)		0.509	0.534		ug/g	4.9	30	28-NOV-17
Vanadium (V)		33.9	35.3		ug/g	4.1	30	28-NOV-17
Zinc (Zn)		91.4	100		ug/g	9.3	30	28-NOV-17
WG2672693-4 LCS								

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R3898064								
WG2672693-4 LCS								
Antimony (Sb)			99.9		%		80-120	28-NOV-17
Arsenic (As)			95.7		%		80-120	28-NOV-17
Barium (Ba)			95.5		%		80-120	28-NOV-17
Beryllium (Be)			88.8		%		80-120	28-NOV-17
Boron (B)			85.2		%		80-120	28-NOV-17
Cadmium (Cd)			97.5		%		80-120	28-NOV-17
Chromium (Cr)			94.9		%		80-120	28-NOV-17
Cobalt (Co)			91.4		%		80-120	28-NOV-17
Copper (Cu)			91.7		%		80-120	28-NOV-17
Lead (Pb)			95.9		%		80-120	28-NOV-17
Molybdenum (Mo)			94.6		%		80-120	28-NOV-17
Nickel (Ni)			94.7		%		80-120	28-NOV-17
Selenium (Se)			92.9		%		80-120	28-NOV-17
Silver (Ag)			96.1		%		80-120	28-NOV-17
Thallium (Tl)			90.6		%		80-120	28-NOV-17
Uranium (U)			92.7		%		80-120	28-NOV-17
Vanadium (V)			97.1		%		80-120	28-NOV-17
Zinc (Zn)			86.1		%		80-120	28-NOV-17
WG2672693-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	28-NOV-17
Arsenic (As)			<0.10		mg/kg		0.1	28-NOV-17
Barium (Ba)			<0.50		mg/kg		0.5	28-NOV-17
Beryllium (Be)			<0.10		mg/kg		0.1	28-NOV-17
Boron (B)			<5.0		mg/kg		5	28-NOV-17
Cadmium (Cd)			<0.020		mg/kg		0.02	28-NOV-17
Chromium (Cr)			<0.50		mg/kg		0.5	28-NOV-17
Cobalt (Co)			<0.10		mg/kg		0.1	28-NOV-17
Copper (Cu)			<0.50		mg/kg		0.5	28-NOV-17
Lead (Pb)			<0.50		mg/kg		0.5	28-NOV-17
Molybdenum (Mo)			<0.10		mg/kg		0.1	28-NOV-17
Nickel (Ni)			<0.50		mg/kg		0.5	28-NOV-17
Selenium (Se)			<0.20		mg/kg		0.2	28-NOV-17
Silver (Ag)			<0.10		mg/kg		0.1	28-NOV-17
Thallium (Tl)			<0.050		mg/kg		0.05	28-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R3898064								
WG2672693-1 MB								
Uranium (U)			<0.050		mg/kg		0.05	28-NOV-17
Vanadium (V)			<0.20		mg/kg		0.2	28-NOV-17
Zinc (Zn)			<2.0		mg/kg		2	28-NOV-17
MOISTURE-WT	**Soil**							
Batch R3895188								
WG2671358-3 DUP		**L2025115-9**						
% Moisture		21.7	21.2		%	2.6	20	24-NOV-17
WG2671358-2 LCS								
% Moisture			98.8		%		90-110	24-NOV-17
WG2671358-1 MB								
% Moisture			<0.10		%		0.1	24-NOV-17
Batch R3903852								
WG2677077-3 DUP		**L2029712-1**						
% Moisture		9.98	9.79		%	1.9	20	04-DEC-17
WG2677077-2 LCS								
% Moisture			98.6		%		90-110	04-DEC-17
WG2677077-1 MB								
% Moisture			<0.10		%		0.1	04-DEC-17
PAH-511-WT	**Soil**							
Batch R3897090								
WG2671095-4 DUP		**WG2671095-3**						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	28-NOV-17
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	28-NOV-17
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Benzo(b)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Dibenzo(ah)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R3897090								
WG2671095-4 DUP		**WG2671095-3**						
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Naphthalene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Phenanthrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
WG2671095-2 LCS								
1-Methylnaphthalene			94.8		%		50-140	28-NOV-17
2-Methylnaphthalene			94.8		%		50-140	28-NOV-17
Acenaphthene			95.6		%		50-140	28-NOV-17
Acenaphthylene			94.2		%		50-140	28-NOV-17
Anthracene			91.6		%		50-140	28-NOV-17
Benzo(a)anthracene			100.2		%		50-140	28-NOV-17
Benzo(a)pyrene			94.4		%		50-140	28-NOV-17
Benzo(b)fluoranthene			95.8		%		50-140	28-NOV-17
Benzo(g,h,i)perylene			90.2		%		50-140	28-NOV-17
Benzo(k)fluoranthene			94.7		%		50-140	28-NOV-17
Chrysene			98.8		%		50-140	28-NOV-17
Dibenzo(ah)anthracene			93.4		%		50-140	28-NOV-17
Fluoranthene			94.9		%		50-140	28-NOV-17
Fluorene			92.2		%		50-140	28-NOV-17
Indeno(1,2,3-cd)pyrene			98.0		%		50-140	28-NOV-17
Naphthalene			93.9		%		50-140	28-NOV-17
Phenanthrene			93.6		%		50-140	28-NOV-17
Pyrene			93.8		%		50-140	28-NOV-17
WG2671095-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	28-NOV-17
2-Methylnaphthalene			<0.030		ug/g		0.03	28-NOV-17
Acenaphthene			<0.050		ug/g		0.05	28-NOV-17
Acenaphthylene			<0.050		ug/g		0.05	28-NOV-17
Anthracene			<0.050		ug/g		0.05	28-NOV-17
Benzo(a)anthracene			<0.050		ug/g		0.05	28-NOV-17
Benzo(a)pyrene			<0.050		ug/g		0.05	28-NOV-17
Benzo(b)fluoranthene			<0.050		ug/g		0.05	28-NOV-17
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	28-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R3897090								
WG2671095-1 MB								
Benzo(k)fluoranthene			<0.050		ug/g		0.05	28-NOV-17
Chrysene			<0.050		ug/g		0.05	28-NOV-17
Dibenzo(ah)anthracene			<0.050		ug/g		0.05	28-NOV-17
Fluoranthene			<0.050		ug/g		0.05	28-NOV-17
Fluorene			<0.050		ug/g		0.05	28-NOV-17
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	28-NOV-17
Naphthalene			<0.050		ug/g		0.05	28-NOV-17
Phenanthrene			<0.050		ug/g		0.05	28-NOV-17
Pyrene			<0.050		ug/g		0.05	28-NOV-17
Surrogate: 2-Fluorobiphenyl			83.3		%		50-140	28-NOV-17
Surrogate: p-Terphenyl d14			78.1		%		50-140	28-NOV-17
WG2671095-5 MS		**WG2671095-3**						
1-Methylnaphthalene			99.9		%		50-140	28-NOV-17
2-Methylnaphthalene			99.7		%		50-140	28-NOV-17
Acenaphthene			101.9		%		50-140	28-NOV-17
Acenaphthylene			98.8		%		50-140	28-NOV-17
Anthracene			95.3		%		50-140	28-NOV-17
Benzo(a)anthracene			107.7		%		50-140	28-NOV-17
Benzo(a)pyrene			98.3		%		50-140	28-NOV-17
Benzo(b)fluoranthene			101.5		%		50-140	28-NOV-17
Benzo(g,h,i)perylene			88.0		%		50-140	28-NOV-17
Benzo(k)fluoranthene			98.9		%		50-140	28-NOV-17
Chrysene			102.2		%		50-140	28-NOV-17
Dibenzo(ah)anthracene			93.0		%		50-140	28-NOV-17
Fluoranthene			101.7		%		50-140	28-NOV-17
Fluorene			98.4		%		50-140	28-NOV-17
Indeno(1,2,3-cd)pyrene			100.8		%		50-140	28-NOV-17
Naphthalene			97.9		%		50-140	28-NOV-17
Phenanthrene			98.7		%		50-140	28-NOV-17
Pyrene			99.8		%		50-140	28-NOV-17
VOC-511-HS-WT	**Soil**							

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3893238								
WG2668894-4 DUP		**WG2668894-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	23-NOV-17
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	23-NOV-17
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
cis-1,2-Dichloroethylene		0.522	0.525		ug/g	0.5	40	23-NOV-17
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	23-NOV-17
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	23-NOV-17
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	23-NOV-17
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	23-NOV-17
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	23-NOV-17
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	23-NOV-17
Styrene		<0.050	<0.050		ug/g			23-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3893238								
WG2668894-4 DUP		**WG2668894-3**						
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	23-NOV-17
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	23-NOV-17
Trichloroethylene		25.9	25.2		ug/g	2.6	40	24-NOV-17
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	23-NOV-17
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	23-NOV-17
WG2668894-2 LCS								
1,1,1,2-Tetrachloroethane			97.5		%		60-130	23-NOV-17
1,1,2,2-Tetrachloroethane			95.1		%		60-130	23-NOV-17
1,1,1-Trichloroethane			101.3		%		60-130	23-NOV-17
1,1,2-Trichloroethane			100.9		%		60-130	23-NOV-17
1,1-Dichloroethane			101.3		%		60-130	23-NOV-17
1,1-Dichloroethylene			93.3		%		60-130	23-NOV-17
1,2-Dibromoethane			101.0		%		70-130	23-NOV-17
1,2-Dichlorobenzene			103.3		%		70-130	23-NOV-17
1,2-Dichloroethane			104.5		%		60-130	23-NOV-17
1,2-Dichloropropane			102.7		%		70-130	23-NOV-17
1,3-Dichlorobenzene			102.9		%		70-130	23-NOV-17
1,4-Dichlorobenzene			105.0		%		70-130	23-NOV-17
Acetone			115.4		%		60-140	23-NOV-17
Benzene			103.0		%		70-130	23-NOV-17
Bromodichloromethane			99.9		%		50-140	23-NOV-17
Bromoform			95.5		%		70-130	23-NOV-17
Bromomethane			99.0		%		50-140	23-NOV-17
Carbon tetrachloride			99.4		%		70-130	23-NOV-17
Chlorobenzene			101.3		%		70-130	23-NOV-17
Chloroform			103.1		%		70-130	23-NOV-17
cis-1,2-Dichloroethylene			102.2		%		70-130	23-NOV-17
cis-1,3-Dichloropropene			100.3		%		70-130	23-NOV-17
Dibromochloromethane			102.1		%		60-130	23-NOV-17
Dichlorodifluoromethane			62.3		%		50-140	23-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3893238								
WG2668894-2 LCS								
Ethylbenzene			93.7		%		70-130	23-NOV-17
n-Hexane			78.6		%		70-130	23-NOV-17
Methylene Chloride			104.6		%		70-130	23-NOV-17
MTBE			100.3		%		70-130	23-NOV-17
m+p-Xylenes			98.7		%		70-130	23-NOV-17
Methyl Ethyl Ketone			107.3		%		60-140	23-NOV-17
Methyl Isobutyl Ketone			104.5		%		60-140	23-NOV-17
o-Xylene			98.8		%		70-130	23-NOV-17
Styrene			97.0		%		70-130	23-NOV-17
Tetrachloroethylene			99.0		%		60-130	23-NOV-17
Toluene			97.4		%		70-130	23-NOV-17
trans-1,2-Dichloroethylene			102.1		%		60-130	23-NOV-17
trans-1,3-Dichloropropene			97.1		%		70-130	23-NOV-17
Trichloroethylene			101.9		%		60-130	23-NOV-17
Trichlorofluoromethane			101.1		%		50-140	23-NOV-17
Vinyl chloride			93.8		%		60-140	23-NOV-17
WG2668894-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	23-NOV-17
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	23-NOV-17
1,1,1-Trichloroethane			<0.050		ug/g		0.05	23-NOV-17
1,1,2-Trichloroethane			<0.050		ug/g		0.05	23-NOV-17
1,1-Dichloroethane			<0.050		ug/g		0.05	23-NOV-17
1,1-Dichloroethylene			<0.050		ug/g		0.05	23-NOV-17
1,2-Dibromoethane			<0.050		ug/g		0.05	23-NOV-17
1,2-Dichlorobenzene			<0.050		ug/g		0.05	23-NOV-17
1,2-Dichloroethane			<0.050		ug/g		0.05	23-NOV-17
1,2-Dichloropropane			<0.050		ug/g		0.05	23-NOV-17
1,3-Dichlorobenzene			<0.050		ug/g		0.05	23-NOV-17
1,4-Dichlorobenzene			<0.050		ug/g		0.05	23-NOV-17
Acetone			<0.50		ug/g		0.5	23-NOV-17
Benzene			<0.0068		ug/g		0.0068	23-NOV-17
Bromodichloromethane			<0.050		ug/g		0.05	23-NOV-17
Bromoform			<0.050		ug/g		0.05	23-NOV-17
Bromomethane			<0.050		ug/g		0.05	23-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3893238								
WG2668894-1 MB								
Carbon tetrachloride			<0.050		ug/g		0.05	23-NOV-17
Chlorobenzene			<0.050		ug/g		0.05	23-NOV-17
Chloroform			<0.050		ug/g		0.05	23-NOV-17
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	23-NOV-17
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	23-NOV-17
Dibromochloromethane			<0.050		ug/g		0.05	23-NOV-17
Dichlorodifluoromethane			<0.050		ug/g		0.05	23-NOV-17
Ethylbenzene			<0.018		ug/g		0.018	23-NOV-17
n-Hexane			<0.050		ug/g		0.05	23-NOV-17
Methylene Chloride			<0.050		ug/g		0.05	23-NOV-17
MTBE			<0.050		ug/g		0.05	23-NOV-17
m+p-Xylenes			<0.030		ug/g		0.03	23-NOV-17
Methyl Ethyl Ketone			<0.50		ug/g		0.5	23-NOV-17
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	23-NOV-17
o-Xylene			<0.020		ug/g		0.02	23-NOV-17
Styrene			<0.050		ug/g		0.05	23-NOV-17
Tetrachloroethylene			<0.050		ug/g		0.05	23-NOV-17
Toluene			<0.080		ug/g		0.08	23-NOV-17
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	23-NOV-17
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	23-NOV-17
Trichloroethylene			<0.010		ug/g		0.01	23-NOV-17
Trichlorofluoromethane			<0.050		ug/g		0.05	23-NOV-17
Vinyl chloride			<0.020		ug/g		0.02	23-NOV-17
Surrogate: 1,4-Difluorobenzene			97.7		%		50-140	23-NOV-17
Surrogate: 4-Bromofluorobenzene			91.1		%		50-140	23-NOV-17
WG2668894-5 MS		**WG2668894-3**						
1,1,1,2-Tetrachloroethane			99.6		%		50-140	23-NOV-17
1,1,2,2-Tetrachloroethane			96.7		%		50-140	23-NOV-17
1,1,1-Trichloroethane			101.8		%		50-140	23-NOV-17
1,1,2-Trichloroethane			105.4		%		50-140	23-NOV-17
1,1-Dichloroethane			102.9		%		50-140	23-NOV-17
1,1-Dichloroethylene			94.1		%		50-140	23-NOV-17
1,2-Dibromoethane			106.3		%		50-140	23-NOV-17
1,2-Dichlorobenzene			104.3		%		50-140	23-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3893238								
WG2668894-5 MS		**WG2668894-3**						
1,2-Dichloroethane			108.5		%		50-140	23-NOV-17
1,2-Dichloropropane			106.2		%		50-140	23-NOV-17
1,3-Dichlorobenzene			103.9		%		50-140	23-NOV-17
1,4-Dichlorobenzene			106.0		%		50-140	23-NOV-17
Acetone			123.3		%		50-140	23-NOV-17
Benzene			104.5		%		50-140	23-NOV-17
Bromodichloromethane			102.5		%		50-140	23-NOV-17
Bromoform			98.3		%		50-140	23-NOV-17
Bromomethane			101.5		%		50-140	23-NOV-17
Carbon tetrachloride			99.4		%		50-140	23-NOV-17
Chlorobenzene			103.0		%		50-140	23-NOV-17
Chloroform			105.0		%		50-140	23-NOV-17
cis-1,2-Dichloroethylene			108.7		%		50-140	23-NOV-17
cis-1,3-Dichloropropene			103.0		%		50-140	23-NOV-17
Dibromochloromethane			106.1		%		50-140	23-NOV-17
Dichlorodifluoromethane			66.0		%		50-140	23-NOV-17
Ethylbenzene			94.8		%		50-140	23-NOV-17
n-Hexane			80.0		%		50-140	23-NOV-17
Methylene Chloride			106.9		%		50-140	23-NOV-17
MTBE			101.5		%		50-140	23-NOV-17
m+p-Xylenes			99.4		%		50-140	23-NOV-17
Methyl Ethyl Ketone			114.3		%		50-140	23-NOV-17
Methyl Isobutyl Ketone			112.6		%		50-140	23-NOV-17
o-Xylene			100.3		%		50-140	23-NOV-17
Styrene			98.5		%		50-140	23-NOV-17
Tetrachloroethylene			99.4		%		50-140	23-NOV-17
Toluene			99.6		%		50-140	23-NOV-17
trans-1,2-Dichloroethylene			102.9		%		50-140	23-NOV-17
trans-1,3-Dichloropropene			101.6		%		50-140	23-NOV-17
Trichloroethylene			N/A	MS-B	%		-	23-NOV-17
Trichlorofluoromethane			102.4		%		50-140	23-NOV-17
Vinyl chloride			95.9		%		50-140	23-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3904328								
WG2676948-4 DUP		**WG2676948-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	05-DEC-17
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	05-DEC-17
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	05-DEC-17
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	05-DEC-17
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	05-DEC-17
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	05-DEC-17
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	05-DEC-17
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	05-DEC-17
Styrene		<0.050	<0.050		ug/g			05-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3904328								
WG2676948-4 DUP		**WG2676948-3**						
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	05-DEC-17
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	05-DEC-17
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	05-DEC-17
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-DEC-17
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	05-DEC-17
WG2676948-2 LCS								
1,1,1,2-Tetrachloroethane			97.0		%		60-130	05-DEC-17
1,1,2,2-Tetrachloroethane			93.3		%		60-130	05-DEC-17
1,1,1-Trichloroethane			102.1		%		60-130	05-DEC-17
1,1,2-Trichloroethane			89.7		%		60-130	05-DEC-17
1,1-Dichloroethane			98.1		%		60-130	05-DEC-17
1,1-Dichloroethylene			88.7		%		60-130	05-DEC-17
1,2-Dibromoethane			86.3		%		70-130	05-DEC-17
1,2-Dichlorobenzene			103.5		%		70-130	05-DEC-17
1,2-Dichloroethane			87.3		%		60-130	05-DEC-17
1,2-Dichloropropane			94.3		%		70-130	05-DEC-17
1,3-Dichlorobenzene			104.4		%		70-130	05-DEC-17
1,4-Dichlorobenzene			106.0		%		70-130	05-DEC-17
Acetone			97.1		%		60-140	05-DEC-17
Benzene			98.9		%		70-130	05-DEC-17
Bromodichloromethane			89.5		%		50-140	05-DEC-17
Bromoform			89.2		%		70-130	05-DEC-17
Bromomethane			89.6		%		50-140	05-DEC-17
Carbon tetrachloride			100.9		%		70-130	05-DEC-17
Chlorobenzene			101.6		%		70-130	05-DEC-17
Chloroform			97.6		%		70-130	05-DEC-17
cis-1,2-Dichloroethylene			93.1		%		70-130	05-DEC-17
cis-1,3-Dichloropropene			96.9		%		70-130	05-DEC-17
Dibromochloromethane			91.6		%		60-130	05-DEC-17
Dichlorodifluoromethane			47.2	MES	%		50-140	05-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3904328								
WG2676948-2 LCS								
Ethylbenzene			103.1		%		70-130	05-DEC-17
n-Hexane			77.9		%		70-130	05-DEC-17
Methylene Chloride			94.9		%		70-130	05-DEC-17
MTBE			100.9		%		70-130	05-DEC-17
m+p-Xylenes			103.1		%		70-130	05-DEC-17
Methyl Ethyl Ketone			96.2		%		60-140	05-DEC-17
Methyl Isobutyl Ketone			92.1		%		60-140	05-DEC-17
o-Xylene			100.0		%		70-130	05-DEC-17
Styrene			95.4		%		70-130	05-DEC-17
Tetrachloroethylene			98.7		%		60-130	05-DEC-17
Toluene			101.8		%		70-130	05-DEC-17
trans-1,2-Dichloroethylene			99.1		%		60-130	05-DEC-17
trans-1,3-Dichloropropene			93.1		%		70-130	05-DEC-17
Trichloroethylene			105.4		%		60-130	05-DEC-17
Trichlorofluoromethane			97.1		%		50-140	05-DEC-17
Vinyl chloride			84.7		%		60-140	05-DEC-17
WG2676948-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	05-DEC-17
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	05-DEC-17
1,1,1-Trichloroethane			<0.050		ug/g		0.05	05-DEC-17
1,1,2-Trichloroethane			<0.050		ug/g		0.05	05-DEC-17
1,1-Dichloroethane			<0.050		ug/g		0.05	05-DEC-17
1,1-Dichloroethylene			<0.050		ug/g		0.05	05-DEC-17
1,2-Dibromoethane			<0.050		ug/g		0.05	05-DEC-17
1,2-Dichlorobenzene			<0.050		ug/g		0.05	05-DEC-17
1,2-Dichloroethane			<0.050		ug/g		0.05	05-DEC-17
1,2-Dichloropropane			<0.050		ug/g		0.05	05-DEC-17
1,3-Dichlorobenzene			<0.050		ug/g		0.05	05-DEC-17
1,4-Dichlorobenzene			<0.050		ug/g		0.05	05-DEC-17
Acetone			<0.50		ug/g		0.5	05-DEC-17
Benzene			<0.0068		ug/g		0.0068	05-DEC-17
Bromodichloromethane			<0.050		ug/g		0.05	05-DEC-17
Bromoform			<0.050		ug/g		0.05	05-DEC-17
Bromomethane			<0.050		ug/g		0.05	05-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3904328								
WG2676948-1 MB								
Carbon tetrachloride			<0.050		ug/g		0.05	05-DEC-17
Chlorobenzene			<0.050		ug/g		0.05	05-DEC-17
Chloroform			<0.050		ug/g		0.05	05-DEC-17
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	05-DEC-17
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	05-DEC-17
Dibromochloromethane			<0.050		ug/g		0.05	05-DEC-17
Dichlorodifluoromethane			<0.050		ug/g		0.05	05-DEC-17
Ethylbenzene			<0.018		ug/g		0.018	05-DEC-17
n-Hexane			<0.050		ug/g		0.05	05-DEC-17
Methylene Chloride			<0.050		ug/g		0.05	05-DEC-17
MTBE			<0.050		ug/g		0.05	05-DEC-17
m+p-Xylenes			<0.030		ug/g		0.03	05-DEC-17
Methyl Ethyl Ketone			<0.50		ug/g		0.5	05-DEC-17
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	05-DEC-17
o-Xylene			<0.020		ug/g		0.02	05-DEC-17
Styrene			<0.050		ug/g		0.05	05-DEC-17
Tetrachloroethylene			<0.050		ug/g		0.05	05-DEC-17
Toluene			<0.080		ug/g		0.08	05-DEC-17
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	05-DEC-17
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	05-DEC-17
Trichloroethylene			<0.010		ug/g		0.01	05-DEC-17
Trichlorofluoromethane			<0.050		ug/g		0.05	05-DEC-17
Vinyl chloride			<0.020		ug/g		0.02	05-DEC-17
Surrogate: 1,4-Difluorobenzene			108.9		%		50-140	05-DEC-17
Surrogate: 4-Bromofluorobenzene			107.2		%		50-140	05-DEC-17
WG2676948-5 MS		**WG2676948-3**						
1,1,1,2-Tetrachloroethane			96.7		%		50-140	05-DEC-17
1,1,2,2-Tetrachloroethane			95.4		%		50-140	05-DEC-17
1,1,1-Trichloroethane			99.9		%		50-140	05-DEC-17
1,1,2-Trichloroethane			91.3		%		50-140	05-DEC-17
1,1-Dichloroethane			92.2		%		50-140	05-DEC-17
1,1-Dichloroethylene			87.1		%		50-140	05-DEC-17
1,2-Dibromoethane			87.9		%		50-140	05-DEC-17
1,2-Dichlorobenzene			101.7		%		50-140	05-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3904328								
WG2676948-5 MS		**WG2676948-3**						
1,2-Dichloroethane			89.0		%		50-140	05-DEC-17
1,2-Dichloropropane			94.5		%		50-140	05-DEC-17
1,3-Dichlorobenzene			102.4		%		50-140	05-DEC-17
1,4-Dichlorobenzene			103.6		%		50-140	05-DEC-17
Acetone			103.9		%		50-140	05-DEC-17
Benzene			97.7		%		50-140	05-DEC-17
Bromodichloromethane			89.7		%		50-140	05-DEC-17
Bromoform			91.2		%		50-140	05-DEC-17
Bromomethane			88.7		%		50-140	05-DEC-17
Carbon tetrachloride			98.2		%		50-140	05-DEC-17
Chlorobenzene			99.9		%		50-140	05-DEC-17
Chloroform			97.0		%		50-140	05-DEC-17
cis-1,2-Dichloroethylene			88.5		%		50-140	05-DEC-17
cis-1,3-Dichloropropene			96.2		%		50-140	05-DEC-17
Dibromochloromethane			92.4		%		50-140	05-DEC-17
Dichlorodifluoromethane			50.4		%		50-140	05-DEC-17
Ethylbenzene			99.8		%		50-140	05-DEC-17
n-Hexane			77.4		%		50-140	05-DEC-17
Methylene Chloride			94.7		%		50-140	05-DEC-17
MTBE			99.0		%		50-140	05-DEC-17
m+p-Xylenes			99.6		%		50-140	05-DEC-17
Methyl Ethyl Ketone			99.7		%		50-140	05-DEC-17
Methyl Isobutyl Ketone			97.3		%		50-140	05-DEC-17
o-Xylene			97.6		%		50-140	05-DEC-17
Styrene			94.0		%		50-140	05-DEC-17
Tetrachloroethylene			93.6		%		50-140	05-DEC-17
Toluene			99.1		%		50-140	05-DEC-17
trans-1,2-Dichloroethylene			96.0		%		50-140	05-DEC-17
trans-1,3-Dichloropropene			92.7		%		50-140	05-DEC-17
Trichloroethylene			102.3		%		50-140	05-DEC-17
Trichlorofluoromethane			96.1		%		50-140	05-DEC-17
Vinyl chloride			84.3		%		50-140	05-DEC-17

Quality Control Report

Workorder: L2025188 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

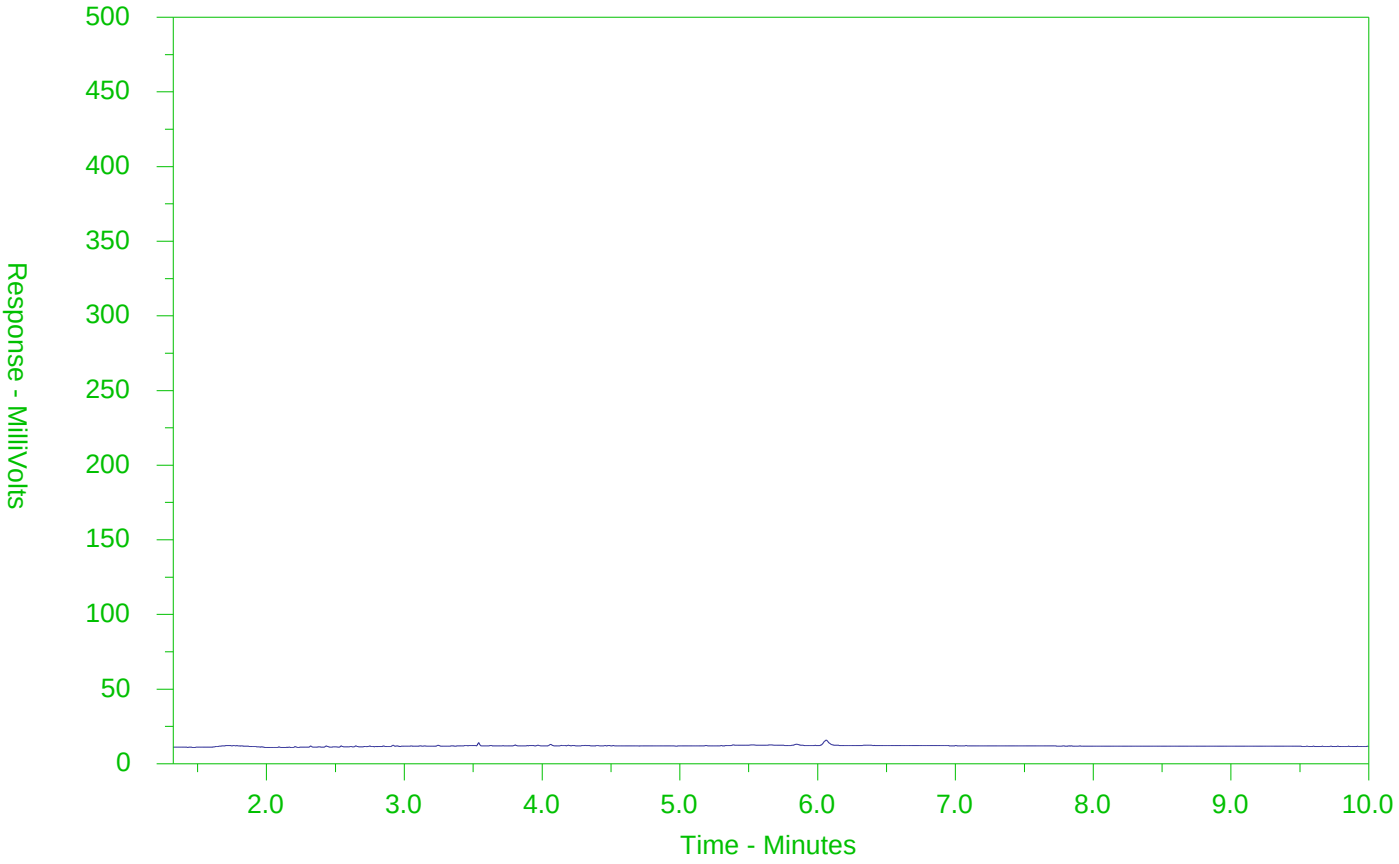
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2025188-10
Client Sample ID: BH114(15-16)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2025188-COFC

COC Number: 17 - 617290

Page 1 of 1

Report To	Contact and company name below will appear on the final report	Report Format / Distribution		Turnaround Time (TAT) Requested - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	MTE Consultants Inc.	Select Report Format:	PDF EXCEL EDD (DIGITAL)	Regular [R] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	S. Buck	Quality Control (QC) Report with Report	YES NO	PRIORITY (Business Days): 4 day [P4-20%]; 3 day [P3-25%]; 2 day [P2-50%]
Phone:	905 639 2552	Compare Results to Criteria on Report - provide details below if box checked		EMERGENCY: 1 Business day [E-100%]; Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)]
	Company address below will appear on the final report	Select Distribution:	EMAIL MAIL FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:		Email 1 or Fax	sbuck@mtecon.com	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:		Email 2	tjones@mtecon.com	
Postal Code:		Email 3		

Invoice To		Invoice Distribution	
	Same as Report To YES NO	Select Invoice Distribution:	EMAIL MAIL FAX
	Copy of Invoice with Report YES NO		
Company:		Email 1 or Fax	
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:		Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): L2025188 ALS Contact: MLP Sampler: SDB

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Complete Metals	PAHs	PHCs	VOCs												SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
								P														
1	BH109 (1-3)	20-Nov-17	14:00	S	X	X																1
2	BH109 (5-7)		14:10																	X		3
3	BH109 (8-9)		14:20					X														3
4	BH1090 (8-9)		14:30					X														3
5	BH109 (13-14)		14:40																	X		3
6	BH109 (16-17)		14:50																	X		3
7	BH114 (1-3)		10:30		X	X																1
8	BH114 (5-7)		10:40																	X		1
9	BH114 (10-12)		10:50																	X		3
10	BH114 (15-16)		11:00				X	X														3

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? YES NO	0 deg 153104 TBI 3 RIPL MF
Are samples for human consumption/ use? YES NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen		SIF Observations	Yes	No	
Ice Packs	Ice Cubes	Custody seal intact	Yes	No	
Cooling Initiated					

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
4.2°C				1.1			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: S. BUCK	Date: 11/20/17	Time: 17:05	Received by: AARON BURTON	Date: 20-Nov-2017	Time: 17:05	Received by: AK	Date: 21/11/17	Time: 15:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY

ALS 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

40

MTE CONSULTANTS INC. (Kitchener)
ATTN: Spencer Buck
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Date Received: 21-NOV-17
Report Date: 02-MAY-19 10:38 (MT)
Version: FINAL REV. 3

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2025639

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 17-617275, 17-617276
Legal Site Desc:

Comments: ADDITIONAL 06-DEC-17 08:27
ADDITIONAL 01-DEC-17 07:07

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2025639-1 BH103(1-3)						
Sampled By: SDB on 21-NOV-17 @ 12:30						
Matrix: SOIL						#1
Physical Tests						
% Moisture	10.3		0.10	%	27-NOV-17	
Polychlorinated Biphenyls						
Aroclor 1242	<0.010		0.010	ug/g	27-NOV-17	
Aroclor 1248	<0.010		0.010	ug/g	27-NOV-17	
Aroclor 1254	<0.010		0.010	ug/g	27-NOV-17	
Aroclor 1260	<0.010		0.010	ug/g	27-NOV-17	
Total PCBs	<0.020		0.020	ug/g	27-NOV-17	0.35
Surrogate: d14-Terphenyl	106.2		60-140	%	27-NOV-17	
L2025639-4 BH103(15-16)						
Sampled By: SDB on 21-NOV-17 @ 13:00						
Matrix: SOIL						#1
Physical Tests						
% Moisture	18.6		0.10	%	27-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	24-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	24-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	24-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	24-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	24-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	24-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	24-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	24-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	24-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	24-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	24-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	24-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	24-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	24-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	24-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	24-NOV-17	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	24-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	24-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	24-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	24-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	24-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	24-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	28-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	24-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	24-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	24-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	24-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	24-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	24-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2025639-4 BH103(15-16)						
Sampled By: SDB on 21-NOV-17 @ 13:00						
Matrix: SOIL						#1
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	24-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	24-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	24-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05
Trichloroethylene	<0.010		0.010	ug/g	24-NOV-17	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	24-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	24-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	24-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	24-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	28-NOV-17	25
Surrogate: 4-Bromofluorobenzene	89.3		50-140	%	24-NOV-17	
Surrogate: 1,4-Difluorobenzene	95.4		50-140	%	24-NOV-17	
L2025639-10 BH112(1-3)						
Sampled By: SDB on 21-NOV-17 @ 11:00						
Matrix: SOIL						#1
Physical Tests						
Conductivity	0.332		0.0040	mS/cm	15-DEC-17	0.7
% Moisture	10.0		0.10	%	27-NOV-17	
pH	7.75		0.10	pH units	09-DEC-17	
Cyanides						
Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	08-DEC-17	0.051
Saturated Paste Extractables						
SAR	1.22		0.10	SAR	15-DEC-17	5
Calcium (Ca)	13.3		1.0	mg/L	15-DEC-17	
Magnesium (Mg)	2.8		1.0	mg/L	15-DEC-17	
Sodium (Na)	18.9		1.0	mg/L	15-DEC-17	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	29-NOV-17	7.5
Arsenic (As)	6.8		1.0	ug/g	29-NOV-17	18
Barium (Ba)	145		1.0	ug/g	29-NOV-17	390
Beryllium (Be)	0.55		0.50	ug/g	29-NOV-17	5
Boron (B)	9.2		5.0	ug/g	29-NOV-17	120
Boron (B), Hot Water Ext.	0.13		0.10	ug/g	29-NOV-17	1.5
Cadmium (Cd)	<0.50		0.50	ug/g	29-NOV-17	1.2
Chromium (Cr)	18.9		1.0	ug/g	29-NOV-17	160
Cobalt (Co)	11.2		1.0	ug/g	29-NOV-17	22
Copper (Cu)	72.8		1.0	ug/g	29-NOV-17	180
Lead (Pb)	10.0		1.0	ug/g	29-NOV-17	120
Mercury (Hg)	0.0142		0.0050	ug/g	29-NOV-17	1.8
Molybdenum (Mo)	<1.0		1.0	ug/g	29-NOV-17	6.9
Nickel (Ni)	24.5		1.0	ug/g	29-NOV-17	130
Selenium (Se)	<1.0		1.0	ug/g	29-NOV-17	2.4
Silver (Ag)	<0.20		0.20	ug/g	29-NOV-17	25
Thallium (Tl)	<0.50		0.50	ug/g	29-NOV-17	1

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2025639-10 BH112(1-3)									
Sampled By: SDB on 21-NOV-17 @ 11:00									
Matrix: SOIL						#1			
Metals									
Uranium (U)	<1.0		1.0	ug/g	29-NOV-17	23			
Vanadium (V)	27.4		1.0	ug/g	29-NOV-17	86			
Zinc (Zn)	58.8		5.0	ug/g	29-NOV-17	340			
Speciated Metals									
Chromium, Hexavalent	<0.20		0.20	ug/g	29-NOV-17	10			
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	<0.050		0.050	ug/g	28-NOV-17	29			
Acenaphthylene	<0.050		0.050	ug/g	28-NOV-17	0.17			
Anthracene	<0.050		0.050	ug/g	28-NOV-17	0.74			
Benzo(a)anthracene	<0.050		0.050	ug/g	28-NOV-17	0.63			
Benzo(a)pyrene	<0.050		0.050	ug/g	28-NOV-17	0.3			
Benzo(b)fluoranthene	<0.050		0.050	ug/g	28-NOV-17	0.78			
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	28-NOV-17	7.8			
Benzo(k)fluoranthene	<0.050		0.050	ug/g	28-NOV-17	0.78			
Chrysene	<0.050		0.050	ug/g	28-NOV-17	7.8			
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	28-NOV-17	0.1			
Fluoranthene	<0.050		0.050	ug/g	28-NOV-17	0.69			
Fluorene	<0.050		0.050	ug/g	28-NOV-17	69			
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	28-NOV-17	0.48			
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	28-NOV-17	3.4			
1-Methylnaphthalene	<0.030		0.030	ug/g	28-NOV-17	3.4			
2-Methylnaphthalene	<0.030		0.030	ug/g	28-NOV-17	3.4			
Naphthalene	<0.050		0.050	ug/g	28-NOV-17	0.75			
Phenanthrene	<0.050		0.050	ug/g	28-NOV-17	7.8			
Pyrene	<0.050		0.050	ug/g	28-NOV-17	78			
Surrogate: 2-Fluorobiphenyl	83.5		50-140	%	28-NOV-17				
Surrogate: p-Terphenyl d14	83.9		50-140	%	28-NOV-17				
L2025639-11 BH1120(1-3)									
Sampled By: SDB on 21-NOV-17 @ 11:05									
Matrix: SOIL						#1			
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	29-NOV-17	7.5			
Arsenic (As)	6.4		1.0	ug/g	29-NOV-17	18			
Barium (Ba)	151		1.0	ug/g	29-NOV-17	390			
Beryllium (Be)	0.60		0.50	ug/g	29-NOV-17	5			
Boron (B)	10.5		5.0	ug/g	29-NOV-17	120			
Cadmium (Cd)	<0.50		0.50	ug/g	29-NOV-17	1.2			
Chromium (Cr)	18.8		1.0	ug/g	29-NOV-17	160			
Cobalt (Co)	11.0		1.0	ug/g	29-NOV-17	22			
Copper (Cu)	66.7		1.0	ug/g	29-NOV-17	180			
Lead (Pb)	39.9		1.0	ug/g	29-NOV-17	120			
Molybdenum (Mo)	<1.0		1.0	ug/g	29-NOV-17	6.9			
Nickel (Ni)	23.8		1.0	ug/g	29-NOV-17	130			
Selenium (Se)	<1.0		1.0	ug/g	29-NOV-17	2.4			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2025639-11 BH1120(1-3) Sampled By: SDB on 21-NOV-17 @ 11:05 Matrix: SOIL						#1			
Metals									
Silver (Ag)	<0.20		0.20	ug/g	29-NOV-17	25			
Thallium (Tl)	<0.50		0.50	ug/g	29-NOV-17	1			
Uranium (U)	<1.0		1.0	ug/g	29-NOV-17	23			
Vanadium (V)	27.0		1.0	ug/g	29-NOV-17	86			
Zinc (Zn)	55.6		5.0	ug/g	29-NOV-17	340			
L2025639-13 BH112(10-12) Sampled By: SDB on 21-NOV-17 @ 11:20 Matrix: SOIL						#1			
Physical Tests									
% Moisture	15.8		0.10	%	27-NOV-17				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	27-NOV-17	65			
F2 (C10-C16)	14		10	ug/g	29-NOV-17	150			
F3 (C16-C34)	51		50	ug/g	29-NOV-17	1300			
F4 (C34-C50)	<50		50	ug/g	29-NOV-17	5600			
Total Hydrocarbons (C6-C50)	<72		72	ug/g	29-NOV-17				
Chrom. to baseline at nC50	YES			No Unit	29-NOV-17				
Surrogate: 2-Bromobenzotrifluoride	87.5		60-140	%	29-NOV-17				
Surrogate: 3,4-Dichlorotoluene	87.8		60-140	%	27-NOV-17				
L2025639-14 BH112(15-16) Sampled By: SDB on 21-NOV-17 @ 11:30 Matrix: SOIL						#1			
Physical Tests									
% Moisture	15.3		0.10	%	27-NOV-17				
Volatile Organic Compounds									
Acetone	<0.50		0.50	ug/g	24-NOV-17	28			
Benzene	<0.0068		0.0068	ug/g	24-NOV-17	0.17			
Bromodichloromethane	<0.050		0.050	ug/g	24-NOV-17	1.9			
Bromoform	<0.050		0.050	ug/g	24-NOV-17	0.26			
Bromomethane	<0.050		0.050	ug/g	24-NOV-17	0.05			
Carbon tetrachloride	<0.050		0.050	ug/g	24-NOV-17	0.12			
Chlorobenzene	<0.050		0.050	ug/g	24-NOV-17	2.7			
Dibromochloromethane	<0.050		0.050	ug/g	24-NOV-17	2.9			
Chloroform	<0.050		0.050	ug/g	24-NOV-17	0.18			
1,2-Dibromoethane	<0.050		0.050	ug/g	24-NOV-17	0.05			
1,2-Dichlorobenzene	<0.050		0.050	ug/g	24-NOV-17	1.7			
1,3-Dichlorobenzene	<0.050		0.050	ug/g	24-NOV-17	6			
1,4-Dichlorobenzene	<0.050		0.050	ug/g	24-NOV-17	0.097			
Dichlorodifluoromethane	<0.050		0.050	ug/g	24-NOV-17	25			
1,1-Dichloroethane	<0.050		0.050	ug/g	24-NOV-17	0.6			
1,2-Dichloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05			
1,1-Dichloroethylene	<0.050		0.050	ug/g	24-NOV-17	0.05			
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	24-NOV-17	2.5			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2025639-14 BH112(15-16)						
Sampled By: SDB on 21-NOV-17 @ 11:30						
Matrix: SOIL						#1
Volatile Organic Compounds						
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	24-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	24-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	24-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	24-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	24-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	28-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	24-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	24-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	24-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	24-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	24-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	24-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	24-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	24-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	24-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05
Trichloroethylene	<0.010		0.010	ug/g	24-NOV-17	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	24-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	24-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	24-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	24-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	28-NOV-17	25
Surrogate: 4-Bromofluorobenzene	93.1		50-140	%	24-NOV-17	
Surrogate: 1,4-Difluorobenzene	99.3		50-140	%	24-NOV-17	
L2025639-16 BH118(1-3)						
Sampled By: SDB on 21-NOV-17 @ 14:00						
Matrix: SOIL						#1
Physical Tests						
Conductivity	0.377		0.0040	mS/cm	15-DEC-17	0.7
% Moisture	12.5		0.10	%	27-NOV-17	
pH	7.63		0.10	pH units	09-DEC-17	
Cyanides						
Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	08-DEC-17	0.051
Saturated Paste Extractables						
SAR	0.78		0.10	SAR	15-DEC-17	5
Calcium (Ca)	26.4		1.0	mg/L	15-DEC-17	
Magnesium (Mg)	3.2		1.0	mg/L	15-DEC-17	
Sodium (Na)	16.0		1.0	mg/L	15-DEC-17	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	29-NOV-17	7.5
Arsenic (As)	7.6		1.0	ug/g	29-NOV-17	18
Barium (Ba)	202		1.0	ug/g	29-NOV-17	390
Beryllium (Be)	0.78		0.50	ug/g	29-NOV-17	5

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2025639-16 BH118(1-3)						
Sampled By: SDB on 21-NOV-17 @ 14:00						
Matrix: SOIL						#1
Metals						
Boron (B)	9.4		5.0	ug/g	29-NOV-17	120
Boron (B), Hot Water Ext.	0.13		0.10	ug/g	29-NOV-17	1.5
Cadmium (Cd)	<0.50		0.50	ug/g	29-NOV-17	1.2
Chromium (Cr)	22.8		1.0	ug/g	29-NOV-17	160
Cobalt (Co)	11.6		1.0	ug/g	29-NOV-17	22
Copper (Cu)	62.0		1.0	ug/g	29-NOV-17	180
Lead (Pb)	9.1		1.0	ug/g	29-NOV-17	120
Mercury (Hg)	0.0238		0.0050	ug/g	29-NOV-17	1.8
Molybdenum (Mo)	<1.0		1.0	ug/g	29-NOV-17	6.9
Nickel (Ni)	26.0		1.0	ug/g	29-NOV-17	130
Selenium (Se)	<1.0		1.0	ug/g	29-NOV-17	2.4
Silver (Ag)	<0.20		0.20	ug/g	29-NOV-17	25
Thallium (Tl)	<0.50		0.50	ug/g	29-NOV-17	1
Uranium (U)	<1.0		1.0	ug/g	29-NOV-17	23
Vanadium (V)	34.6		1.0	ug/g	29-NOV-17	86
Zinc (Zn)	54.0		5.0	ug/g	29-NOV-17	340
Speciated Metals						
Chromium, Hexavalent	0.27		0.20	ug/g	29-NOV-17	10
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	28-NOV-17	29
Acenaphthylene	<0.050		0.050	ug/g	28-NOV-17	0.17
Anthracene	<0.050		0.050	ug/g	28-NOV-17	0.74
Benzo(a)anthracene	<0.050		0.050	ug/g	28-NOV-17	0.63
Benzo(a)pyrene	<0.050		0.050	ug/g	28-NOV-17	0.3
Benzo(b)fluoranthene	<0.050		0.050	ug/g	28-NOV-17	0.78
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	28-NOV-17	7.8
Benzo(k)fluoranthene	<0.050		0.050	ug/g	28-NOV-17	0.78
Chrysene	<0.050		0.050	ug/g	28-NOV-17	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	28-NOV-17	0.1
Fluoranthene	<0.050		0.050	ug/g	28-NOV-17	0.69
Fluorene	<0.050		0.050	ug/g	28-NOV-17	69
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	28-NOV-17	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	28-NOV-17	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	28-NOV-17	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	28-NOV-17	3.4
Naphthalene	<0.050		0.050	ug/g	28-NOV-17	0.75
Phenanthrene	<0.050		0.050	ug/g	28-NOV-17	7.8
Pyrene	<0.050		0.050	ug/g	28-NOV-17	78
Surrogate: 2-Fluorobiphenyl	78.3		50-140	%	28-NOV-17	
Surrogate: p-Terphenyl d14	75.6		50-140	%	28-NOV-17	
L2025639-17 BH118(5-7)						
Sampled By: SDB on 21-NOV-17 @ 14:10						
Matrix: SOIL						#1
Physical Tests						

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2025639-17 BH118(5-7)						
Sampled By: SDB on 21-NOV-17 @ 14:10						
Matrix: SOIL						
Physical Tests						
% Moisture	9.80		0.10	%	04-DEC-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	05-DEC-17	28
Benzene	<0.0068		0.0068	ug/g	05-DEC-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	05-DEC-17	1.9
Bromoform	<0.050		0.050	ug/g	05-DEC-17	0.26
Bromomethane	<0.050		0.050	ug/g	05-DEC-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	05-DEC-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	05-DEC-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	05-DEC-17	2.9
Chloroform	<0.050		0.050	ug/g	05-DEC-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	05-DEC-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	05-DEC-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	05-DEC-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	05-DEC-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	05-DEC-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	05-DEC-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	05-DEC-17	0.05
cis-1,2-Dichloroethylene	0.253		0.050	ug/g	05-DEC-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-DEC-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	05-DEC-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	05-DEC-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	05-DEC-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	05-DEC-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	05-DEC-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	05-DEC-17	1.6
n-Hexane	<0.050		0.050	ug/g	05-DEC-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	05-DEC-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	05-DEC-17	4.3
MTBE	<0.050		0.050	ug/g	05-DEC-17	1.4
Styrene	<0.050		0.050	ug/g	05-DEC-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	05-DEC-17	2.3
Toluene	<0.080		0.080	ug/g	05-DEC-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	05-DEC-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05
Trichloroethylene	4.81		0.010	ug/g	05-DEC-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	05-DEC-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	05-DEC-17	0.022
o-Xylene	<0.020		0.020	ug/g	05-DEC-17	
m+p-Xylenes	<0.030		0.030	ug/g	05-DEC-17	
Xylenes (Total)	<0.050		0.050	ug/g	05-DEC-17	25
Surrogate: 4-Bromofluorobenzene	101.3		50-140	%	05-DEC-17	
Surrogate: 1,4-Difluorobenzene	104.4		50-140	%	05-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2025639-18 BH118(11-13)						
Sampled By: SDB on 21-NOV-17 @ 14:20						
Matrix: SOIL						
Physical Tests						
% Moisture	13.0		0.10	%	27-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	24-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	24-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	24-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	24-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	24-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	24-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	24-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	24-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	24-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	24-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	24-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	24-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	24-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	24-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	24-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	24-NOV-17	0.05
cis-1,2-Dichloroethylene	0.227		0.050	ug/g	24-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	24-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	24-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	24-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	24-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	24-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	28-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	24-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	24-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	24-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	24-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	24-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	24-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	24-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	24-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	24-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05
Trichloroethylene	36.1	DLHC	0.16	ug/g	27-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	24-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	24-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	24-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	24-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	28-NOV-17	25
Surrogate: 4-Bromofluorobenzene	93.0		50-140	%	24-NOV-17	
Surrogate: 1,4-Difluorobenzene	96.7		50-140	%	24-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2025639-19 BH1180(11-13)						
Sampled By: SDB on 21-NOV-17 @ 14:30						
Matrix: SOIL						
Physical Tests						
% Moisture	12.7		0.10	%	27-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	24-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	24-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	24-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	24-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	24-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	24-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	24-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	24-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	24-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	24-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	24-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	24-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	24-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	24-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	24-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	24-NOV-17	0.05
cis-1,2-Dichloroethylene	0.169		0.050	ug/g	24-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	24-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	24-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	24-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	24-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	24-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	28-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	24-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	24-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	24-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	24-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	24-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	24-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	24-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	24-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	24-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	24-NOV-17	0.05
Trichloroethylene	25.8	DLHC	0.080	ug/g	27-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	24-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	24-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	24-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	24-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	28-NOV-17	25
Surrogate: 4-Bromofluorobenzene	92.1		50-140	%	24-NOV-17	
Surrogate: 1,4-Difluorobenzene	97.9		50-140	%	24-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2025639-20 BH118(16-18)									
Sampled By: SDB on 21-NOV-17 @ 14:40									
Matrix: SOIL						#1			
Physical Tests									
% Moisture	19.5		0.10	%	27-NOV-17				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	27-NOV-17	65			
F2 (C10-C16)	<10		10	ug/g	29-NOV-17	150			
F3 (C16-C34)	<50		50	ug/g	29-NOV-17	1300			
F4 (C34-C50)	<50		50	ug/g	29-NOV-17	5600			
Total Hydrocarbons (C6-C50)	<72		72	ug/g	29-NOV-17				
Chrom. to baseline at nC50	YES			No Unit	29-NOV-17				
Surrogate: 2-Bromobenzotrifluoride	80.5		60-140	%	29-NOV-17				
Surrogate: 3,4-Dichlorotoluene	83.6		60-140	%	27-NOV-17				
L2025639-21 BH118(19-20)									
Sampled By: SDB on 21-NOV-17 @ 14:50									
Matrix: SOIL						#1			
Physical Tests									
% Moisture	9.11		0.10	%	04-DEC-17				
Volatile Organic Compounds									
Acetone	<0.50		0.50	ug/g	05-DEC-17	28			
Benzene	<0.0068		0.0068	ug/g	05-DEC-17	0.17			
Bromodichloromethane	<0.050		0.050	ug/g	05-DEC-17	1.9			
Bromoform	<0.050		0.050	ug/g	05-DEC-17	0.26			
Bromomethane	<0.050		0.050	ug/g	05-DEC-17	0.05			
Carbon tetrachloride	<0.050		0.050	ug/g	05-DEC-17	0.12			
Chlorobenzene	<0.050		0.050	ug/g	05-DEC-17	2.7			
Dibromochloromethane	<0.050		0.050	ug/g	05-DEC-17	2.9			
Chloroform	<0.050		0.050	ug/g	05-DEC-17	0.18			
1,2-Dibromoethane	<0.050		0.050	ug/g	05-DEC-17	0.05			
1,2-Dichlorobenzene	<0.050		0.050	ug/g	05-DEC-17	1.7			
1,3-Dichlorobenzene	<0.050		0.050	ug/g	05-DEC-17	6			
1,4-Dichlorobenzene	<0.050		0.050	ug/g	05-DEC-17	0.097			
Dichlorodifluoromethane	<0.050		0.050	ug/g	05-DEC-17	25			
1,1-Dichloroethane	<0.050		0.050	ug/g	05-DEC-17	0.6			
1,2-Dichloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05			
1,1-Dichloroethylene	<0.050		0.050	ug/g	05-DEC-17	0.05			
cis-1,2-Dichloroethylene	0.121		0.050	ug/g	05-DEC-17	2.5			
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-DEC-17	0.75			
Methylene Chloride	<0.050		0.050	ug/g	05-DEC-17	0.96			
1,2-Dichloropropane	<0.050		0.050	ug/g	05-DEC-17	0.085			
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	05-DEC-17				
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	05-DEC-17				
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	05-DEC-17	0.081			
Ethylbenzene	<0.018		0.018	ug/g	05-DEC-17	1.6			
n-Hexane	<0.050		0.050	ug/g	05-DEC-17	34			
Methyl Ethyl Ketone	<0.50		0.50	ug/g	05-DEC-17	44			
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	05-DEC-17	4.3			
MTBE	<0.050		0.050	ug/g	05-DEC-17	1.4			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1			
L2025639-21 BH118(19-20)									
Sampled By: SDB on 21-NOV-17 @ 14:50									
Matrix: SOIL									
Volatile Organic Compounds									
Styrene	<0.050		0.050	ug/g	05-DEC-17	2.2			
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05			
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05			
Tetrachloroethylene	<0.050		0.050	ug/g	05-DEC-17	2.3			
Toluene	<0.080		0.080	ug/g	05-DEC-17	6			
1,1,1-Trichloroethane	<0.050		0.050	ug/g	05-DEC-17	3.4			
1,1,2-Trichloroethane	<0.050		0.050	ug/g	05-DEC-17	0.05			
Trichloroethylene	8.10		0.010	ug/g	05-DEC-17	*0.52			
Trichlorofluoromethane	<0.050		0.050	ug/g	05-DEC-17	5.8			
Vinyl chloride	<0.020		0.020	ug/g	05-DEC-17	0.022			
o-Xylene	<0.020		0.020	ug/g	05-DEC-17				
m+p-Xylenes	<0.030		0.030	ug/g	05-DEC-17				
Xylenes (Total)	<0.050		0.050	ug/g	05-DEC-17	25			
Surrogate: 4-Bromofluorobenzene	107.5		50-140	%	05-DEC-17				
Surrogate: 1,4-Difluorobenzene	108.2		50-140	%	05-DEC-17				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
B-HWS-R511-WT	Soil	Boron-HWE-O.Reg 153/04 (July 2011)	HW EXTR, EPA 6010B

A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CN-WAD-R511-WT	Soil	Cyanide (WAD)-O.Reg 153/04 (July 2011)	MOE 3015/APHA 4500CN I-WAD

The sample is extracted with a strong base for 16 hours, and then filtered. The filtrate is then distilled where the cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-WT	Soil	Hexavalent Chromium in Soil	SW846 3060A/7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-WT	Soil	Conductivity (EC)	MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

F1-F4-511-CALC-WT	Soil	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-S

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Soil	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

Reference Information

F2-F4-511-WT Soil F2-F4-O.Reg 153/04 (July 2011) CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:
1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
4. F4G: Gravimetric Heavy Hydrocarbons
5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
8. This method is validated for use.
9. Data from analysis of validation and quality control samples is available upon request.
10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

HG-200.2-CVAA-WT Soil Mercury in Soil by CVAAS EPA 200.2/1631E (mod)

Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-200.2-CCMS-WT Soil Metals in Soil by CRC ICPMS EPA 200.2/6020A (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT Soil ABN-Calculated Parameters SW846 8270

MOISTURE-WT Soil % Moisture CCME PHC in Soil - Tier 1 (mod)

PAH-511-WT Soil PAH-O.Reg 153/04 (July 2011) SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking techniqueis used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PCB-511-WT Soil PCB-O.Reg 153/04 (July 2011) SW846 3510/8082

An aliquot of a solid sample is extracted with a solvent, extract is cleaned up and analyzed on the GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

PH-WT Soil pH MOEE E3137A

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

Reference Information

SAR-R511-WT	Soil	SAR-O.Reg 153/04 (July 2011)	SW846 6010C

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

VOC-1,3-DCP-CALC-WT	Soil	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Soil	VOC-O.Reg 153/04 (July 2011)	SW846 8260 (511)

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

17-617275 17-617276

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2025639 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT	**Soil**							
Batch R3898156								
WG2673642-4 DUP		**L2027067-1**						
Boron (B), Hot Water Ext.		0.12	0.13		ug/g	4.5	30	29-NOV-17
WG2673642-2 IRM		**HOTB-SAL_SOIL5**						
Boron (B), Hot Water Ext.			111.2		%		70-130	29-NOV-17
WG2673642-3 LCS								
Boron (B), Hot Water Ext.			110.5		%		70-130	29-NOV-17
WG2673642-1 MB								
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	29-NOV-17
CN-WAD-R511-WT	**Soil**							
Batch R3907368								
WG2678511-3 DUP		**L2031125-2**						
Cyanide, Weak Acid Diss		<0.050	<0.050	RPD-NA	ug/g	N/A	35	08-DEC-17
WG2678511-2 LCS								
Cyanide, Weak Acid Diss			93.5		%		80-120	08-DEC-17
WG2678511-1 MB								
Cyanide, Weak Acid Diss			<0.050		ug/g		0.05	08-DEC-17
WG2678511-4 MS		**L2031125-2**						
Cyanide, Weak Acid Diss			95.1		%		70-130	08-DEC-17
CR-CR6-IC-WT	**Soil**							
Batch R3898690								
WG2671973-3 CRM		**WT-SQC012**						
Chromium, Hexavalent			89.9		%		70-130	29-NOV-17
WG2671973-4 DUP		**L2026323-7**						
Chromium, Hexavalent		0.46	0.65		ug/g	33	35	29-NOV-17
WG2671973-2 LCS								
Chromium, Hexavalent			98.2		%		80-120	29-NOV-17
WG2671973-1 MB								
Chromium, Hexavalent			<0.20		ug/g		0.2	29-NOV-17
EC-WT	**Soil**							
Batch R3914033								
WG2684831-4 DUP		**WG2684831-3**						
Conductivity		0.105	0.105		mS/cm	0.2	20	15-DEC-17
WG2685061-1 LCS								
Conductivity			100.1		%		90-110	15-DEC-17
WG2684831-1 MB								
Conductivity			<0.0040		mS/cm		0.004	15-DEC-17
F1-HS-511-WT	**Soil**							

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Soil**							
Batch R3894178								
WG2669753-4 DUP		**WG2669753-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	24-NOV-17
WG2669753-2 LCS								
F1 (C6-C10)			98.3		%		80-120	24-NOV-17
WG2669753-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	24-NOV-17
Surrogate: 3,4-Dichlorotoluene			87.2		%		60-140	24-NOV-17
WG2669753-7 MS		**WG2669753-6**						
F1 (C6-C10)			87.2		%		60-140	27-NOV-17
F2-F4-511-WT	**Soil**							
Batch R3898071								
WG2671627-4 DUP		**WG2671627-3**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	29-NOV-17
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	29-NOV-17
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	29-NOV-17
WG2671627-2 LCS								
F2 (C10-C16)			104.7		%		80-120	29-NOV-17
F3 (C16-C34)			111.7		%		80-120	29-NOV-17
F4 (C34-C50)			103.8		%		80-120	29-NOV-17
WG2671627-1 MB								
F2 (C10-C16)			<10		ug/g		10	29-NOV-17
F3 (C16-C34)			<50		ug/g		50	29-NOV-17
F4 (C34-C50)			<50		ug/g		50	29-NOV-17
Surrogate: 2-Bromobenzotrifluoride			84.4		%		60-140	29-NOV-17
WG2671627-5 MS		**WG2671627-3**						
F2 (C10-C16)			93.9		%		60-140	29-NOV-17
F3 (C16-C34)			100.9		%		60-140	29-NOV-17
F4 (C34-C50)			95.9		%		60-140	29-NOV-17
HG-200.2-CVAA-WT	**Soil**							
Batch R3897996								
WG2673614-2 CRM		**WT-CANMET-TILL1**						
Mercury (Hg)			92.3		%		70-130	29-NOV-17
WG2673614-6 DUP		**WG2673614-5**						
Mercury (Hg)		0.0142	0.0142		ug/g	0.0	40	29-NOV-17
WG2673614-3 LCS								
Mercury (Hg)			107.0		%		80-120	29-NOV-17
WG2673614-1 MB								

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-200.2-CVAA-WT	**Soil**							
Batch R3897996								
WG2673614-1 MB								
Mercury (Hg)			<0.0050		mg/kg		0.005	29-NOV-17
MET-200.2-CCMS-WT	**Soil**							
Batch R3898122								
WG2673614-2 CRM		**WT-CANMET-TILL1**						
Antimony (Sb)			95.3		%		70-130	29-NOV-17
Arsenic (As)			100.2		%		70-130	29-NOV-17
Barium (Ba)			107.2		%		70-130	29-NOV-17
Beryllium (Be)			91.9		%		70-130	29-NOV-17
Boron (B)			3.3		mg/kg		0-8.2	29-NOV-17
Cadmium (Cd)			98.1		%		70-130	29-NOV-17
Chromium (Cr)			94.3		%		70-130	29-NOV-17
Cobalt (Co)			94.8		%		70-130	29-NOV-17
Copper (Cu)			97.9		%		70-130	29-NOV-17
Lead (Pb)			94.4		%		70-130	29-NOV-17
Molybdenum (Mo)			99.4		%		70-130	29-NOV-17
Nickel (Ni)			96.9		%		70-130	29-NOV-17
Selenium (Se)			0.28		mg/kg		0.11-0.51	29-NOV-17
Silver (Ag)			0.23		mg/kg		0.13-0.33	29-NOV-17
Thallium (Tl)			0.110		mg/kg		0.077-0.18	29-NOV-17
Uranium (U)			89.8		%		70-130	29-NOV-17
Vanadium (V)			95.4		%		70-130	29-NOV-17
Zinc (Zn)			93.2		%		70-130	29-NOV-17
WG2673614-6 DUP		**WG2673614-5**						
Antimony (Sb)		0.23	0.24		ug/g	3.6	30	29-NOV-17
Arsenic (As)		6.81	7.03		ug/g	3.2	30	29-NOV-17
Barium (Ba)		145	155		ug/g	6.2	40	29-NOV-17
Beryllium (Be)		0.55	0.65		ug/g	16	30	29-NOV-17
Boron (B)		9.2	11.0		ug/g	18	30	29-NOV-17
Cadmium (Cd)		0.134	0.143		ug/g	6.5	30	29-NOV-17
Chromium (Cr)		18.9	19.5		ug/g	3.2	30	29-NOV-17
Cobalt (Co)		11.2	11.4		ug/g	1.5	30	29-NOV-17
Copper (Cu)		72.8	73.4		ug/g	0.8	30	29-NOV-17
Lead (Pb)		10.0	10.7		ug/g	6.0	40	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R3898122								
WG2673614-6 DUP		**WG2673614-5**						
Molybdenum (Mo)		0.59	0.61		ug/g	4.6	40	29-NOV-17
Nickel (Ni)		24.5	25.0		ug/g	1.8	30	29-NOV-17
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	29-NOV-17
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	29-NOV-17
Thallium (Tl)		0.109	0.113		ug/g	4.0	30	29-NOV-17
Uranium (U)		0.472	0.514		ug/g	8.5	30	29-NOV-17
Vanadium (V)		27.4	28.4		ug/g	3.5	30	29-NOV-17
Zinc (Zn)		58.8	59.4		ug/g	0.9	30	29-NOV-17
WG2673614-4 LCS								
Antimony (Sb)			104.6		%		80-120	29-NOV-17
Arsenic (As)			103.1		%		80-120	29-NOV-17
Barium (Ba)			110.7		%		80-120	29-NOV-17
Beryllium (Be)			94.8		%		80-120	29-NOV-17
Boron (B)			95.5		%		80-120	29-NOV-17
Cadmium (Cd)			101.3		%		80-120	29-NOV-17
Chromium (Cr)			102.2		%		80-120	29-NOV-17
Cobalt (Co)			98.2		%		80-120	29-NOV-17
Copper (Cu)			99.5		%		80-120	29-NOV-17
Lead (Pb)			100.1		%		80-120	29-NOV-17
Molybdenum (Mo)			103.8		%		80-120	29-NOV-17
Nickel (Ni)			100.8		%		80-120	29-NOV-17
Selenium (Se)			99.1		%		80-120	29-NOV-17
Silver (Ag)			101.3		%		80-120	29-NOV-17
Thallium (Tl)			95.4		%		80-120	29-NOV-17
Uranium (U)			94.2		%		80-120	29-NOV-17
Vanadium (V)			105.2		%		80-120	29-NOV-17
Zinc (Zn)			93.3		%		80-120	29-NOV-17
WG2673614-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	29-NOV-17
Arsenic (As)			<0.10		mg/kg		0.1	29-NOV-17
Barium (Ba)			<0.50		mg/kg		0.5	29-NOV-17
Beryllium (Be)			<0.10		mg/kg		0.1	29-NOV-17
Boron (B)			<5.0		mg/kg		5	29-NOV-17
Cadmium (Cd)			<0.020		mg/kg		0.02	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R3898122								
WG2673614-1 MB								
Chromium (Cr)			<0.50		mg/kg		0.5	29-NOV-17
Cobalt (Co)			<0.10		mg/kg		0.1	29-NOV-17
Copper (Cu)			<0.50		mg/kg		0.5	29-NOV-17
Lead (Pb)			<0.50		mg/kg		0.5	29-NOV-17
Molybdenum (Mo)			<0.10		mg/kg		0.1	29-NOV-17
Nickel (Ni)			<0.50		mg/kg		0.5	29-NOV-17
Selenium (Se)			<0.20		mg/kg		0.2	29-NOV-17
Silver (Ag)			<0.10		mg/kg		0.1	29-NOV-17
Thallium (Tl)			<0.050		mg/kg		0.05	29-NOV-17
Uranium (U)			<0.050		mg/kg		0.05	29-NOV-17
Vanadium (V)			<0.20		mg/kg		0.2	29-NOV-17
Zinc (Zn)			<2.0		mg/kg		2	29-NOV-17
MOISTURE-WT	**Soil**							
Batch R3896845								
WG2672315-3 DUP		**L2025523-2**						
% Moisture		4.14	4.31		%	4.0	20	27-NOV-17
WG2672315-2 LCS								
% Moisture			99.1		%		90-110	27-NOV-17
WG2672315-1 MB								
% Moisture			<0.10		%		0.1	27-NOV-17
Batch R3896848								
WG2672175-3 DUP		**L2025639-16**						
% Moisture		12.5	12.4		%	1.6	20	27-NOV-17
WG2672175-2 LCS								
% Moisture			100.2		%		90-110	27-NOV-17
WG2672175-1 MB								
% Moisture			<0.10		%		0.1	27-NOV-17
Batch R3903853								
WG2677376-3 DUP		**L2029551-1**						
% Moisture		10.7	11.2		%	4.9	20	04-DEC-17
WG2677376-2 LCS								
% Moisture			100.0		%		90-110	04-DEC-17
WG2677376-1 MB								
% Moisture			<0.10		%		0.1	04-DEC-17
PAH-511-WT	**Soil**							

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R3897090								
WG2671095-4 DUP		**WG2671095-3**						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	28-NOV-17
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	28-NOV-17
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Benzo(b)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Dibenzo(ah)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Naphthalene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Phenanthrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-NOV-17
WG2671095-2 LCS								
1-Methylnaphthalene			94.8		%		50-140	28-NOV-17
2-Methylnaphthalene			94.8		%		50-140	28-NOV-17
Acenaphthene			95.6		%		50-140	28-NOV-17
Acenaphthylene			94.2		%		50-140	28-NOV-17
Anthracene			91.6		%		50-140	28-NOV-17
Benzo(a)anthracene			100.2		%		50-140	28-NOV-17
Benzo(a)pyrene			94.4		%		50-140	28-NOV-17
Benzo(b)fluoranthene			95.8		%		50-140	28-NOV-17
Benzo(g,h,i)perylene			90.2		%		50-140	28-NOV-17
Benzo(k)fluoranthene			94.7		%		50-140	28-NOV-17
Chrysene			98.8		%		50-140	28-NOV-17
Dibenzo(ah)anthracene			93.4		%		50-140	28-NOV-17
Fluoranthene			94.9		%		50-140	28-NOV-17
Fluorene			92.2		%		50-140	28-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R3897090								
WG2671095-2 LCS								
Indeno(1,2,3-cd)pyrene			98.0		%		50-140	28-NOV-17
Naphthalene			93.9		%		50-140	28-NOV-17
Phenanthrene			93.6		%		50-140	28-NOV-17
Pyrene			93.8		%		50-140	28-NOV-17
WG2671095-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	28-NOV-17
2-Methylnaphthalene			<0.030		ug/g		0.03	28-NOV-17
Acenaphthene			<0.050		ug/g		0.05	28-NOV-17
Acenaphthylene			<0.050		ug/g		0.05	28-NOV-17
Anthracene			<0.050		ug/g		0.05	28-NOV-17
Benzo(a)anthracene			<0.050		ug/g		0.05	28-NOV-17
Benzo(a)pyrene			<0.050		ug/g		0.05	28-NOV-17
Benzo(b)fluoranthene			<0.050		ug/g		0.05	28-NOV-17
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	28-NOV-17
Benzo(k)fluoranthene			<0.050		ug/g		0.05	28-NOV-17
Chrysene			<0.050		ug/g		0.05	28-NOV-17
Dibenzo(ah)anthracene			<0.050		ug/g		0.05	28-NOV-17
Fluoranthene			<0.050		ug/g		0.05	28-NOV-17
Fluorene			<0.050		ug/g		0.05	28-NOV-17
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	28-NOV-17
Naphthalene			<0.050		ug/g		0.05	28-NOV-17
Phenanthrene			<0.050		ug/g		0.05	28-NOV-17
Pyrene			<0.050		ug/g		0.05	28-NOV-17
Surrogate: 2-Fluorobiphenyl			83.3		%		50-140	28-NOV-17
Surrogate: p-Terphenyl d14			78.1		%		50-140	28-NOV-17
WG2671095-5 MS		**WG2671095-3**						
1-Methylnaphthalene			99.9		%		50-140	28-NOV-17
2-Methylnaphthalene			99.7		%		50-140	28-NOV-17
Acenaphthene			101.9		%		50-140	28-NOV-17
Acenaphthylene			98.8		%		50-140	28-NOV-17
Anthracene			95.3		%		50-140	28-NOV-17
Benzo(a)anthracene			107.7		%		50-140	28-NOV-17
Benzo(a)pyrene			98.3		%		50-140	28-NOV-17
Benzo(b)fluoranthene			101.5		%		50-140	28-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R3897090								
WG2671095-5 MS		**WG2671095-3**						
Benzo(g,h,i)perylene			88.0		%		50-140	28-NOV-17
Benzo(k)fluoranthene			98.9		%		50-140	28-NOV-17
Chrysene			102.2		%		50-140	28-NOV-17
Dibenzo(ah)anthracene			93.0		%		50-140	28-NOV-17
Fluoranthene			101.7		%		50-140	28-NOV-17
Fluorene			98.4		%		50-140	28-NOV-17
Indeno(1,2,3-cd)pyrene			100.8		%		50-140	28-NOV-17
Naphthalene			97.9		%		50-140	28-NOV-17
Phenanthrene			98.7		%		50-140	28-NOV-17
Pyrene			99.8		%		50-140	28-NOV-17
PCB-511-WT	**Soil**							
Batch R3896862								
WG2671369-4 DUP		**WG2671369-3**						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	27-NOV-17
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	27-NOV-17
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	27-NOV-17
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	27-NOV-17
WG2671369-2 LCS								
Aroclor 1242			94.0		%		60-140	27-NOV-17
Aroclor 1248			93.2		%		60-140	27-NOV-17
Aroclor 1254			104.0		%		60-140	27-NOV-17
Aroclor 1260			125.1		%		60-140	27-NOV-17
WG2671369-1 MB								
Aroclor 1242			<0.010		ug/g		0.01	27-NOV-17
Aroclor 1248			<0.010		ug/g		0.01	27-NOV-17
Aroclor 1254			<0.010		ug/g		0.01	27-NOV-17
Aroclor 1260			<0.010		ug/g		0.01	27-NOV-17
Surrogate: d14-Terphenyl			105.4		%		60-140	27-NOV-17
WG2671369-5 MS		**WG2671369-3**						
Aroclor 1242			102.0		%		60-140	27-NOV-17
Aroclor 1254			107.4		%		60-140	27-NOV-17
Aroclor 1260			124.3		%		60-140	27-NOV-17
PH-WT	**Soil**							

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WT	**Soil**							
Batch R3907895								
WG2680512-1 DUP		**L2031745-3**						
pH		7.77	7.77	J	pH units	0.00	0.3	09-DEC-17
WG2680672-1 LCS								
pH			6.99		pH units		6.9-7.1	09-DEC-17
SAR-R511-WT	**Soil**							
Batch R3914117								
WG2684831-4 DUP		**WG2684831-3**						
Calcium (Ca)		1.6	1.6		mg/L	2.1	30	15-DEC-17
Sodium (Na)		3.9	4.1		mg/L	4.6	30	15-DEC-17
Magnesium (Mg)		<1.0	<1.0	RPD-NA	mg/L	N/A	30	15-DEC-17
WG2684831-2 IRM		**WT SAR1**						
Calcium (Ca)			81.6		%		70-130	15-DEC-17
Sodium (Na)			91.6		%		70-130	15-DEC-17
Magnesium (Mg)			89.2		%		70-130	15-DEC-17
WG2684831-1 MB								
Calcium (Ca)			<1.0		mg/L		1	15-DEC-17
Sodium (Na)			<1.0		mg/L		1	15-DEC-17
Magnesium (Mg)			<1.0		mg/L		1	15-DEC-17
VOC-511-HS-WT	**Soil**							
Batch R3894153								
WG2669779-4 DUP		**WG2669779-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	24-NOV-17
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	24-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3894153								
WG2669779-4 DUP		**WG2669779-3**						
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
cis-1,2-Dichloroethylene		0.227	0.227		ug/g	0.2	40	24-NOV-17
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	24-NOV-17
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	24-NOV-17
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	24-NOV-17
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	24-NOV-17
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	24-NOV-17
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-NOV-17
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	24-NOV-17
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	24-NOV-17
Trichloroethylene		36.1	38.4		ug/g	6.2	40	27-NOV-17
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-NOV-17
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-NOV-17
WG2669779-2 LCS								
1,1,1,2-Tetrachloroethane			97.3		%		60-130	24-NOV-17
1,1,2,2-Tetrachloroethane			100.2		%		60-130	24-NOV-17
1,1,1-Trichloroethane			99.0		%		60-130	24-NOV-17
1,1,2-Trichloroethane			105.9		%		60-130	24-NOV-17
1,1-Dichloroethane			101.7		%		60-130	24-NOV-17
1,1-Dichloroethylene			90.7		%		60-130	24-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3894153								
WG2669779-2 LCS								
1,2-Dibromoethane			107.9		%		70-130	24-NOV-17
1,2-Dichlorobenzene			102.3		%		70-130	24-NOV-17
1,2-Dichloroethane			111.2		%		60-130	24-NOV-17
1,2-Dichloropropane			104.8		%		70-130	24-NOV-17
1,3-Dichlorobenzene			100.7		%		70-130	24-NOV-17
1,4-Dichlorobenzene			103.6		%		70-130	24-NOV-17
Acetone			131.1		%		60-140	24-NOV-17
Benzene			103.1		%		70-130	24-NOV-17
Bromodichloromethane			103.5		%		50-140	24-NOV-17
Bromoform			100.1		%		70-130	24-NOV-17
Bromomethane			99.5		%		50-140	24-NOV-17
Carbon tetrachloride			96.8		%		70-130	24-NOV-17
Chlorobenzene			100.9		%		70-130	24-NOV-17
Chloroform			104.5		%		70-130	24-NOV-17
cis-1,2-Dichloroethylene			103.7		%		70-130	24-NOV-17
cis-1,3-Dichloropropene			104.4		%		70-130	24-NOV-17
Dibromochloromethane			105.9		%		60-130	24-NOV-17
Dichlorodifluoromethane			58.1		%		50-140	24-NOV-17
Ethylbenzene			89.6		%		70-130	24-NOV-17
n-Hexane			74.9		%		70-130	24-NOV-17
Methylene Chloride			108.4		%		70-130	24-NOV-17
MTBE			99.5		%		70-130	24-NOV-17
m+p-Xylenes			95.6		%		70-130	24-NOV-17
Methyl Ethyl Ketone			125.1		%		60-140	24-NOV-17
Methyl Isobutyl Ketone			117.4		%		60-140	24-NOV-17
o-Xylene			95.4		%		70-130	24-NOV-17
Styrene			95.6		%		70-130	24-NOV-17
Tetrachloroethylene			95.9		%		60-130	24-NOV-17
Toluene			94.4		%		70-130	24-NOV-17
trans-1,2-Dichloroethylene			101.6		%		60-130	24-NOV-17
trans-1,3-Dichloropropene			100.6		%		70-130	24-NOV-17
Trichloroethylene			100.9		%		60-130	24-NOV-17
Trichlorofluoromethane			96.8		%		50-140	24-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3894153								
WG2669779-2 LCS								
Vinyl chloride			90.2		%		60-140	24-NOV-17
WG2669779-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	24-NOV-17
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	24-NOV-17
1,1,1-Trichloroethane			<0.050		ug/g		0.05	24-NOV-17
1,1,2-Trichloroethane			<0.050		ug/g		0.05	24-NOV-17
1,1-Dichloroethane			<0.050		ug/g		0.05	24-NOV-17
1,1-Dichloroethylene			<0.050		ug/g		0.05	24-NOV-17
1,2-Dibromoethane			<0.050		ug/g		0.05	24-NOV-17
1,2-Dichlorobenzene			<0.050		ug/g		0.05	24-NOV-17
1,2-Dichloroethane			<0.050		ug/g		0.05	24-NOV-17
1,2-Dichloropropane			<0.050		ug/g		0.05	24-NOV-17
1,3-Dichlorobenzene			<0.050		ug/g		0.05	24-NOV-17
1,4-Dichlorobenzene			<0.050		ug/g		0.05	24-NOV-17
Acetone			<0.50		ug/g		0.5	24-NOV-17
Benzene			<0.0068		ug/g		0.0068	24-NOV-17
Bromodichloromethane			<0.050		ug/g		0.05	24-NOV-17
Bromoform			<0.050		ug/g		0.05	24-NOV-17
Bromomethane			<0.050		ug/g		0.05	24-NOV-17
Carbon tetrachloride			<0.050		ug/g		0.05	24-NOV-17
Chlorobenzene			<0.050		ug/g		0.05	24-NOV-17
Chloroform			<0.050		ug/g		0.05	24-NOV-17
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	24-NOV-17
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	24-NOV-17
Dibromochloromethane			<0.050		ug/g		0.05	24-NOV-17
Dichlorodifluoromethane			<0.050		ug/g		0.05	24-NOV-17
Ethylbenzene			<0.018		ug/g		0.018	24-NOV-17
n-Hexane			<0.050		ug/g		0.05	24-NOV-17
Methylene Chloride			<0.050		ug/g		0.05	24-NOV-17
MTBE			<0.050		ug/g		0.05	24-NOV-17
m+p-Xylenes			<0.030		ug/g		0.03	24-NOV-17
Methyl Ethyl Ketone			<0.50		ug/g		0.5	24-NOV-17
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	24-NOV-17
o-Xylene			<0.020		ug/g		0.02	24-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3894153								
WG2669779-1 MB								
Styrene			<0.050		ug/g		0.05	24-NOV-17
Tetrachloroethylene			<0.050		ug/g		0.05	24-NOV-17
Toluene			<0.080		ug/g		0.08	24-NOV-17
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	24-NOV-17
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	24-NOV-17
Trichloroethylene			<0.010		ug/g		0.01	24-NOV-17
Trichlorofluoromethane			<0.050		ug/g		0.05	24-NOV-17
Vinyl chloride			<0.020		ug/g		0.02	24-NOV-17
Surrogate: 1,4-Difluorobenzene			100.0		%		50-140	24-NOV-17
Surrogate: 4-Bromofluorobenzene			93.9		%		50-140	24-NOV-17
WG2669779-5 MS		**WG2669779-3**						
1,1,1,2-Tetrachloroethane			98.4		%		50-140	24-NOV-17
1,1,2,2-Tetrachloroethane			100.4		%		50-140	24-NOV-17
1,1,1-Trichloroethane			100.5		%		50-140	24-NOV-17
1,1,2-Trichloroethane			104.0		%		50-140	24-NOV-17
1,1-Dichloroethane			102.2		%		50-140	24-NOV-17
1,1-Dichloroethylene			91.9		%		50-140	24-NOV-17
1,2-Dibromoethane			105.3		%		50-140	24-NOV-17
1,2-Dichlorobenzene			103.1		%		50-140	24-NOV-17
1,2-Dichloroethane			108.3		%		50-140	24-NOV-17
1,2-Dichloropropane			105.3		%		50-140	24-NOV-17
1,3-Dichlorobenzene			101.4		%		50-140	24-NOV-17
1,4-Dichlorobenzene			103.8		%		50-140	24-NOV-17
Acetone			122.2		%		50-140	24-NOV-17
Benzene			103.5		%		50-140	24-NOV-17
Bromodichloromethane			102.3		%		50-140	24-NOV-17
Bromoform			98.7		%		50-140	24-NOV-17
Bromomethane			98.4		%		50-140	24-NOV-17
Carbon tetrachloride			98.5		%		50-140	24-NOV-17
Chlorobenzene			101.9		%		50-140	24-NOV-17
Chloroform			104.5		%		50-140	24-NOV-17
cis-1,2-Dichloroethylene			102.8		%		50-140	24-NOV-17
cis-1,3-Dichloropropene			103.3		%		50-140	24-NOV-17
Dibromochloromethane			105.0		%		50-140	24-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3894153								
WG2669779-5 MS		**WG2669779-3**						
Dichlorodifluoromethane			58.2		%		50-140	24-NOV-17
Ethylbenzene			92.1		%		50-140	24-NOV-17
n-Hexane			77.5		%		50-140	24-NOV-17
Methylene Chloride			106.8		%		50-140	24-NOV-17
MTBE			100.6		%		50-140	24-NOV-17
m+p-Xylenes			97.8		%		50-140	24-NOV-17
Methyl Ethyl Ketone			115.9		%		50-140	24-NOV-17
Methyl Isobutyl Ketone			114.1		%		50-140	24-NOV-17
o-Xylene			97.5		%		50-140	24-NOV-17
Styrene			96.5		%		50-140	24-NOV-17
Tetrachloroethylene			98.1		%		50-140	24-NOV-17
Toluene			96.8		%		50-140	24-NOV-17
trans-1,2-Dichloroethylene			102.5		%		50-140	24-NOV-17
trans-1,3-Dichloropropene			99.4		%		50-140	24-NOV-17
Trichloroethylene			N/A	MS-B	%		-	24-NOV-17
Trichlorofluoromethane			98.9		%		50-140	24-NOV-17
Vinyl chloride			90.7		%		50-140	24-NOV-17
Batch R3905063								
WG2676849-4 DUP		**WG2676849-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	06-DEC-17
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	06-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3905063								
WG2676849-4 DUP		**WG2676849-3**						
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	06-DEC-17
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	06-DEC-17
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	06-DEC-17
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	06-DEC-17
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	06-DEC-17
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	06-DEC-17
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	06-DEC-17
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	06-DEC-17
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	06-DEC-17
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-DEC-17
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	06-DEC-17
WG2676849-2 LCS								
1,1,1,2-Tetrachloroethane			101.0		%		60-130	05-DEC-17
1,1,2,2-Tetrachloroethane			98.9		%		60-130	05-DEC-17
1,1,1-Trichloroethane			102.2		%		60-130	05-DEC-17
1,1,2-Trichloroethane			102.1		%		60-130	05-DEC-17
1,1-Dichloroethane			109.7		%		60-130	05-DEC-17
1,1-Dichloroethylene			89.0		%		60-130	05-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3905063								
WG2676849-2 LCS								
1,2-Dibromoethane			101.6		%		70-130	05-DEC-17
1,2-Dichlorobenzene			104.2		%		70-130	05-DEC-17
1,2-Dichloroethane			101.0		%		60-130	05-DEC-17
1,2-Dichloropropane			101.9		%		70-130	05-DEC-17
1,3-Dichlorobenzene			103.4		%		70-130	05-DEC-17
1,4-Dichlorobenzene			105.4		%		70-130	05-DEC-17
Acetone			108.5		%		60-140	05-DEC-17
Benzene			103.6		%		70-130	05-DEC-17
Bromodichloromethane			99.96		%		50-140	05-DEC-17
Bromoform			93.8		%		70-130	05-DEC-17
Bromomethane			93.7		%		50-140	05-DEC-17
Carbon tetrachloride			101.5		%		70-130	05-DEC-17
Chlorobenzene			104.1		%		70-130	05-DEC-17
Chloroform			104.7		%		70-130	05-DEC-17
cis-1,2-Dichloroethylene			107.0		%		70-130	05-DEC-17
cis-1,3-Dichloropropene			101.4		%		70-130	05-DEC-17
Dibromochloromethane			101.6		%		60-130	05-DEC-17
Dichlorodifluoromethane			49.8	MES	%		50-140	05-DEC-17
Ethylbenzene			98.3		%		70-130	05-DEC-17
n-Hexane			76.2		%		70-130	05-DEC-17
Methylene Chloride			110.3		%		70-130	05-DEC-17
MTBE			104.7		%		70-130	05-DEC-17
m+p-Xylenes			98.1		%		70-130	05-DEC-17
Methyl Ethyl Ketone			104.3		%		60-140	05-DEC-17
Methyl Isobutyl Ketone			94.8		%		60-140	05-DEC-17
o-Xylene			97.5		%		70-130	05-DEC-17
Styrene			97.5		%		70-130	05-DEC-17
Tetrachloroethylene			103.9		%		60-130	05-DEC-17
Toluene			100.7		%		70-130	05-DEC-17
trans-1,2-Dichloroethylene			101.9		%		60-130	05-DEC-17
trans-1,3-Dichloropropene			94.9		%		70-130	05-DEC-17
Trichloroethylene			109.7		%		60-130	05-DEC-17
Trichlorofluoromethane			95.1		%		50-140	05-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3905063								
WG2676849-2 LCS								
Vinyl chloride			81.6		%		60-140	05-DEC-17
WG2676849-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	05-DEC-17
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	05-DEC-17
1,1,1-Trichloroethane			<0.050		ug/g		0.05	05-DEC-17
1,1,2-Trichloroethane			<0.050		ug/g		0.05	05-DEC-17
1,1-Dichloroethane			<0.050		ug/g		0.05	05-DEC-17
1,1-Dichloroethylene			<0.050		ug/g		0.05	05-DEC-17
1,2-Dibromoethane			<0.050		ug/g		0.05	05-DEC-17
1,2-Dichlorobenzene			<0.050		ug/g		0.05	05-DEC-17
1,2-Dichloroethane			<0.050		ug/g		0.05	05-DEC-17
1,2-Dichloropropane			<0.050		ug/g		0.05	05-DEC-17
1,3-Dichlorobenzene			<0.050		ug/g		0.05	05-DEC-17
1,4-Dichlorobenzene			<0.050		ug/g		0.05	05-DEC-17
Acetone			<0.50		ug/g		0.5	05-DEC-17
Benzene			<0.0068		ug/g		0.0068	05-DEC-17
Bromodichloromethane			<0.050		ug/g		0.05	05-DEC-17
Bromoform			<0.050		ug/g		0.05	05-DEC-17
Bromomethane			<0.050		ug/g		0.05	05-DEC-17
Carbon tetrachloride			<0.050		ug/g		0.05	05-DEC-17
Chlorobenzene			<0.050		ug/g		0.05	05-DEC-17
Chloroform			<0.050		ug/g		0.05	05-DEC-17
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	05-DEC-17
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	05-DEC-17
Dibromochloromethane			<0.050		ug/g		0.05	05-DEC-17
Dichlorodifluoromethane			<0.050		ug/g		0.05	05-DEC-17
Ethylbenzene			<0.018		ug/g		0.018	05-DEC-17
n-Hexane			<0.050		ug/g		0.05	05-DEC-17
Methylene Chloride			<0.050		ug/g		0.05	05-DEC-17
MTBE			<0.050		ug/g		0.05	05-DEC-17
m+p-Xylenes			<0.030		ug/g		0.03	05-DEC-17
Methyl Ethyl Ketone			<0.50		ug/g		0.5	05-DEC-17
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	05-DEC-17
o-Xylene			<0.020		ug/g		0.02	05-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3905063								
WG2676849-1 MB								
Styrene			<0.050		ug/g		0.05	05-DEC-17
Tetrachloroethylene			<0.050		ug/g		0.05	05-DEC-17
Toluene			<0.080		ug/g		0.08	05-DEC-17
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	05-DEC-17
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	05-DEC-17
Trichloroethylene			<0.010		ug/g		0.01	05-DEC-17
Trichlorofluoromethane			<0.050		ug/g		0.05	05-DEC-17
Vinyl chloride			<0.020		ug/g		0.02	05-DEC-17
Surrogate: 1,4-Difluorobenzene			107.4		%		50-140	05-DEC-17
Surrogate: 4-Bromofluorobenzene			106.3		%		50-140	05-DEC-17
WG2676849-5 MS		**WG2676849-3**						
1,1,1,2-Tetrachloroethane			103.1		%		50-140	06-DEC-17
1,1,2,2-Tetrachloroethane			99.97		%		50-140	06-DEC-17
1,1,1-Trichloroethane			103.7		%		50-140	06-DEC-17
1,1,2-Trichloroethane			106.3		%		50-140	06-DEC-17
1,1-Dichloroethane			113.7		%		50-140	06-DEC-17
1,1-Dichloroethylene			91.0		%		50-140	06-DEC-17
1,2-Dibromoethane			106.2		%		50-140	06-DEC-17
1,2-Dichlorobenzene			107.0		%		50-140	06-DEC-17
1,2-Dichloroethane			105.3		%		50-140	06-DEC-17
1,2-Dichloropropane			104.7		%		50-140	06-DEC-17
1,3-Dichlorobenzene			104.8		%		50-140	06-DEC-17
1,4-Dichlorobenzene			106.8		%		50-140	06-DEC-17
Acetone			111.5		%		50-140	06-DEC-17
Benzene			105.5		%		50-140	06-DEC-17
Bromodichloromethane			102.1		%		50-140	06-DEC-17
Bromoform			95.8		%		50-140	06-DEC-17
Bromomethane			96.8		%		50-140	06-DEC-17
Carbon tetrachloride			103.1		%		50-140	06-DEC-17
Chlorobenzene			105.7		%		50-140	06-DEC-17
Chloroform			107.7		%		50-140	06-DEC-17
cis-1,2-Dichloroethylene			110.0		%		50-140	06-DEC-17
cis-1,3-Dichloropropene			99.7		%		50-140	06-DEC-17
Dibromochloromethane			104.4		%		50-140	06-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3905063								
WG2676849-5 MS		**WG2676849-3**						
Dichlorodifluoromethane			54.0		%		50-140	06-DEC-17
Ethylbenzene			99.2		%		50-140	06-DEC-17
n-Hexane			78.5		%		50-140	06-DEC-17
Methylene Chloride			114.3		%		50-140	06-DEC-17
MTBE			106.1		%		50-140	06-DEC-17
m+p-Xylenes			98.6		%		50-140	06-DEC-17
Methyl Ethyl Ketone			109.1		%		50-140	06-DEC-17
Methyl Isobutyl Ketone			93.6		%		50-140	06-DEC-17
o-Xylene			98.7		%		50-140	06-DEC-17
Styrene			98.0		%		50-140	06-DEC-17
Tetrachloroethylene			105.5		%		50-140	06-DEC-17
Toluene			102.7		%		50-140	06-DEC-17
trans-1,2-Dichloroethylene			102.2		%		50-140	06-DEC-17
trans-1,3-Dichloropropene			94.2		%		50-140	06-DEC-17
Trichloroethylene			110.7		%		50-140	06-DEC-17
Trichlorofluoromethane			98.3		%		50-140	06-DEC-17
Vinyl chloride			83.3		%		50-140	06-DEC-17

Quality Control Report

Workorder: L2025639 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2025639 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Cyanides							
Cyanide (WAD)-O.Reg 153/04 (July 2011)							
	10	21-NOV-17 11:00	06-DEC-17 12:00	14	15	days	EHT
	16	21-NOV-17 14:00	06-DEC-17 12:00	14	15	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2025639 were received on 21-NOV-17 16:55.

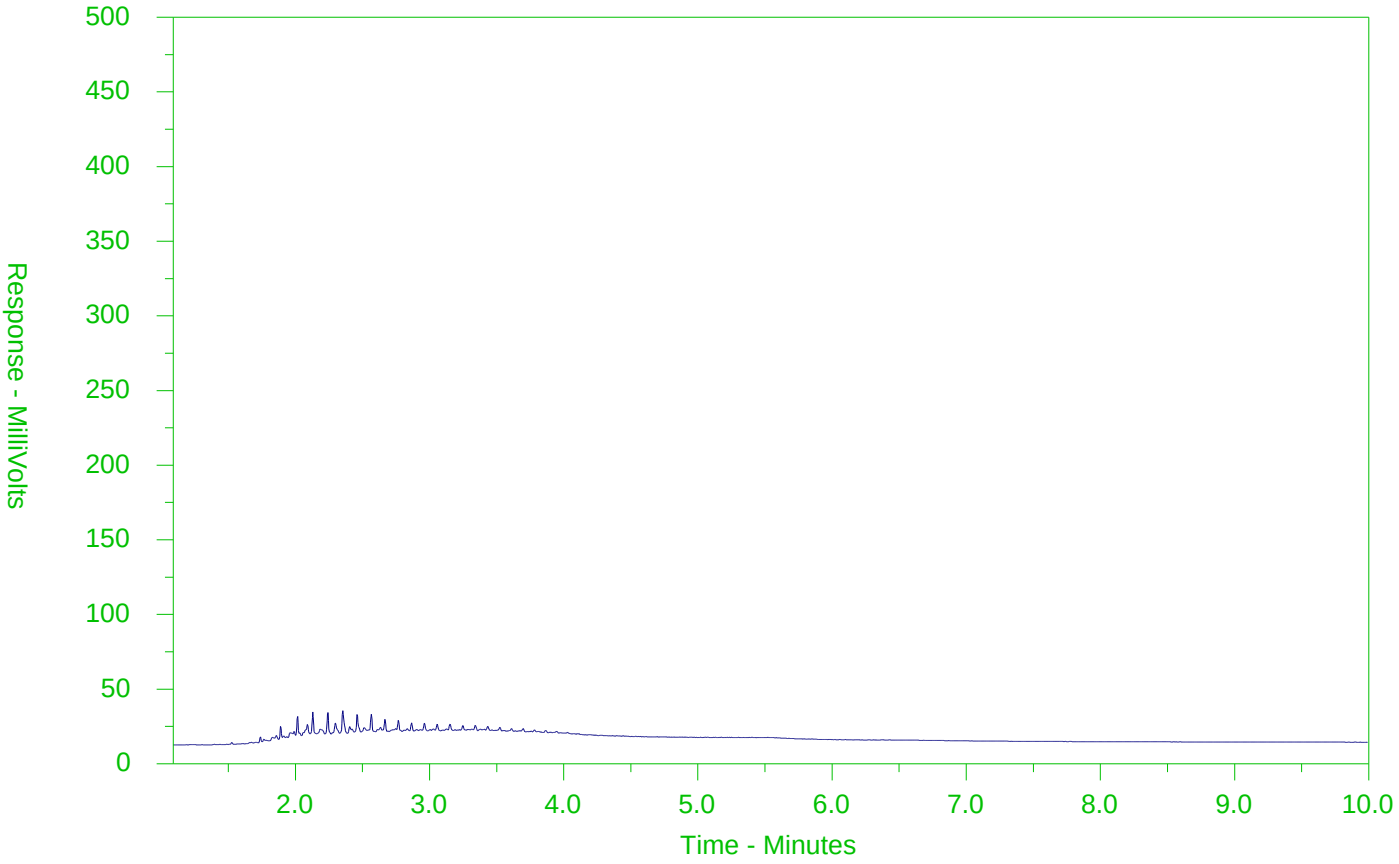
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2025639-13
Client Sample ID: BH112(10-12)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

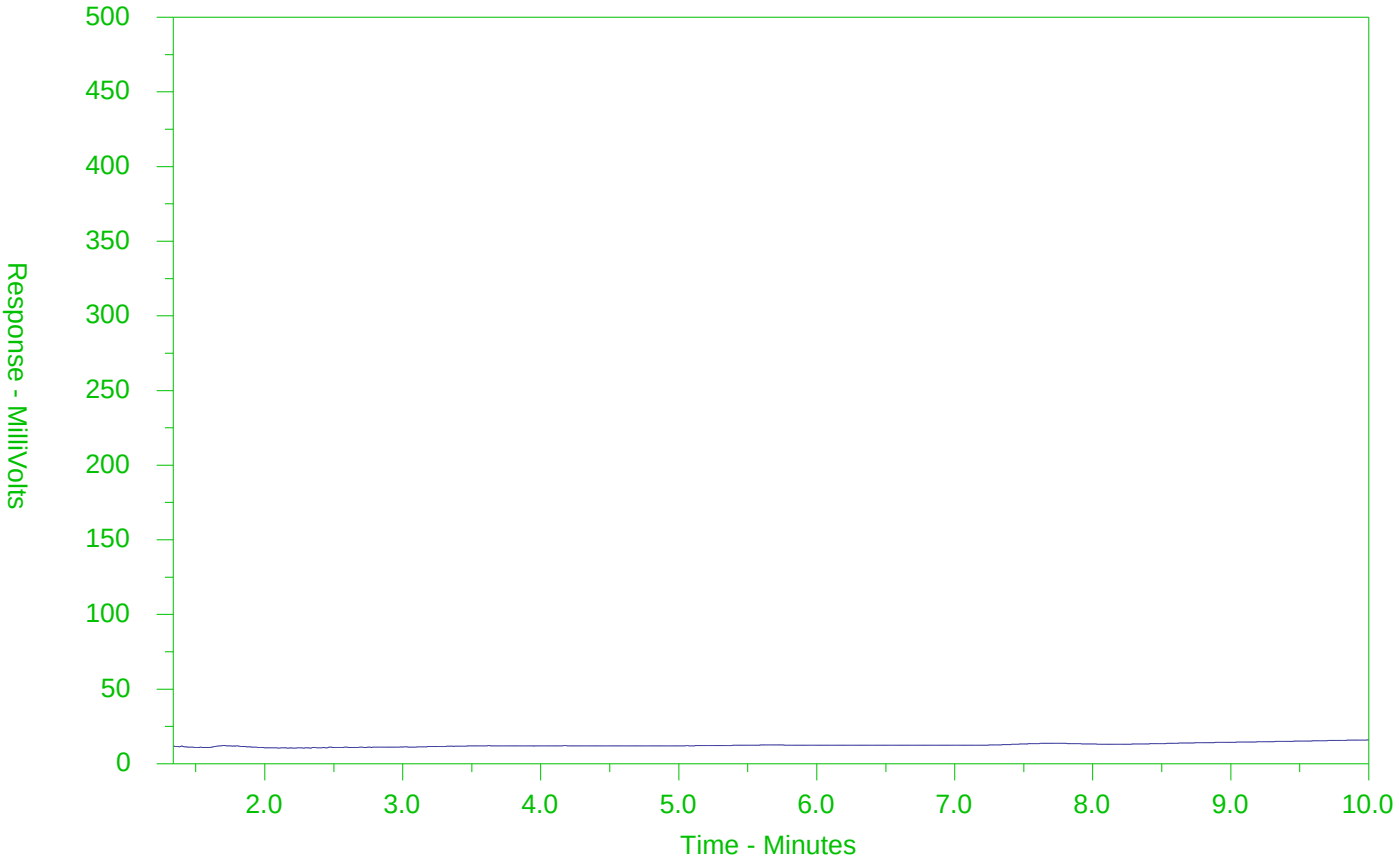
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2025639-20
Client Sample ID: BH118(16-18)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2025639-COFC

COC Number: 17 - 617276

Page 2 of 2

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:		Select Report Format: [X] PDF [ ] EXCEL [ ] EDD (DIGITAL)	Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:		Quality Control (QC) Report with Report [X] YES [ ] NO	PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]
Phone:		[X] Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E-100%] [ ]; Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] [ ]
	Company address below will appear on the final report	Select Distribution: [X] EMAIL [ ] MAIL [ ] FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:	SAME	Email 1 or Fax	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:		Email 2 SAME	
Postal Code:		Email 3	

Invoice To		Invoice Distribution	
	Same as Report To [X] YES [ ] NO	Select Invoice Distribution: [X] EMAIL [ ] MAIL [ ] FAX	
	Copy of Invoice with Report [ ] YES [X] NO	Email 1 or Fax	
Company:		Email 2	
Contact:			

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	389134-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (lab use only):

ALS Contact: MLP

Sampler: SDB

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Complete Metals	PAHs	PCBs	PHCs	VOCs										SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
								P													
13	BH112 (10-12)	21-11-17	11:20	S				X													3
14	BH112 (15-16)		11:30						X												3
15	BH112 (19-20)		11:40																X		3
16	BH118 (1-3)		14:00		X	X															2
17	BH118 (5-7)		14:10																X		4
18	BH118 (11-13)		14:20						X												3
19	BH1180 (11-13)		14:30						X												3
20	BH118 (16-18)		14:40					X													3
21	BH118 (19-20)		14:50																X		3

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	SAME
Are samples for human consumption/ use? [ ] YES [X] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	[ ]	SIF Observations	Yes [ ]	No	[ ]
Ice Packs	[X]	Ice Cubes [X]	Custody seal intact	Yes [ ]	No [ ]
Cooling Initiated	[X]				

INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C
5.6°C	

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: S. BUCK	Date: 11/21/17	Time: 16:55	Received by: AARON BURTON	Date: 21-Nov-2017	Time: 18:55	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

MTE CONSULTANTS INC. (Kitchener)
ATTN: Spencer Buck
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Date Received: 23-NOV-17
Report Date: 22-DEC-17 11:43 (MT)
Version: FINAL REV. 3

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2026572

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 17-617277, 17-617278
Legal Site Desc:

Comments: ADDITIONAL 18-DEC-17 08:56
ADDITIONAL 06-DEC-17 08:32

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2026572-1 BH101(1-3)						
Sampled By: SDB on 22-NOV-17 @ 14:00						
Matrix: SOIL						
Physical Tests						
Conductivity	0.184		0.0040	mS/cm	15-DEC-17	0.7
% Moisture	11.2		0.10	%	29-NOV-17	
pH	7.76		0.10	pH units	09-DEC-17	
Cyanides						
Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	08-DEC-17	0.051
Saturated Paste Extractables						
SAR	0.59	SAR:M	0.10	SAR	15-DEC-17	5
Calcium (Ca)	6.3		1.0	mg/L	15-DEC-17	
Magnesium (Mg)	<1.0		1.0	mg/L	15-DEC-17	
Sodium (Na)	5.4		1.0	mg/L	15-DEC-17	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	29-NOV-17	7.5
Arsenic (As)	8.1		1.0	ug/g	29-NOV-17	18
Barium (Ba)	149		1.0	ug/g	29-NOV-17	390
Beryllium (Be)	<0.50		0.50	ug/g	29-NOV-17	5
Boron (B)	9.4		5.0	ug/g	29-NOV-17	120
Boron (B), Hot Water Ext.	<0.10		0.10	ug/g	29-NOV-17	1.5
Cadmium (Cd)	<0.50		0.50	ug/g	29-NOV-17	1.2
Chromium (Cr)	16.5		1.0	ug/g	29-NOV-17	160
Cobalt (Co)	9.2		1.0	ug/g	29-NOV-17	22
Copper (Cu)	60.2		1.0	ug/g	29-NOV-17	180
Lead (Pb)	15.6		1.0	ug/g	29-NOV-17	120
Mercury (Hg)	0.0180		0.0050	ug/g	29-NOV-17	1.8
Molybdenum (Mo)	<1.0		1.0	ug/g	29-NOV-17	6.9
Nickel (Ni)	18.8		1.0	ug/g	29-NOV-17	130
Selenium (Se)	<1.0		1.0	ug/g	29-NOV-17	2.4
Silver (Ag)	<0.20		0.20	ug/g	29-NOV-17	25
Thallium (Tl)	<0.50		0.50	ug/g	29-NOV-17	1
Uranium (U)	<1.0		1.0	ug/g	29-NOV-17	23
Vanadium (V)	25.5		1.0	ug/g	29-NOV-17	86
Zinc (Zn)	65.0		5.0	ug/g	29-NOV-17	340
Speciated Metals						
Chromium, Hexavalent	<0.20		0.20	ug/g	28-NOV-17	10
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	01-DEC-17	29
Acenaphthylene	<0.050		0.050	ug/g	01-DEC-17	0.17
Anthracene	<0.050		0.050	ug/g	01-DEC-17	0.74
Benzo(a)anthracene	<0.050		0.050	ug/g	01-DEC-17	0.63
Benzo(a)pyrene	<0.050		0.050	ug/g	01-DEC-17	0.3
Benzo(b)fluoranthene	<0.050		0.050	ug/g	01-DEC-17	0.78
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	01-DEC-17	7.8
Benzo(k)fluoranthene	<0.050		0.050	ug/g	01-DEC-17	0.78
Chrysene	<0.050		0.050	ug/g	01-DEC-17	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	01-DEC-17	0.1
Fluoranthene	<0.050		0.050	ug/g	01-DEC-17	0.69

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2026572-1 BH101(1-3)						
Sampled By: SDB on 22-NOV-17 @ 14:00						
Matrix: SOIL						#1
Polycyclic Aromatic Hydrocarbons						
Fluorene	<0.050		0.050	ug/g	01-DEC-17	69
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	01-DEC-17	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	01-DEC-17	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	01-DEC-17	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	01-DEC-17	3.4
Naphthalene	<0.050		0.050	ug/g	01-DEC-17	0.75
Phenanthrene	<0.050		0.050	ug/g	01-DEC-17	7.8
Pyrene	<0.050		0.050	ug/g	01-DEC-17	78
Surrogate: 2-Fluorobiphenyl	89.0		50-140	%	01-DEC-17	
Surrogate: p-Terphenyl d14	88.4		50-140	%	01-DEC-17	
Polychlorinated Biphenyls						
Aroclor 1242	<0.010		0.010	ug/g	01-DEC-17	
Aroclor 1248	<0.010		0.010	ug/g	01-DEC-17	
Aroclor 1254	<0.010		0.010	ug/g	01-DEC-17	
Aroclor 1260	<0.010		0.010	ug/g	01-DEC-17	
Total PCBs	<0.020		0.020	ug/g	01-DEC-17	0.35
Surrogate: d14-Terphenyl	97.7		60-140	%	01-DEC-17	
L2026572-2 BH101(3-4)						
Sampled By: SDB on 22-NOV-17 @ 14:05						
Matrix: SOIL						#1
Physical Tests						
% Moisture	14.8		0.10	%	29-NOV-17	
Semi-Volatile Organics						
Biphenyl	<0.050		0.050	ug/g	29-NOV-17	1.1
4-Chloroaniline	<0.10		0.10	ug/g	29-NOV-17	0.53
Bis(2-chloroethyl)ether	<0.10		0.10	ug/g	29-NOV-17	0.5
Bis(2-chloroisopropyl)ether	<0.10		0.10	ug/g	29-NOV-17	1.8
3,3'-Dichlorobenzidine	<0.10		0.10	ug/g	29-NOV-17	1
Diethylphthalate	<0.10		0.10	ug/g	29-NOV-17	0.5
Dimethylphthalate	<0.10		0.10	ug/g	29-NOV-17	0.5
2,4-Dimethylphenol	<0.10		0.10	ug/g	29-NOV-17	53
2,4-Dinitrophenol	<1.0		1.0	ug/g	29-NOV-17	2.9
2,4-Dinitrotoluene	<0.10		0.10	ug/g	29-NOV-17	
2,6-Dinitrotoluene	<0.10		0.10	ug/g	29-NOV-17	
Bis(2-ethylhexyl)phthalate	<0.10		0.10	ug/g	29-NOV-17	5
Phenol	<0.10		0.10	ug/g	29-NOV-17	9.4
1,2,4-Trichlorobenzene	<0.050		0.050	ug/g	29-NOV-17	1.4
Surrogate: 2-Fluorobiphenyl	74.9		50-140	%	29-NOV-17	
Surrogate: Nitrobenzene d5	73.7		50-140	%	29-NOV-17	
Surrogate: Phenol d5	78.1		30-130	%	29-NOV-17	
Surrogate: p-Terphenyl d14	84.3		50-140	%	29-NOV-17	
Surrogate: 2,4,6-Tribromophenol	66.9		50-140	%	29-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2026572-3 BH101(5-7)						
Sampled By: SDB on 22-NOV-17 @ 14:10						
Matrix: SOIL						#1
Physical Tests						
pH	7.71		0.10	pH units	09-DEC-17	
L2026572-4 BH101(8-9)						
Sampled By: SDB on 22-NOV-17 @ 14:20						
Matrix: SOIL						#1
Physical Tests						
% Moisture	13.6		0.10	%	06-DEC-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	07-DEC-17	28
Benzene	<0.0068		0.0068	ug/g	07-DEC-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	07-DEC-17	1.9
Bromoform	<0.050		0.050	ug/g	07-DEC-17	0.26
Bromomethane	<0.050		0.050	ug/g	07-DEC-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	07-DEC-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	07-DEC-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	07-DEC-17	2.9
Chloroform	<0.050		0.050	ug/g	07-DEC-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	07-DEC-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	07-DEC-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	07-DEC-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	07-DEC-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	07-DEC-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	07-DEC-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	07-DEC-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	07-DEC-17	0.05
cis-1,2-Dichloroethylene	9.69		0.050	ug/g	07-DEC-17	*2.5
trans-1,2-Dichloroethylene	0.100		0.050	ug/g	07-DEC-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	07-DEC-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	07-DEC-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	07-DEC-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	07-DEC-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	07-DEC-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	07-DEC-17	1.6
n-Hexane	<0.050		0.050	ug/g	07-DEC-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	07-DEC-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	07-DEC-17	4.3
MTBE	<0.050		0.050	ug/g	07-DEC-17	1.4
Styrene	<0.050		0.050	ug/g	07-DEC-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	07-DEC-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	07-DEC-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	07-DEC-17	2.3
Toluene	<0.080		0.080	ug/g	07-DEC-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	07-DEC-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	07-DEC-17	0.05
Trichloroethylene	8.50		0.010	ug/g	07-DEC-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	07-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2026572-4 BH101(8-9)						
Sampled By: SDB on 22-NOV-17 @ 14:20						
Matrix: SOIL						#1
Volatile Organic Compounds						
						5.8
Vinyl chloride	0.026		0.020	ug/g	07-DEC-17	*0.022
o-Xylene	<0.020		0.020	ug/g	07-DEC-17	
m+p-Xylenes	<0.030		0.030	ug/g	07-DEC-17	
Xylenes (Total)	<0.050		0.050	ug/g	07-DEC-17	25
Surrogate: 4-Bromofluorobenzene	101.4		50-140	%	07-DEC-17	
Surrogate: 1,4-Difluorobenzene	105.2		50-140	%	07-DEC-17	
L2026572-6 BH101(15-15.5)						
Sampled By: SDB on 22-NOV-17 @ 14:40						
Matrix: SOIL						#1
Physical Tests						
% Moisture	9.73		0.10	%	29-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	27-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	27-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	27-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	27-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	27-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	27-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	27-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	27-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	27-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	27-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	27-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	27-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	27-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	27-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	27-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	27-NOV-17	0.05
cis-1,2-Dichloroethylene	0.773		0.050	ug/g	27-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	27-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	27-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	27-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	27-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	27-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	29-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	27-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	27-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	27-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	27-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	27-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	27-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
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T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2026572-6 BH101(15-15.5)						
Sampled By: SDB on 22-NOV-17 @ 14:40						
Matrix: SOIL						#1
Volatile Organic Compounds						
Tetrachloroethylene	<0.050		0.050	ug/g	27-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	27-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	27-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05
Trichloroethylene	9.18		0.010	ug/g	27-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	27-NOV-17	5.8
Vinyl chloride	0.095		0.020	ug/g	27-NOV-17	*0.022
o-Xylene	<0.020		0.020	ug/g	27-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	27-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	29-NOV-17	25
Surrogate: 4-Bromofluorobenzene	99.0		50-140	%	27-NOV-17	
Surrogate: 1,4-Difluorobenzene	101.1		50-140	%	27-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	27-NOV-17	65
F1-BTEX	<5.0		5.0	ug/g	30-NOV-17	65
F2 (C10-C16)	<10		10	ug/g	29-NOV-17	150
F3 (C16-C34)	<50		50	ug/g	29-NOV-17	1300
F4 (C34-C50)	<50		50	ug/g	29-NOV-17	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	30-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	29-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	96.1		60-140	%	29-NOV-17	
Surrogate: 3,4-Dichlorotoluene	87.1		60-140	%	27-NOV-17	
L2026572-7 BH101(18-18.5)						
Sampled By: SDB on 22-NOV-17 @ 14:50						
Matrix: SOIL						#1
Physical Tests						
% Moisture	11.4		0.10	%	06-DEC-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	07-DEC-17	28
Benzene	<0.0068		0.0068	ug/g	07-DEC-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	07-DEC-17	1.9
Bromoform	<0.050		0.050	ug/g	07-DEC-17	0.26
Bromomethane	<0.050		0.050	ug/g	07-DEC-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	07-DEC-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	07-DEC-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	07-DEC-17	2.9
Chloroform	<0.050		0.050	ug/g	07-DEC-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	07-DEC-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	07-DEC-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	07-DEC-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	07-DEC-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	07-DEC-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	07-DEC-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	07-DEC-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	07-DEC-17	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2026572-7 BH101(18-18.5)						
Sampled By: SDB on 22-NOV-17 @ 14:50						
Matrix: SOIL						#1
Volatile Organic Compounds						
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	07-DEC-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	07-DEC-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	07-DEC-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	07-DEC-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	07-DEC-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	07-DEC-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	07-DEC-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	07-DEC-17	1.6
n-Hexane	<0.050		0.050	ug/g	07-DEC-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	07-DEC-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	07-DEC-17	4.3
MTBE	<0.050		0.050	ug/g	07-DEC-17	1.4
Styrene	<0.050		0.050	ug/g	07-DEC-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	07-DEC-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	07-DEC-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	07-DEC-17	2.3
Toluene	<0.080		0.080	ug/g	07-DEC-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	07-DEC-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	07-DEC-17	0.05
Trichloroethylene	0.132		0.010	ug/g	07-DEC-17	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	07-DEC-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	07-DEC-17	0.022
o-Xylene	<0.020		0.020	ug/g	07-DEC-17	
m+p-Xylenes	<0.030		0.030	ug/g	07-DEC-17	
Xylenes (Total)	<0.050		0.050	ug/g	07-DEC-17	25
Surrogate: 4-Bromofluorobenzene	93.8		50-140	%	07-DEC-17	
Surrogate: 1,4-Difluorobenzene	96.3		50-140	%	07-DEC-17	
L2026572-8 BH104(1-3)						
Sampled By: SDB on 22-NOV-17 @ 08:30						
Matrix: SOIL						#1
Physical Tests						
Conductivity	0.286		0.0040	mS/cm	15-DEC-17	0.7
% Moisture	13.8		0.10	%	29-NOV-17	
pH	7.52		0.10	pH units	09-DEC-17	
Cyanides						
Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	08-DEC-17	0.051
Saturated Paste Extractables						
SAR	0.31		0.10	SAR	15-DEC-17	5
Calcium (Ca)	19.1		1.0	mg/L	15-DEC-17	
Magnesium (Mg)	3.0		1.0	mg/L	15-DEC-17	
Sodium (Na)	5.5		1.0	mg/L	15-DEC-17	
Semi-Volatile Organics						
Biphenyl	<0.050		0.050	ug/g	29-NOV-17	1.1
4-Chloroaniline	<0.10		0.10	ug/g	29-NOV-17	0.53
Bis(2-chloroethyl)ether	<0.10		0.10	ug/g	29-NOV-17	0.5

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2026572-8 BH104(1-3)						
Sampled By: SDB on 22-NOV-17 @ 08:30						
Matrix: SOIL						#1
Semi-Volatile Organics						
Bis(2-chloroisopropyl)ether	<0.10		0.10	ug/g	29-NOV-17	1.8
3,3'-Dichlorobenzidine	<0.10		0.10	ug/g	29-NOV-17	1
Diethylphthalate	<0.10		0.10	ug/g	29-NOV-17	0.5
Dimethylphthalate	<0.10		0.10	ug/g	29-NOV-17	0.5
2,4-Dimethylphenol	<0.10		0.10	ug/g	29-NOV-17	53
2,4-Dinitrophenol	<1.0		1.0	ug/g	29-NOV-17	2.9
2,4-Dinitrotoluene	<0.10		0.10	ug/g	29-NOV-17	
2,6-Dinitrotoluene	<0.10		0.10	ug/g	29-NOV-17	
Bis(2-ethylhexyl)phthalate	<0.10		0.10	ug/g	29-NOV-17	5
Phenol	<0.10		0.10	ug/g	29-NOV-17	9.4
1,2,4-Trichlorobenzene	<0.050		0.050	ug/g	29-NOV-17	1.4
Surrogate: 2-Fluorobiphenyl	79.5		50-140	%	29-NOV-17	
Surrogate: Nitrobenzene d5	79.3		50-140	%	29-NOV-17	
Surrogate: Phenol d5	75.7		30-130	%	29-NOV-17	
Surrogate: p-Terphenyl d14	87.8		50-140	%	29-NOV-17	
Surrogate: 2,4,6-Tribromophenol	61.8		50-140	%	29-NOV-17	
Polychlorinated Biphenyls						
Aroclor 1242	<0.010		0.010	ug/g	01-DEC-17	
Aroclor 1248	<0.010		0.010	ug/g	01-DEC-17	
Aroclor 1254	<0.010		0.010	ug/g	01-DEC-17	
Aroclor 1260	<0.010		0.010	ug/g	01-DEC-17	
Total PCBs	<0.020		0.020	ug/g	01-DEC-17	0.35
Surrogate: d14-Terphenyl	104.3		60-140	%	01-DEC-17	
L2026572-9 BH104(5-7)						
Sampled By: SDB on 22-NOV-17 @ 08:40						
Matrix: SOIL						#1
Physical Tests						
pH	7.73		0.10	pH units	09-DEC-17	
L2026572-11 BH104(15-16)						
Sampled By: SDB on 22-NOV-17 @ 09:00						
Matrix: SOIL						#1
Physical Tests						
% Moisture	13.1		0.10	%	29-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	27-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	27-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	27-NOV-17	1.9
Bromoform	<0.050		0.050	ug/g	27-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	27-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	27-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	27-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	27-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	27-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	27-NOV-17	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2026572-11	BH104(15-16)						
Sampled By:	SDB on 22-NOV-17 @ 09:00						
Matrix:	SOIL						#1
Volatile Organic Compounds							
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	27-NOV-17	1.7
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	27-NOV-17	6
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	27-NOV-17	0.097
	Dichlorodifluoromethane	<0.050		0.050	ug/g	27-NOV-17	25
	1,1-Dichloroethane	<0.050		0.050	ug/g	27-NOV-17	0.6
	1,2-Dichloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05
	1,1-Dichloroethylene	<0.050		0.050	ug/g	27-NOV-17	0.05
	cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	27-NOV-17	2.5
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	27-NOV-17	0.75
	Methylene Chloride	<0.050		0.050	ug/g	27-NOV-17	0.96
	1,2-Dichloropropane	<0.050		0.050	ug/g	27-NOV-17	0.085
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	27-NOV-17	
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	27-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	29-NOV-17	0.081
	Ethylbenzene	<0.018		0.018	ug/g	27-NOV-17	1.6
	n-Hexane	<0.050		0.050	ug/g	27-NOV-17	34
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	27-NOV-17	44
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	27-NOV-17	4.3
	MTBE	<0.050		0.050	ug/g	27-NOV-17	1.4
	Styrene	<0.050		0.050	ug/g	27-NOV-17	2.2
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05
	Tetrachloroethylene	<0.050		0.050	ug/g	27-NOV-17	2.3
	Toluene	<0.080		0.080	ug/g	27-NOV-17	6
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	27-NOV-17	3.4
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05
	Trichloroethylene	<0.010		0.010	ug/g	27-NOV-17	0.52
	Trichlorofluoromethane	<0.050		0.050	ug/g	27-NOV-17	5.8
	Vinyl chloride	0.030		0.020	ug/g	27-NOV-17	*0.022
	o-Xylene	<0.020		0.020	ug/g	27-NOV-17	
	m+p-Xylenes	<0.030		0.030	ug/g	27-NOV-17	
	Xylenes (Total)	<0.050		0.050	ug/g	29-NOV-17	25
	Surrogate: 4-Bromofluorobenzene	94.1		50-140	%	27-NOV-17	
	Surrogate: 1,4-Difluorobenzene	97.5		50-140	%	27-NOV-17	
L2026572-12	BH104(18-19)						
Sampled By:	SDB on 22-NOV-17 @ 09:10						
Matrix:	SOIL						#1
Physical Tests							
	% Moisture	7.27		0.10	%	06-DEC-17	
Volatile Organic Compounds							
	Acetone	<0.50	PEHT	0.50	ug/g	07-DEC-17	28
	Benzene	<0.0068	PEHT	0.0068	ug/g	07-DEC-17	0.17
	Bromodichloromethane	<0.050	PEHT	0.050	ug/g	07-DEC-17	1.9
	Bromoform	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.26
	Bromomethane	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2026572-12 BH104(18-19)						
Sampled By: SDB on 22-NOV-17 @ 09:10						
Matrix: SOIL						#1
Volatile Organic Compounds						
Carbon tetrachloride	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.12
Chlorobenzene	<0.050	PEHT	0.050	ug/g	07-DEC-17	2.7
Dibromochloromethane	<0.050	PEHT	0.050	ug/g	07-DEC-17	2.9
Chloroform	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.18
1,2-Dibromoethane	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.05
1,2-Dichlorobenzene	<0.050	PEHT	0.050	ug/g	07-DEC-17	1.7
1,3-Dichlorobenzene	<0.050	PEHT	0.050	ug/g	07-DEC-17	6
1,4-Dichlorobenzene	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.097
Dichlorodifluoromethane	<0.050	PEHT	0.050	ug/g	07-DEC-17	25
1,1-Dichloroethane	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.6
1,2-Dichloroethane	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.05
1,1-Dichloroethylene	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.05
cis-1,2-Dichloroethylene	<0.050	PEHT	0.050	ug/g	07-DEC-17	2.5
trans-1,2-Dichloroethylene	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.75
Methylene Chloride	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.96
1,2-Dichloropropane	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.085
cis-1,3-Dichloropropene	<0.030	PEHT	0.030	ug/g	07-DEC-17	
trans-1,3-Dichloropropene	<0.030	PEHT	0.030	ug/g	07-DEC-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	07-DEC-17	0.081
Ethylbenzene	<0.018	PEHT	0.018	ug/g	07-DEC-17	1.6
n-Hexane	<0.050	PEHT	0.050	ug/g	07-DEC-17	34
Methyl Ethyl Ketone	<0.50	PEHT	0.50	ug/g	07-DEC-17	44
Methyl Isobutyl Ketone	<0.50	PEHT	0.50	ug/g	07-DEC-17	4.3
MTBE	<0.050	PEHT	0.050	ug/g	07-DEC-17	1.4
Styrene	<0.050	PEHT	0.050	ug/g	07-DEC-17	2.2
1,1,1,2-Tetrachloroethane	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.05
1,1,2,2-Tetrachloroethane	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.05
Tetrachloroethylene	<0.050	PEHT	0.050	ug/g	07-DEC-17	2.3
Toluene	<0.080	PEHT	0.080	ug/g	07-DEC-17	6
1,1,1-Trichloroethane	<0.050	PEHT	0.050	ug/g	07-DEC-17	3.4
1,1,2-Trichloroethane	<0.050	PEHT	0.050	ug/g	07-DEC-17	0.05
Trichloroethylene	<0.010	PEHT	0.010	ug/g	07-DEC-17	0.52
Trichlorofluoromethane	<0.050	PEHT	0.050	ug/g	07-DEC-17	5.8
Vinyl chloride	<0.020	PEHT	0.020	ug/g	07-DEC-17	0.022
o-Xylene	<0.020	PEHT	0.020	ug/g	07-DEC-17	
m+p-Xylenes	<0.030	PEHT	0.030	ug/g	07-DEC-17	
Xylenes (Total)	<0.050		0.050	ug/g	07-DEC-17	25
Surrogate: 4-Bromofluorobenzene	98.8		50-140	%	07-DEC-17	
Surrogate: 1,4-Difluorobenzene	102.1		50-140	%	07-DEC-17	
L2026572-13 BH111(1-2)						
Sampled By: SDB on 22-NOV-17 @ 15:00						
Matrix: SOIL						#1
Physical Tests						
Conductivity	0.410		0.0040	mS/cm	15-DEC-17	0.7
% Moisture	15.0		0.10	%	29-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2026572-13 BH111(1-2)						
Sampled By: SDB on 22-NOV-17 @ 15:00						
Matrix: SOIL						
Physical Tests						
pH	7.66		0.10	pH units	08-DEC-17	
Cyanides						
Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	08-DEC-17	0.051
Saturated Paste Extractables						
SAR	1.26		0.10	SAR	15-DEC-17	5
Calcium (Ca)	19.7		1.0	mg/L	15-DEC-17	
Magnesium (Mg)	5.0		1.0	mg/L	15-DEC-17	
Sodium (Na)	24.3		1.0	mg/L	15-DEC-17	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	29-NOV-17	7.5
Arsenic (As)	14.9		1.0	ug/g	29-NOV-17	18
Barium (Ba)	97.4		1.0	ug/g	29-NOV-17	390
Beryllium (Be)	<0.50		0.50	ug/g	29-NOV-17	5
Boron (B)	15.6		5.0	ug/g	29-NOV-17	120
Boron (B), Hot Water Ext.	0.22		0.10	ug/g	29-NOV-17	1.5
Cadmium (Cd)	<0.50		0.50	ug/g	29-NOV-17	1.2
Chromium (Cr)	16.8		1.0	ug/g	29-NOV-17	160
Cobalt (Co)	8.5		1.0	ug/g	29-NOV-17	22
Copper (Cu)	39.5		1.0	ug/g	29-NOV-17	180
Lead (Pb)	23.4		1.0	ug/g	29-NOV-17	120
Mercury (Hg)	0.0257		0.0050	ug/g	29-NOV-17	1.8
Molybdenum (Mo)	1.1		1.0	ug/g	29-NOV-17	6.9
Nickel (Ni)	17.6		1.0	ug/g	29-NOV-17	130
Selenium (Se)	<1.0		1.0	ug/g	29-NOV-17	2.4
Silver (Ag)	<0.20		0.20	ug/g	29-NOV-17	25
Thallium (Tl)	<0.50		0.50	ug/g	29-NOV-17	1
Uranium (U)	<1.0		1.0	ug/g	29-NOV-17	23
Vanadium (V)	20.8		1.0	ug/g	29-NOV-17	86
Zinc (Zn)	158		5.0	ug/g	29-NOV-17	340
Speciated Metals						
Chromium, Hexavalent	<0.20		0.20	ug/g	28-NOV-17	10
Polycyclic Aromatic Hydrocarbons						
1+2-Methylnaphthalenes	0.070		0.042	ug/g	29-NOV-17	3.4
Semi-Volatile Organics						
Acenaphthene	0.087		0.050	ug/g	29-NOV-17	29
Acenaphthylene	<0.050		0.050	ug/g	29-NOV-17	0.17
Anthracene	0.290		0.050	ug/g	29-NOV-17	0.74
Benzo(a)anthracene	0.391		0.050	ug/g	29-NOV-17	0.63
Benzo(a)pyrene	0.321		0.050	ug/g	29-NOV-17	*0.3
Benzo(b)fluoranthene	0.259		0.050	ug/g	29-NOV-17	0.78
Benzo(ghi)perylene	0.158		0.050	ug/g	29-NOV-17	7.8
Benzo(k)fluoranthene	0.286		0.050	ug/g	29-NOV-17	0.78
Biphenyl	<0.050		0.050	ug/g	29-NOV-17	1.1
4-Chloroaniline	<0.10		0.10	ug/g	29-NOV-17	0.53
Bis(2-chloroethyl)ether	<0.10		0.10	ug/g	29-NOV-17	0.5

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2026572-13 BH111(1-2)						
Sampled By: SDB on 22-NOV-17 @ 15:00						
Matrix: SOIL						#1
Semi-Volatile Organics						
Bis(2-chloroisopropyl)ether	<0.10		0.10	ug/g	29-NOV-17	1.8
Chrysene	0.386		0.050	ug/g	29-NOV-17	7.8
Dibenzo(a,h)anthracene	<0.050		0.050	ug/g	29-NOV-17	0.1
3,3'-Dichlorobenzidine	<0.10		0.10	ug/g	29-NOV-17	1
Diethylphthalate	<0.10		0.10	ug/g	29-NOV-17	0.5
Dimethylphthalate	<0.10		0.10	ug/g	29-NOV-17	0.5
2,4-Dimethylphenol	<0.10		0.10	ug/g	29-NOV-17	53
2,4-Dinitrophenol	<1.0		1.0	ug/g	29-NOV-17	2.9
2,4-Dinitrotoluene	<0.10		0.10	ug/g	29-NOV-17	
2,6-Dinitrotoluene	<0.10		0.10	ug/g	29-NOV-17	
Bis(2-ethylhexyl)phthalate	<0.10		0.10	ug/g	29-NOV-17	5
Fluoranthene	0.837		0.050	ug/g	29-NOV-17	*0.69
Fluorene	0.156		0.050	ug/g	29-NOV-17	69
Indeno(1,2,3-cd)pyrene	0.193		0.050	ug/g	29-NOV-17	0.48
1-Methylnaphthalene	0.038		0.030	ug/g	29-NOV-17	3.4
2-Methylnaphthalene	0.032		0.030	ug/g	29-NOV-17	3.4
Naphthalene	<0.050		0.050	ug/g	29-NOV-17	0.75
Phenanthrene	1.02		0.050	ug/g	29-NOV-17	7.8
Phenol	<0.10		0.10	ug/g	29-NOV-17	9.4
Pyrene	0.603		0.050	ug/g	29-NOV-17	78
1,2,4-Trichlorobenzene	<0.050		0.050	ug/g	29-NOV-17	1.4
Surrogate: 2-Fluorobiphenyl	74.8		50-140	%	29-NOV-17	
Surrogate: Nitrobenzene d5	75.5		50-140	%	29-NOV-17	
Surrogate: p-Terphenyl d14	75.6		50-140	%	29-NOV-17	
L2026572-14 BH111(5-7)						
Sampled By: SDB on 22-NOV-17 @ 15:10						
Matrix: SOIL						#1
Physical Tests						
pH	7.75		0.10	pH units	08-DEC-17	
L2026572-15 BH111(10-12)						
Sampled By: SDB on 22-NOV-17 @ 15:20						
Matrix: SOIL						#1
Physical Tests						
% Moisture	11.0		0.10	%	29-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	28-NOV-17	65
F2 (C10-C16)	18		10	ug/g	01-DEC-17	150
F3 (C16-C34)	839		50	ug/g	01-DEC-17	1300
F4 (C34-C50)	63		50	ug/g	01-DEC-17	5600
Total Hydrocarbons (C6-C50)	921		72	ug/g	01-DEC-17	
Chrom. to baseline at nC50	YES			No Unit	01-DEC-17	
Surrogate: 2-Bromobenzotrifluoride	96.7		60-140	%	01-DEC-17	
Surrogate: 3,4-Dichlorotoluene	93.7		60-140	%	28-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2026572-18 BH120(1-2)						
Sampled By: SDB on 22-NOV-17 @ 11:45						
Matrix: SOIL						
Physical Tests						
Conductivity	0.339		0.0040	mS/cm	15-DEC-17	0.7
% Moisture	8.24		0.10	%	29-NOV-17	
pH	7.86		0.10	pH units	08-DEC-17	
Cyanides						
Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	08-DEC-17	0.051
Saturated Paste Extractables						
SAR	0.31		0.10	SAR	15-DEC-17	5
Calcium (Ca)	17.6		1.0	mg/L	15-DEC-17	
Magnesium (Mg)	5.8		1.0	mg/L	15-DEC-17	
Sodium (Na)	5.9		1.0	mg/L	15-DEC-17	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	29-NOV-17	7.5
Arsenic (As)	3.8		1.0	ug/g	29-NOV-17	18
Barium (Ba)	53.7		1.0	ug/g	29-NOV-17	390
Beryllium (Be)	<0.50		0.50	ug/g	29-NOV-17	5
Boron (B)	8.4		5.0	ug/g	29-NOV-17	120
Boron (B), Hot Water Ext.	0.17		0.10	ug/g	29-NOV-17	1.5
Cadmium (Cd)	18.9		0.50	ug/g	29-NOV-17	*1.2
Chromium (Cr)	18.7		1.0	ug/g	29-NOV-17	160
Cobalt (Co)	2.2		1.0	ug/g	29-NOV-17	22
Copper (Cu)	245		1.0	ug/g	29-NOV-17	*180
Lead (Pb)	112		1.0	ug/g	29-NOV-17	120
Mercury (Hg)	0.146		0.0050	ug/g	29-NOV-17	1.8
Molybdenum (Mo)	2.0		1.0	ug/g	29-NOV-17	6.9
Nickel (Ni)	6.7		1.0	ug/g	29-NOV-17	130
Selenium (Se)	<1.0		1.0	ug/g	29-NOV-17	2.4
Silver (Ag)	0.27		0.20	ug/g	29-NOV-17	25
Thallium (Tl)	<0.50		0.50	ug/g	29-NOV-17	1
Uranium (U)	<1.0		1.0	ug/g	29-NOV-17	23
Vanadium (V)	9.7		1.0	ug/g	29-NOV-17	86
Zinc (Zn)	541		5.0	ug/g	29-NOV-17	*340
Speciated Metals						
Chromium, Hexavalent	<0.20		0.20	ug/g	28-NOV-17	10
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	29-NOV-17	29
Acenaphthylene	<0.050		0.050	ug/g	29-NOV-17	0.17
Anthracene	<0.050		0.050	ug/g	29-NOV-17	0.74
Benzo(a)anthracene	<0.050		0.050	ug/g	29-NOV-17	0.63
Benzo(a)pyrene	<0.050		0.050	ug/g	29-NOV-17	0.3
Benzo(b)fluoranthene	<0.050		0.050	ug/g	29-NOV-17	0.78
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	29-NOV-17	7.8
Benzo(k)fluoranthene	<0.050		0.050	ug/g	29-NOV-17	0.78
Chrysene	<0.050		0.050	ug/g	29-NOV-17	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	29-NOV-17	0.1
Fluoranthene	<0.050		0.050	ug/g	29-NOV-17	0.69

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2026572-18 BH120(1-2)						
Sampled By: SDB on 22-NOV-17 @ 11:45						
Matrix: SOIL						#1
Polycyclic Aromatic Hydrocarbons						
Fluorene	<0.050		0.050	ug/g	29-NOV-17	69
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	29-NOV-17	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	29-NOV-17	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	29-NOV-17	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	29-NOV-17	3.4
Naphthalene	<0.050		0.050	ug/g	29-NOV-17	0.75
Phenanthrene	<0.050		0.050	ug/g	29-NOV-17	7.8
Pyrene	<0.050		0.050	ug/g	29-NOV-17	78
Surrogate: 2-Fluorobiphenyl	76.2		50-140	%	29-NOV-17	
Surrogate: p-Terphenyl d14	73.3		50-140	%	29-NOV-17	
L2026572-19 BH120(5-7)						
Sampled By: SDB on 22-NOV-17 @ 15:05						
Matrix: SOIL						#1
Physical Tests						
pH	7.65		0.10	pH units	08-DEC-17	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	21-DEC-17	7.5
Arsenic (As)	6.8		1.0	ug/g	21-DEC-17	18
Barium (Ba)	101		1.0	ug/g	21-DEC-17	390
Beryllium (Be)	0.69		0.50	ug/g	21-DEC-17	5
Boron (B)	11.8		5.0	ug/g	21-DEC-17	120
Cadmium (Cd)	<0.50		0.50	ug/g	21-DEC-17	1.2
Chromium (Cr)	23.2		1.0	ug/g	21-DEC-17	160
Cobalt (Co)	15.1		1.0	ug/g	21-DEC-17	22
Copper (Cu)	50.8		1.0	ug/g	21-DEC-17	180
Lead (Pb)	9.8		1.0	ug/g	21-DEC-17	120
Molybdenum (Mo)	<1.0		1.0	ug/g	21-DEC-17	6.9
Nickel (Ni)	30.1		1.0	ug/g	21-DEC-17	130
Selenium (Se)	<1.0		1.0	ug/g	21-DEC-17	2.4
Silver (Ag)	<0.20		0.20	ug/g	21-DEC-17	25
Thallium (Tl)	<0.50		0.50	ug/g	21-DEC-17	1
Uranium (U)	<1.0		1.0	ug/g	21-DEC-17	23
Vanadium (V)	30.3		1.0	ug/g	21-DEC-17	86
Zinc (Zn)	64.4		5.0	ug/g	21-DEC-17	340
L2026572-21 BH120(15-16)						
Sampled By: SDB on 22-NOV-17 @ 12:15						
Matrix: SOIL						#1
Physical Tests						
% Moisture	8.85		0.10	%	29-NOV-17	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	27-NOV-17	28
Benzene	<0.0068		0.0068	ug/g	27-NOV-17	0.17
Bromodichloromethane	<0.050		0.050	ug/g	27-NOV-17	1.9

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2026572-21 BH120(15-16)						
Sampled By: SDB on 22-NOV-17 @ 12:15						
Matrix: SOIL						
Volatile Organic Compounds						
Bromoform	<0.050		0.050	ug/g	27-NOV-17	0.26
Bromomethane	<0.050		0.050	ug/g	27-NOV-17	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	27-NOV-17	0.12
Chlorobenzene	<0.050		0.050	ug/g	27-NOV-17	2.7
Dibromochloromethane	<0.050		0.050	ug/g	27-NOV-17	2.9
Chloroform	<0.050		0.050	ug/g	27-NOV-17	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	27-NOV-17	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	27-NOV-17	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	27-NOV-17	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	27-NOV-17	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	27-NOV-17	25
1,1-Dichloroethane	<0.050		0.050	ug/g	27-NOV-17	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	27-NOV-17	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	27-NOV-17	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	27-NOV-17	0.75
Methylene Chloride	<0.050		0.050	ug/g	27-NOV-17	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	27-NOV-17	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	27-NOV-17	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	27-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	29-NOV-17	0.081
Ethylbenzene	<0.018		0.018	ug/g	27-NOV-17	1.6
n-Hexane	<0.050		0.050	ug/g	27-NOV-17	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	27-NOV-17	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	27-NOV-17	4.3
MTBE	<0.050		0.050	ug/g	27-NOV-17	1.4
Styrene	<0.050		0.050	ug/g	27-NOV-17	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	27-NOV-17	2.3
Toluene	<0.080		0.080	ug/g	27-NOV-17	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	27-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05
Trichloroethylene	<0.010		0.010	ug/g	27-NOV-17	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	27-NOV-17	5.8
Vinyl chloride	<0.020		0.020	ug/g	27-NOV-17	0.022
o-Xylene	<0.020		0.020	ug/g	27-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	27-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	29-NOV-17	25
Surrogate: 4-Bromofluorobenzene	97.3		50-140	%	27-NOV-17	
Surrogate: 1,4-Difluorobenzene	101.5		50-140	%	27-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	27-NOV-17	65
F1-BTEX	<5.0		5.0	ug/g	30-NOV-17	65
F2 (C10-C16)	<10		10	ug/g	29-NOV-17	150
F3 (C16-C34)	<50		50	ug/g	29-NOV-17	1300

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2026572-21	BH120(15-16)									
Sampled By:	SDB on 22-NOV-17 @ 12:15									
Matrix:	SOIL						#1			
Hydrocarbons										
	F4 (C34-C50)	<50		50	ug/g	29-NOV-17	5600			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	30-NOV-17				
	Chrom. to baseline at nC50	YES			No Unit	29-NOV-17				
	Surrogate: 2-Bromobenzotrifluoride	68.9		60-140	%	29-NOV-17				
	Surrogate: 3,4-Dichlorotoluene	85.3		60-140	%	27-NOV-17				
L2026572-22	BH1010(15-15.5)									
Sampled By:	SDB on 22-NOV-17 @ 14:45									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	7.28		0.10	%	29-NOV-17				
Volatile Organic Compounds										
	Acetone	<0.50		0.50	ug/g	27-NOV-17	28			
	Benzene	<0.0068		0.0068	ug/g	27-NOV-17	0.17			
	Bromodichloromethane	<0.050		0.050	ug/g	27-NOV-17	1.9			
	Bromoform	<0.050		0.050	ug/g	27-NOV-17	0.26			
	Bromomethane	<0.050		0.050	ug/g	27-NOV-17	0.05			
	Carbon tetrachloride	<0.050		0.050	ug/g	27-NOV-17	0.12			
	Chlorobenzene	<0.050		0.050	ug/g	27-NOV-17	2.7			
	Dibromochloromethane	<0.050		0.050	ug/g	27-NOV-17	2.9			
	Chloroform	<0.050		0.050	ug/g	27-NOV-17	0.18			
	1,2-Dibromoethane	<0.050		0.050	ug/g	27-NOV-17	0.05			
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	27-NOV-17	1.7			
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	27-NOV-17	6			
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	27-NOV-17	0.097			
	Dichlorodifluoromethane	<0.050		0.050	ug/g	27-NOV-17	25			
	1,1-Dichloroethane	<0.050		0.050	ug/g	27-NOV-17	0.6			
	1,2-Dichloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05			
	1,1-Dichloroethylene	<0.050		0.050	ug/g	27-NOV-17	0.05			
	cis-1,2-Dichloroethylene	0.879		0.050	ug/g	27-NOV-17	2.5			
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	27-NOV-17	0.75			
	Methylene Chloride	<0.050		0.050	ug/g	27-NOV-17	0.96			
	1,2-Dichloropropane	<0.050		0.050	ug/g	27-NOV-17	0.085			
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	27-NOV-17				
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	27-NOV-17				
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	29-NOV-17	0.081			
	Ethylbenzene	<0.018		0.018	ug/g	27-NOV-17	1.6			
	n-Hexane	<0.050		0.050	ug/g	27-NOV-17	34			
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	27-NOV-17	44			
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	27-NOV-17	4.3			
	MTBE	<0.050		0.050	ug/g	27-NOV-17	1.4			
	Styrene	<0.050		0.050	ug/g	27-NOV-17	2.2			
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05			
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05			
	Tetrachloroethylene	<0.050		0.050	ug/g	27-NOV-17	2.3			
	Toluene	<0.080		0.080	ug/g	27-NOV-17	6			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2026572-22 BH1010(15-15.5)						
Sampled By: SDB on 22-NOV-17 @ 14:45						
Matrix: SOIL						
Volatile Organic Compounds						
1,1,1-Trichloroethane	<0.050		0.050	ug/g	27-NOV-17	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	27-NOV-17	0.05
Trichloroethylene	11.4		0.010	ug/g	27-NOV-17	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	27-NOV-17	5.8
Vinyl chloride	0.131		0.020	ug/g	27-NOV-17	*0.022
o-Xylene	<0.020		0.020	ug/g	27-NOV-17	
m+p-Xylenes	<0.030		0.030	ug/g	27-NOV-17	
Xylenes (Total)	<0.050		0.050	ug/g	29-NOV-17	25
Surrogate: 4-Bromofluorobenzene	96.8		50-140	%	27-NOV-17	
Surrogate: 1,4-Difluorobenzene	102.3		50-140	%	27-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	27-NOV-17	65
F1-BTEX	<5.0		5.0	ug/g	30-NOV-17	65
F2 (C10-C16)	<10		10	ug/g	29-NOV-17	150
F3 (C16-C34)	<50		50	ug/g	29-NOV-17	1300
F4 (C34-C50)	<50		50	ug/g	29-NOV-17	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	30-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	29-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	97.5		60-140	%	29-NOV-17	
Surrogate: 3,4-Dichlorotoluene	83.8		60-140	%	27-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
PEHT	Parameter Exceeded Recommended Holding Time Prior to Analysis
SAR:M	Reported SAR represents a maximum value. Actual SAR may be lower if both Ca and Mg were detectable.

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
625-511-WT	Soil	ABN-O.Reg 153/04 (July 2011)	SW846 8270 (511)

Soil and sediment samples are dried by mixing with a desiccant prior to extraction. The extracts are dried, concentrated and exchanged into a solvent and analyzed by GC/MS. Depending on the analytical GC/MS column used benzo(j)fluoranthene may chromatographically co-elute with benzo(b)fluoranthene or benzo(k)fluoranthene.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

B-HWS-R511-WT	Soil	Boron-HWE-O.Reg 153/04 (July 2011)	HW EXTR, EPA 6010B

A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CN-WAD-R511-WT	Soil	Cyanide (WAD)-O.Reg 153/04 (July 2011)	MOE 3015/APHA 4500CN I-WAD

The sample is extracted with a strong base for 16 hours, and then filtered. The filtrate is then distilled where the cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-WT	Soil	Hexavalent Chromium in Soil	SW846 3060A/7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-WT	Soil	Conductivity (EC)	MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

Reference Information

F1-F4-511-CALC-WT	Soil	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-S

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Soil	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Soil	F2-F4-O.Reg 153/04 (July 2011)	CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:
1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
4. F4G: Gravimetric Heavy Hydrocarbons
5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
8. This method is validated for use.
9. Data from analysis of validation and quality control samples is available upon request.
10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

HG-200.2-CVAA-WT	Soil	Mercury in Soil by CVAAS	EPA 200.2/1631E (mod)

Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

Reference Information

MET-200.2-CCMS-WT	Soil	Metals in Soil by CRC ICPMS	EPA 200.2/6020A (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT	Soil	ABN-Calculated Parameters	SW846 8270
MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
PAH-511-WT	Soil	PAH-O.Reg 153/04 (July 2011)	SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking techniqueis used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PCB-511-WT	Soil	PCB-O.Reg 153/04 (July 2011)	SW846 3510/8082

An aliquot of a solid sample is extracted with a solvent, extract is cleaned up and analyzed on the GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

PH-WT	Soil	pH	MOEE E3137A

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

SAR-R511-WT	Soil	SAR-O.Reg 153/04 (July 2011)	SW846 6010C

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

VOC-1,3-DCP-CALC-WT	Soil	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Soil	VOC-O.Reg 153/04 (July 2011)	SW846 8260 (511)

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

17-617277 17-617278

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2026572 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Soil**							
Batch R3897709								
WG2671996-3 DUP		**WG2671996-5**						
1-Methylnaphthalene		<6.0	<6.0	RPD-NA	ug/g	N/A	40	29-NOV-17
1,2,4-Trichlorobenzene		<0.10	<0.10	RPD-NA	ug/g	N/A	40	29-NOV-17
2-Methylnaphthalene		<6.0	<6.0	RPD-NA	ug/g	N/A	40	29-NOV-17
2,4-Dimethylphenol		<0.20	<0.20	RPD-NA	ug/g	N/A	40	29-NOV-17
2,4-Dinitrophenol		<2.0	<2.0	RPD-NA	ug/g	N/A	40	29-NOV-17
2,4-Dinitrotoluene		<0.20	<0.20	RPD-NA	ug/g	N/A	40	29-NOV-17
2,6-Dinitrotoluene		<0.20	<0.20	RPD-NA	ug/g	N/A	40	29-NOV-17
3,3'-Dichlorobenzidine		<0.20	<0.20	RPD-NA	ug/g	N/A	40	29-NOV-17
4-Chloroaniline		<0.20	<0.20	RPD-NA	ug/g	N/A	40	29-NOV-17
Acenaphthene		<5.0	<5.0	RPD-NA	ug/g	N/A	40	29-NOV-17
Acenaphthylene		<0.10	<0.10	RPD-NA	ug/g	N/A	40	29-NOV-17
Anthracene		<0.30	<0.30	RPD-NA	ug/g	N/A	40	29-NOV-17
Benzo(a)anthracene		<0.50	<0.50	RPD-NA	ug/g	N/A	40	29-NOV-17
Benzo(a)pyrene		<0.20	<0.20	RPD-NA	ug/g	N/A	40	29-NOV-17
Benzo(b)fluoranthene		<0.50	<0.50	RPD-NA	ug/g	N/A	40	29-NOV-17
Benzo(ghi)perylene		<5.0	<5.0	RPD-NA	ug/g	N/A	40	29-NOV-17
Benzo(k)fluoranthene		<0.50	<0.50	RPD-NA	ug/g	N/A	40	29-NOV-17
Biphenyl		<0.10	<0.10	RPD-NA	ug/g	N/A	40	29-NOV-17
Bis(2-chloroethyl)ether		<0.20	<0.20	RPD-NA	ug/g	N/A	40	29-NOV-17
Bis(2-chloroisopropyl)ether		<0.20	<0.20	RPD-NA	ug/g	N/A	40	29-NOV-17
Bis(2-ethylhexyl)phthalate		<10	<10	RPD-NA	ug/g	N/A	40	29-NOV-17
Chrysene		<5.0	<5.0	RPD-NA	ug/g	N/A	40	29-NOV-17
Dibenzo(a,h)anthracene		<0.10	<0.10	RPD-NA	ug/g	N/A	40	29-NOV-17
Diethylphthalate		<0.20	<0.20	RPD-NA	ug/g	N/A	40	29-NOV-17
Dimethylphthalate		<0.20	<0.20	RPD-NA	ug/g	N/A	40	29-NOV-17
Fluoranthene		<5.0	<5.0	RPD-NA	ug/g	N/A	40	29-NOV-17
Fluorene		<10	<10	RPD-NA	ug/g	N/A	40	29-NOV-17
Indeno(1,2,3-cd)pyrene		<0.25	<0.25	RPD-NA	ug/g	N/A	40	29-NOV-17
Naphthalene		<2.5	<2.5	RPD-NA	ug/g	N/A	40	29-NOV-17
Phenanthrene		<5.0	<5.0	RPD-NA	ug/g	N/A	40	29-NOV-17
Phenol		<5.0	<5.0	RPD-NA	ug/g	N/A	40	29-NOV-17
Pyrene		<5.0	<5.0	RPD-NA	ug/g	N/A	40	29-NOV-17
WG2671996-2 LCS								

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Soil**							
Batch R3897709								
WG2671996-2 LCS								
1-Methylnaphthalene			82.1		%		50-140	29-NOV-17
1,2,4-Trichlorobenzene			65.6		%		50-140	29-NOV-17
2-Methylnaphthalene			73.2		%		50-140	29-NOV-17
2,4-Dimethylphenol			81.4		%		30-130	29-NOV-17
2,4-Dinitrophenol			60.5		%		30-130	29-NOV-17
2,4-Dinitrotoluene			80.6		%		50-140	29-NOV-17
2,6-Dinitrotoluene			77.7		%		50-140	29-NOV-17
3,3'-Dichlorobenzidine			63.7		%		30-130	29-NOV-17
4-Chloroaniline			70.3		%		30-130	29-NOV-17
Acenaphthene			73.2		%		50-140	29-NOV-17
Acenaphthylene			77.4		%		50-140	29-NOV-17
Anthracene			75.8		%		50-140	29-NOV-17
Benzo(a)anthracene			79.4		%		50-140	29-NOV-17
Benzo(a)pyrene			85.9		%		50-140	29-NOV-17
Benzo(b)fluoranthene			81.1		%		50-140	29-NOV-17
Benzo(ghi)perylene			81.2		%		50-140	29-NOV-17
Benzo(k)fluoranthene			78.0		%		50-140	29-NOV-17
Biphenyl			77.4		%		50-140	29-NOV-17
Bis(2-chloroethyl)ether			75.5		%		50-140	29-NOV-17
Bis(2-chloroisopropyl)ether			71.3		%		50-140	29-NOV-17
Bis(2-ethylhexyl)phthalate			68.0		%		50-140	29-NOV-17
Chrysene			80.6		%		50-140	29-NOV-17
Dibenzo(a,h)anthracene			80.8		%		50-140	29-NOV-17
Diethylphthalate			73.4		%		50-140	29-NOV-17
Dimethylphthalate			71.8		%		50-140	29-NOV-17
Fluoranthene			68.6		%		50-140	29-NOV-17
Fluorene			76.5		%		50-140	29-NOV-17
Indeno(1,2,3-cd)pyrene			80.2		%		50-140	29-NOV-17
Naphthalene			69.6		%		50-140	29-NOV-17
Phenanthrene			77.2		%		50-140	29-NOV-17
Phenol			77.4		%		30-130	29-NOV-17
Pyrene			70.5		%		50-140	29-NOV-17
WG2671996-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Soil**							
Batch R3897709								
WG2671996-1 MB								
1,2,4-Trichlorobenzene			<0.050		ug/g		0.05	29-NOV-17
2-Methylnaphthalene			<0.030		ug/g		0.03	29-NOV-17
2,4-Dimethylphenol			<0.10		ug/g		0.1	29-NOV-17
2,4-Dinitrophenol			<1.0		ug/g		1	29-NOV-17
2,4-Dinitrotoluene			<0.10		ug/g		0.1	29-NOV-17
2,6-Dinitrotoluene			<0.10		ug/g		0.1	29-NOV-17
3,3'-Dichlorobenzidine			<0.10		ug/g		0.1	29-NOV-17
4-Chloroaniline			<0.10		ug/g		0.1	29-NOV-17
Acenaphthene			<0.050		ug/g		0.05	29-NOV-17
Acenaphthylene			<0.050		ug/g		0.05	29-NOV-17
Anthracene			<0.050		ug/g		0.05	29-NOV-17
Benzo(a)anthracene			<0.050		ug/g		0.05	29-NOV-17
Benzo(a)pyrene			<0.050		ug/g		0.05	29-NOV-17
Benzo(b)fluoranthene			<0.050		ug/g		0.05	29-NOV-17
Benzo(ghi)perylene			<0.050		ug/g		0.05	29-NOV-17
Benzo(k)fluoranthene			<0.050		ug/g		0.05	29-NOV-17
Biphenyl			<0.050		ug/g		0.05	29-NOV-17
Bis(2-chloroethyl)ether			<0.10		ug/g		0.1	29-NOV-17
Bis(2-chloroisopropyl)ether			<0.10		ug/g		0.1	29-NOV-17
Bis(2-ethylhexyl)phthalate			<0.10		ug/g		0.1	29-NOV-17
Chrysene			<0.050		ug/g		0.05	29-NOV-17
Dibenzo(a,h)anthracene			<0.050		ug/g		0.05	29-NOV-17
Diethylphthalate			<0.10		ug/g		0.1	29-NOV-17
Dimethylphthalate			<0.10		ug/g		0.1	29-NOV-17
Fluoranthene			<0.050		ug/g		0.05	29-NOV-17
Fluorene			<0.050		ug/g		0.05	29-NOV-17
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	29-NOV-17
Naphthalene			<0.050		ug/g		0.05	29-NOV-17
Phenanthrene			<0.050		ug/g		0.05	29-NOV-17
Phenol			<0.10		ug/g		0.1	29-NOV-17
Pyrene			<0.050		ug/g		0.05	29-NOV-17
Surrogate: 2-Fluorobiphenyl			36.0	MBS	%		50-140	29-NOV-17
Surrogate: 2,4,6-Tribromophenol			55.9		%		50-140	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Soil**							
Batch R3897709								
WG2671996-1 MB								
Surrogate: Nitrobenzene d5			79.4		%		50-140	29-NOV-17
Surrogate: p-Terphenyl d14			84.6		%		50-140	29-NOV-17
Surrogate: Phenol d5			87.4		%		30-130	29-NOV-17
WG2671996-4 MS		**WG2671996-5**						
1-Methylnaphthalene			86.1		%		50-140	29-NOV-17
1,2,4-Trichlorobenzene			71.9		%		50-140	29-NOV-17
2-Methylnaphthalene			77.8		%		50-140	29-NOV-17
2,4-Dimethylphenol			83.4		%		30-150	29-NOV-17
2,4-Dinitrophenol			71.7		%		30-150	29-NOV-17
2,4-Dinitrotoluene			79.3		%		50-140	29-NOV-17
2,6-Dinitrotoluene			78.5		%		50-140	29-NOV-17
3,3'-Dichlorobenzidine			71.1		%		30-130	29-NOV-17
4-Chloroaniline			75.4		%		30-130	29-NOV-17
Acenaphthene			76.7		%		50-140	29-NOV-17
Acenaphthylene			80.2		%		50-140	29-NOV-17
Anthracene			78.3		%		50-140	29-NOV-17
Benzo(a)anthracene			82.2		%		50-140	29-NOV-17
Benzo(a)pyrene			84.9		%		50-140	29-NOV-17
Benzo(b)fluoranthene			81.3		%		50-140	29-NOV-17
Benzo(ghi)perylene			81.2		%		50-140	29-NOV-17
Benzo(k)fluoranthene			74.4		%		50-140	29-NOV-17
Biphenyl			80.2		%		50-140	29-NOV-17
Bis(2-chloroethyl)ether			76.6		%		50-140	29-NOV-17
Bis(2-chloroisopropyl)ether			76.2		%		50-140	29-NOV-17
Bis(2-ethylhexyl)phthalate			69.1		%		50-140	29-NOV-17
Chrysene			82.6		%		50-140	29-NOV-17
Dibenzo(a,h)anthracene			81.9		%		50-140	29-NOV-17
Diethylphthalate			73.4		%		50-140	29-NOV-17
Dimethylphthalate			74.2		%		50-140	29-NOV-17
Fluoranthene			72.7		%		50-140	29-NOV-17
Fluorene			77.8		%		50-140	29-NOV-17
Indeno(1,2,3-cd)pyrene			83.0		%		50-140	29-NOV-17
Naphthalene			75.4		%		50-140	29-NOV-17
Phenanthrene			82.7		%		50-140	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Soil**							
Batch R3897709								
WG2671996-4 MS		**WG2671996-5**						
Phenol			78.4		%		30-130	29-NOV-17
Pyrene			74.2		%		50-140	29-NOV-17
B-HWS-R511-WT	**Soil**							
Batch R3898161								
WG2673644-4 DUP		**L2026572-1**						
Boron (B), Hot Water Ext.		<0.10	<0.10	RPD-NA	ug/g	N/A	30	29-NOV-17
WG2673644-2 IRM		**HOTB-SAL_SOIL5**						
Boron (B), Hot Water Ext.			99.4		%		70-130	29-NOV-17
WG2673644-3 LCS								
Boron (B), Hot Water Ext.			105.9		%		70-130	29-NOV-17
WG2673644-1 MB								
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	29-NOV-17
CN-WAD-R511-WT	**Soil**							
Batch R3907368								
WG2678511-3 DUP		**L2031125-2**						
Cyanide, Weak Acid Diss		<0.050	<0.050	RPD-NA	ug/g	N/A	35	08-DEC-17
WG2678511-2 LCS								
Cyanide, Weak Acid Diss			93.5		%		80-120	08-DEC-17
WG2678511-1 MB								
Cyanide, Weak Acid Diss			<0.050		ug/g		0.05	08-DEC-17
WG2678511-4 MS		**L2031125-2**						
Cyanide, Weak Acid Diss			95.1		%		70-130	08-DEC-17
CR-CR6-IC-WT	**Soil**							
Batch R3897775								
WG2672024-4 CRM		**WT-SQC012**						
Chromium, Hexavalent			86.6		%		70-130	28-NOV-17
WG2672024-3 DUP		**L2027056-6**						
Chromium, Hexavalent		<0.20	0.24	RPD-NA	ug/g	N/A	35	28-NOV-17
WG2672024-2 LCS								
Chromium, Hexavalent			93.3		%		80-120	28-NOV-17
WG2672024-1 MB								
Chromium, Hexavalent			<0.20		ug/g		0.2	28-NOV-17
EC-WT	**Soil**							

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-WT	**Soil**							
Batch R3914033								
WG2684831-4 DUP		**WG2684831-3**						
Conductivity		0.105	0.105		mS/cm	0.2	20	15-DEC-17
WG2685061-1 LCS								
Conductivity			100.1		%		90-110	15-DEC-17
WG2684831-1 MB								
Conductivity			<0.0040		mS/cm		0.004	15-DEC-17
F1-HS-511-WT	**Soil**							
Batch R3895829								
WG2670658-4 DUP		**WG2670658-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	27-NOV-17
WG2670658-2 LCS								
F1 (C6-C10)			106.6		%		80-120	27-NOV-17
WG2670658-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	27-NOV-17
Surrogate: 3,4-Dichlorotoluene			89.3		%		60-140	27-NOV-17
WG2670658-7 MS		**WG2670658-6**						
F1 (C6-C10)			103.5		%		60-140	27-NOV-17
Batch R3895907								
WG2670725-4 DUP		**WG2670725-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	28-NOV-17
WG2670725-2 LCS								
F1 (C6-C10)			86.2		%		80-120	27-NOV-17
WG2670725-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	27-NOV-17
Surrogate: 3,4-Dichlorotoluene			96.8		%		60-140	27-NOV-17
WG2670725-7 MS		**WG2670725-6**						
F1 (C6-C10)			113.8		%		60-140	28-NOV-17
F2-F4-511-WT	**Soil**							
Batch R3898510								
WG2672563-4 DUP		**WG2672563-3**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	29-NOV-17
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	29-NOV-17
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	29-NOV-17
WG2672563-2 LCS								
F2 (C10-C16)			118.7		%		80-120	29-NOV-17
F3 (C16-C34)			120.3	LCS-H	%		80-120	29-NOV-17
F4 (C34-C50)			120.4	LCS-H	%		80-120	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	**Soil**							
Batch R3898510								
WG2672563-1 MB								
F2 (C10-C16)			<10		ug/g		10	29-NOV-17
F3 (C16-C34)			<50		ug/g		50	29-NOV-17
F4 (C34-C50)			<50		ug/g		50	29-NOV-17
Surrogate: 2-Bromobenzotrifluoride			103.0		%		60-140	29-NOV-17
WG2672563-5 MS		**WG2672563-3**						
F2 (C10-C16)			78.7		%		60-140	29-NOV-17
F3 (C16-C34)			75.8		%		60-140	29-NOV-17
F4 (C34-C50)			77.7		%		60-140	29-NOV-17
Batch R3899584								
WG2674672-3 DUP		**WG2674672-5**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	01-DEC-17
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	01-DEC-17
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	01-DEC-17
WG2674672-2 LCS								
F2 (C10-C16)			102.7		%		80-120	01-DEC-17
F3 (C16-C34)			103.6		%		80-120	01-DEC-17
F4 (C34-C50)			105.8		%		80-120	01-DEC-17
WG2674672-1 MB								
F2 (C10-C16)			<10		ug/g		10	01-DEC-17
F3 (C16-C34)			<50		ug/g		50	01-DEC-17
F4 (C34-C50)			<50		ug/g		50	01-DEC-17
Surrogate: 2-Bromobenzotrifluoride			64.0		%		60-140	01-DEC-17
WG2674672-4 MS		**WG2674672-5**						
F2 (C10-C16)			107.7		%		60-140	01-DEC-17
F3 (C16-C34)			106.8		%		60-140	01-DEC-17
F4 (C34-C50)			106.8		%		60-140	01-DEC-17
HG-200.2-CVAA-WT	**Soil**							
Batch R3897994								
WG2673617-2 CRM		**WT-CANMET-TILL1**						
Mercury (Hg)			97.7		%		70-130	29-NOV-17
WG2673617-6 DUP		**WG2673617-5**						
Mercury (Hg)		0.0453	0.0557		ug/g	21	40	29-NOV-17
WG2673617-3 LCS								
Mercury (Hg)			108.5		%		80-120	29-NOV-17
WG2673617-1 MB								

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-200.2-CVAA-WT	**Soil**							
Batch R3897994								
WG2673617-1 MB								
Mercury (Hg)			<0.0050		mg/kg		0.005	29-NOV-17
MET-200.2-CCMS-WT	**Soil**							
Batch R3898091								
WG2673617-2 CRM		**WT-CANMET-TILL1**						
Antimony (Sb)			101.3		%		70-130	29-NOV-17
Arsenic (As)			102.9		%		70-130	29-NOV-17
Barium (Ba)			111.1		%		70-130	29-NOV-17
Beryllium (Be)			98.5		%		70-130	29-NOV-17
Boron (B)			3.0		mg/kg		0-8.2	29-NOV-17
Cadmium (Cd)			99.1		%		70-130	29-NOV-17
Chromium (Cr)			101.6		%		70-130	29-NOV-17
Cobalt (Co)			98.0		%		70-130	29-NOV-17
Copper (Cu)			103.9		%		70-130	29-NOV-17
Lead (Pb)			94.9		%		70-130	29-NOV-17
Molybdenum (Mo)			99.3		%		70-130	29-NOV-17
Nickel (Ni)			101.8		%		70-130	29-NOV-17
Selenium (Se)			0.29		mg/kg		0.11-0.51	29-NOV-17
Silver (Ag)			0.23		mg/kg		0.13-0.33	29-NOV-17
Thallium (Tl)			0.115		mg/kg		0.077-0.18	29-NOV-17
Uranium (U)			92.0		%		70-130	29-NOV-17
Vanadium (V)			100.8		%		70-130	29-NOV-17
Zinc (Zn)			98.4		%		70-130	29-NOV-17
WG2673617-6 DUP		**WG2673617-5**						
Antimony (Sb)		0.16	0.16		ug/g	1.1	30	29-NOV-17
Arsenic (As)		4.25	3.97		ug/g	6.8	30	29-NOV-17
Barium (Ba)		107	102		ug/g	4.7	40	29-NOV-17
Beryllium (Be)		0.67	0.66		ug/g	1.2	30	29-NOV-17
Boron (B)		6.6	8.1		ug/g	21	30	29-NOV-17
Cadmium (Cd)		0.479	0.419		ug/g	13	30	29-NOV-17
Chromium (Cr)		22.3	22.3		ug/g	0.2	30	29-NOV-17
Cobalt (Co)		10.7	10.1		ug/g	5.7	30	29-NOV-17
Copper (Cu)		17.0	15.8		ug/g	7.6	30	29-NOV-17
Lead (Pb)		41.5	37.3		ug/g	11	40	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R3898091								
WG2673617-6 DUP		**WG2673617-5**						
Molybdenum (Mo)		0.87	0.82		ug/g	5.6	40	29-NOV-17
Nickel (Ni)		19.8	18.8		ug/g	5.0	30	29-NOV-17
Selenium (Se)		0.32	0.33		ug/g	2.8	30	29-NOV-17
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	29-NOV-17
Thallium (Tl)		0.125	0.130		ug/g	3.7	30	29-NOV-17
Uranium (U)		0.967	0.952		ug/g	1.5	30	29-NOV-17
Vanadium (V)		34.3	33.4		ug/g	2.7	30	29-NOV-17
Zinc (Zn)		188	229		ug/g	20	30	29-NOV-17
WG2673617-4 LCS								
Antimony (Sb)			105.8		%		80-120	29-NOV-17
Arsenic (As)			102.5		%		80-120	29-NOV-17
Barium (Ba)			104.6		%		80-120	29-NOV-17
Beryllium (Be)			97.1		%		80-120	29-NOV-17
Boron (B)			98.6		%		80-120	29-NOV-17
Cadmium (Cd)			100.3		%		80-120	29-NOV-17
Chromium (Cr)			101.6		%		80-120	29-NOV-17
Cobalt (Co)			99.8		%		80-120	29-NOV-17
Copper (Cu)			99.0		%		80-120	29-NOV-17
Lead (Pb)			99.3		%		80-120	29-NOV-17
Molybdenum (Mo)			103.6		%		80-120	29-NOV-17
Nickel (Ni)			102.5		%		80-120	29-NOV-17
Selenium (Se)			101.6		%		80-120	29-NOV-17
Silver (Ag)			100.5		%		80-120	29-NOV-17
Thallium (Tl)			95.4		%		80-120	29-NOV-17
Uranium (U)			97.1		%		80-120	29-NOV-17
Vanadium (V)			105.5		%		80-120	29-NOV-17
Zinc (Zn)			91.2		%		80-120	29-NOV-17
WG2673617-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	29-NOV-17
Arsenic (As)			<0.10		mg/kg		0.1	29-NOV-17
Barium (Ba)			<0.50		mg/kg		0.5	29-NOV-17
Beryllium (Be)			<0.10		mg/kg		0.1	29-NOV-17
Boron (B)			<5.0		mg/kg		5	29-NOV-17
Cadmium (Cd)			<0.020		mg/kg		0.02	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R3898091								
WG2673617-1 MB								
Chromium (Cr)			<0.50		mg/kg		0.5	29-NOV-17
Cobalt (Co)			<0.10		mg/kg		0.1	29-NOV-17
Copper (Cu)			<0.50		mg/kg		0.5	29-NOV-17
Lead (Pb)			<0.50		mg/kg		0.5	29-NOV-17
Molybdenum (Mo)			<0.10		mg/kg		0.1	29-NOV-17
Nickel (Ni)			<0.50		mg/kg		0.5	29-NOV-17
Selenium (Se)			<0.20		mg/kg		0.2	29-NOV-17
Silver (Ag)			<0.10		mg/kg		0.1	29-NOV-17
Thallium (Tl)			<0.050		mg/kg		0.05	29-NOV-17
Uranium (U)			<0.050		mg/kg		0.05	29-NOV-17
Vanadium (V)			<0.20		mg/kg		0.2	29-NOV-17
Zinc (Zn)			<2.0		mg/kg		2	29-NOV-17
Batch R3917991								
WG2688459-2 CRM		**WT-CANMET-TILL1**						
Antimony (Sb)			95.3		%		70-130	21-DEC-17
Arsenic (As)			104.6		%		70-130	21-DEC-17
Barium (Ba)			105.3		%		70-130	21-DEC-17
Beryllium (Be)			88.9		%		70-130	21-DEC-17
Boron (B)			3.5		mg/kg		0-8.2	21-DEC-17
Cadmium (Cd)			101.3		%		70-130	21-DEC-17
Chromium (Cr)			104.6		%		70-130	21-DEC-17
Cobalt (Co)			102.2		%		70-130	21-DEC-17
Copper (Cu)			102.9		%		70-130	21-DEC-17
Lead (Pb)			95.1		%		70-130	21-DEC-17
Molybdenum (Mo)			94.4		%		70-130	21-DEC-17
Nickel (Ni)			104.8		%		70-130	21-DEC-17
Selenium (Se)			0.31		mg/kg		0.11-0.51	21-DEC-17
Silver (Ag)			0.22		mg/kg		0.13-0.33	21-DEC-17
Thallium (Tl)			0.113		mg/kg		0.077-0.18	21-DEC-17
Uranium (U)			95.6		%		70-130	21-DEC-17
Vanadium (V)			103.0		%		70-130	21-DEC-17
Zinc (Zn)			104.0		%		70-130	21-DEC-17
WG2688459-6 DUP		**WG2688459-5**						
Antimony (Sb)		0.15	0.14		ug/g	1.2	30	21-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R3917991								
WG2688459-6 DUP		**WG2688459-5**						
Arsenic (As)		2.67	2.44		ug/g	9.1	30	21-DEC-17
Barium (Ba)		62.2	57.9		ug/g	7.2	40	21-DEC-17
Beryllium (Be)		0.34	0.34		ug/g	0.7	30	21-DEC-17
Boron (B)		6.8	7.3		ug/g	6.9	30	21-DEC-17
Cadmium (Cd)		0.118	0.116		ug/g	1.8	30	21-DEC-17
Chromium (Cr)		17.0	15.5		ug/g	9.4	30	21-DEC-17
Cobalt (Co)		5.52	5.06		ug/g	8.7	30	21-DEC-17
Copper (Cu)		12.6	11.4		ug/g	10	30	21-DEC-17
Lead (Pb)		13.3	11.7		ug/g	13	40	21-DEC-17
Molybdenum (Mo)		0.31	0.30		ug/g	1.4	40	21-DEC-17
Nickel (Ni)		12.1	10.9		ug/g	11	30	21-DEC-17
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	21-DEC-17
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	21-DEC-17
Thallium (Tl)		0.082	0.077		ug/g	6.7	30	21-DEC-17
Uranium (U)		0.450	0.437		ug/g	3.0	30	21-DEC-17
Vanadium (V)		27.5	26.3		ug/g	4.4	30	21-DEC-17
Zinc (Zn)		44.9	41.1		ug/g	9.0	30	21-DEC-17
WG2688459-4 LCS								
Antimony (Sb)			105.2		%		80-120	21-DEC-17
Arsenic (As)			101.0		%		80-120	21-DEC-17
Barium (Ba)			93.8		%		80-120	21-DEC-17
Beryllium (Be)			90.1		%		80-120	21-DEC-17
Boron (B)			88.5		%		80-120	21-DEC-17
Cadmium (Cd)			94.5		%		80-120	21-DEC-17
Chromium (Cr)			100.8		%		80-120	21-DEC-17
Cobalt (Co)			97.4		%		80-120	21-DEC-17
Copper (Cu)			95.6		%		80-120	21-DEC-17
Lead (Pb)			93.1		%		80-120	21-DEC-17
Molybdenum (Mo)			96.0		%		80-120	21-DEC-17
Nickel (Ni)			100.5		%		80-120	21-DEC-17
Selenium (Se)			95.2		%		80-120	21-DEC-17
Silver (Ag)			95.8		%		80-120	21-DEC-17
Thallium (Tl)			94.0		%		80-120	21-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R3917991								
WG2688459-4 LCS								
Uranium (U)			91.6		%		80-120	21-DEC-17
Vanadium (V)			101.7		%		80-120	21-DEC-17
Zinc (Zn)			94.0		%		80-120	21-DEC-17
WG2688459-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	21-DEC-17
Arsenic (As)			<0.10		mg/kg		0.1	21-DEC-17
Barium (Ba)			<0.50		mg/kg		0.5	21-DEC-17
Beryllium (Be)			<0.10		mg/kg		0.1	21-DEC-17
Boron (B)			<5.0		mg/kg		5	21-DEC-17
Cadmium (Cd)			<0.020		mg/kg		0.02	21-DEC-17
Chromium (Cr)			<0.50		mg/kg		0.5	21-DEC-17
Cobalt (Co)			<0.10		mg/kg		0.1	21-DEC-17
Copper (Cu)			<0.50		mg/kg		0.5	21-DEC-17
Lead (Pb)			<0.50		mg/kg		0.5	21-DEC-17
Molybdenum (Mo)			<0.10		mg/kg		0.1	21-DEC-17
Nickel (Ni)			<0.50		mg/kg		0.5	21-DEC-17
Selenium (Se)			<0.20		mg/kg		0.2	21-DEC-17
Silver (Ag)			<0.10		mg/kg		0.1	21-DEC-17
Thallium (Tl)			<0.050		mg/kg		0.05	21-DEC-17
Uranium (U)			<0.050		mg/kg		0.05	21-DEC-17
Vanadium (V)			<0.20		mg/kg		0.2	21-DEC-17
Zinc (Zn)			<2.0		mg/kg		2	21-DEC-17
MOISTURE-WT	**Soil**							
Batch R3897643								
WG2672890-3 DUP		**L2026656-2**						
% Moisture		15.7	15.6		%	0.7	20	29-NOV-17
WG2672890-2 LCS								
% Moisture			99.7		%		90-110	29-NOV-17
WG2672890-1 MB								
% Moisture			<0.10		%		0.1	29-NOV-17
Batch R3906227								
WG2679051-3 DUP		**L2031784-5**						
% Moisture		9.70	9.69		%	0.0	20	06-DEC-17
WG2679051-2 LCS								
% Moisture			99.5		%		90-110	06-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT	**Soil**							
Batch R3906227								
WG2679051-1 MB								
% Moisture			<0.10		%		0.1	06-DEC-17
PAH-511-WT	**Soil**							
Batch R3897710								
WG2672566-4 DUP		**WG2672566-3**						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	29-NOV-17
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	29-NOV-17
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	29-NOV-17
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	29-NOV-17
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	29-NOV-17
Benzo(a)anthracene		0.094	0.091		ug/g	3.2	40	29-NOV-17
Benzo(a)pyrene		0.092	0.086		ug/g	6.1	40	29-NOV-17
Benzo(b)fluoranthene		0.112	0.124		ug/g	9.8	40	29-NOV-17
Benzo(g,h,i)perylene		0.072	0.069		ug/g	4.6	40	29-NOV-17
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	29-NOV-17
Chrysene		0.100	0.096		ug/g	3.9	40	29-NOV-17
Dibenzo(ah)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	29-NOV-17
Fluoranthene		0.186	0.180		ug/g	2.9	40	29-NOV-17
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	29-NOV-17
Indeno(1,2,3-cd)pyrene		0.062	0.062		ug/g	0.8	40	29-NOV-17
Naphthalene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	29-NOV-17
Phenanthrene		0.115	0.107		ug/g	7.1	40	29-NOV-17
Pyrene		0.161	0.153		ug/g	4.9	40	29-NOV-17
WG2672566-2 LCS								
1-Methylnaphthalene			82.5		%		50-140	29-NOV-17
2-Methylnaphthalene			81.7		%		50-140	29-NOV-17
Acenaphthene			82.2		%		50-140	29-NOV-17
Acenaphthylene			78.0		%		50-140	29-NOV-17
Anthracene			78.9		%		50-140	29-NOV-17
Benzo(a)anthracene			78.2		%		50-140	29-NOV-17
Benzo(a)pyrene			71.5		%		50-140	29-NOV-17
Benzo(b)fluoranthene			67.9		%		50-140	29-NOV-17
Benzo(g,h,i)perylene			65.6		%		50-140	29-NOV-17
Benzo(k)fluoranthene			85.1				50-140	

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R3897710								
WG2672566-2 LCS								
Benzo(k)fluoranthene			85.1		%		50-140	29-NOV-17
Chrysene			85.8		%		50-140	29-NOV-17
Dibenzo(ah)anthracene			67.7		%		50-140	29-NOV-17
Fluoranthene			79.1		%		50-140	29-NOV-17
Fluorene			78.2		%		50-140	29-NOV-17
Indeno(1,2,3-cd)pyrene			64.6		%		50-140	29-NOV-17
Naphthalene			81.9		%		50-140	29-NOV-17
Phenanthrene			80.1		%		50-140	29-NOV-17
Pyrene			79.1		%		50-140	29-NOV-17
WG2672566-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	29-NOV-17
2-Methylnaphthalene			<0.030		ug/g		0.03	29-NOV-17
Acenaphthene			<0.050		ug/g		0.05	29-NOV-17
Acenaphthylene			<0.050		ug/g		0.05	29-NOV-17
Anthracene			<0.050		ug/g		0.05	29-NOV-17
Benzo(a)anthracene			<0.050		ug/g		0.05	29-NOV-17
Benzo(a)pyrene			<0.050		ug/g		0.05	29-NOV-17
Benzo(b)fluoranthene			<0.050		ug/g		0.05	29-NOV-17
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	29-NOV-17
Benzo(k)fluoranthene			<0.050		ug/g		0.05	29-NOV-17
Chrysene			<0.050		ug/g		0.05	29-NOV-17
Dibenzo(ah)anthracene			<0.050		ug/g		0.05	29-NOV-17
Fluoranthene			<0.050		ug/g		0.05	29-NOV-17
Fluorene			<0.050		ug/g		0.05	29-NOV-17
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	29-NOV-17
Naphthalene			<0.050		ug/g		0.05	29-NOV-17
Phenanthrene			<0.050		ug/g		0.05	29-NOV-17
Pyrene			<0.050		ug/g		0.05	29-NOV-17
Surrogate: 2-Fluorobiphenyl			83.0		%		50-140	29-NOV-17
Surrogate: p-Terphenyl d14			77.8		%		50-140	29-NOV-17
WG2672566-5 MS		**WG2672566-3**						
1-Methylnaphthalene			95.2		%		50-140	29-NOV-17
2-Methylnaphthalene			95.1		%		50-140	29-NOV-17
Acenaphthene			97.2		%		50-140	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R3897710								
WG2672566-5 MS		**WG2672566-3**						
Acenaphthylene			98.1		%		50-140	29-NOV-17
Anthracene			100.3		%		50-140	29-NOV-17
Benzo(a)anthracene			107.6		%		50-140	29-NOV-17
Benzo(a)pyrene			90.7		%		50-140	29-NOV-17
Benzo(b)fluoranthene			81.9		%		50-140	29-NOV-17
Benzo(g,h,i)perylene			84.1		%		50-140	29-NOV-17
Benzo(k)fluoranthene			97.8		%		50-140	29-NOV-17
Chrysene			96.7		%		50-140	29-NOV-17
Dibenzo(ah)anthracene			82.9		%		50-140	29-NOV-17
Fluoranthene			99.2		%		50-140	29-NOV-17
Fluorene			93.4		%		50-140	29-NOV-17
Indeno(1,2,3-cd)pyrene			94.6		%		50-140	29-NOV-17
Naphthalene			93.7		%		50-140	29-NOV-17
Phenanthrene			97.5		%		50-140	29-NOV-17
Pyrene			97.8		%		50-140	29-NOV-17
Batch R3899585								
WG2672255-4 DUP		**WG2672255-3**						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	30-NOV-17
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	30-NOV-17
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Benzo(b)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Dibenzo(ah)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Naphthalene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R3899585								
WG2672255-4 DUP		**WG2672255-3**						
Phenanthrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-NOV-17
WG2672255-2 LCS								
1-Methylnaphthalene			94.9		%		50-140	30-NOV-17
2-Methylnaphthalene			95.4		%		50-140	30-NOV-17
Acenaphthene			94.8		%		50-140	30-NOV-17
Acenaphthylene			90.2		%		50-140	30-NOV-17
Anthracene			91.5		%		50-140	30-NOV-17
Benzo(a)anthracene			91.5		%		50-140	30-NOV-17
Benzo(a)pyrene			88.9		%		50-140	30-NOV-17
Benzo(b)fluoranthene			94.9		%		50-140	30-NOV-17
Benzo(g,h,i)perylene			91.7		%		50-140	30-NOV-17
Benzo(k)fluoranthene			101.1		%		50-140	30-NOV-17
Chrysene			96.4		%		50-140	30-NOV-17
Dibenzo(ah)anthracene			91.1		%		50-140	30-NOV-17
Fluoranthene			87.7		%		50-140	30-NOV-17
Fluorene			90.3		%		50-140	30-NOV-17
Indeno(1,2,3-cd)pyrene			87.8		%		50-140	30-NOV-17
Naphthalene			94.3		%		50-140	30-NOV-17
Phenanthrene			92.3		%		50-140	30-NOV-17
Pyrene			86.4		%		50-140	30-NOV-17
WG2672255-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	30-NOV-17
2-Methylnaphthalene			<0.030		ug/g		0.03	30-NOV-17
Acenaphthene			<0.050		ug/g		0.05	30-NOV-17
Acenaphthylene			<0.050		ug/g		0.05	30-NOV-17
Anthracene			<0.050		ug/g		0.05	30-NOV-17
Benzo(a)anthracene			<0.050		ug/g		0.05	30-NOV-17
Benzo(a)pyrene			<0.050		ug/g		0.05	30-NOV-17
Benzo(b)fluoranthene			<0.050		ug/g		0.05	30-NOV-17
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	30-NOV-17
Benzo(k)fluoranthene			<0.050		ug/g		0.05	30-NOV-17
Chrysene			<0.050		ug/g		0.05	30-NOV-17
Dibenzo(ah)anthracene			<0.050		ug/g		0.05	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R3899585								
WG2672255-1 MB								
Fluoranthene			<0.050		ug/g		0.05	30-NOV-17
Fluorene			<0.050		ug/g		0.05	30-NOV-17
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	30-NOV-17
Naphthalene			<0.050		ug/g		0.05	30-NOV-17
Phenanthrene			<0.050		ug/g		0.05	30-NOV-17
Pyrene			<0.050		ug/g		0.05	30-NOV-17
Surrogate: 2-Fluorobiphenyl			88.0		%		50-140	30-NOV-17
Surrogate: p-Terphenyl d14			79.1		%		50-140	30-NOV-17
WG2672255-5 MS		**WG2672255-3**						
1-Methylnaphthalene			98.5		%		50-140	30-NOV-17
2-Methylnaphthalene			98.9		%		50-140	30-NOV-17
Acenaphthene			99.97		%		50-140	30-NOV-17
Acenaphthylene			94.7		%		50-140	30-NOV-17
Anthracene			96.0		%		50-140	30-NOV-17
Benzo(a)anthracene			102.1		%		50-140	30-NOV-17
Benzo(a)pyrene			96.4		%		50-140	30-NOV-17
Benzo(b)fluoranthene			100.5		%		50-140	30-NOV-17
Benzo(g,h,i)perylene			98.6		%		50-140	30-NOV-17
Benzo(k)fluoranthene			111.4		%		50-140	30-NOV-17
Chrysene			102.6		%		50-140	30-NOV-17
Dibenzo(ah)anthracene			101.0		%		50-140	30-NOV-17
Fluoranthene			99.0		%		50-140	30-NOV-17
Fluorene			97.3		%		50-140	30-NOV-17
Indeno(1,2,3-cd)pyrene			103.0		%		50-140	30-NOV-17
Naphthalene			95.6		%		50-140	30-NOV-17
Phenanthrene			95.8		%		50-140	30-NOV-17
Pyrene			99.2		%		50-140	30-NOV-17
PCB-511-WT	**Soil**							
Batch R3899335								
WG2672255-4 DUP		**WG2672255-3**						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	01-DEC-17
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	01-DEC-17
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	01-DEC-17
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	01-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-511-WT	**Soil**							
Batch R3899335								
WG2672255-2 LCS								
Aroclor 1242			97.4		%		60-140	01-DEC-17
Aroclor 1248			88.2		%		60-140	01-DEC-17
Aroclor 1254			99.1		%		60-140	01-DEC-17
Aroclor 1260			116.1		%		60-140	01-DEC-17
WG2672255-1 MB								
Aroclor 1242			<0.010		ug/g		0.01	01-DEC-17
Aroclor 1248			<0.010		ug/g		0.01	01-DEC-17
Aroclor 1254			<0.010		ug/g		0.01	01-DEC-17
Aroclor 1260			<0.010		ug/g		0.01	01-DEC-17
Surrogate: d14-Terphenyl			100.3		%		60-140	01-DEC-17
WG2672255-5 MS		**WG2672255-3**						
Aroclor 1242			102.5		%		60-140	01-DEC-17
Aroclor 1254			106.6		%		60-140	01-DEC-17
Aroclor 1260			126.6		%		60-140	01-DEC-17
Batch R3899518								
WG2672622-4 DUP		**WG2672622-3**						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	01-DEC-17
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	01-DEC-17
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	01-DEC-17
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	01-DEC-17
WG2672622-2 LCS								
Aroclor 1242			94.4		%		60-140	01-DEC-17
Aroclor 1248			85.1		%		60-140	01-DEC-17
Aroclor 1254			96.9		%		60-140	01-DEC-17
Aroclor 1260			115.0		%		60-140	01-DEC-17
WG2672622-1 MB								
Aroclor 1242			<0.010		ug/g		0.01	01-DEC-17
Aroclor 1248			<0.010		ug/g		0.01	01-DEC-17
Aroclor 1254			<0.010		ug/g		0.01	01-DEC-17
Aroclor 1260			<0.010		ug/g		0.01	01-DEC-17
Surrogate: d14-Terphenyl			95.9		%		60-140	01-DEC-17
WG2672622-5 MS		**WG2672622-3**						
Aroclor 1242			97.9		%		60-140	01-DEC-17
Aroclor 1254			102.5		%		60-140	01-DEC-17
Aroclor 1260			122.3		%		60-140	01-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WT	**Soil**							
Batch R3907888								
WG2680524-1 DUP		**L2030135-1**						
pH		7.97	8.00	J	pH units	0.03	0.3	08-DEC-17
WG2680673-1 LCS								
pH			6.99		pH units		6.9-7.1	08-DEC-17
Batch R3907895								
WG2680512-1 DUP		**L2031745-3**						
pH		7.77	7.77	J	pH units	0.00	0.3	09-DEC-17
WG2680672-1 LCS								
pH			6.99		pH units		6.9-7.1	09-DEC-17
SAR-R511-WT	**Soil**							
Batch R3914117								
WG2684831-4 DUP		**WG2684831-3**						
Calcium (Ca)		1.6	1.6		mg/L	2.1	30	15-DEC-17
Sodium (Na)		3.9	4.1		mg/L	4.6	30	15-DEC-17
Magnesium (Mg)		<1.0	<1.0	RPD-NA	mg/L	N/A	30	15-DEC-17
WG2684831-2 IRM		**WT SAR1**						
Calcium (Ca)			81.6		%		70-130	15-DEC-17
Sodium (Na)			91.6		%		70-130	15-DEC-17
Magnesium (Mg)			89.2		%		70-130	15-DEC-17
WG2684831-1 MB								
Calcium (Ca)			<1.0		mg/L		1	15-DEC-17
Sodium (Na)			<1.0		mg/L		1	15-DEC-17
Magnesium (Mg)			<1.0		mg/L		1	15-DEC-17
VOC-511-HS-WT	**Soil**							
Batch R3895829								
WG2670658-4 DUP		**WG2670658-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3895829								
WG2670658-4 DUP		**WG2670658-3**						
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	27-NOV-17
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	27-NOV-17
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	27-NOV-17
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	27-NOV-17
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	27-NOV-17
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	27-NOV-17
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	27-NOV-17
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	27-NOV-17
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	27-NOV-17
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	27-NOV-17
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	27-NOV-17
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-NOV-17
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	27-NOV-17
WG2670658-2 LCS								
1,1,1,2-Tetrachloroethane			104.6		%		60-130	27-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3895829								
WG2670658-2 LCS								
1,1,2,2-Tetrachloroethane			102.9		%		60-130	27-NOV-17
1,1,1-Trichloroethane			107.6		%		60-130	27-NOV-17
1,1,2-Trichloroethane			109.9		%		60-130	27-NOV-17
1,1-Dichloroethane			108.2		%		60-130	27-NOV-17
1,1-Dichloroethylene			97.8		%		60-130	27-NOV-17
1,2-Dibromoethane			111.2		%		70-130	27-NOV-17
1,2-Dichlorobenzene			111.3		%		70-130	27-NOV-17
1,2-Dichloroethane			114.5		%		60-130	27-NOV-17
1,2-Dichloropropane			110.9		%		70-130	27-NOV-17
1,3-Dichlorobenzene			111.4		%		70-130	27-NOV-17
1,4-Dichlorobenzene			113.9		%		70-130	27-NOV-17
Acetone			126.2		%		60-140	27-NOV-17
Benzene			110.7		%		70-130	27-NOV-17
Bromodichloromethane			108.7		%		50-140	27-NOV-17
Bromoform			103.7		%		70-130	27-NOV-17
Bromomethane			106.2		%		50-140	27-NOV-17
Carbon tetrachloride			105.6		%		70-130	27-NOV-17
Chlorobenzene			108.7		%		70-130	27-NOV-17
Chloroform			111.4		%		70-130	27-NOV-17
cis-1,2-Dichloroethylene			110.8		%		70-130	27-NOV-17
cis-1,3-Dichloropropene			112.2		%		70-130	27-NOV-17
Dibromochloromethane			111.1		%		60-130	27-NOV-17
Dichlorodifluoromethane			61.6		%		50-140	27-NOV-17
Ethylbenzene			98.8		%		70-130	27-NOV-17
n-Hexane			81.1		%		70-130	27-NOV-17
Methylene Chloride			113.6		%		70-130	27-NOV-17
MTBE			107.7		%		70-130	27-NOV-17
m+p-Xylenes			104.7		%		70-130	27-NOV-17
Methyl Ethyl Ketone			120.6		%		60-140	27-NOV-17
Methyl Isobutyl Ketone			116.7		%		60-140	27-NOV-17
o-Xylene			104.4		%		70-130	27-NOV-17
Styrene			103.7		%		70-130	27-NOV-17
Tetrachloroethylene			106.2		%		60-130	27-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3895829								
WG2670658-2 LCS								
Toluene			103.2		%		70-130	27-NOV-17
trans-1,2-Dichloroethylene			109.2		%		60-130	27-NOV-17
trans-1,3-Dichloropropene			107.6		%		70-130	27-NOV-17
Trichloroethylene			110.4		%		60-130	27-NOV-17
Trichlorofluoromethane			104.6		%		50-140	27-NOV-17
Vinyl chloride			96.7		%		60-140	27-NOV-17
WG2670658-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	27-NOV-17
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	27-NOV-17
1,1,1-Trichloroethane			<0.050		ug/g		0.05	27-NOV-17
1,1,2-Trichloroethane			<0.050		ug/g		0.05	27-NOV-17
1,1-Dichloroethane			<0.050		ug/g		0.05	27-NOV-17
1,1-Dichloroethylene			<0.050		ug/g		0.05	27-NOV-17
1,2-Dibromoethane			<0.050		ug/g		0.05	27-NOV-17
1,2-Dichlorobenzene			<0.050		ug/g		0.05	27-NOV-17
1,2-Dichloroethane			<0.050		ug/g		0.05	27-NOV-17
1,2-Dichloropropane			<0.050		ug/g		0.05	27-NOV-17
1,3-Dichlorobenzene			<0.050		ug/g		0.05	27-NOV-17
1,4-Dichlorobenzene			<0.050		ug/g		0.05	27-NOV-17
Acetone			<0.50		ug/g		0.5	27-NOV-17
Benzene			<0.0068		ug/g		0.0068	27-NOV-17
Bromodichloromethane			<0.050		ug/g		0.05	27-NOV-17
Bromoform			<0.050		ug/g		0.05	27-NOV-17
Bromomethane			<0.050		ug/g		0.05	27-NOV-17
Carbon tetrachloride			<0.050		ug/g		0.05	27-NOV-17
Chlorobenzene			<0.050		ug/g		0.05	27-NOV-17
Chloroform			<0.050		ug/g		0.05	27-NOV-17
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	27-NOV-17
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	27-NOV-17
Dibromochloromethane			<0.050		ug/g		0.05	27-NOV-17
Dichlorodifluoromethane			<0.050		ug/g		0.05	27-NOV-17
Ethylbenzene			<0.018		ug/g		0.018	27-NOV-17
n-Hexane			<0.050		ug/g		0.05	27-NOV-17
Methylene Chloride			<0.050		ug/g		0.05	27-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3895829								
WG2670658-1 MB								
MTBE			<0.050		ug/g		0.05	27-NOV-17
m+p-Xylenes			<0.030		ug/g		0.03	27-NOV-17
Methyl Ethyl Ketone			<0.50		ug/g		0.5	27-NOV-17
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	27-NOV-17
o-Xylene			<0.020		ug/g		0.02	27-NOV-17
Styrene			<0.050		ug/g		0.05	27-NOV-17
Tetrachloroethylene			<0.050		ug/g		0.05	27-NOV-17
Toluene			<0.080		ug/g		0.08	27-NOV-17
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	27-NOV-17
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	27-NOV-17
Trichloroethylene			<0.010		ug/g		0.01	27-NOV-17
Trichlorofluoromethane			<0.050		ug/g		0.05	27-NOV-17
Vinyl chloride			<0.020		ug/g		0.02	27-NOV-17
Surrogate: 1,4-Difluorobenzene			94.4		%		50-140	27-NOV-17
Surrogate: 4-Bromofluorobenzene			88.2		%		50-140	27-NOV-17
WG2670658-5 MS		**WG2670658-3**						
1,1,1,2-Tetrachloroethane			101.9		%		50-140	27-NOV-17
1,1,2,2-Tetrachloroethane			99.4		%		50-140	27-NOV-17
1,1,1-Trichloroethane			104.6		%		50-140	27-NOV-17
1,1,2-Trichloroethane			106.2		%		50-140	27-NOV-17
1,1-Dichloroethane			104.7		%		50-140	27-NOV-17
1,1-Dichloroethylene			95.2		%		50-140	27-NOV-17
1,2-Dibromoethane			107.6		%		50-140	27-NOV-17
1,2-Dichlorobenzene			108.4		%		50-140	27-NOV-17
1,2-Dichloroethane			109.5		%		50-140	27-NOV-17
1,2-Dichloropropane			107.1		%		50-140	27-NOV-17
1,3-Dichlorobenzene			109.0		%		50-140	27-NOV-17
1,4-Dichlorobenzene			111.4		%		50-140	27-NOV-17
Acetone			122.2		%		50-140	27-NOV-17
Benzene			107.1		%		50-140	27-NOV-17
Bromodichloromethane			104.1		%		50-140	27-NOV-17
Bromoform			100.2		%		50-140	27-NOV-17
Bromomethane			101.1		%		50-140	27-NOV-17
Carbon tetrachloride			102.6		%		50-140	27-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3895829								
WG2670658-5 MS		**WG2670658-3**						
Chlorobenzene			106.0		%		50-140	27-NOV-17
Chloroform			107.2		%		50-140	27-NOV-17
cis-1,2-Dichloroethylene			106.6		%		50-140	27-NOV-17
cis-1,3-Dichloropropene			105.1		%		50-140	27-NOV-17
Dibromochloromethane			107.4		%		50-140	27-NOV-17
Dichlorodifluoromethane			64.2		%		50-140	27-NOV-17
Ethylbenzene			97.3		%		50-140	27-NOV-17
n-Hexane			81.1		%		50-140	27-NOV-17
Methylene Chloride			109.2		%		50-140	27-NOV-17
MTBE			103.2		%		50-140	27-NOV-17
m+p-Xylenes			102.8		%		50-140	27-NOV-17
Methyl Ethyl Ketone			114.3		%		50-140	27-NOV-17
Methyl Isobutyl Ketone			111.7		%		50-140	27-NOV-17
o-Xylene			102.5		%		50-140	27-NOV-17
Styrene			101.0		%		50-140	27-NOV-17
Tetrachloroethylene			104.0		%		50-140	27-NOV-17
Toluene			101.4		%		50-140	27-NOV-17
trans-1,2-Dichloroethylene			106.1		%		50-140	27-NOV-17
trans-1,3-Dichloropropene			101.8		%		50-140	27-NOV-17
Trichloroethylene			106.6		%		50-140	27-NOV-17
Trichlorofluoromethane			103.3		%		50-140	27-NOV-17
Vinyl chloride			94.9		%		50-140	27-NOV-17
Batch R3906401								
WG2678441-4 DUP		**WG2678441-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3906401								
WG2678441-4 DUP		**WG2678441-3**						
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	07-DEC-17
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	07-DEC-17
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	07-DEC-17
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	07-DEC-17
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	07-DEC-17
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	07-DEC-17
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	07-DEC-17
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	07-DEC-17
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	07-DEC-17
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	07-DEC-17
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	07-DEC-17
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	07-DEC-17
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	07-DEC-17
WG2678441-2 LCS								
1,1,1,2-Tetrachloroethane			99.8		%		60-130	07-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3906401								
WG2678441-2 LCS								
1,1,2,2-Tetrachloroethane			92.0		%		60-130	07-DEC-17
1,1,1-Trichloroethane			99.0		%		60-130	07-DEC-17
1,1,2-Trichloroethane			102.3		%		60-130	07-DEC-17
1,1-Dichloroethane			102.0		%		60-130	07-DEC-17
1,1-Dichloroethylene			86.7		%		60-130	07-DEC-17
1,2-Dibromoethane			99.6		%		70-130	07-DEC-17
1,2-Dichlorobenzene			103.0		%		70-130	07-DEC-17
1,2-Dichloroethane			101.1		%		60-130	07-DEC-17
1,2-Dichloropropane			104.2		%		70-130	07-DEC-17
1,3-Dichlorobenzene			101.9		%		70-130	07-DEC-17
1,4-Dichlorobenzene			102.2		%		70-130	07-DEC-17
Acetone			104.0		%		60-140	07-DEC-17
Benzene			101.3		%		70-130	07-DEC-17
Bromodichloromethane			97.0		%		50-140	07-DEC-17
Bromoform			89.6		%		70-130	07-DEC-17
Bromomethane			82.7		%		50-140	07-DEC-17
Carbon tetrachloride			96.1		%		70-130	07-DEC-17
Chlorobenzene			102.4		%		70-130	07-DEC-17
Chloroform			101.6		%		70-130	07-DEC-17
cis-1,2-Dichloroethylene			99.0		%		70-130	07-DEC-17
cis-1,3-Dichloropropene			102.8		%		70-130	07-DEC-17
Dibromochloromethane			100.4		%		60-130	07-DEC-17
Dichlorodifluoromethane			43.5	MES	%		50-140	07-DEC-17
Ethylbenzene			100.7		%		70-130	07-DEC-17
n-Hexane			71.6		%		70-130	07-DEC-17
Methylene Chloride			99.95		%		70-130	07-DEC-17
MTBE			99.99		%		70-130	07-DEC-17
m+p-Xylenes			101.2		%		70-130	07-DEC-17
Methyl Ethyl Ketone			91.9		%		60-140	07-DEC-17
Methyl Isobutyl Ketone			92.8		%		60-140	07-DEC-17
o-Xylene			100.3		%		70-130	07-DEC-17
Styrene			97.3		%		70-130	07-DEC-17
Tetrachloroethylene			97.4		%		60-130	07-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3906401								
WG2678441-2 LCS								
Toluene			101.2		%		70-130	07-DEC-17
trans-1,2-Dichloroethylene			97.7		%		60-130	07-DEC-17
trans-1,3-Dichloropropene			101.8		%		70-130	07-DEC-17
Trichloroethylene			100.4		%		60-130	07-DEC-17
Trichlorofluoromethane			87.8		%		50-140	07-DEC-17
Vinyl chloride			76.4		%		60-140	07-DEC-17
WG2678441-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	07-DEC-17
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	07-DEC-17
1,1,1-Trichloroethane			<0.050		ug/g		0.05	07-DEC-17
1,1,2-Trichloroethane			<0.050		ug/g		0.05	07-DEC-17
1,1-Dichloroethane			<0.050		ug/g		0.05	07-DEC-17
1,1-Dichloroethylene			<0.050		ug/g		0.05	07-DEC-17
1,2-Dibromoethane			<0.050		ug/g		0.05	07-DEC-17
1,2-Dichlorobenzene			<0.050		ug/g		0.05	07-DEC-17
1,2-Dichloroethane			<0.050		ug/g		0.05	07-DEC-17
1,2-Dichloropropane			<0.050		ug/g		0.05	07-DEC-17
1,3-Dichlorobenzene			<0.050		ug/g		0.05	07-DEC-17
1,4-Dichlorobenzene			<0.050		ug/g		0.05	07-DEC-17
Acetone			<0.50		ug/g		0.5	07-DEC-17
Benzene			<0.0068		ug/g		0.0068	07-DEC-17
Bromodichloromethane			<0.050		ug/g		0.05	07-DEC-17
Bromoform			<0.050		ug/g		0.05	07-DEC-17
Bromomethane			<0.050		ug/g		0.05	07-DEC-17
Carbon tetrachloride			<0.050		ug/g		0.05	07-DEC-17
Chlorobenzene			<0.050		ug/g		0.05	07-DEC-17
Chloroform			<0.050		ug/g		0.05	07-DEC-17
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	07-DEC-17
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	07-DEC-17
Dibromochloromethane			<0.050		ug/g		0.05	07-DEC-17
Dichlorodifluoromethane			<0.050		ug/g		0.05	07-DEC-17
Ethylbenzene			<0.018		ug/g		0.018	07-DEC-17
n-Hexane			<0.050		ug/g		0.05	07-DEC-17
Methylene Chloride			<0.050		ug/g		0.05	07-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3906401								
WG2678441-1 MB								
MTBE			<0.050		ug/g		0.05	07-DEC-17
m+p-Xylenes			<0.030		ug/g		0.03	07-DEC-17
Methyl Ethyl Ketone			<0.50		ug/g		0.5	07-DEC-17
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	07-DEC-17
o-Xylene			<0.020		ug/g		0.02	07-DEC-17
Styrene			<0.050		ug/g		0.05	07-DEC-17
Tetrachloroethylene			<0.050		ug/g		0.05	07-DEC-17
Toluene			<0.080		ug/g		0.08	07-DEC-17
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	07-DEC-17
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	07-DEC-17
Trichloroethylene			<0.010		ug/g		0.01	07-DEC-17
Trichlorofluoromethane			<0.050		ug/g		0.05	07-DEC-17
Vinyl chloride			<0.020		ug/g		0.02	07-DEC-17
Surrogate: 1,4-Difluorobenzene			130.0		%		50-140	07-DEC-17
Surrogate: 4-Bromofluorobenzene			125.9		%		50-140	07-DEC-17
WG2678441-5 MS		**WG2678441-3**						
1,1,1,2-Tetrachloroethane			105.1		%		50-140	07-DEC-17
1,1,2,2-Tetrachloroethane			62.4		%		50-140	07-DEC-17
1,1,1-Trichloroethane			105.2		%		50-140	07-DEC-17
1,1,2-Trichloroethane			106.2		%		50-140	07-DEC-17
1,1-Dichloroethane			103.7		%		50-140	07-DEC-17
1,1-Dichloroethylene			94.4		%		50-140	07-DEC-17
1,2-Dibromoethane			104.6		%		50-140	07-DEC-17
1,2-Dichlorobenzene			106.5		%		50-140	07-DEC-17
1,2-Dichloroethane			105.3		%		50-140	07-DEC-17
1,2-Dichloropropane			108.0		%		50-140	07-DEC-17
1,3-Dichlorobenzene			104.0		%		50-140	07-DEC-17
1,4-Dichlorobenzene			104.4		%		50-140	07-DEC-17
Acetone			102.5		%		50-140	07-DEC-17
Benzene			106.4		%		50-140	07-DEC-17
Bromodichloromethane			100.8		%		50-140	07-DEC-17
Bromoform			93.9		%		50-140	07-DEC-17
Bromomethane			89.3		%		50-140	07-DEC-17
Carbon tetrachloride			102.4		%		50-140	07-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R3906401								
WG2678441-5 MS		**WG2678441-3**						
Chlorobenzene			107.4		%		50-140	07-DEC-17
Chloroform			106.3		%		50-140	07-DEC-17
cis-1,2-Dichloroethylene			97.2		%		50-140	07-DEC-17
cis-1,3-Dichloropropene			107.0		%		50-140	07-DEC-17
Dibromochloromethane			104.9		%		50-140	07-DEC-17
Dichlorodifluoromethane			53.2		%		50-140	07-DEC-17
Ethylbenzene			107.2		%		50-140	07-DEC-17
n-Hexane			81.0		%		50-140	07-DEC-17
Methylene Chloride			103.9		%		50-140	07-DEC-17
MTBE			104.8		%		50-140	07-DEC-17
m+p-Xylenes			107.3		%		50-140	07-DEC-17
Methyl Ethyl Ketone			92.2		%		50-140	07-DEC-17
Methyl Isobutyl Ketone			93.9		%		50-140	07-DEC-17
o-Xylene			106.5		%		50-140	07-DEC-17
Styrene			102.5		%		50-140	07-DEC-17
Tetrachloroethylene			103.9		%		50-140	07-DEC-17
Toluene			109.2		%		50-140	07-DEC-17
trans-1,2-Dichloroethylene			103.2		%		50-140	07-DEC-17
trans-1,3-Dichloropropene			108.3		%		50-140	07-DEC-17
Trichloroethylene			135.3		%		50-140	07-DEC-17
Trichlorofluoromethane			97.2		%		50-140	07-DEC-17
Vinyl chloride			84.5		%		50-140	07-DEC-17

Quality Control Report

Workorder: L2026572 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MBS	Surrogate recovery in Method Blank was outside ALS DQO. Moderately low-biased results in the MB do not significantly affect its purpose.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

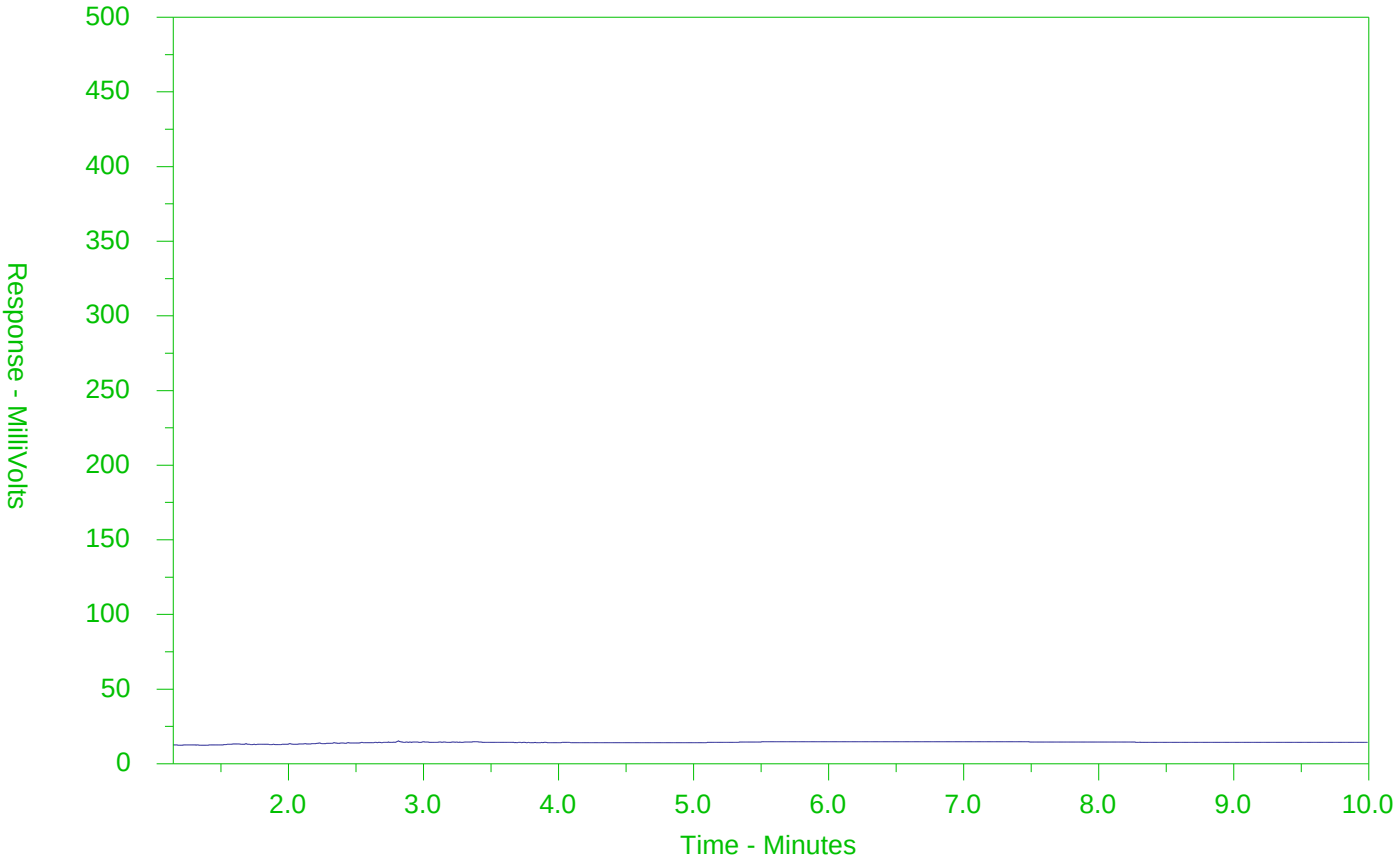
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2026572-6
Client Sample ID: BH101(15-15.5)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

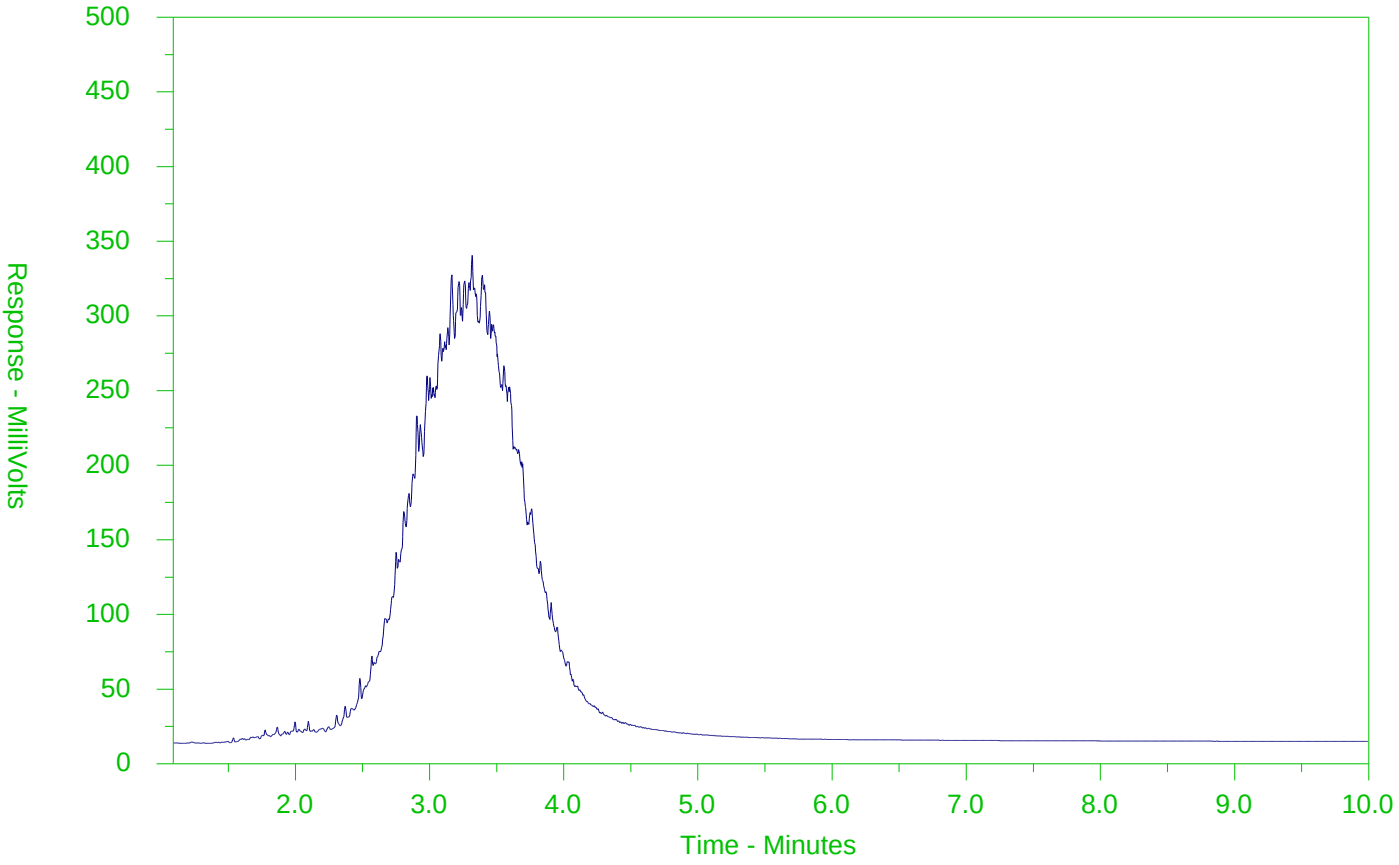
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2026572-15
Client Sample ID: BH111(10-12)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

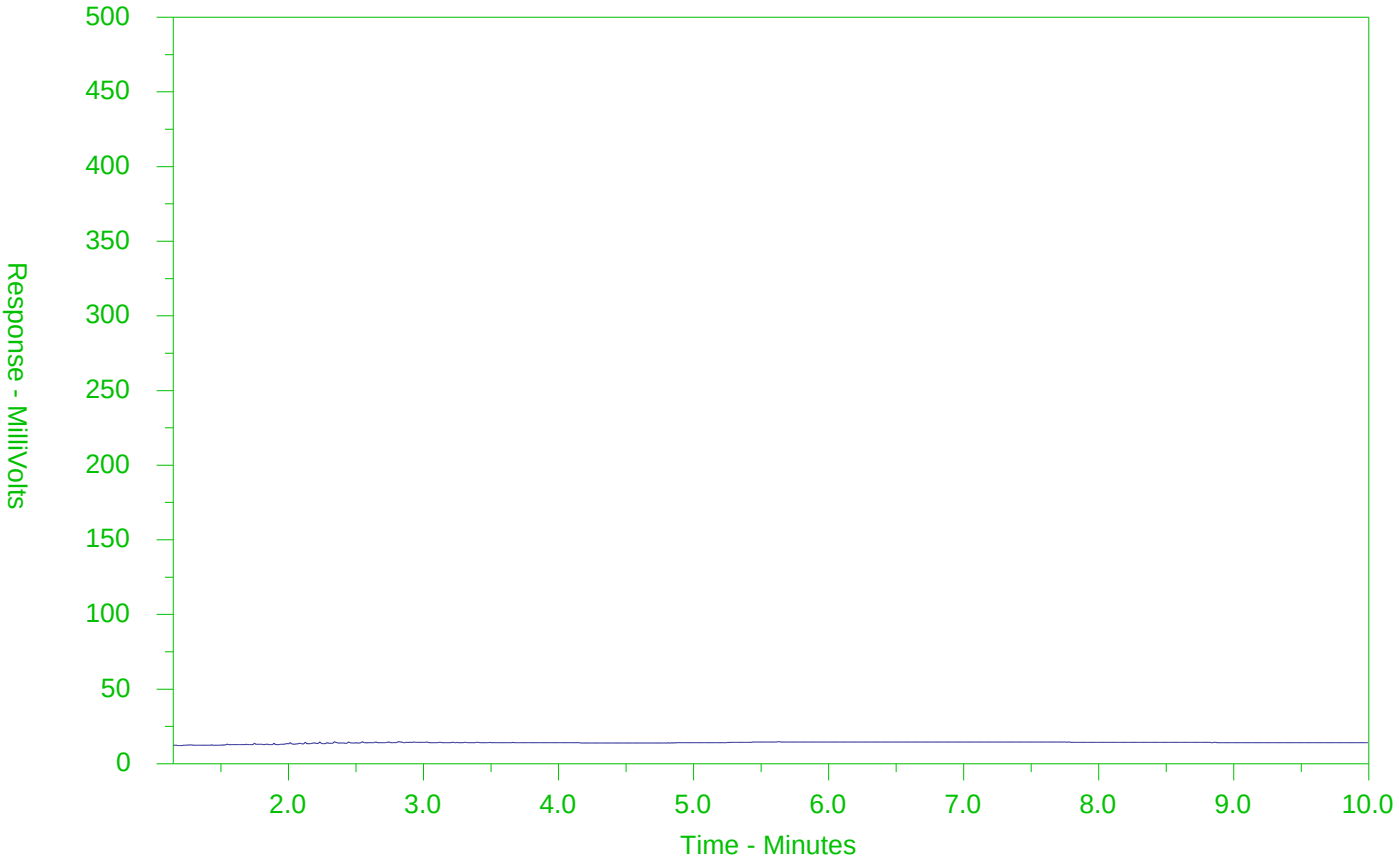
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2026572-21
Client Sample ID: BH120(15-16)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

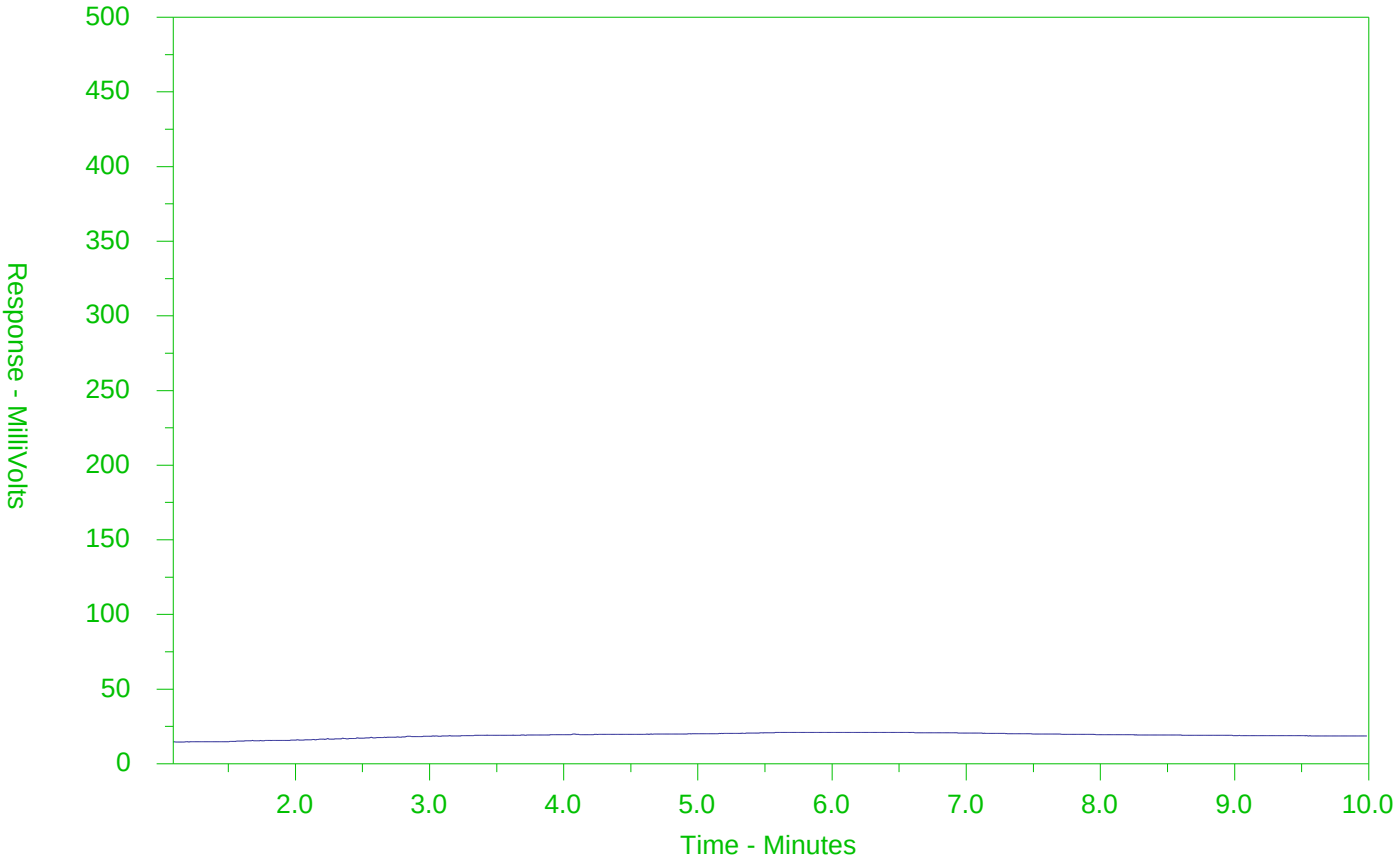
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2026572-22
Client Sample ID: BH1010(15-15.5)



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com
Canada Toll Free: 1 800 668 9878

L2026572-COFC

COC Number: 17 - 617277
Page 1 of 2

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	MTE Consultants Inc.	Select Report Format: [X] PDF [ ] EXCEL [ ] EDD (DIGITAL)	Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	S. BUCK	Quality Control (QC) Report with Report [X] YES [ ] NO	PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]
Phone:	905 639 2552	[X] Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E-100%] [ ]; Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] [ ]
	Company address below will appear on the final report	Select Distribution: [X] EMAIL [ ] MAIL [ ] FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:		Email 1 or Fax: sbuck@mte85.com	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:		Email 2: fjones@mte85.com	
Postal Code:		Email 3:	

Invoice To		Invoice Distribution
	Same as Report To [X] YES [ ] NO	Select Invoice Distribution: [X] EMAIL [ ] MAIL [ ] FAX
	Copy of Invoice with Report [ ] YES [X] NO	
Company:		Email 1 or Fax
Contact:		Email 2

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	389321-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:	23	Location:	
ALS Lab Work Order # (lab use only):	L2026572 DA	ALS Contact: MLP	Sampler: SDB

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Complete Metals	PAHs	ABNs	PCBs	PHCs	VOCs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
1	BH101 (1-3)	22-11-17	14:00	S	X	X		X					1
2	BH101 (3-4)		14:05				X						1
3	BH101 (5-7)		14:10								X		1
4	BH101 (8-9)		14:20								X		3
5	BH101 (13-14)		14:30								X		3
6	BH101 (15-15.5)		14:40						X	X			3
7	BH101 (18-18.5)		14:50								X		3
8	BH104 (1-3)		8:30				X	X					1
9	BH104 (5-7)		8:40								X		1
10	BH104 (10-12)		8:50								X		3
11	BH104 (15-16)		9:00							X			3
12	BH104 (18-19)		9:10								X		3

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	Compare to O.Reg 153/04 Tbl 3 R/P/I M/F
Are samples for human consumption/ use? [ ] YES [X] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	[ ]	SIF Observations	Yes [ ]	No	[ ]
Ice Packs [ ]	Ice Cubes [X]	Custody seal intact	Yes [ ]	No	[ ]
Cooling Initiated [X]					

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
3.6°C				2.9			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: S. BUCK	Date: 11/23/17	Time: 10:15	Received by: HARAN BURTON	Date: 23-Nov-2017	Time: 10:15	Received by: DA	Date: 23/11/17	Time: 15:15

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

AK

ALS Environmental
www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L2026572-COFC

COC Number: 17 - 617278

Page 2 of 2

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:		Select Report Format: [X] PDF [ ] EXCEL [ ] EDD (DIGITAL)	Regular [R] [ ] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:		Quality Control (QC) Report with Report [X] YES [ ] NO	PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]
Phone:	SAME	[X] Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E-100%] [ ]; Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] [ ]
	Company address below will appear on the final report	Select Distribution: [ ] EMAIL [ ] MAIL [ ] FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:		Email 1 or Fax	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:		Email 2 SAME	
Postal Code:		Email 3	
Invoice To	Same as Report To [X] YES [ ] NO	Invoice Distribution	Analysis Request
	Copy of Invoice with Report [ ] YES [X] NO	Select Invoice Distribution: [X] EMAIL [ ] MAIL [ ] FAX	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
Company:		Email 1 or Fax	
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	38934-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:	23B	Location:	
ALS Lab Work Order # (lab use only):	L202 DA	ALS Contact: MLP	Sampler: SDB

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Complete Metals	PAHs	ABNs	PCBs	PHCs	VOCs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
13	BH111(1-2)	22-11-17	15:00	S	X	X	X						1
14	BH111(5-7)		15:10								X		2
15	BH111(10-12)		15:20						X				3
16	BH111(13-14)		15:30								X		3
17	BH111(16-17)		15:40								X		3
18	BH120(1-2)		11:45		X	X							
19	BH120(5-7)		11:55								X		
20	BH120(10-12)		12:05								X		
21	BH120(15-16)		12:15						X	X			
22	BH1010(15-15.5)		14:15						X	X			

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	SAME
Are samples for human consumption/ use? [ ] YES [X] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)					
Frozen [ ]	SIF Observations	Yes [ ]	No [ ]		
Ice Packs [ ]	Ice Cubes [X]	Custody seal intact	Yes [ ]	No [ ]	
Cooling Initiated [X]					
INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
3.6°C			2.9		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: S. BUCK	Date: 11/23/17	Time: 10:15	Received by: AARON BURTON	Date: 23-Nov-2017	Time: 10:15	Received by: DA	Date: 23/11/17	Time: 15:25

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

MTE CONSULTANTS INC.
ATTN: Anthony Puntillo
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8

Date Received: 20-APR-18
Report Date: 02-MAY-19 10:38 (MT)
Version: FINAL REV. 3

Client Phone: 905-639-2552

Certificate of Analysis

Lab Work Order #: L2083688

Project P.O. #:	NOT SUBMITTED
Job Reference:	38934-100
C of C Numbers:	17-617280, 17-617281, 17-617282, 17-618764
Legal Site Desc:	

Comments: ADDITIONAL 30-APR-18 14:57

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-1 BH201-18 1-2						
Sampled By: CLIENT on 20-APR-18 @ 13:00						
Matrix: SOIL						#1
Physical Tests						
% Moisture	8.74		0.10	%	24-APR-18	
Polychlorinated Biphenyls						
Aroclor 1242	<0.010		0.010	ug/g	27-APR-18	
Aroclor 1248	<0.010		0.010	ug/g	27-APR-18	
Aroclor 1254	<0.010		0.010	ug/g	27-APR-18	
Aroclor 1260	<0.010		0.010	ug/g	27-APR-18	
Total PCBs	<0.020		0.020	ug/g	27-APR-18	0.35
Surrogate: d14-Terphenyl	93.8		60-140	%	27-APR-18	
L2083688-2 BH201-18 15-16						
Sampled By: CLIENT on 20-APR-18 @ 13:10						
Matrix: SOIL						#1
Physical Tests						
% Moisture	17.4		0.10	%	24-APR-18	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	25-APR-18	28
Benzene	<0.0068		0.0068	ug/g	25-APR-18	0.17
Bromodichloromethane	<0.050		0.050	ug/g	25-APR-18	1.9
Bromoform	<0.050		0.050	ug/g	25-APR-18	0.26
Bromomethane	<0.050		0.050	ug/g	25-APR-18	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	25-APR-18	0.12
Chlorobenzene	<0.050		0.050	ug/g	25-APR-18	2.7
Dibromochloromethane	<0.050		0.050	ug/g	25-APR-18	2.9
Chloroform	<0.050		0.050	ug/g	25-APR-18	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	25-APR-18	25
1,1-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.05
cis-1,2-Dichloroethylene	0.735		0.050	ug/g	25-APR-18	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.75
Methylene Chloride	<0.050		0.050	ug/g	25-APR-18	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	25-APR-18	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	25-APR-18	0.081
Ethylbenzene	<0.018		0.018	ug/g	25-APR-18	1.6
n-Hexane	<0.050		0.050	ug/g	25-APR-18	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	25-APR-18	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	25-APR-18	4.3
MTBE	<0.050		0.050	ug/g	25-APR-18	1.4
Styrene	<0.050		0.050	ug/g	25-APR-18	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-2 BH201-18 15-16						
Sampled By: CLIENT on 20-APR-18 @ 13:10						
Matrix: SOIL						#1
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	25-APR-18	2.3
Toluene	<0.080		0.080	ug/g	25-APR-18	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Trichloroethylene	0.125		0.010	ug/g	25-APR-18	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	25-APR-18	5.8
Vinyl chloride	0.052		0.020	ug/g	25-APR-18	*0.022
o-Xylene	<0.020		0.020	ug/g	25-APR-18	
m+p-Xylenes	<0.030		0.030	ug/g	25-APR-18	
Xylenes (Total)	<0.050		0.050	ug/g	25-APR-18	25
Surrogate: 4-Bromofluorobenzene	87.2		50-140	%	25-APR-18	
Surrogate: 1,4-Difluorobenzene	105.2		50-140	%	25-APR-18	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	25-APR-18	65
F1-BTEX	<5.0		5.0	ug/g	25-APR-18	65
F2 (C10-C16)	<10		10	ug/g	25-APR-18	150
F3 (C16-C34)	<50		50	ug/g	25-APR-18	1300
F4 (C34-C50)	<50		50	ug/g	25-APR-18	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	25-APR-18	
Chrom. to baseline at nC50	YES			No Unit	25-APR-18	
Surrogate: 2-Bromobenzotrifluoride	90.3		60-140	%	25-APR-18	
Surrogate: 3,4-Dichlorotoluene	88.0		60-140	%	25-APR-18	
L2083688-5 BH202-18 1-2						
Sampled By: CLIENT on 20-APR-18 @ 11:40						
Matrix: SOIL						#1
Physical Tests						
% Moisture	8.90		0.10	%	24-APR-18	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	26-APR-18	7.5
Arsenic (As)	6.9		1.0	ug/g	26-APR-18	18
Barium (Ba)	227		1.0	ug/g	26-APR-18	390
Beryllium (Be)	<0.50		0.50	ug/g	26-APR-18	5
Boron (B)	9.8		5.0	ug/g	26-APR-18	120
Cadmium (Cd)	<0.50		0.50	ug/g	26-APR-18	1.2
Chromium (Cr)	14.5		1.0	ug/g	26-APR-18	160
Cobalt (Co)	8.5		1.0	ug/g	26-APR-18	22
Copper (Cu)	51.8		1.0	ug/g	26-APR-18	180
Lead (Pb)	14.1		1.0	ug/g	26-APR-18	120
Molybdenum (Mo)	1.1		1.0	ug/g	26-APR-18	6.9
Nickel (Ni)	16.5		1.0	ug/g	26-APR-18	130
Selenium (Se)	<1.0		1.0	ug/g	26-APR-18	2.4
Silver (Ag)	<0.20		0.20	ug/g	26-APR-18	25
Thallium (Tl)	<0.50		0.50	ug/g	26-APR-18	1
Uranium (U)	<1.0		1.0	ug/g	26-APR-18	23

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2083688-5 BH202-18 1-2						
Sampled By: CLIENT on 20-APR-18 @ 11:40						
Matrix: SOIL						
Metals						
Vanadium (V)	22.4		1.0	ug/g	26-APR-18	86
Zinc (Zn)	56.2		5.0	ug/g	26-APR-18	340
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	25-APR-18	28
Benzene	<0.0068		0.0068	ug/g	25-APR-18	0.17
Bromodichloromethane	<0.050		0.050	ug/g	25-APR-18	1.9
Bromoform	<0.050		0.050	ug/g	25-APR-18	0.26
Bromomethane	<0.050		0.050	ug/g	25-APR-18	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	25-APR-18	0.12
Chlorobenzene	<0.050		0.050	ug/g	25-APR-18	2.7
Dibromochloromethane	<0.050		0.050	ug/g	25-APR-18	2.9
Chloroform	<0.050		0.050	ug/g	25-APR-18	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	25-APR-18	25
1,1-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.75
Methylene Chloride	<0.050		0.050	ug/g	25-APR-18	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	25-APR-18	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	25-APR-18	0.081
Ethylbenzene	<0.018		0.018	ug/g	25-APR-18	1.6
n-Hexane	<0.050		0.050	ug/g	25-APR-18	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	25-APR-18	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	25-APR-18	4.3
MTBE	<0.050		0.050	ug/g	25-APR-18	1.4
Styrene	<0.050		0.050	ug/g	25-APR-18	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	25-APR-18	2.3
Toluene	<0.080		0.080	ug/g	25-APR-18	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Trichloroethylene	<0.010		0.010	ug/g	25-APR-18	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	25-APR-18	5.8
Vinyl chloride	<0.020		0.020	ug/g	25-APR-18	0.022
o-Xylene	<0.020		0.020	ug/g	25-APR-18	
m+p-Xylenes	<0.030		0.030	ug/g	25-APR-18	
Xylenes (Total)	<0.050		0.050	ug/g	25-APR-18	25
Surrogate: 4-Bromofluorobenzene	81.4		50-140	%	25-APR-18	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2083688-5 BH202-18 1-2									
Sampled By: CLIENT on 20-APR-18 @ 11:40									
Matrix: SOIL						#1			
Volatile Organic Compounds									
Surrogate: 1,4-Difluorobenzene	97.4		50-140	%	25-APR-18				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	25-APR-18	65			
F1-BTEX	<5.0		5.0	ug/g	25-APR-18	65			
F2 (C10-C16)	<10		10	ug/g	25-APR-18	150			
F3 (C16-C34)	<50		50	ug/g	25-APR-18	1300			
F4 (C34-C50)	<50		50	ug/g	25-APR-18	5600			
Total Hydrocarbons (C6-C50)	<72		72	ug/g	25-APR-18				
Chrom. to baseline at nC50	YES			No Unit	25-APR-18				
Surrogate: 2-Bromobenzotrifluoride	83.7		60-140	%	25-APR-18				
Surrogate: 3,4-Dichlorotoluene	82.8		60-140	%	25-APR-18				
L2083688-8 BH203-18 1-2									
Sampled By: CLIENT on 20-APR-18 @ 11:15									
Matrix: SOIL						#1			
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	26-APR-18	7.5			
Arsenic (As)	5.6		1.0	ug/g	26-APR-18	18			
Barium (Ba)	57.7		1.0	ug/g	26-APR-18	390			
Beryllium (Be)	0.56		0.50	ug/g	26-APR-18	5			
Boron (B)	<5.0		5.0	ug/g	26-APR-18	120			
Cadmium (Cd)	<0.50		0.50	ug/g	26-APR-18	1.2			
Chromium (Cr)	15.1		1.0	ug/g	26-APR-18	160			
Cobalt (Co)	5.3		1.0	ug/g	26-APR-18	22			
Copper (Cu)	27.9		1.0	ug/g	26-APR-18	180			
Lead (Pb)	9.3		1.0	ug/g	26-APR-18	120			
Molybdenum (Mo)	<1.0		1.0	ug/g	26-APR-18	6.9			
Nickel (Ni)	13.2		1.0	ug/g	26-APR-18	130			
Selenium (Se)	<1.0		1.0	ug/g	26-APR-18	2.4			
Silver (Ag)	<0.20		0.20	ug/g	26-APR-18	25			
Thallium (Tl)	<0.50		0.50	ug/g	26-APR-18	1			
Uranium (U)	<1.0		1.0	ug/g	26-APR-18	23			
Vanadium (V)	28.7		1.0	ug/g	26-APR-18	86			
Zinc (Zn)	27.5		5.0	ug/g	26-APR-18	340			
L2083688-9 BH203-18 6-8									
Sampled By: CLIENT on 20-APR-18 @ 11:20									
Matrix: SOIL						#1			
Physical Tests									
% Moisture	16.0		0.10	%	24-APR-18				
Volatile Organic Compounds									
Acetone	<0.50		0.50	ug/g	25-APR-18	28			
Benzene	<0.0068		0.0068	ug/g	25-APR-18	0.17			
Bromodichloromethane	<0.050		0.050	ug/g	25-APR-18	1.9			
Bromoform	<0.050		0.050	ug/g	25-APR-18	0.26			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-9 BH203-18 6-8						
Sampled By: CLIENT on 20-APR-18 @ 11:20						
Matrix: SOIL						#1
Volatile Organic Compounds						
Bromomethane	<0.050		0.050	ug/g	25-APR-18	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	25-APR-18	0.12
Chlorobenzene	<0.050		0.050	ug/g	25-APR-18	2.7
Dibromochloromethane	<0.050		0.050	ug/g	25-APR-18	2.9
Chloroform	<0.050		0.050	ug/g	25-APR-18	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	25-APR-18	25
1,1-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.75
Methylene Chloride	<0.050		0.050	ug/g	25-APR-18	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	25-APR-18	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	25-APR-18	0.081
Ethylbenzene	<0.018		0.018	ug/g	25-APR-18	1.6
n-Hexane	<0.050		0.050	ug/g	25-APR-18	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	25-APR-18	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	25-APR-18	4.3
MTBE	<0.050		0.050	ug/g	25-APR-18	1.4
Styrene	<0.050		0.050	ug/g	25-APR-18	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	25-APR-18	2.3
Toluene	<0.080		0.080	ug/g	25-APR-18	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Trichloroethylene	<0.010		0.010	ug/g	25-APR-18	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	25-APR-18	5.8
Vinyl chloride	<0.020		0.020	ug/g	25-APR-18	0.022
o-Xylene	<0.020		0.020	ug/g	25-APR-18	
m+p-Xylenes	<0.030		0.030	ug/g	25-APR-18	
Xylenes (Total)	<0.050		0.050	ug/g	25-APR-18	25
Surrogate: 4-Bromofluorobenzene	78.6		50-140	%	25-APR-18	
Surrogate: 1,4-Difluorobenzene	94.9		50-140	%	25-APR-18	
L2083688-10 BH203-18 13-15						
Sampled By: CLIENT on 20-APR-18 @ 11:25						
Matrix: SOIL						#1
Physical Tests						
% Moisture	10.8		0.10	%	24-APR-18	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2083688-10 BH203-18 13-15						
Sampled By: CLIENT on 20-APR-18 @ 11:25						
Matrix: SOIL						
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	25-APR-18	28
Benzene	<0.0068		0.0068	ug/g	25-APR-18	0.17
Bromodichloromethane	<0.050		0.050	ug/g	25-APR-18	1.9
Bromoform	<0.050		0.050	ug/g	25-APR-18	0.26
Bromomethane	<0.050		0.050	ug/g	25-APR-18	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	25-APR-18	0.12
Chlorobenzene	<0.050		0.050	ug/g	25-APR-18	2.7
Dibromochloromethane	<0.050		0.050	ug/g	25-APR-18	2.9
Chloroform	<0.050		0.050	ug/g	25-APR-18	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	25-APR-18	25
1,1-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.75
Methylene Chloride	<0.050		0.050	ug/g	25-APR-18	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	25-APR-18	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	25-APR-18	0.081
Ethylbenzene	<0.018		0.018	ug/g	25-APR-18	1.6
n-Hexane	<0.050		0.050	ug/g	25-APR-18	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	25-APR-18	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	25-APR-18	4.3
MTBE	<0.050		0.050	ug/g	25-APR-18	1.4
Styrene	<0.050		0.050	ug/g	25-APR-18	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	25-APR-18	2.3
Toluene	<0.080		0.080	ug/g	25-APR-18	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Trichloroethylene	<0.010		0.010	ug/g	25-APR-18	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	25-APR-18	5.8
Vinyl chloride	<0.020		0.020	ug/g	25-APR-18	0.022
o-Xylene	<0.020		0.020	ug/g	25-APR-18	
m+p-Xylenes	<0.030		0.030	ug/g	25-APR-18	
Xylenes (Total)	<0.050		0.050	ug/g	25-APR-18	25
Surrogate: 4-Bromofluorobenzene	78.3		50-140	%	25-APR-18	
Surrogate: 1,4-Difluorobenzene	92.8		50-140	%	25-APR-18	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-12 BH204-18 3-4						
Sampled By: CLIENT on 20-APR-18 @ 11:55						
Matrix: SOIL						#1
Physical Tests						
% Moisture	11.5		0.10	%	24-APR-18	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	26-APR-18	7.5
Arsenic (As)	7.1		1.0	ug/g	26-APR-18	18
Barium (Ba)	173		1.0	ug/g	26-APR-18	390
Beryllium (Be)	0.80		0.50	ug/g	26-APR-18	5
Boron (B)	17.0		5.0	ug/g	26-APR-18	120
Cadmium (Cd)	<0.50		0.50	ug/g	26-APR-18	1.2
Chromium (Cr)	24.1		1.0	ug/g	26-APR-18	160
Cobalt (Co)	13.2		1.0	ug/g	26-APR-18	22
Copper (Cu)	44.2		1.0	ug/g	26-APR-18	180
Lead (Pb)	10.0		1.0	ug/g	26-APR-18	120
Molybdenum (Mo)	<1.0		1.0	ug/g	26-APR-18	6.9
Nickel (Ni)	27.8		1.0	ug/g	26-APR-18	130
Selenium (Se)	<1.0		1.0	ug/g	26-APR-18	2.4
Silver (Ag)	<0.20		0.20	ug/g	26-APR-18	25
Thallium (Tl)	<0.50		0.50	ug/g	26-APR-18	1
Uranium (U)	<1.0		1.0	ug/g	26-APR-18	23
Vanadium (V)	34.1		1.0	ug/g	26-APR-18	86
Zinc (Zn)	63.6		5.0	ug/g	26-APR-18	340
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	26-APR-18	29
Acenaphthylene	<0.050		0.050	ug/g	26-APR-18	0.17
Anthracene	<0.050		0.050	ug/g	26-APR-18	0.74
Benzo(a)anthracene	<0.050		0.050	ug/g	26-APR-18	0.63
Benzo(a)pyrene	<0.050		0.050	ug/g	26-APR-18	0.3
Benzo(b)fluoranthene	<0.050		0.050	ug/g	26-APR-18	0.78
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	26-APR-18	7.8
Benzo(k)fluoranthene	<0.050		0.050	ug/g	26-APR-18	0.78
Chrysene	<0.050		0.050	ug/g	26-APR-18	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	26-APR-18	0.1
Fluoranthene	<0.050		0.050	ug/g	26-APR-18	0.69
Fluorene	<0.050		0.050	ug/g	26-APR-18	69
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	26-APR-18	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	26-APR-18	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	26-APR-18	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	26-APR-18	3.4
Naphthalene	<0.013		0.013	ug/g	26-APR-18	0.75
Phenanthrene	<0.046		0.046	ug/g	26-APR-18	7.8
Pyrene	<0.050		0.050	ug/g	26-APR-18	78
Surrogate: 2-Fluorobiphenyl	76.7		50-140	%	26-APR-18	
Surrogate: p-Terphenyl d14	89.4		50-140	%	26-APR-18	
L2083688-14 BH1204-18 3-4						
Sampled By: CLIENT on 20-APR-18 @ 11:57						
Matrix: SOIL						#1

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-14 BH1204-18 3-4						
Sampled By: CLIENT on 20-APR-18 @ 11:57						
Matrix: SOIL						#1
Physical Tests						
% Moisture	10.4		0.10	%	24-APR-18	
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	26-APR-18	7.5
Arsenic (As)	5.9		1.0	ug/g	26-APR-18	18
Barium (Ba)	274		1.0	ug/g	26-APR-18	390
Beryllium (Be)	0.69		0.50	ug/g	26-APR-18	5
Boron (B)	15.1		5.0	ug/g	26-APR-18	120
Cadmium (Cd)	<0.50		0.50	ug/g	26-APR-18	1.2
Chromium (Cr)	21.7		1.0	ug/g	26-APR-18	160
Cobalt (Co)	11.8		1.0	ug/g	26-APR-18	22
Copper (Cu)	42.3		1.0	ug/g	26-APR-18	180
Lead (Pb)	9.1		1.0	ug/g	26-APR-18	120
Molybdenum (Mo)	<1.0		1.0	ug/g	26-APR-18	6.9
Nickel (Ni)	25.2		1.0	ug/g	26-APR-18	130
Selenium (Se)	<1.0		1.0	ug/g	26-APR-18	2.4
Silver (Ag)	<0.20		0.20	ug/g	26-APR-18	25
Thallium (Tl)	<0.50		0.50	ug/g	26-APR-18	1
Uranium (U)	<1.0		1.0	ug/g	26-APR-18	23
Vanadium (V)	30.9		1.0	ug/g	26-APR-18	86
Zinc (Zn)	54.6		5.0	ug/g	26-APR-18	340
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	26-APR-18	29
Acenaphthylene	<0.050		0.050	ug/g	26-APR-18	0.17
Anthracene	<0.050		0.050	ug/g	26-APR-18	0.74
Benzo(a)anthracene	<0.050		0.050	ug/g	26-APR-18	0.63
Benzo(a)pyrene	<0.050		0.050	ug/g	26-APR-18	0.3
Benzo(b)fluoranthene	<0.050		0.050	ug/g	26-APR-18	0.78
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	26-APR-18	7.8
Benzo(k)fluoranthene	<0.050		0.050	ug/g	26-APR-18	0.78
Chrysene	<0.050		0.050	ug/g	26-APR-18	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	26-APR-18	0.1
Fluoranthene	<0.050		0.050	ug/g	26-APR-18	0.69
Fluorene	<0.050		0.050	ug/g	26-APR-18	69
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	26-APR-18	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	26-APR-18	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	26-APR-18	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	26-APR-18	3.4
Naphthalene	<0.013		0.013	ug/g	26-APR-18	0.75
Phenanthrene	<0.046		0.046	ug/g	26-APR-18	7.8
Pyrene	<0.050		0.050	ug/g	26-APR-18	78
Surrogate: 2-Fluorobiphenyl	76.4		50-140	%	26-APR-18	
Surrogate: p-Terphenyl d14	88.5		50-140	%	26-APR-18	
L2083688-15 BH205-18 1-2						
Sampled By: CLIENT on 20-APR-18 @ 12:10						
Matrix: SOIL						#1

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-15 BH205-18 1-2						
Sampled By: CLIENT on 20-APR-18 @ 12:10						
Matrix: SOIL						#1
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	26-APR-18	7.5
Arsenic (As)	6.5		1.0	ug/g	26-APR-18	18
Barium (Ba)	84.0		1.0	ug/g	26-APR-18	390
Beryllium (Be)	0.65		0.50	ug/g	26-APR-18	5
Boron (B)	14.2		5.0	ug/g	26-APR-18	120
Cadmium (Cd)	<0.50		0.50	ug/g	26-APR-18	1.2
Chromium (Cr)	19.3		1.0	ug/g	26-APR-18	160
Cobalt (Co)	12.7		1.0	ug/g	26-APR-18	22
Copper (Cu)	56.2		1.0	ug/g	26-APR-18	180
Lead (Pb)	9.3		1.0	ug/g	26-APR-18	120
Molybdenum (Mo)	<1.0		1.0	ug/g	26-APR-18	6.9
Nickel (Ni)	25.9		1.0	ug/g	26-APR-18	130
Selenium (Se)	<1.0		1.0	ug/g	26-APR-18	2.4
Silver (Ag)	<0.20		0.20	ug/g	26-APR-18	25
Thallium (Tl)	<0.50		0.50	ug/g	26-APR-18	1
Uranium (U)	<1.0		1.0	ug/g	26-APR-18	23
Vanadium (V)	27.4		1.0	ug/g	26-APR-18	86
Zinc (Zn)	53.0		5.0	ug/g	26-APR-18	340
L2083688-17 BH206-18 3-4						
Sampled By: CLIENT on 20-APR-18 @ 14:52						
Matrix: SOIL						#1
Metals						
Antimony (Sb)	<1.0		1.0	ug/g	26-APR-18	7.5
Arsenic (As)	6.0		1.0	ug/g	26-APR-18	18
Barium (Ba)	122		1.0	ug/g	26-APR-18	390
Beryllium (Be)	0.83		0.50	ug/g	26-APR-18	5
Boron (B)	14.8		5.0	ug/g	26-APR-18	120
Cadmium (Cd)	<0.50		0.50	ug/g	26-APR-18	1.2
Chromium (Cr)	25.1		1.0	ug/g	26-APR-18	160
Cobalt (Co)	13.7		1.0	ug/g	26-APR-18	22
Copper (Cu)	39.5		1.0	ug/g	26-APR-18	180
Lead (Pb)	9.8		1.0	ug/g	26-APR-18	120
Molybdenum (Mo)	<1.0		1.0	ug/g	26-APR-18	6.9
Nickel (Ni)	27.4		1.0	ug/g	26-APR-18	130
Selenium (Se)	<1.0		1.0	ug/g	26-APR-18	2.4
Silver (Ag)	<0.20		0.20	ug/g	26-APR-18	25
Thallium (Tl)	<0.50		0.50	ug/g	26-APR-18	1
Uranium (U)	<1.0		1.0	ug/g	26-APR-18	23
Vanadium (V)	36.7		1.0	ug/g	26-APR-18	86
Zinc (Zn)	56.2		5.0	ug/g	26-APR-18	340
L2083688-19 BH207-18 1-2						
Sampled By: CLIENT on 20-APR-18 @ 09:45						
Matrix: SOIL						#1

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-19 BH207-18 1-2						
Sampled By: CLIENT on 20-APR-18 @ 09:45						
Matrix: SOIL						#1
Physical Tests						
% Moisture	12.2		0.10	%	24-APR-18	
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	26-APR-18	29
Acenaphthylene	<0.050		0.050	ug/g	26-APR-18	0.17
Anthracene	<0.050		0.050	ug/g	26-APR-18	0.74
Benzo(a)anthracene	<0.050		0.050	ug/g	26-APR-18	0.63
Benzo(a)pyrene	<0.050		0.050	ug/g	26-APR-18	0.3
Benzo(b)fluoranthene	<0.050		0.050	ug/g	26-APR-18	0.78
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	26-APR-18	7.8
Benzo(k)fluoranthene	<0.050		0.050	ug/g	26-APR-18	0.78
Chrysene	<0.050		0.050	ug/g	26-APR-18	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	26-APR-18	0.1
Fluoranthene	<0.050		0.050	ug/g	26-APR-18	0.69
Fluorene	<0.050		0.050	ug/g	26-APR-18	69
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	26-APR-18	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	26-APR-18	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	26-APR-18	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	26-APR-18	3.4
Naphthalene	<0.013		0.013	ug/g	26-APR-18	0.75
Phenanthrene	<0.046		0.046	ug/g	26-APR-18	7.8
Pyrene	<0.050		0.050	ug/g	26-APR-18	78
Surrogate: 2-Fluorobiphenyl	72.4		50-140	%	26-APR-18	
Surrogate: p-Terphenyl d14	84.7		50-140	%	26-APR-18	
L2083688-23 BH208-18 1-2						
Sampled By: CLIENT on 20-APR-18 @ 08:30						
Matrix: SOIL						#1
Physical Tests						
% Moisture	12.8		0.10	%	24-APR-18	
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	26-APR-18	29
Acenaphthylene	<0.050		0.050	ug/g	26-APR-18	0.17
Anthracene	0.131		0.050	ug/g	26-APR-18	0.74
Benzo(a)anthracene	0.236		0.050	ug/g	26-APR-18	0.63
Benzo(a)pyrene	0.171		0.050	ug/g	26-APR-18	0.3
Benzo(b)fluoranthene	0.273		0.050	ug/g	26-APR-18	0.78
Benzo(g,h,i)perylene	0.092		0.050	ug/g	26-APR-18	7.8
Benzo(k)fluoranthene	0.104		0.050	ug/g	26-APR-18	0.78
Chrysene	0.211		0.050	ug/g	26-APR-18	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	26-APR-18	0.1
Fluoranthene	0.480		0.050	ug/g	26-APR-18	0.69
Fluorene	<0.050		0.050	ug/g	26-APR-18	69
Indeno(1,2,3-cd)pyrene	0.103		0.050	ug/g	26-APR-18	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	26-APR-18	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	26-APR-18	3.4

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-23 BH208-18 1-2						
Sampled By: CLIENT on 20-APR-18 @ 08:30						
Matrix: SOIL						#1
Polycyclic Aromatic Hydrocarbons						
2-Methylnaphthalene	<0.030		0.030	ug/g	26-APR-18	3.4
Naphthalene	<0.013		0.013	ug/g	26-APR-18	0.75
Phenanthrene	0.436		0.046	ug/g	26-APR-18	7.8
Pyrene	0.355		0.050	ug/g	26-APR-18	78
Surrogate: 2-Fluorobiphenyl	73.2		50-140	%	26-APR-18	
Surrogate: p-Terphenyl d14	84.0		50-140	%	26-APR-18	
L2083688-26 BH209-18 6-8						
Sampled By: CLIENT on 20-APR-18 @ 09:20						
Matrix: SOIL						#1
Physical Tests						
% Moisture	13.6		0.10	%	24-APR-18	
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.050		0.050	ug/g	27-APR-18	29
Acenaphthylene	<0.050		0.050	ug/g	27-APR-18	0.17
Anthracene	<0.050		0.050	ug/g	27-APR-18	0.74
Benzo(a)anthracene	<0.050		0.050	ug/g	27-APR-18	0.63
Benzo(a)pyrene	<0.050		0.050	ug/g	27-APR-18	0.3
Benzo(b)fluoranthene	<0.050		0.050	ug/g	27-APR-18	0.78
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	27-APR-18	7.8
Benzo(k)fluoranthene	<0.050		0.050	ug/g	27-APR-18	0.78
Chrysene	<0.050		0.050	ug/g	27-APR-18	7.8
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	27-APR-18	0.1
Fluoranthene	<0.050		0.050	ug/g	27-APR-18	0.69
Fluorene	<0.050		0.050	ug/g	27-APR-18	69
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	27-APR-18	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	27-APR-18	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	27-APR-18	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	27-APR-18	3.4
Naphthalene	<0.013		0.013	ug/g	27-APR-18	0.75
Phenanthrene	<0.046		0.046	ug/g	27-APR-18	7.8
Pyrene	<0.050		0.050	ug/g	27-APR-18	78
Surrogate: 2-Fluorobiphenyl	83.5		50-140	%	27-APR-18	
Surrogate: p-Terphenyl d14	84.2		50-140	%	27-APR-18	
L2083688-28 BH209-18 15-17						
Sampled By: CLIENT on 20-APR-18 @ 09:30						
Matrix: SOIL						#1
Physical Tests						
% Moisture	11.7		0.10	%	24-APR-18	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	25-APR-18	28
Benzene	<0.0068		0.0068	ug/g	25-APR-18	0.17
Bromodichloromethane	<0.050		0.050	ug/g	25-APR-18	1.9
Bromoform	<0.050		0.050	ug/g	25-APR-18	0.26

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-28 BH209-18 15-17						
Sampled By: CLIENT on 20-APR-18 @ 09:30						
Matrix: SOIL						#1
Volatile Organic Compounds						
Bromomethane	<0.050		0.050	ug/g	25-APR-18	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	25-APR-18	0.12
Chlorobenzene	<0.050		0.050	ug/g	25-APR-18	2.7
Dibromochloromethane	<0.050		0.050	ug/g	25-APR-18	2.9
Chloroform	<0.050		0.050	ug/g	25-APR-18	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	25-APR-18	25
1,1-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.75
Methylene Chloride	<0.050		0.050	ug/g	25-APR-18	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	25-APR-18	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	25-APR-18	0.081
Ethylbenzene	<0.018		0.018	ug/g	25-APR-18	1.6
n-Hexane	<0.050		0.050	ug/g	25-APR-18	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	25-APR-18	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	25-APR-18	4.3
MTBE	<0.050		0.050	ug/g	25-APR-18	1.4
Styrene	<0.050		0.050	ug/g	25-APR-18	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	25-APR-18	2.3
Toluene	<0.080		0.080	ug/g	25-APR-18	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Trichloroethylene	<0.010		0.010	ug/g	25-APR-18	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	25-APR-18	5.8
Vinyl chloride	<0.020		0.020	ug/g	25-APR-18	0.022
o-Xylene	<0.020		0.020	ug/g	25-APR-18	
m+p-Xylenes	<0.030		0.030	ug/g	25-APR-18	
Xylenes (Total)	<0.050		0.050	ug/g	25-APR-18	25
Surrogate: 4-Bromofluorobenzene	80.4		50-140	%	25-APR-18	
Surrogate: 1,4-Difluorobenzene	97.5		50-140	%	25-APR-18	
L2083688-30 BH210-1818-19.5						
Sampled By: CLIENT on 20-APR-18 @ 12:30						
Matrix: SOIL						#1
Physical Tests						
% Moisture	8.58		0.10	%	24-APR-18	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-30 BH210-1818-19.5						
Sampled By: CLIENT on 20-APR-18 @ 12:30						
Matrix: SOIL						#1
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	25-APR-18	65
F2 (C10-C16)	<10		10	ug/g	25-APR-18	150
F3 (C16-C34)	<50		50	ug/g	25-APR-18	1300
F4 (C34-C50)	<50		50	ug/g	25-APR-18	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	25-APR-18	
Chrom. to baseline at nC50	YES			No Unit	25-APR-18	
Surrogate: 2-Bromobenzotrifluoride	99.4		60-140	%	25-APR-18	
Surrogate: 3,4-Dichlorotoluene	101.7		60-140	%	25-APR-18	
L2083688-31 BH1210-18 18-19.5						
Sampled By: CLIENT on 20-APR-18 @ 12:32						
Matrix: SOIL						#1
Physical Tests						
% Moisture	8.32		0.10	%	24-APR-18	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	25-APR-18	65
F2 (C10-C16)	<10		10	ug/g	25-APR-18	150
F3 (C16-C34)	<50		50	ug/g	25-APR-18	1300
F4 (C34-C50)	<50		50	ug/g	25-APR-18	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	25-APR-18	
Chrom. to baseline at nC50	YES			No Unit	25-APR-18	
Surrogate: 2-Bromobenzotrifluoride	83.5		60-140	%	25-APR-18	
Surrogate: 3,4-Dichlorotoluene	98.2		60-140	%	25-APR-18	
L2083688-32 MW211-18 3-4						
Sampled By: CLIENT on 20-APR-18 @ 15:00						
Matrix: SOIL						#1
Physical Tests						
% Moisture	11.5		0.10	%	25-APR-18	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	25-APR-18	28
Benzene	<0.0068		0.0068	ug/g	25-APR-18	0.17
Bromodichloromethane	<0.050		0.050	ug/g	25-APR-18	1.9
Bromoform	<0.050		0.050	ug/g	25-APR-18	0.26
Bromomethane	<0.050		0.050	ug/g	25-APR-18	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	25-APR-18	0.12
Chlorobenzene	<0.050		0.050	ug/g	25-APR-18	2.7
Dibromochloromethane	<0.050		0.050	ug/g	25-APR-18	2.9
Chloroform	<0.050		0.050	ug/g	25-APR-18	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	25-APR-18	25
1,1-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-32 MW211-18 3-4						
Sampled By: CLIENT on 20-APR-18 @ 15:00						
Matrix: SOIL						#1
Volatile Organic Compounds						
1,1-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.75
Methylene Chloride	<0.050		0.050	ug/g	25-APR-18	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	25-APR-18	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	27-APR-18	0.081
Ethylbenzene	<0.018		0.018	ug/g	25-APR-18	1.6
n-Hexane	<0.050		0.050	ug/g	25-APR-18	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	25-APR-18	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	25-APR-18	4.3
MTBE	<0.050		0.050	ug/g	25-APR-18	1.4
Styrene	<0.050		0.050	ug/g	25-APR-18	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	25-APR-18	2.3
Toluene	<0.080		0.080	ug/g	25-APR-18	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Trichloroethylene	<0.010		0.010	ug/g	25-APR-18	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	25-APR-18	5.8
Vinyl chloride	<0.020		0.020	ug/g	25-APR-18	0.022
o-Xylene	<0.020		0.020	ug/g	25-APR-18	
m+p-Xylenes	<0.030		0.030	ug/g	25-APR-18	
Xylenes (Total)	<0.050		0.050	ug/g	27-APR-18	25
Surrogate: 4-Bromofluorobenzene	78.3		50-140	%	25-APR-18	
Surrogate: 1,4-Difluorobenzene	92.0		50-140	%	25-APR-18	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	25-APR-18	65
F1-BTEX	<5.0		5.0	ug/g	27-APR-18	65
F2 (C10-C16)	<10		10	ug/g	25-APR-18	150
F3 (C16-C34)	<50		50	ug/g	25-APR-18	1300
F4 (C34-C50)	<50		50	ug/g	25-APR-18	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-APR-18	
Chrom. to baseline at nC50	YES			No Unit	25-APR-18	
Surrogate: 2-Bromobenzotrifluoride	81.7		60-140	%	25-APR-18	
Surrogate: 3,4-Dichlorotoluene	76.1		60-140	%	25-APR-18	
L2083688-35 MW212-18 3-4						
Sampled By: CLIENT on 20-APR-18 @ 14:40						
Matrix: SOIL						#1
Physical Tests						
% Moisture	8.60		0.10	%	25-APR-18	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	25-APR-18	65

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-35 MW212-18 3-4						
Sampled By: CLIENT on 20-APR-18 @ 14:40						
Matrix: SOIL						#1
Hydrocarbons						
F2 (C10-C16)	<10		10	ug/g	25-APR-18	150
F3 (C16-C34)	<50		50	ug/g	25-APR-18	1300
F4 (C34-C50)	<50		50	ug/g	25-APR-18	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	26-APR-18	
Chrom. to baseline at nC50	YES			No Unit	25-APR-18	
Surrogate: 2-Bromobenzotrifluoride	85.6		60-140	%	25-APR-18	
Surrogate: 3,4-Dichlorotoluene	95.2		60-140	%	25-APR-18	
L2083688-39 MW213-18 3-4						
Sampled By: CLIENT on 20-APR-18 @ 14:20						
Matrix: SOIL						#1
Physical Tests						
% Moisture	10.6		0.10	%	25-APR-18	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	25-APR-18	28
Benzene	<0.0068		0.0068	ug/g	25-APR-18	0.17
Bromodichloromethane	<0.050		0.050	ug/g	25-APR-18	1.9
Bromoform	<0.050		0.050	ug/g	25-APR-18	0.26
Bromomethane	<0.050		0.050	ug/g	25-APR-18	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	25-APR-18	0.12
Chlorobenzene	<0.050		0.050	ug/g	25-APR-18	2.7
Dibromochloromethane	<0.050		0.050	ug/g	25-APR-18	2.9
Chloroform	<0.050		0.050	ug/g	25-APR-18	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	25-APR-18	25
1,1-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.05
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.75
Methylene Chloride	<0.050		0.050	ug/g	25-APR-18	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	25-APR-18	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	27-APR-18	0.081
Ethylbenzene	<0.018		0.018	ug/g	25-APR-18	1.6
n-Hexane	<0.050		0.050	ug/g	25-APR-18	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	25-APR-18	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	25-APR-18	4.3
MTBE	<0.050		0.050	ug/g	25-APR-18	1.4
Styrene	<0.050		0.050	ug/g	25-APR-18	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-39 MW213-18 3-4						
Sampled By: CLIENT on 20-APR-18 @ 14:20						
Matrix: SOIL						#1
Volatile Organic Compounds						
Tetrachloroethylene	<0.050		0.050	ug/g	25-APR-18	2.3
Toluene	<0.080		0.080	ug/g	25-APR-18	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Trichloroethylene	0.079		0.010	ug/g	25-APR-18	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	25-APR-18	5.8
Vinyl chloride	<0.020		0.020	ug/g	25-APR-18	0.022
o-Xylene	<0.020		0.020	ug/g	25-APR-18	
m+p-Xylenes	<0.030		0.030	ug/g	25-APR-18	
Xylenes (Total)	<0.050		0.050	ug/g	27-APR-18	25
Surrogate: 4-Bromofluorobenzene	79.3		50-140	%	25-APR-18	
Surrogate: 1,4-Difluorobenzene	94.1		50-140	%	25-APR-18	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	25-APR-18	65
F1-BTEX	<5.0		5.0	ug/g	27-APR-18	65
F2 (C10-C16)	<10		10	ug/g	25-APR-18	150
F3 (C16-C34)	<50		50	ug/g	25-APR-18	1300
F4 (C34-C50)	<50		50	ug/g	25-APR-18	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-APR-18	
Chrom. to baseline at nC50	YES			No Unit	25-APR-18	
Surrogate: 2-Bromobenzotrifluoride	89.3		60-140	%	25-APR-18	
Surrogate: 3,4-Dichlorotoluene	86.0		60-140	%	25-APR-18	
L2083688-41 MW213-18 10-12						
Sampled By: CLIENT on 20-APR-18 @ 14:30						
Matrix: SOIL						#1
Physical Tests						
% Moisture	8.57		0.10	%	25-APR-18	
Volatile Organic Compounds						
Acetone	<0.50		0.50	ug/g	25-APR-18	28
Benzene	<0.0068		0.0068	ug/g	25-APR-18	0.17
Bromodichloromethane	<0.050		0.050	ug/g	25-APR-18	1.9
Bromoform	<0.050		0.050	ug/g	25-APR-18	0.26
Bromomethane	<0.050		0.050	ug/g	25-APR-18	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	25-APR-18	0.12
Chlorobenzene	<0.050		0.050	ug/g	25-APR-18	2.7
Dibromochloromethane	<0.050		0.050	ug/g	25-APR-18	2.9
Chloroform	<0.050		0.050	ug/g	25-APR-18	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	1.7
1,3-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	25-APR-18	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	25-APR-18	25
1,1-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.6
1,2-Dichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-41 MW213-18 10-12						
Sampled By: CLIENT on 20-APR-18 @ 14:30						
Matrix: SOIL						#1
Volatile Organic Compounds						
cis-1,2-Dichloroethylene	0.146		0.050	ug/g	25-APR-18	2.5
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	25-APR-18	0.75
Methylene Chloride	<0.050		0.050	ug/g	25-APR-18	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	25-APR-18	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	25-APR-18	
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	27-APR-18	0.081
Ethylbenzene	<0.018		0.018	ug/g	25-APR-18	1.6
n-Hexane	<0.050		0.050	ug/g	25-APR-18	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	25-APR-18	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	25-APR-18	4.3
MTBE	<0.050		0.050	ug/g	25-APR-18	1.4
Styrene	<0.050		0.050	ug/g	25-APR-18	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	25-APR-18	2.3
Toluene	<0.080		0.080	ug/g	25-APR-18	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	25-APR-18	0.05
Trichloroethylene	2.28		0.010	ug/g	25-APR-18	*0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	25-APR-18	5.8
Vinyl chloride	<0.020		0.020	ug/g	25-APR-18	0.022
o-Xylene	<0.020		0.020	ug/g	25-APR-18	
m+p-Xylenes	<0.030		0.030	ug/g	25-APR-18	
Xylenes (Total)	<0.050		0.050	ug/g	27-APR-18	25
Surrogate: 4-Bromofluorobenzene	77.6		50-140	%	25-APR-18	
Surrogate: 1,4-Difluorobenzene	92.4		50-140	%	25-APR-18	
L2083688-43 MW214-18 1-2						
Sampled By: CLIENT on 20-APR-18 @ 10:30						
Matrix: SOIL						#1
Physical Tests						
% Moisture	11.3		0.10	%	25-APR-18	
Volatile Organic Compounds						
Benzene	<0.0068		0.0068	ug/g	26-APR-18	0.17
Ethylbenzene	<0.018		0.018	ug/g	25-APR-18	1.6
Toluene	<0.080		0.080	ug/g	25-APR-18	6
o-Xylene	<0.020		0.020	ug/g	25-APR-18	
m+p-Xylenes	<0.030		0.030	ug/g	25-APR-18	
Xylenes (Total)	<0.050		0.050	ug/g	26-APR-18	25
Surrogate: 4-Bromofluorobenzene	85.9		50-140	%	25-APR-18	
Surrogate: 1,4-Difluorobenzene	89.8		50-140	%	25-APR-18	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	25-APR-18	65
F1-BTEX	<5.0		5.0	ug/g	26-APR-18	65
F2 (C10-C16)	<10		10	ug/g	25-APR-18	150

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2083688-43 MW214-18 1-2						
Sampled By: CLIENT on 20-APR-18 @ 10:30						
Matrix: SOIL						#1
Hydrocarbons						
F3 (C16-C34)	<50		50	ug/g	25-APR-18	1300
F4 (C34-C50)	<50		50	ug/g	25-APR-18	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	26-APR-18	
Chrom. to baseline at nC50	YES			No Unit	25-APR-18	
Surrogate: 2-Bromobenzotrifluoride	81.5		60-140	%	25-APR-18	
Surrogate: 3,4-Dichlorotoluene	92.9		60-140	%	25-APR-18	
Polychlorinated Biphenyls						
Aroclor 1242	<0.010		0.010	ug/g	27-APR-18	
Aroclor 1248	<0.010		0.010	ug/g	27-APR-18	
Aroclor 1254	<0.010		0.010	ug/g	27-APR-18	
Aroclor 1260	<0.010		0.010	ug/g	27-APR-18	
Total PCBs	<0.020		0.020	ug/g	27-APR-18	0.35
Surrogate: d14-Terphenyl	97.9		60-140	%	27-APR-18	
L2083688-45 MW215-18 1-2						
Sampled By: CLIENT on 20-APR-18 @ 10:45						
Matrix: SOIL						#1
Physical Tests						
% Moisture	13.0		0.10	%	25-APR-18	
Volatile Organic Compounds						
Benzene	<0.0068		0.0068	ug/g	26-APR-18	0.17
Ethylbenzene	<0.018		0.018	ug/g	25-APR-18	1.6
Toluene	<0.080		0.080	ug/g	25-APR-18	6
o-Xylene	<0.020		0.020	ug/g	25-APR-18	
m+p-Xylenes	<0.030		0.030	ug/g	25-APR-18	
Xylenes (Total)	<0.050		0.050	ug/g	26-APR-18	25
Surrogate: 4-Bromofluorobenzene	88.9		50-140	%	25-APR-18	
Surrogate: 1,4-Difluorobenzene	95.0		50-140	%	25-APR-18	
Hydrocarbons						
F1 (C6-C10)	<5.0		5.0	ug/g	25-APR-18	65
F1-BTEX	<5.0		5.0	ug/g	26-APR-18	65
F2 (C10-C16)	<10		10	ug/g	25-APR-18	150
F3 (C16-C34)	150		50	ug/g	25-APR-18	1300
F4 (C34-C50)	<50		50	ug/g	25-APR-18	5600
Total Hydrocarbons (C6-C50)	150		72	ug/g	26-APR-18	
Chrom. to baseline at nC50	YES			No Unit	25-APR-18	
Surrogate: 2-Bromobenzotrifluoride	82.9		60-140	%	25-APR-18	
Surrogate: 3,4-Dichlorotoluene	84.6		60-140	%	25-APR-18	
Polychlorinated Biphenyls						
Aroclor 1242	<0.010		0.010	ug/g	27-APR-18	
Aroclor 1248	<0.010		0.010	ug/g	27-APR-18	
Aroclor 1254	<0.010		0.010	ug/g	27-APR-18	
Aroclor 1260	<0.010		0.010	ug/g	27-APR-18	
Total PCBs	<0.020		0.020	ug/g	27-APR-18	0.35
Surrogate: d14-Terphenyl	95.7		60-140	%	27-APR-18	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1			
L2083688-47 MW1215-18 1-2 Sampled By: CLIENT on 20-APR-18 @ 10:47 Matrix: SOIL									
Physical Tests									
% Moisture	14.5		0.10	%	25-APR-18				
Polychlorinated Biphenyls									
Aroclor 1242	<0.010		0.010	ug/g	27-APR-18				
Aroclor 1248	<0.010		0.010	ug/g	27-APR-18				
Aroclor 1254	<0.010		0.010	ug/g	27-APR-18				
Aroclor 1260	<0.010		0.010	ug/g	27-APR-18				
Total PCBs	<0.020		0.020	ug/g	27-APR-18	0.35			
Surrogate: d14-Terphenyl	101.6		60-140	%	27-APR-18				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
BTX-511-HS-WT	Soil	BTEX-O.Reg 153/04 (July 2011)	SW846 8260

BTX is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

F1-F4-511-CALC-WT	Soil	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-S

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Soil	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Soil	F2-F4-O.Reg 153/04 (July 2011)	CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:
1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
4. F4G: Gravimetric Heavy Hydrocarbons
5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
8. This method is validated for use.
9. Data from analysis of validation and quality control samples is available upon request.
10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MET-200.2-CCMS-WT	Soil	Metals in Soil by CRC ICPMS	EPA 200.2/6020A (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

Reference Information

METHYLNAPS-CALC-WT	Soil	ABN-Calculated Parameters	SW846 8270
MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
PAH-511-WT	Soil	PAH-O.Reg 153/04 (July 2011)	SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking techniqueis used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PCB-511-WT	Soil	PCB-O.Reg 153/04 (July 2011)	SW846 3510/8082

An aliquot of a solid sample is extracted with a solvent, extract is cleaned up and analyzed on the GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

VOC-1,3-DCP-CALC-WT	Soil	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Soil	VOC-O.Reg 153/04 (July 2011)	SW846 8260 (511)

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

17-617280 17-617281 17-617282 17-618764

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2083688 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Soil**							
Batch R4022474								
WG2757563-4 DUP		**WG2757563-3**						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	25-APR-18
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	25-APR-18
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-APR-18
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	25-APR-18
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	25-APR-18
WG2757563-2 LCS								
Benzene			99.6		%		70-130	25-APR-18
Ethylbenzene			87.3		%		70-130	25-APR-18
m+p-Xylenes			96.3		%		70-130	25-APR-18
o-Xylene			90.4		%		70-130	25-APR-18
Toluene			93.2		%		70-130	25-APR-18
WG2757563-1 MB								
Benzene			<0.0068		ug/g		0.0068	25-APR-18
Ethylbenzene			<0.018		ug/g		0.018	25-APR-18
m+p-Xylenes			<0.030		ug/g		0.03	25-APR-18
o-Xylene			<0.020		ug/g		0.02	25-APR-18
Toluene			<0.080		ug/g		0.08	25-APR-18
Surrogate: 1,4-Difluorobenzene			98.3		%		50-140	25-APR-18
Surrogate: 4-Bromofluorobenzene			94.5		%		50-140	25-APR-18
WG2757563-5 MS		**L2083778-1**						
Benzene			101.3		%		60-140	25-APR-18
Ethylbenzene			89.9		%		60-140	25-APR-18
m+p-Xylenes			99.2		%		60-140	25-APR-18
o-Xylene			92.2		%		60-140	25-APR-18
Toluene			96.3		%		60-140	25-APR-18
F1-HS-511-WT	**Soil**							
Batch R4022474								
WG2757563-4 DUP		**WG2757563-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	25-APR-18
WG2757563-2 LCS								
F1 (C6-C10)			103.6		%		80-120	25-APR-18
WG2757563-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	25-APR-18
Surrogate: 3,4-Dichlorotoluene			108.3		%		60-140	25-APR-18
WG2757563-6 MS		**L2083778-2**						

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Soil**							
Batch R4022474								
WG2757563-6 MS		**L2083778-2**						
F1 (C6-C10)			98.3		%		60-140	25-APR-18
Batch R4022840								
WG2757613-4 DUP		**WG2757613-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	25-APR-18
WG2757613-2 LCS								
F1 (C6-C10)			99.4		%		80-120	25-APR-18
WG2757613-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	25-APR-18
Surrogate: 3,4-Dichlorotoluene			90.7		%		60-140	25-APR-18
WG2757613-6 MS		**L2083616-2**						
F1 (C6-C10)			93.7		%		60-140	25-APR-18
F2-F4-511-WT	**Soil**							
Batch R4023040								
WG2757340-4 DUP		**WG2757340-3**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	25-APR-18
F3 (C16-C34)		71	57		ug/g	22	30	25-APR-18
F4 (C34-C50)		112	65	J	ug/g	47	100	25-APR-18
WG2757340-2 LCS								
F2 (C10-C16)			104.6		%		80-120	25-APR-18
F3 (C16-C34)			102.5		%		80-120	25-APR-18
F4 (C34-C50)			107.3		%		80-120	25-APR-18
WG2757340-1 MB								
F2 (C10-C16)			<10		ug/g		10	25-APR-18
F3 (C16-C34)			<50		ug/g		50	25-APR-18
F4 (C34-C50)			<50		ug/g		50	25-APR-18
Surrogate: 2-Bromobenzotrifluoride			85.1		%		60-140	25-APR-18
WG2757340-5 MS		**WG2757340-3**						
F2 (C10-C16)			107.4		%		60-140	25-APR-18
F3 (C16-C34)			105.3		%		60-140	25-APR-18
F4 (C34-C50)			101.0		%		60-140	25-APR-18
MET-200.2-CCMS-WT	**Soil**							
Batch R4023561								
WG2758804-2 CRM		**WT-CANMET-TILL1**						
Antimony (Sb)			104.2		%		70-130	26-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R4023561								
WG2758804-2 CRM		**WT-CANMET-TILL1**						
Arsenic (As)			110.7		%		70-130	26-APR-18
Barium (Ba)			114.8		%		70-130	26-APR-18
Beryllium (Be)			102.4		%		70-130	26-APR-18
Boron (B)			3.7		mg/kg		0-8.2	26-APR-18
Cadmium (Cd)			117.0		%		70-130	26-APR-18
Chromium (Cr)			114.9		%		70-130	26-APR-18
Cobalt (Co)			111.7		%		70-130	26-APR-18
Copper (Cu)			111.1		%		70-130	26-APR-18
Lead (Pb)			106.0		%		70-130	26-APR-18
Molybdenum (Mo)			103.8		%		70-130	26-APR-18
Nickel (Ni)			112.3		%		70-130	26-APR-18
Selenium (Se)			0.36		mg/kg		0.11-0.51	26-APR-18
Silver (Ag)			0.24		mg/kg		0.13-0.33	26-APR-18
Thallium (Tl)			0.133		mg/kg		0.077-0.18	26-APR-18
Uranium (U)			105.0		%		70-130	26-APR-18
Vanadium (V)			113.5		%		70-130	26-APR-18
Zinc (Zn)			106.4		%		70-130	26-APR-18
WG2758804-6 DUP		**WG2758804-5**						
Antimony (Sb)		0.39	0.36		ug/g	7.2	30	26-APR-18
Arsenic (As)		6.55	6.28		ug/g	4.3	30	26-APR-18
Barium (Ba)		97.4	94.9		ug/g	2.6	40	26-APR-18
Beryllium (Be)		0.66	0.67		ug/g	2.2	30	26-APR-18
Boron (B)		23.6	23.8		ug/g	0.8	30	26-APR-18
Cadmium (Cd)		0.274	0.225		ug/g	20	30	26-APR-18
Chromium (Cr)		30.1	28.0		ug/g	7.1	30	26-APR-18
Cobalt (Co)		11.1	10.4		ug/g	6.4	30	26-APR-18
Copper (Cu)		27.5	25.9		ug/g	5.9	30	26-APR-18
Lead (Pb)		8.63	8.28		ug/g	4.1	40	26-APR-18
Molybdenum (Mo)		4.35	4.26		ug/g	2.1	40	26-APR-18
Nickel (Ni)		32.9	31.3		ug/g	5.0	30	26-APR-18
Selenium (Se)		0.32	0.30		ug/g	6.2	30	26-APR-18
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	26-APR-18
Thallium (Tl)		0.240	0.230		ug/g	4.3	30	26-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R4023561								
WG2758804-6 DUP		**WG2758804-5**						
Uranium (U)		1.72	1.63		ug/g	5.2	30	26-APR-18
Vanadium (V)		39.2	36.8		ug/g	6.2	30	26-APR-18
Zinc (Zn)		55.5	50.6		ug/g	9.2	30	26-APR-18
WG2758804-4 LCS								
Antimony (Sb)			100.0		%		80-120	26-APR-18
Arsenic (As)			97.6		%		80-120	26-APR-18
Barium (Ba)			101.4		%		80-120	26-APR-18
Beryllium (Be)			92.5		%		80-120	26-APR-18
Boron (B)			92.1		%		80-120	26-APR-18
Cadmium (Cd)			96.3		%		80-120	26-APR-18
Chromium (Cr)			97.8		%		80-120	26-APR-18
Cobalt (Co)			95.5		%		80-120	26-APR-18
Copper (Cu)			95.1		%		80-120	26-APR-18
Lead (Pb)			95.5		%		80-120	26-APR-18
Molybdenum (Mo)			98.3		%		80-120	26-APR-18
Nickel (Ni)			94.8		%		80-120	26-APR-18
Selenium (Se)			97.9		%		80-120	26-APR-18
Silver (Ag)			95.6		%		80-120	26-APR-18
Thallium (Tl)			99.3		%		80-120	26-APR-18
Uranium (U)			97.6		%		80-120	26-APR-18
Vanadium (V)			97.2		%		80-120	26-APR-18
Zinc (Zn)			89.2		%		80-120	26-APR-18
WG2758804-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	26-APR-18
Arsenic (As)			<0.10		mg/kg		0.1	26-APR-18
Barium (Ba)			<0.50		mg/kg		0.5	26-APR-18
Beryllium (Be)			<0.10		mg/kg		0.1	26-APR-18
Boron (B)			<5.0		mg/kg		5	26-APR-18
Cadmium (Cd)			<0.020		mg/kg		0.02	26-APR-18
Chromium (Cr)			<0.50		mg/kg		0.5	26-APR-18
Cobalt (Co)			<0.10		mg/kg		0.1	26-APR-18
Copper (Cu)			<0.50		mg/kg		0.5	26-APR-18
Lead (Pb)			<0.50		mg/kg		0.5	26-APR-18
Molybdenum (Mo)			<0.10		mg/kg		0.1	26-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R4023561								
WG2758804-1 MB								
Nickel (Ni)			<0.50		mg/kg		0.5	26-APR-18
Selenium (Se)			<0.20		mg/kg		0.2	26-APR-18
Silver (Ag)			<0.10		mg/kg		0.1	26-APR-18
Thallium (Tl)			<0.050		mg/kg		0.05	26-APR-18
Uranium (U)			<0.050		mg/kg		0.05	26-APR-18
Vanadium (V)			<0.20		mg/kg		0.2	26-APR-18
Zinc (Zn)			<2.0		mg/kg		2	26-APR-18
MOISTURE-WT	**Soil**							
Batch R4022438								
WG2757721-3 DUP		**L2084189-3**						
% Moisture		27.6	27.7		%	0.3	20	24-APR-18
WG2757721-2 LCS								
% Moisture			100.3		%		90-110	24-APR-18
WG2757721-1 MB								
% Moisture			<0.10		%		0.1	24-APR-18
Batch R4023332								
WG2757927-3 DUP		**L2083104-1**						
% Moisture		13.8	14.3		%	3.9	20	25-APR-18
WG2757927-2 LCS								
% Moisture			100.4		%		90-110	25-APR-18
WG2757927-1 MB								
% Moisture			<0.10		%		0.1	25-APR-18
PAH-511-WT	**Soil**							
Batch R4023329								
WG2757416-4 DUP		**WG2757416-3**						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	26-APR-18
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	26-APR-18
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Benzo(b)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Benzo(k)fluoranthene		<0.050	<0.050					

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R4023329								
WG2757416-4 DUP		**WG2757416-3**						
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Dibenzo(ah)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	26-APR-18
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	26-APR-18
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
WG2757416-2 LCS								
1-Methylnaphthalene			92.0		%		50-140	26-APR-18
2-Methylnaphthalene			93.0		%		50-140	26-APR-18
Acenaphthene			86.2		%		50-140	26-APR-18
Acenaphthylene			86.7		%		50-140	26-APR-18
Anthracene			94.2		%		50-140	26-APR-18
Benzo(a)anthracene			95.3		%		50-140	26-APR-18
Benzo(a)pyrene			91.7		%		50-140	26-APR-18
Benzo(b)fluoranthene			92.7		%		50-140	26-APR-18
Benzo(g,h,i)perylene			86.5		%		50-140	26-APR-18
Benzo(k)fluoranthene			99.4		%		50-140	26-APR-18
Chrysene			105.2		%		50-140	26-APR-18
Dibenzo(ah)anthracene			87.1		%		50-140	26-APR-18
Fluoranthene			84.9		%		50-140	26-APR-18
Fluorene			89.2		%		50-140	26-APR-18
Indeno(1,2,3-cd)pyrene			81.2		%		50-140	26-APR-18
Naphthalene			100.0		%		50-140	26-APR-18
Phenanthrene			96.8		%		50-140	26-APR-18
Pyrene			84.8		%		50-140	26-APR-18
WG2757416-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	26-APR-18
2-Methylnaphthalene			<0.030		ug/g		0.03	26-APR-18
Acenaphthene			<0.050		ug/g		0.05	26-APR-18
Acenaphthylene			<0.050		ug/g		0.05	26-APR-18
Anthracene			<0.050		ug/g		0.05	26-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R4023329								
WG2757416-1 MB								
Benzo(a)anthracene			<0.050		ug/g		0.05	26-APR-18
Benzo(a)pyrene			<0.050		ug/g		0.05	26-APR-18
Benzo(b)fluoranthene			<0.050		ug/g		0.05	26-APR-18
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	26-APR-18
Benzo(k)fluoranthene			<0.050		ug/g		0.05	26-APR-18
Chrysene			<0.050		ug/g		0.05	26-APR-18
Dibenzo(ah)anthracene			<0.050		ug/g		0.05	26-APR-18
Fluoranthene			<0.050		ug/g		0.05	26-APR-18
Fluorene			<0.050		ug/g		0.05	26-APR-18
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	26-APR-18
Naphthalene			<0.013		ug/g		0.013	26-APR-18
Phenanthrene			<0.046		ug/g		0.046	26-APR-18
Pyrene			<0.050		ug/g		0.05	26-APR-18
Surrogate: 2-Fluorobiphenyl			78.2		%		50-140	26-APR-18
Surrogate: p-Terphenyl d14			90.0		%		50-140	26-APR-18
WG2757416-5 MS		**WG2757416-3**						
1-Methylnaphthalene			85.8		%		50-140	26-APR-18
2-Methylnaphthalene			87.8		%		50-140	26-APR-18
Acenaphthene			83.3		%		50-140	26-APR-18
Acenaphthylene			87.7		%		50-140	26-APR-18
Anthracene			87.7		%		50-140	26-APR-18
Benzo(a)anthracene			100.0		%		50-140	26-APR-18
Benzo(a)pyrene			88.4		%		50-140	26-APR-18
Benzo(b)fluoranthene			91.9		%		50-140	26-APR-18
Benzo(g,h,i)perylene			78.0		%		50-140	26-APR-18
Benzo(k)fluoranthene			85.7		%		50-140	26-APR-18
Chrysene			93.6		%		50-140	26-APR-18
Dibenzo(ah)anthracene			80.6		%		50-140	26-APR-18
Fluoranthene			87.1		%		50-140	26-APR-18
Fluorene			89.6		%		50-140	26-APR-18
Indeno(1,2,3-cd)pyrene			87.3		%		50-140	26-APR-18
Naphthalene			92.0		%		50-140	26-APR-18
Phenanthrene			87.4		%		50-140	26-APR-18
Pyrene			85.9		%		50-140	26-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R4023364								
WG2757924-3 DUP		**WG2757924-5**						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	26-APR-18
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	26-APR-18
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Benzo(b)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Dibenzo(ah)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	26-APR-18
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	26-APR-18
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-18
WG2757924-2 LCS								
1-Methylnaphthalene			85.5		%		50-140	26-APR-18
2-Methylnaphthalene			86.6		%		50-140	26-APR-18
Acenaphthene			80.1		%		50-140	26-APR-18
Acenaphthylene			80.8		%		50-140	26-APR-18
Anthracene			87.3		%		50-140	26-APR-18
Benzo(a)anthracene			90.1		%		50-140	26-APR-18
Benzo(a)pyrene			85.7		%		50-140	26-APR-18
Benzo(b)fluoranthene			88.7		%		50-140	26-APR-18
Benzo(g,h,i)perylene			77.2		%		50-140	26-APR-18
Benzo(k)fluoranthene			88.5		%		50-140	26-APR-18
Chrysene			96.1		%		50-140	26-APR-18
Dibenzo(ah)anthracene			77.7		%		50-140	26-APR-18
Fluoranthene			79.4		%		50-140	26-APR-18
Fluorene			82.9		%		50-140	26-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R4023364								
WG2757924-2 LCS								
Indeno(1,2,3-cd)pyrene			75.0		%		50-140	26-APR-18
Naphthalene			93.3		%		50-140	26-APR-18
Phenanthrene			90.6		%		50-140	26-APR-18
Pyrene			79.9		%		50-140	26-APR-18
WG2757924-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	26-APR-18
2-Methylnaphthalene			<0.030		ug/g		0.03	26-APR-18
Acenaphthene			<0.050		ug/g		0.05	26-APR-18
Acenaphthylene			<0.050		ug/g		0.05	26-APR-18
Anthracene			<0.050		ug/g		0.05	26-APR-18
Benzo(a)anthracene			<0.050		ug/g		0.05	26-APR-18
Benzo(a)pyrene			<0.050		ug/g		0.05	26-APR-18
Benzo(b)fluoranthene			<0.050		ug/g		0.05	26-APR-18
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	26-APR-18
Benzo(k)fluoranthene			<0.050		ug/g		0.05	26-APR-18
Chrysene			<0.050		ug/g		0.05	26-APR-18
Dibenzo(ah)anthracene			<0.050		ug/g		0.05	26-APR-18
Fluoranthene			<0.050		ug/g		0.05	26-APR-18
Fluorene			<0.050		ug/g		0.05	26-APR-18
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	26-APR-18
Naphthalene			<0.013		ug/g		0.013	26-APR-18
Phenanthrene			<0.046		ug/g		0.046	26-APR-18
Pyrene			<0.050		ug/g		0.05	26-APR-18
Surrogate: 2-Fluorobiphenyl			74.3		%		50-140	26-APR-18
Surrogate: p-Terphenyl d14			87.5		%		50-140	26-APR-18
WG2757924-4 MS		**WG2757924-5**						
1-Methylnaphthalene			86.3		%		50-140	26-APR-18
2-Methylnaphthalene			87.2		%		50-140	26-APR-18
Acenaphthene			80.0		%		50-140	26-APR-18
Acenaphthylene			77.8		%		50-140	26-APR-18
Anthracene			85.6		%		50-140	26-APR-18
Benzo(a)anthracene			86.6		%		50-140	26-APR-18
Benzo(a)pyrene			84.2		%		50-140	26-APR-18
Benzo(b)fluoranthene			87.8		%		50-140	26-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R4023364								
WG2757924-4 MS		**WG2757924-5**						
Benzo(g,h,i)perylene			74.4		%		50-140	26-APR-18
Benzo(k)fluoranthene			89.6		%		50-140	26-APR-18
Chrysene			99.4		%		50-140	26-APR-18
Dibenzo(ah)anthracene			75.6		%		50-140	26-APR-18
Fluoranthene			77.9		%		50-140	26-APR-18
Fluorene			82.3		%		50-140	26-APR-18
Indeno(1,2,3-cd)pyrene			67.2		%		50-140	26-APR-18
Naphthalene			93.9		%		50-140	26-APR-18
Phenanthrene			91.5		%		50-140	26-APR-18
Pyrene			78.1		%		50-140	26-APR-18
PCB-511-WT	**Soil**							
Batch R4024157								
WG2757924-3 DUP		**WG2757924-5**						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	27-APR-18
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	27-APR-18
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	27-APR-18
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	27-APR-18
WG2757924-2 LCS								
Aroclor 1242			82.6		%		60-140	27-APR-18
Aroclor 1248			81.9		%		60-140	27-APR-18
Aroclor 1254			81.9		%		60-140	27-APR-18
Aroclor 1260			86.4		%		60-140	27-APR-18
WG2757924-1 MB								
Aroclor 1242			<0.010		ug/g		0.01	27-APR-18
Aroclor 1248			<0.010		ug/g		0.01	27-APR-18
Aroclor 1254			<0.010		ug/g		0.01	27-APR-18
Aroclor 1260			<0.010		ug/g		0.01	27-APR-18
Surrogate: d14-Terphenyl			95.3		%		60-140	27-APR-18
WG2757924-4 MS		**WG2757924-5**						
Aroclor 1242			82.7		%		60-140	27-APR-18
Aroclor 1254			79.6		%		60-140	27-APR-18
Aroclor 1260			84.6		%		60-140	27-APR-18
VOC-511-HS-WT	**Soil**							

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R4022840								
WG2757613-4 DUP		**WG2757613-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	25-APR-18
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	25-APR-18
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-APR-18
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	25-APR-18
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-APR-18
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	25-APR-18
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	25-APR-18
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	25-APR-18
Styrene		<0.050	<0.050		ug/g			25-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R4022840								
WG2757613-4 DUP		**WG2757613-3**						
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	25-APR-18
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-APR-18
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	25-APR-18
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-18
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	25-APR-18
WG2757613-2 LCS								
1,1,1,2-Tetrachloroethane			93.3		%		60-130	25-APR-18
1,1,2,2-Tetrachloroethane			85.0		%		60-130	25-APR-18
1,1,1-Trichloroethane			95.4		%		60-130	25-APR-18
1,1,2-Trichloroethane			91.4		%		60-130	25-APR-18
1,1-Dichloroethane			90.0		%		60-130	25-APR-18
1,1-Dichloroethylene			85.5		%		60-130	25-APR-18
1,2-Dibromoethane			89.1		%		70-130	25-APR-18
1,2-Dichlorobenzene			93.1		%		70-130	25-APR-18
1,2-Dichloroethane			90.9		%		60-130	25-APR-18
1,2-Dichloropropane			93.4		%		70-130	25-APR-18
1,3-Dichlorobenzene			92.2		%		70-130	25-APR-18
1,4-Dichlorobenzene			93.0		%		70-130	25-APR-18
Acetone			94.6		%		60-140	25-APR-18
Benzene			95.6		%		70-130	25-APR-18
Bromodichloromethane			90.7		%		50-140	25-APR-18
Bromoform			90.1		%		70-130	25-APR-18
Bromomethane			88.5		%		50-140	25-APR-18
Carbon tetrachloride			96.2		%		70-130	25-APR-18
Chlorobenzene			93.5		%		70-130	25-APR-18
Chloroform			95.0		%		70-130	25-APR-18
cis-1,2-Dichloroethylene			93.5		%		70-130	25-APR-18
cis-1,3-Dichloropropene			86.6		%		70-130	25-APR-18
Dibromochloromethane			95.6		%		60-130	25-APR-18
Dichlorodifluoromethane			73.9		%		50-140	25-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R4022840								
WG2757613-2 LCS								
Ethylbenzene			87.3		%		70-130	25-APR-18
n-Hexane			107.3		%		70-130	25-APR-18
Methylene Chloride			98.0		%		70-130	25-APR-18
MTBE			99.3		%		70-130	25-APR-18
m+p-Xylenes			87.9		%		70-130	25-APR-18
Methyl Ethyl Ketone			94.9		%		60-140	25-APR-18
Methyl Isobutyl Ketone			81.3		%		60-140	25-APR-18
o-Xylene			86.3		%		70-130	25-APR-18
Styrene			90.8		%		70-130	25-APR-18
Tetrachloroethylene			93.6		%		60-130	25-APR-18
Toluene			90.4		%		70-130	25-APR-18
trans-1,2-Dichloroethylene			94.2		%		60-130	25-APR-18
trans-1,3-Dichloropropene			79.4		%		70-130	25-APR-18
Trichloroethylene			98.5		%		60-130	25-APR-18
Trichlorofluoromethane			95.8		%		50-140	25-APR-18
Vinyl chloride			84.9		%		60-140	25-APR-18
WG2757613-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	25-APR-18
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	25-APR-18
1,1,1-Trichloroethane			<0.050		ug/g		0.05	25-APR-18
1,1,2-Trichloroethane			<0.050		ug/g		0.05	25-APR-18
1,1-Dichloroethane			<0.050		ug/g		0.05	25-APR-18
1,1-Dichloroethylene			<0.050		ug/g		0.05	25-APR-18
1,2-Dibromoethane			<0.050		ug/g		0.05	25-APR-18
1,2-Dichlorobenzene			<0.050		ug/g		0.05	25-APR-18
1,2-Dichloroethane			<0.050		ug/g		0.05	25-APR-18
1,2-Dichloropropane			<0.050		ug/g		0.05	25-APR-18
1,3-Dichlorobenzene			<0.050		ug/g		0.05	25-APR-18
1,4-Dichlorobenzene			<0.050		ug/g		0.05	25-APR-18
Acetone			<0.50		ug/g		0.5	25-APR-18
Benzene			<0.0068		ug/g		0.0068	25-APR-18
Bromodichloromethane			<0.050		ug/g		0.05	25-APR-18
Bromoform			<0.050		ug/g		0.05	25-APR-18
Bromomethane			<0.050		ug/g		0.05	25-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R4022840								
WG2757613-1 MB								
Carbon tetrachloride			<0.050		ug/g		0.05	25-APR-18
Chlorobenzene			<0.050		ug/g		0.05	25-APR-18
Chloroform			<0.050		ug/g		0.05	25-APR-18
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	25-APR-18
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	25-APR-18
Dibromochloromethane			<0.050		ug/g		0.05	25-APR-18
Dichlorodifluoromethane			<0.050		ug/g		0.05	25-APR-18
Ethylbenzene			<0.018		ug/g		0.018	25-APR-18
n-Hexane			<0.050		ug/g		0.05	25-APR-18
Methylene Chloride			<0.050		ug/g		0.05	25-APR-18
MTBE			<0.050		ug/g		0.05	25-APR-18
m+p-Xylenes			<0.030		ug/g		0.03	25-APR-18
Methyl Ethyl Ketone			<0.50		ug/g		0.5	25-APR-18
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	25-APR-18
o-Xylene			<0.020		ug/g		0.02	25-APR-18
Styrene			<0.050		ug/g		0.05	25-APR-18
Tetrachloroethylene			<0.050		ug/g		0.05	25-APR-18
Toluene			<0.080		ug/g		0.08	25-APR-18
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	25-APR-18
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	25-APR-18
Trichloroethylene			<0.010		ug/g		0.01	25-APR-18
Trichlorofluoromethane			<0.050		ug/g		0.05	25-APR-18
Vinyl chloride			<0.020		ug/g		0.02	25-APR-18
Surrogate: 1,4-Difluorobenzene			108.4		%		50-140	25-APR-18
Surrogate: 4-Bromofluorobenzene			92.3		%		50-140	25-APR-18
WG2757613-5 MS		**L2083616-1**						
1,1,1,2-Tetrachloroethane			95.5		%		50-140	25-APR-18
1,1,2,2-Tetrachloroethane			85.7		%		50-140	25-APR-18
1,1,1-Trichloroethane			98.0		%		50-140	25-APR-18
1,1,2-Trichloroethane			92.7		%		50-140	25-APR-18
1,1-Dichloroethane			108.1		%		50-140	25-APR-18
1,1-Dichloroethylene			87.6		%		50-140	25-APR-18
1,2-Dibromoethane			91.3		%		50-140	25-APR-18
1,2-Dichlorobenzene			93.2		%		50-140	25-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R4022840								
WG2757613-5 MS		**L2083616-1**						
1,2-Dichloroethane			92.8		%		50-140	25-APR-18
1,2-Dichloropropane			95.3		%		50-140	25-APR-18
1,3-Dichlorobenzene			91.8		%		50-140	25-APR-18
1,4-Dichlorobenzene			92.6		%		50-140	25-APR-18
Acetone			101.0		%		50-140	25-APR-18
Benzene			97.4		%		50-140	25-APR-18
Bromodichloromethane			93.3		%		50-140	25-APR-18
Bromoform			90.4		%		50-140	25-APR-18
Bromomethane			89.7		%		50-140	25-APR-18
Carbon tetrachloride			98.9		%		50-140	25-APR-18
Chlorobenzene			94.7		%		50-140	25-APR-18
Chloroform			97.3		%		50-140	25-APR-18
cis-1,2-Dichloroethylene			95.5		%		50-140	25-APR-18
cis-1,3-Dichloropropene			86.2		%		50-140	25-APR-18
Dibromochloromethane			96.6		%		50-140	25-APR-18
Dichlorodifluoromethane			77.0		%		50-140	25-APR-18
Ethylbenzene			87.4		%		50-140	25-APR-18
n-Hexane			111.5		%		50-140	25-APR-18
Methylene Chloride			101.3		%		50-140	25-APR-18
MTBE			102.2		%		50-140	25-APR-18
m+p-Xylenes			88.0		%		50-140	25-APR-18
Methyl Ethyl Ketone			98.8		%		50-140	25-APR-18
Methyl Isobutyl Ketone			80.4		%		50-140	25-APR-18
o-Xylene			86.4		%		50-140	25-APR-18
Styrene			90.3		%		50-140	25-APR-18
Tetrachloroethylene			94.8		%		50-140	25-APR-18
Toluene			91.6		%		50-140	25-APR-18
trans-1,2-Dichloroethylene			94.9		%		50-140	25-APR-18
trans-1,3-Dichloropropene			78.8		%		50-140	25-APR-18
Trichloroethylene			100.2		%		50-140	25-APR-18
Trichlorofluoromethane			99.4		%		50-140	25-APR-18
Vinyl chloride			86.4		%		50-140	25-APR-18

Quality Control Report

Workorder: L2083688 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

GRAIN SIZE DETERMINATIONS

Client:	MTE Consultants Inc.~Burlington	Sample Location:	
Project Number:	19772	Sample ID:	BH201-18 1-2
Sampler:		Sample Depth:	
Technician:	ZA	Date Sampled:	20-04-18
Lab ID Number:	L2083688-1	Date Submitted:	20-04-18
		Date Completed:	05-14-18

Total Sample Weight	225	grams	Specific Gravity:	2.650
Hydro. Sample Weight	0.000	grams	Liquid Specific Gravity:	1.000
% Past #10	0.520	* 100	Grav Factor:	1.606
Sub Factor	1.000			

Sieve Size	Weight Retained (grams)	Percent Retained	Diameter (mm)	Cum. % Retained	Cum. % Passing
38.1 mm. DIA.:	0.000	0.000	38.100	0.000	100.000
25.4 mm. DIA.:	0.000	0.000	25.400	0.000	100.000
19.0 mm. DIA.:	23.000	10.222	19.000	10.222	89.778
9.5 mm. DIA.:	46.000	20.444	9.500	30.667	69.333
NO. 4 SIEVE :	2.000	0.889	4.500	31.556	68.444
NO. 10 SIEVE :	37.000	16.444	2.000	48.000	52.000
NO. 20 SIEVE :	56.000	24.889	0.850	72.889	27.111
NO. 40 SIEVE :	16.000	7.111	0.425	80.000	20.000
NO. 60 SIEVE :	7.000	3.111	0.250	83.111	16.889
NO. 100 SIEVE:	5.000	2.222	0.150	85.333	14.667
NO. 200 SIEVE:	7.000	3.111	0.075	88.444	11.556

Time (min)	Hydrometer Reading	Temperature (C)	Diameter (mm)	% Suspended (Subsample)	% Suspended (Total Sample)
1.00	0.0	0.0	-	-	-
2.00	0.0	0.0	-	-	-
4.00	0.0	0.0	-	-	-
8.00	0.0	0.0	-	-	-
15.00	0.0	0.0	-	-	-
30.00	0.0	0.0	-	-	-
60.00	0.0	0.0	-	-	-
120.00	0.0	0.0	-	-	-
240.00	0.0	0.0	-	-	-
480.00	0.0	0.0	-	-	-
1440.00	0.0	0.0	-	-	-

GRAIN SIZE	% BY WT.	DIA. RANGE (mm)
% GRAVEL :	31.56	> 4.5
% COARSE SAND :	16.44	2.0 - 4.5
% MEDIUM SAND :	32.00	0.425 - 2.0
% FINE SAND :	8.44	0.075 - 0.425
% SILT & CLAY :	11.56	< 0.075

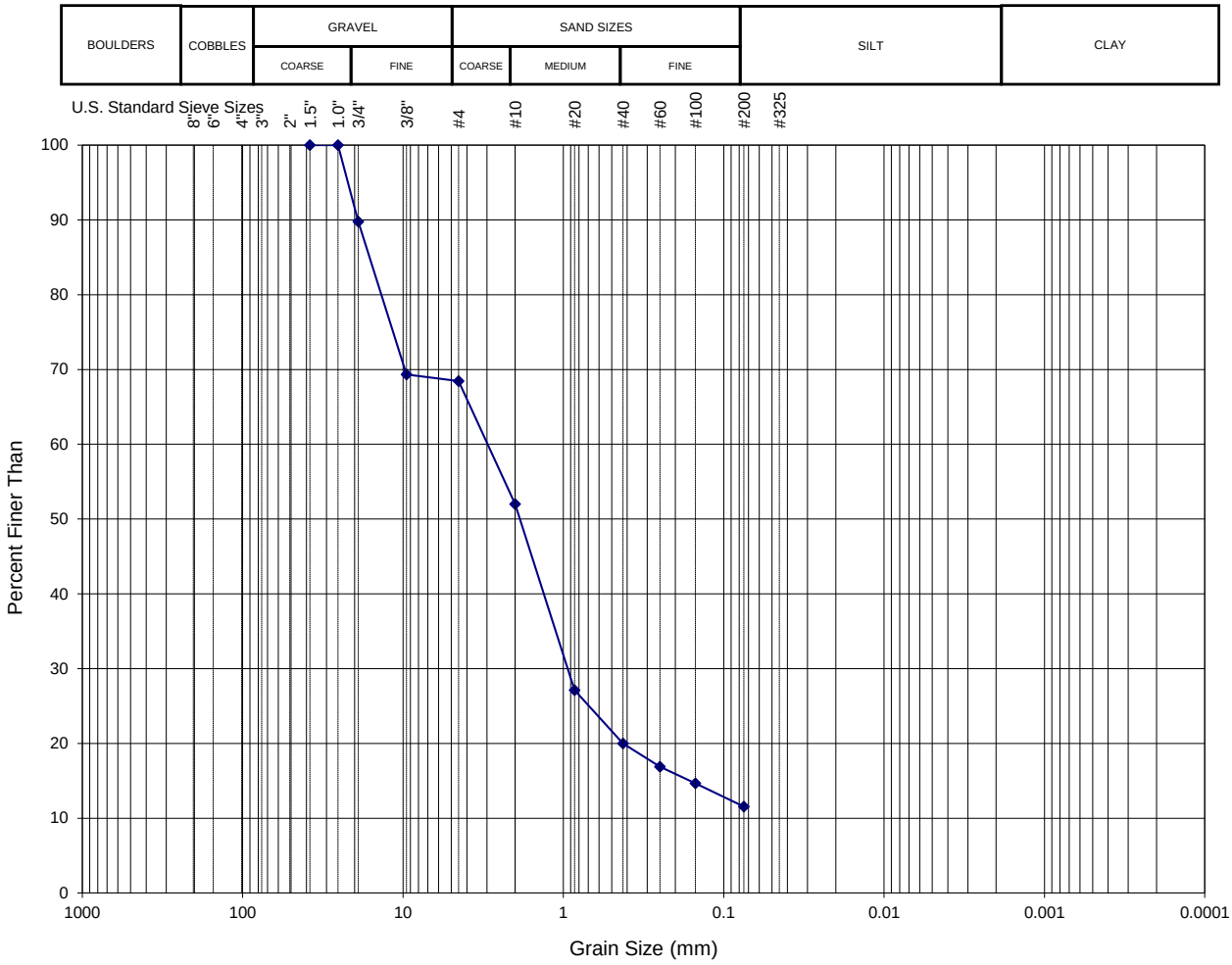
ALS Environmental

WATERLOO

PARTICLE SIZE DISTRIBUTION CURVE

ASTM METHOD D422-63

Project Name:	MTE Consultants Inc.~Burlington
Project Number:	19772
Sample Location:	
Sample Number:	BH201-18 1-2
Sample Depth:	
Lab ID Number:	L2083688-1
Technician:	ZA
Sampler:	
Dates:	
Collected On:	20-04-18
Analyzed:	14-05-18



DESCRIPTION	SOIL CLASSIFICATION DESCRIPTIVE MODIFIERS		SUMMARY		
GRAVELLY SAND WITH SILT+CLAY	AND	36 - 50 %	GRAVEL	32	%
COARSE GRAINED	ADJECTIVE (e.g. sandy)	21 - 35 %	SAND	57	%
ESTIMATED HAZEN NUMBER: 2.81E-03 cm/s	WITH	11 - 20 %	SILT + CLAY	12	%
NOTE: UNIFIED SOIL CLASSIFICATION SYSTEM	TRACE	1 - 10 %			

GRAIN SIZE DETERMINATIONS

Client:	MTE Consultants Inc.`Burlington	Sample Location:	
Project Number:	19772	Sample ID:	BH204-18 6-8
Sampler:		Sample Depth:	
Technician:	ZA	Date Sampled:	20-04-18
Lab ID Number:	L2083688-13	Date Submitted:	20-04-18
		Date Completed:	05-14-18

Total Sample Weight	168	grams	Specific Gravity:	2.650
Hydro. Sample Weight	50.000	grams	Liquid Specific Gravity:	1.000
% Past #10	0.970	* 100	Grav Factor:	1.606
Sub Factor	3.260			

Sieve Size	Weight Retained (grams)	Percent Retained	Diameter (mm)	Cum. % Retained	Cum. % Passing
38.1 mm. DIA.:	0.000	0.000	38.100	0.000	100.000
25.4 mm. DIA.:	0.000	0.000	25.400	0.000	100.000
19.0 mm. DIA.:	0.000	0.000	19.000	0.000	100.000
9.5 mm. DIA.:	0.000	0.000	9.500	0.000	100.000
NO. 4 SIEVE :	0.000	0.000	4.500	0.000	100.000
NO. 10 SIEVE :	5.000	2.976	2.000	2.976	97.024
NO. 20 SIEVE :	6.000	11.643	0.850	14.619	85.381
NO. 40 SIEVE :	2.000	3.881	0.425	18.500	81.500
NO. 60 SIEVE :	1.000	1.940	0.250	20.440	79.560
NO. 100 SIEVE:	1.000	1.940	0.150	22.381	77.619
NO. 200 SIEVE:	2.000	3.881	0.075	26.262	73.738

Time (min)	Hydrometer Reading	Temperature (C)	Diameter (mm)	% Suspended (Subsample)	% Suspended (Total Sample)
1.00	22.0	19.6	0.044	61.101	59.282
2.00	21.0	19.6	0.032	57.889	56.166
4.00	20.0	19.5	0.023	54.614	52.989
8.00	19.0	19.5	0.016	51.402	49.872
15.00	18.0	19.4	0.012	48.127	46.695
30.00	16.0	19.2	0.009	41.578	40.340
60.00	15.0	19.0	0.006	38.240	37.102
120.00	14.0	19.2	0.004	35.153	34.107
240.00	13.0	18.7	0.003	31.628	30.687
480.00	11.0	18.6	0.002	25.141	24.393
1440.00	11.0	19.1	0.001	25.454	24.697

GRAIN SIZE	% BY WT.	DIA. RANGE (mm)
% GRAVEL :	0.00	> 4.5
% COARSE SAND :	2.98	2.0 - 4.5
% MEDIUM SAND :	15.52	0.425 - 2.0
% FINE SAND :	7.76	0.075 - 0.425
% SILT :	49.26	0.075 - 0.002
% CLAY :	24.47	< 0.002
% CLAY :	35.09	< 0.005

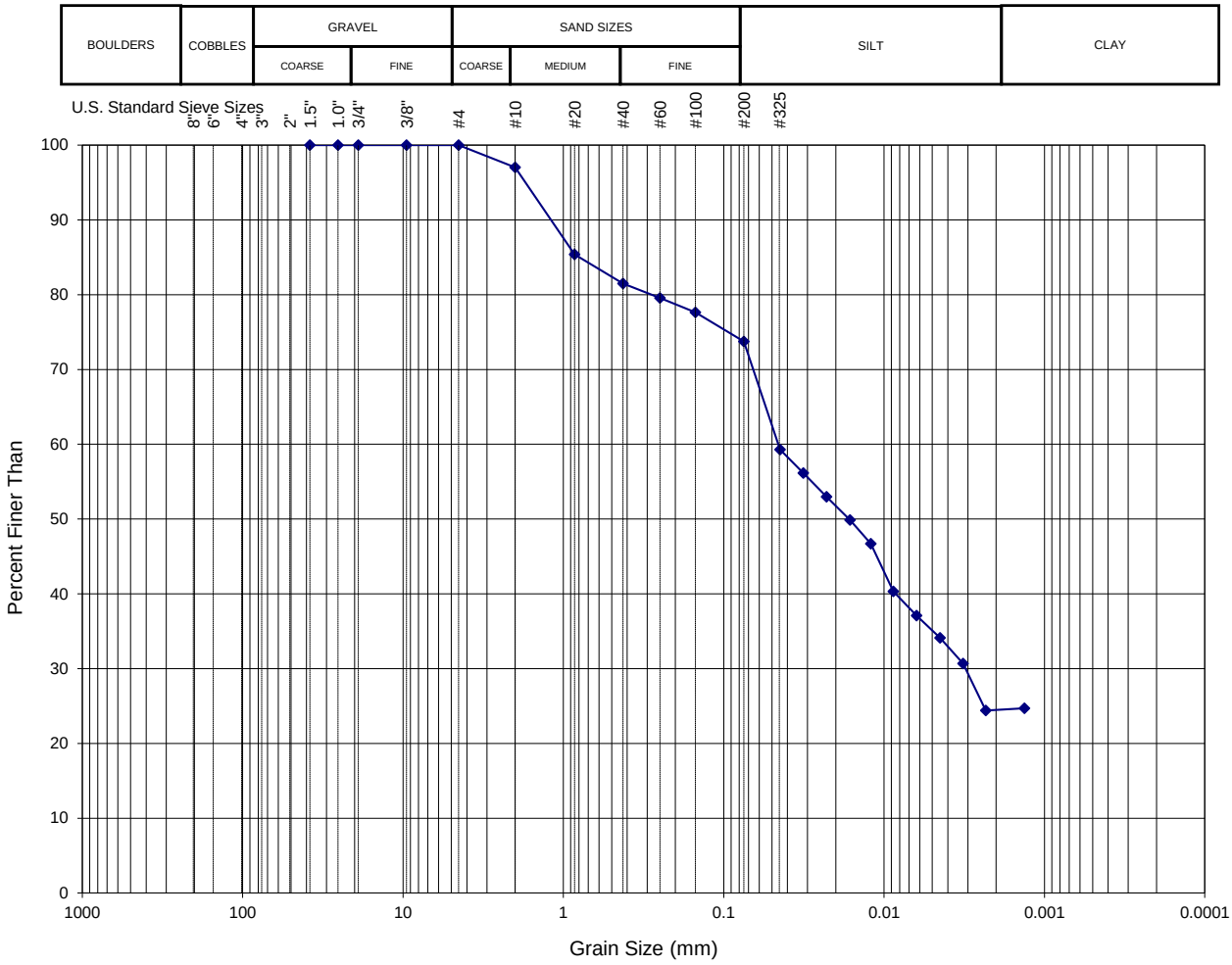
ALS Environmental

WATERLOO

PARTICLE SIZE DISTRIBUTION CURVE

ASTM METHOD D422-63

Project Name:	MTE Consultants Inc.`Burlington
Project Number:	19772
Sample Location:	
Sample Number:	BH204-18 6-8
Sample Depth:	
Lab ID Number:	L2083688-13
Technician:	ZA
Sampler:	
Dates:	
Collected On:	20-04-18
Analyzed:	14-05-18



DESCRIPTION	SOIL CLASSIFICATION DESCRIPTIVE MODIFIERS		SUMMARY		
CLAYEY SANDY SILT	AND	36 - 50 %	GRAVEL	0	%
FINE GRAINED	ADJECTIVE (e.g. sandy)	21 - 35 %	SAND	26	%
ESTIMATED HAZEN NUMBER: 1.22E-06 cm/s	WITH	11 - 20 %	SILT + CLAY	74	%
NOTE: UNIFIED SOIL CLASSIFICATION SYSTEM	TRACE	1 - 10 %			

GRAIN SIZE DETERMINATIONS

Client:	MTE Consultants Inc.`Burlington	Sample Location:	
Project Number:	19772	Sample ID:	BH209-18 17-18.5
Sampler:		Sample Depth:	
Technician:	ZA	Date Sampled:	20-04-18
Lab ID Number:	L2083688-29	Date Submitted:	20-04-18
		Date Completed:	05-14-18

Total Sample Weight	230	grams	Specific Gravity:	2.650
Hydro. Sample Weight	50.000	grams	Liquid Specific Gravity:	1.000
% Past #10	0.961	* 100	Grav Factor:	1.606
Sub Factor	4.420			

Sieve Size	Weight Retained (grams)	Percent Retained	Diameter (mm)	Cum. % Retained	Cum. % Passing
38.1 mm. DIA.:	0.000	0.000	38.100	0.000	100.000
25.4 mm. DIA.:	0.000	0.000	25.400	0.000	100.000
19.0 mm. DIA.:	0.000	0.000	19.000	0.000	100.000
9.5 mm. DIA.:	8.000	3.478	9.500	3.478	96.522
NO. 4 SIEVE :	1.000	0.435	4.500	3.913	96.087
NO. 10 SIEVE :	0.000	0.000	2.000	3.913	96.087
NO. 20 SIEVE :	5.000	9.609	0.850	13.522	86.478
NO. 40 SIEVE :	2.000	3.843	0.425	17.365	82.635
NO. 60 SIEVE :	2.000	3.843	0.250	21.209	78.791
NO. 100 SIEVE:	2.000	3.843	0.150	25.052	74.948
NO. 200 SIEVE:	3.000	5.765	0.075	30.817	69.183

Time (min)	Hydrometer Reading	Temperature (C)	Diameter (mm)	% Suspended (Subsample)	% Suspended (Total Sample)
1.00	24.0	19.5	0.043	67.463	64.823
2.00	21.0	19.5	0.032	57.826	55.563
4.00	20.0	19.4	0.023	54.551	52.417
8.00	19.0	19.4	0.016	51.339	49.330
15.00	17.0	19.3	0.012	44.852	43.097
30.00	16.0	19.2	0.009	41.578	39.951
60.00	15.0	18.9	0.006	38.178	36.684
120.00	14.0	19.2	0.004	35.153	33.778
240.00	13.0	18.7	0.003	31.628	30.391
480.00	11.0	18.6	0.002	25.141	24.157
1440.00	11.0	19.1	0.001	25.454	24.458

GRAIN SIZE	% BY WT.	DIA. RANGE (mm)
% GRAVEL :	3.91	> 4.5
% COARSE SAND :	0.00	2.0 - 4.5
% MEDIUM SAND :	13.45	0.425 - 2.0
% FINE SAND :	13.45	0.075 - 0.425
% SILT :	44.94	0.075 - 0.002
% CLAY :	24.24	< 0.002
% CLAY :	34.73	< 0.005

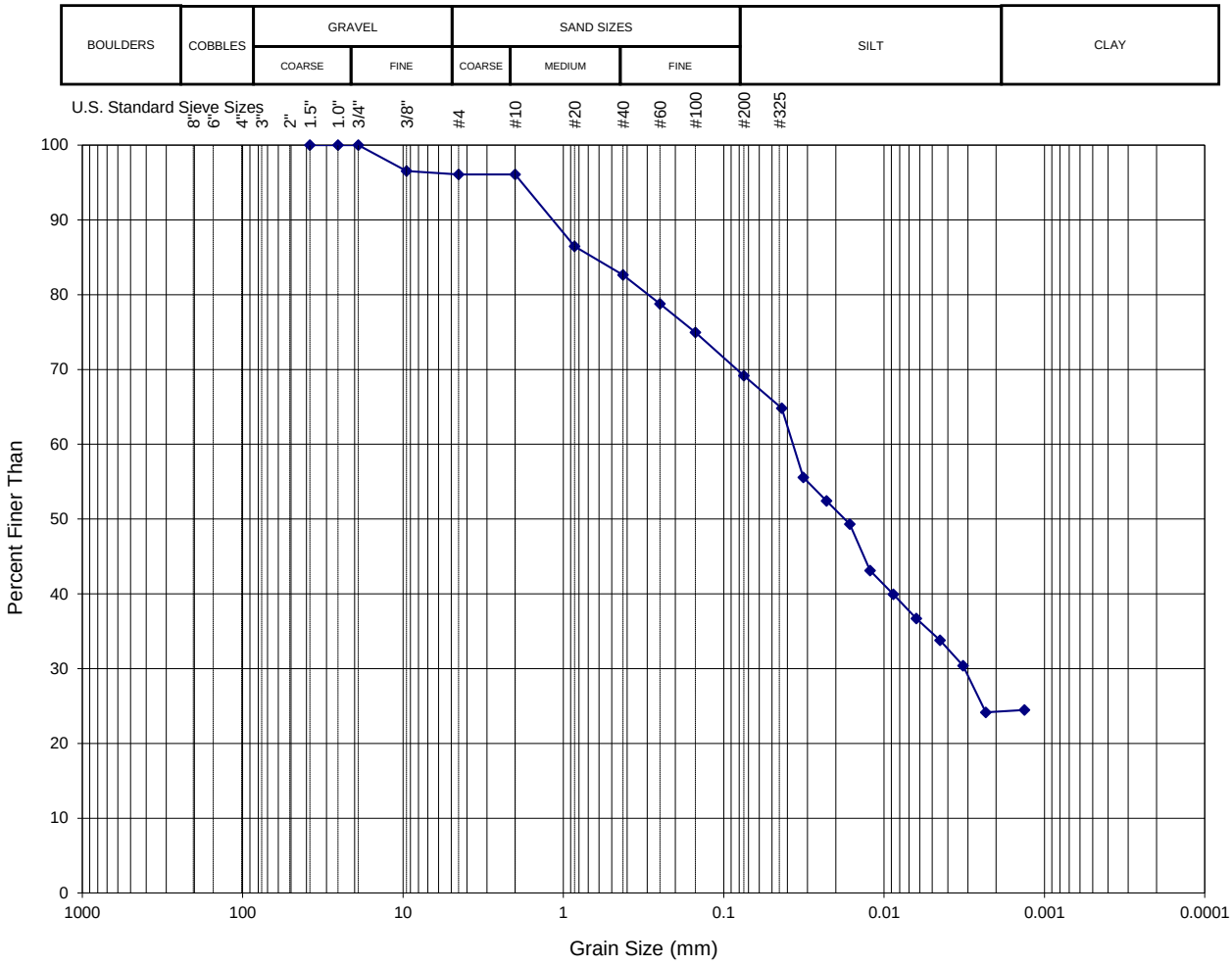
ALS Environmental

WATERLOO

PARTICLE SIZE DISTRIBUTION CURVE

ASTM METHOD D422-63

Project Name:	MTE Consultants Inc.`Burlington
Project Number:	19772
Sample Location:	
Sample Number:	BH209-18 17-18.5
Sample Depth:	
Lab ID Number:	L2083688-29
Technician:	ZA
Sampler:	
Dates:	
Collected On:	20-04-18
Analyzed:	14-05-18



DESCRIPTION	SOIL CLASSIFICATION DESCRIPTIVE MODIFIERS		SUMMARY		
CLAYEY SANDY SILT, TRACE GRAVEL	AND	36 - 50 %	GRAVEL	4	%
FINE GRAINED	ADJECTIVE (e.g. sandy)	21 - 35 %	SAND	27	%
ESTIMATED HAZEN NUMBER: 1.23E-06 cm/s	WITH	11 - 20 %	SILT + CLAY	69	%
NOTE: UNIFIED SOIL CLASSIFICATION SYSTEM	TRACE	1 - 10 %			

GRAIN SIZE DETERMINATIONS

Client:	MTE Consultants Inc.`Burlington	Sample Location:	
Project Number:	19772	Sample ID:	MW212-18 10-12
Sampler:		Sample Depth:	
Technician:	ZA	Date Sampled:	20-04-18
Lab ID Number:	L2083688-37	Date Submitted:	20-04-18
		Date Completed:	05-14-18

Total Sample Weight	180	grams	Specific Gravity:	2.650
Hydro. Sample Weight	50.000	grams	Liquid Specific Gravity:	1.000
% Past #10	0.972	* 100	Grav Factor:	1.606
Sub Factor	3.500			

Sieve Size	Weight Retained (grams)	Percent Retained	Diameter (mm)	Cum. % Retained	Cum. % Passing
38.1 mm. DIA.:	0.000	0.000	38.100	0.000	100.000
25.4 mm. DIA.:	0.000	0.000	25.400	0.000	100.000
19.0 mm. DIA.:	0.000	0.000	19.000	0.000	100.000
9.5 mm. DIA.:	3.000	1.667	9.500	1.667	98.333
NO. 4 SIEVE :	0.000	0.000	4.500	1.667	98.333
NO. 10 SIEVE :	2.000	1.111	2.000	2.778	97.222
NO. 20 SIEVE :	5.000	9.722	0.850	12.500	87.500
NO. 40 SIEVE :	2.000	3.889	0.425	16.389	83.611
NO. 60 SIEVE :	1.000	1.944	0.250	18.333	81.667
NO. 100 SIEVE:	1.000	1.944	0.150	20.278	79.722
NO. 200 SIEVE:	2.000	3.889	0.075	24.167	75.833

Time (min)	Hydrometer Reading	Temperature (C)	Diameter (mm)	% Suspended (Subsample)	% Suspended (Total Sample)
1.00	23.0	19.4	0.044	64.188	62.405
2.00	21.0	19.4	0.032	57.764	56.159
4.00	20.0	19.4	0.023	54.551	53.036
8.00	19.0	19.3	0.016	51.277	49.852
15.00	17.5	19.2	0.012	46.396	45.107
30.00	16.0	19.1	0.009	41.515	40.362
60.00	15.0	18.9	0.006	38.178	37.117
120.00	14.0	19.1	0.004	35.091	34.116
240.00	13.0	18.8	0.003	31.691	30.810
480.00	11.0	18.6	0.002	25.141	24.443
1440.00	10.5	19.1	0.001	23.848	23.186

GRAIN SIZE	% BY WT.	DIA. RANGE (mm)
% GRAVEL :	1.67	> 4.5
% COARSE SAND :	1.11	2.0 - 4.5
% MEDIUM SAND :	13.61	0.425 - 2.0
% FINE SAND :	7.78	0.075 - 0.425
% SILT :	51.73	0.075 - 0.002
% CLAY :	24.10	< 0.002
% CLAY :	35.09	< 0.005

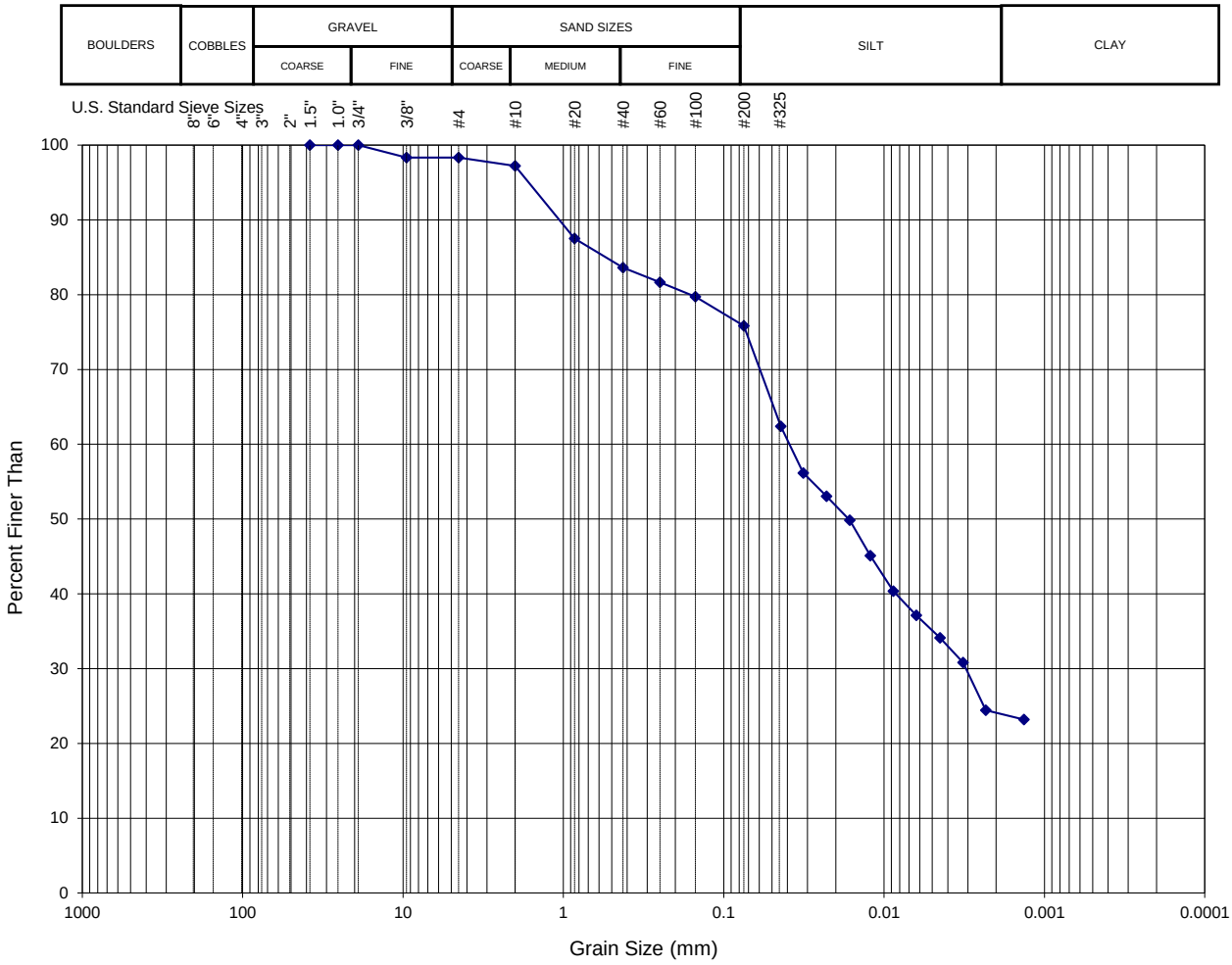
ALS Environmental

WATERLOO

PARTICLE SIZE DISTRIBUTION CURVE

ASTM METHOD D422-63

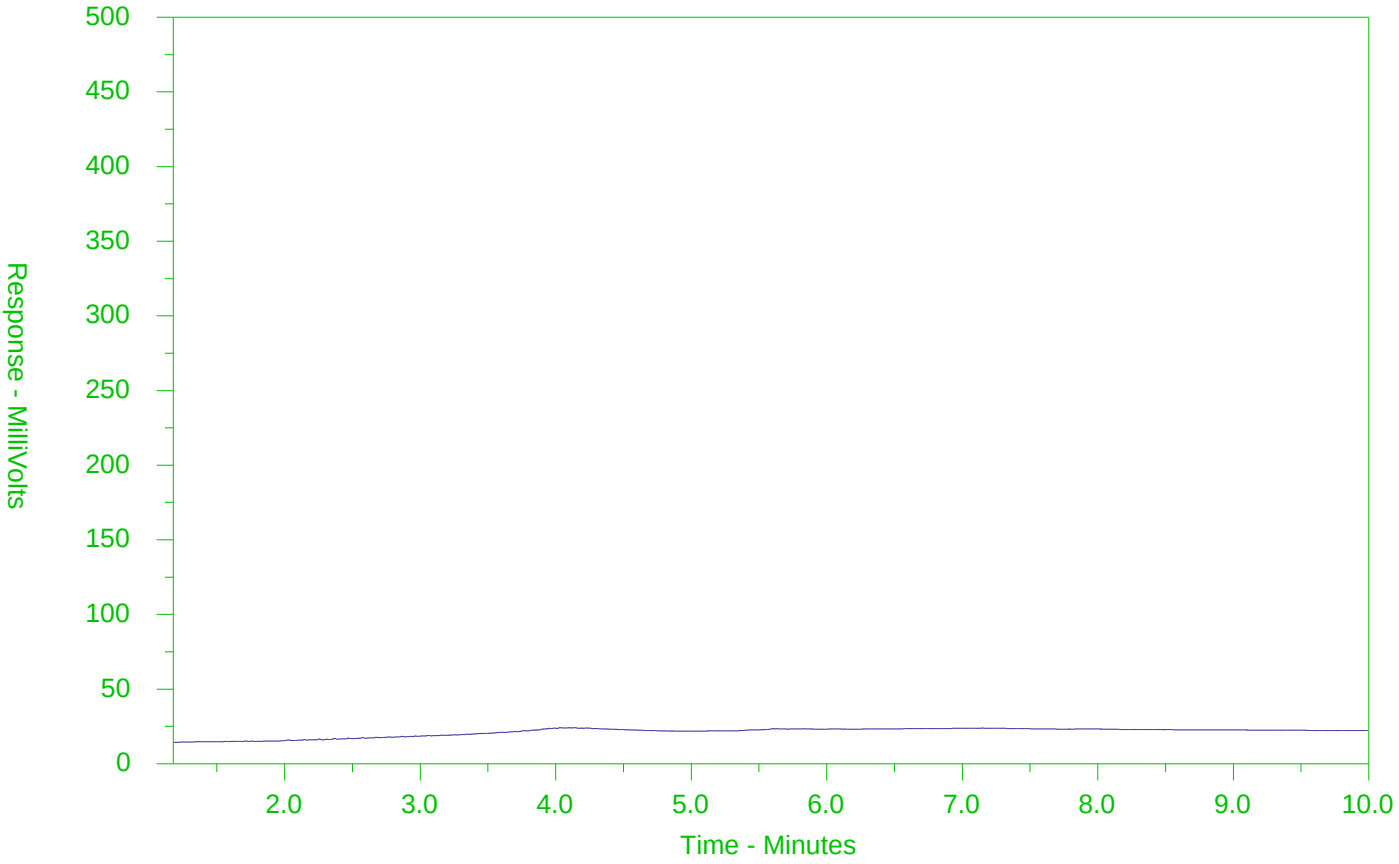
Project Name:	MTE Consultants Inc.`Burlington
Project Number:	19772
Sample Location:	
Sample Number:	MW212-18 10-12
Sample Depth:	
Lab ID Number:	L2083688-37
Technician:	ZA
Sampler:	
Dates:	
Collected On:	20-04-18
Analyzed:	14-05-18



DESCRIPTION	SOIL CLASSIFICATION DESCRIPTIVE MODIFIERS		SUMMARY		
SANDY CLAYEY SILT, TRACE GRAVEL	AND	36 - 50 %	GRAVEL	2	%
FINE GRAINED	ADJECTIVE (e.g. sandy)	21 - 35 %	SAND	23	%
ESTIMATED HAZEN NUMBER: 1.24E-06 cm/s	WITH	11 - 20 %	SILT + CLAY	76	%
NOTE: UNIFIED SOIL CLASSIFICATION SYSTEM	TRACE	1 - 10 %			

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2083688-2
Client Sample ID: BH201-18 15-16



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

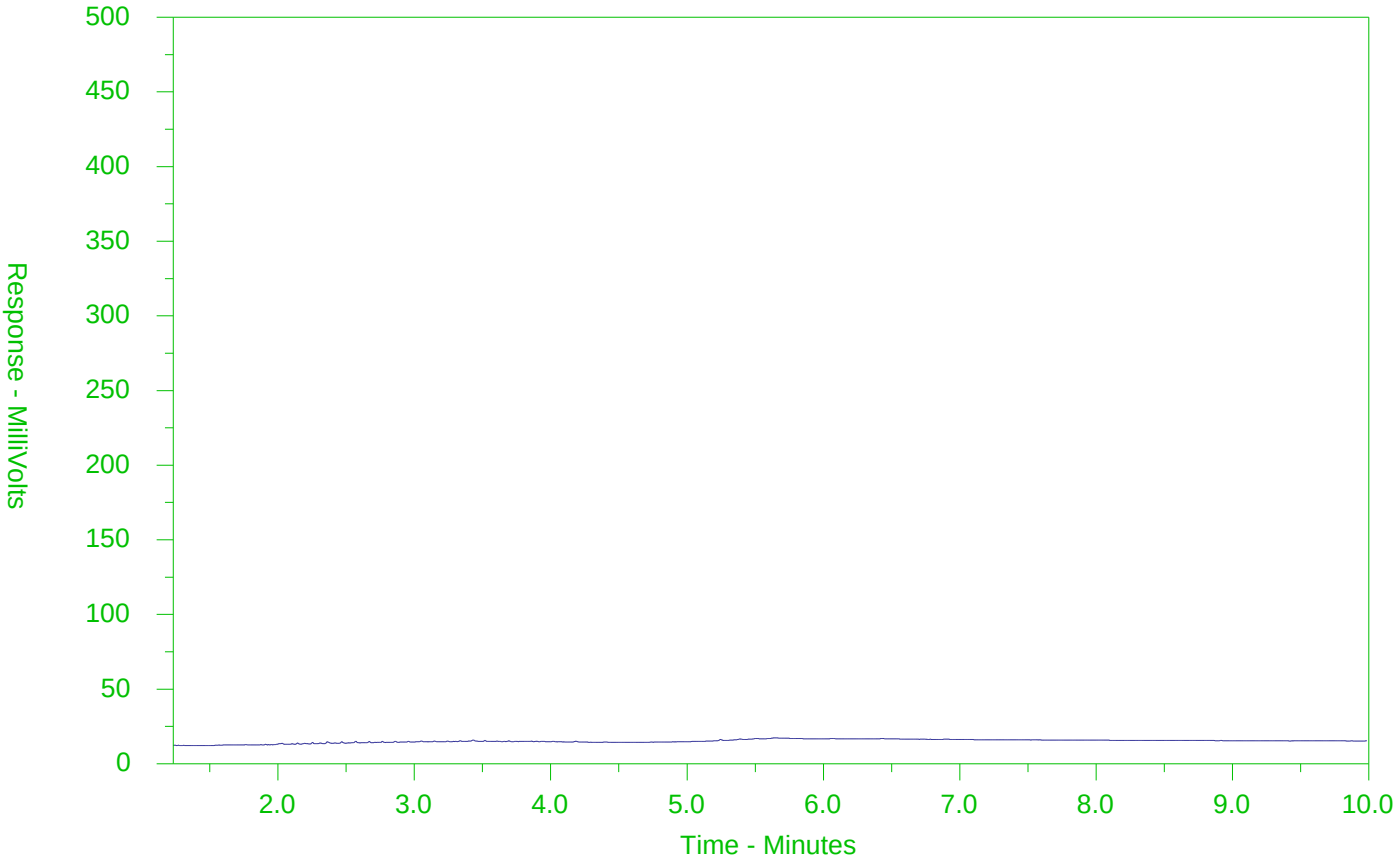
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2083688-5
Client Sample ID: BH202-18 1-2



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

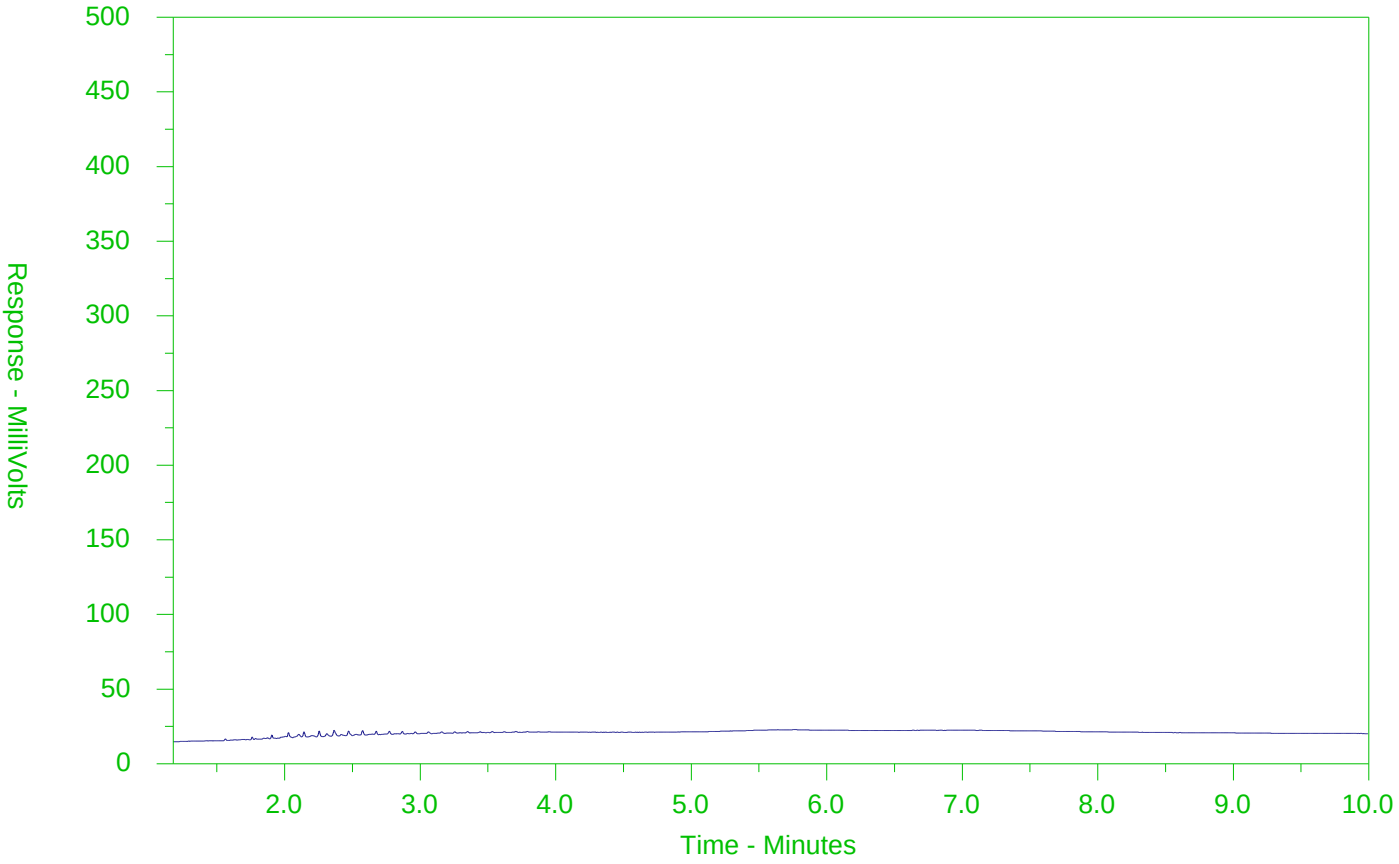
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2083688-30
Client Sample ID: BH210-1818-19.5



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

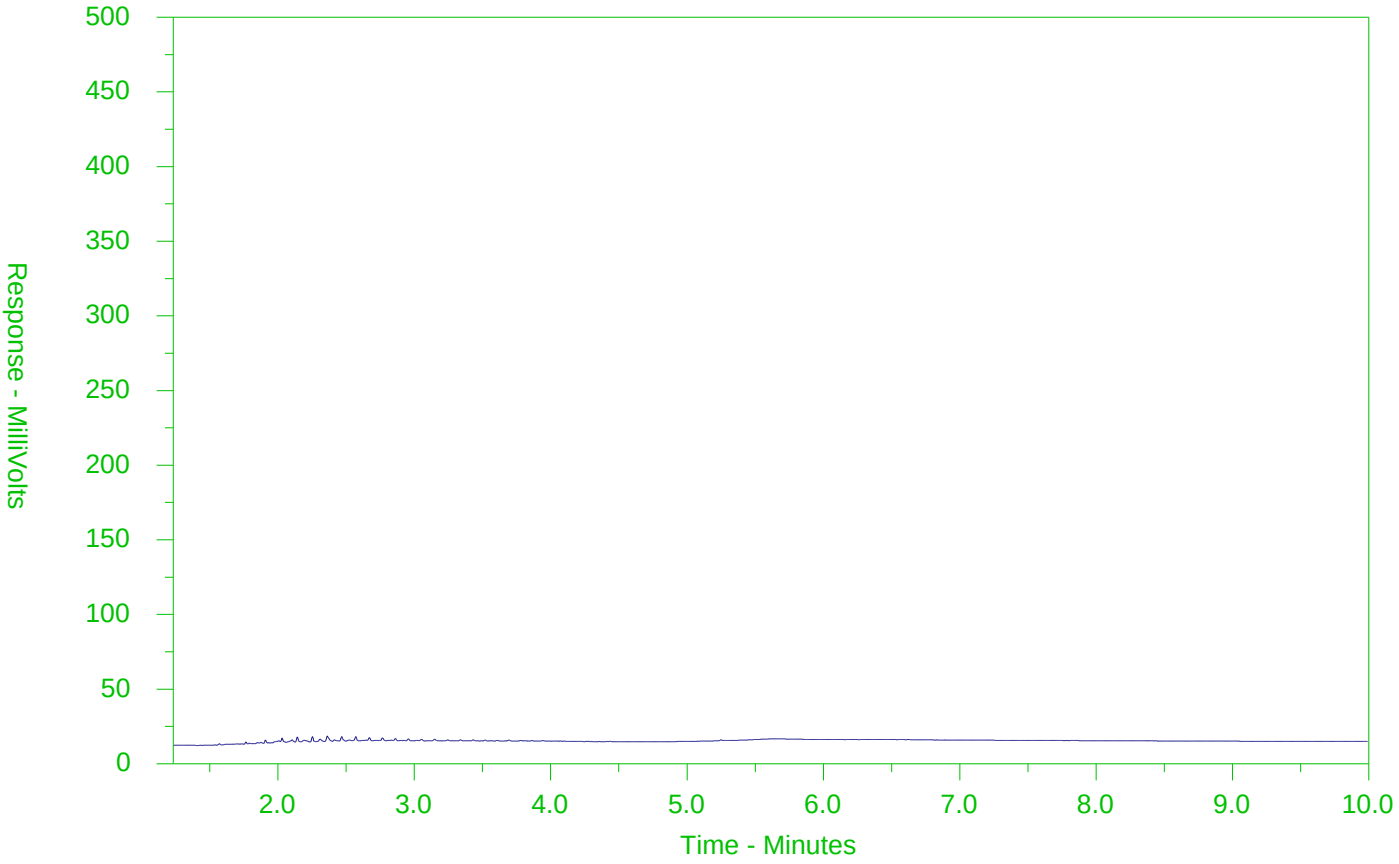
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2083688-31
Client Sample ID: BH1210-18 18-19.5



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

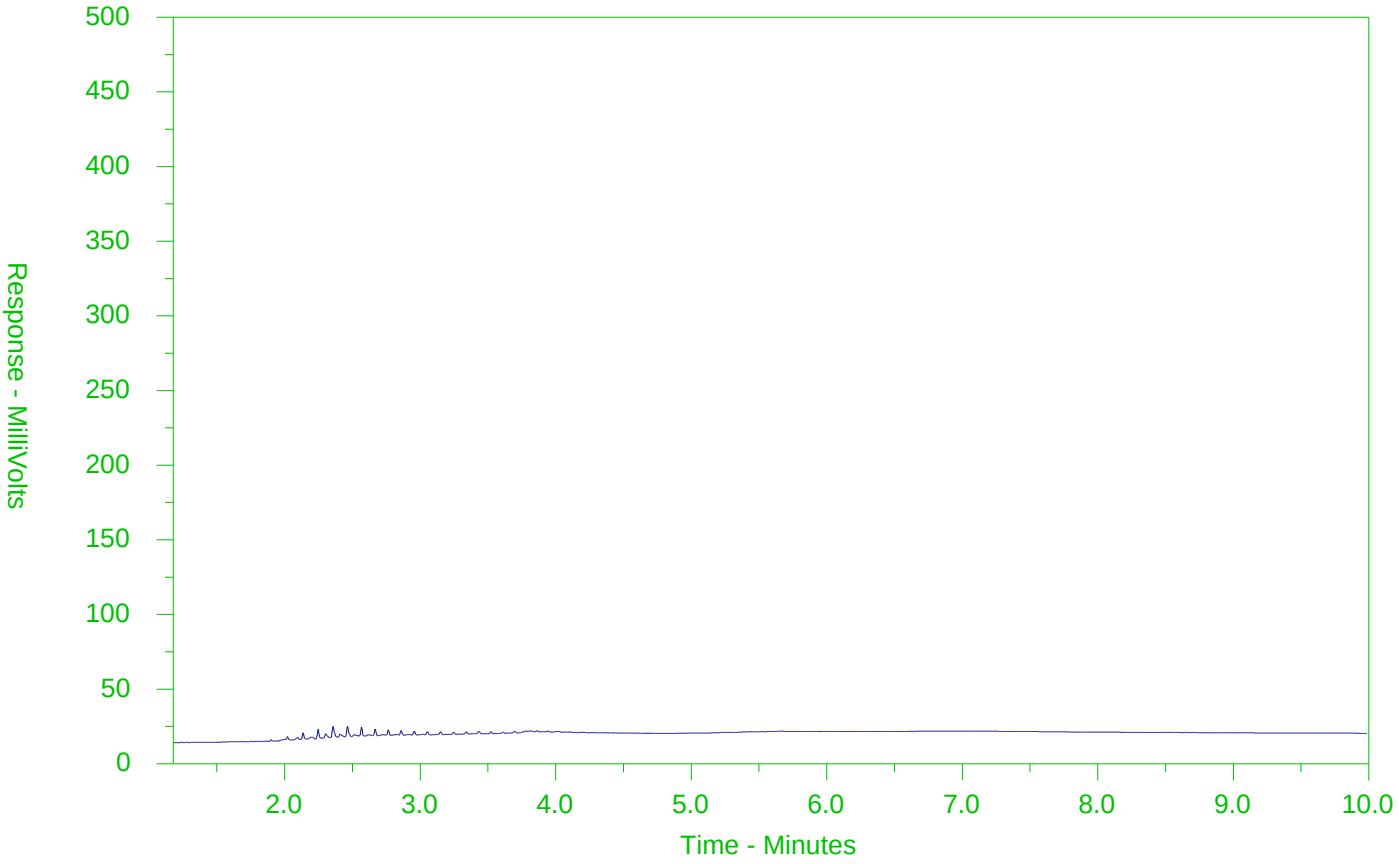
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2083688-32
Client Sample ID: MW211-18 3-4



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

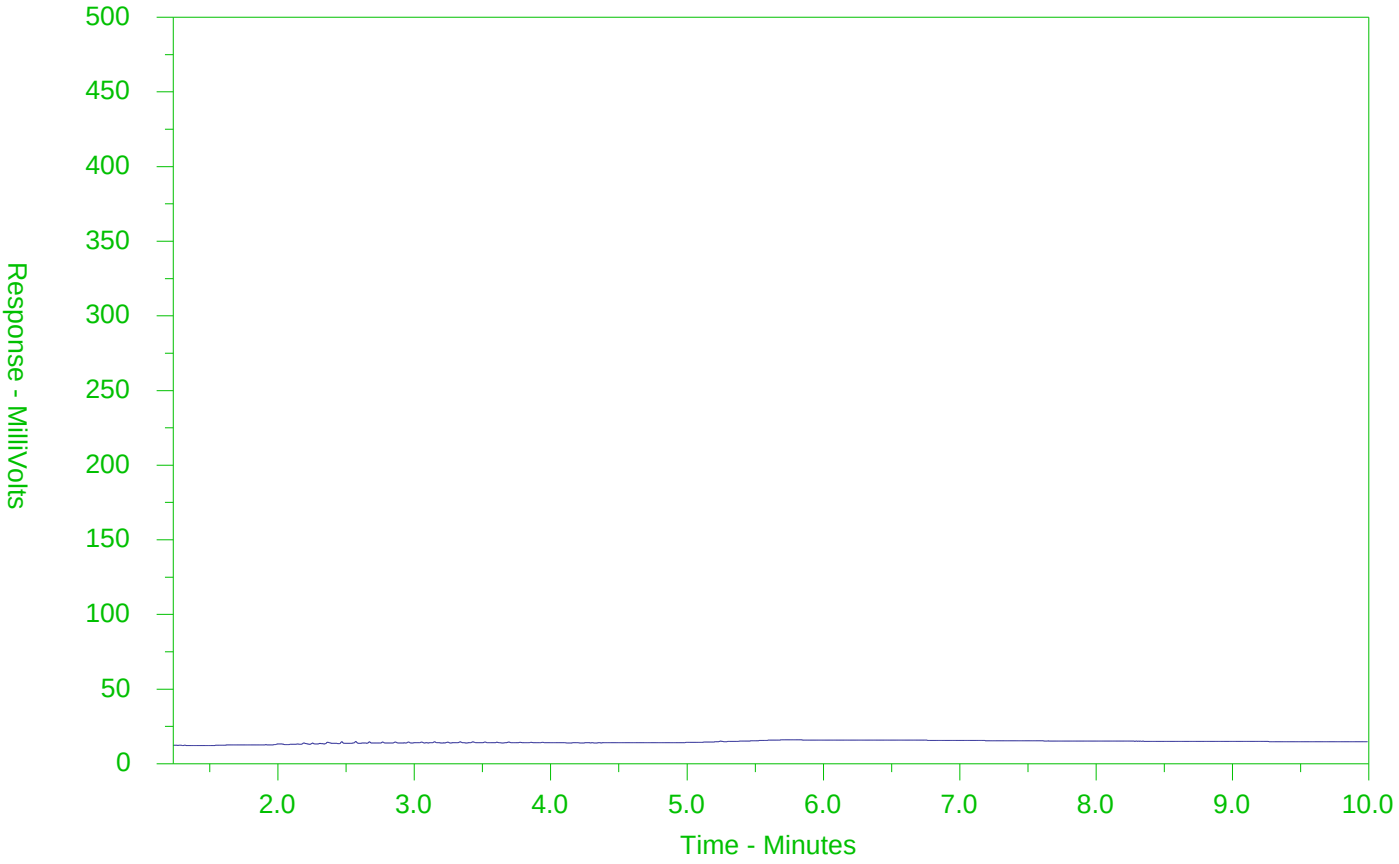
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2083688-35
Client Sample ID: MW212-18 3-4



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

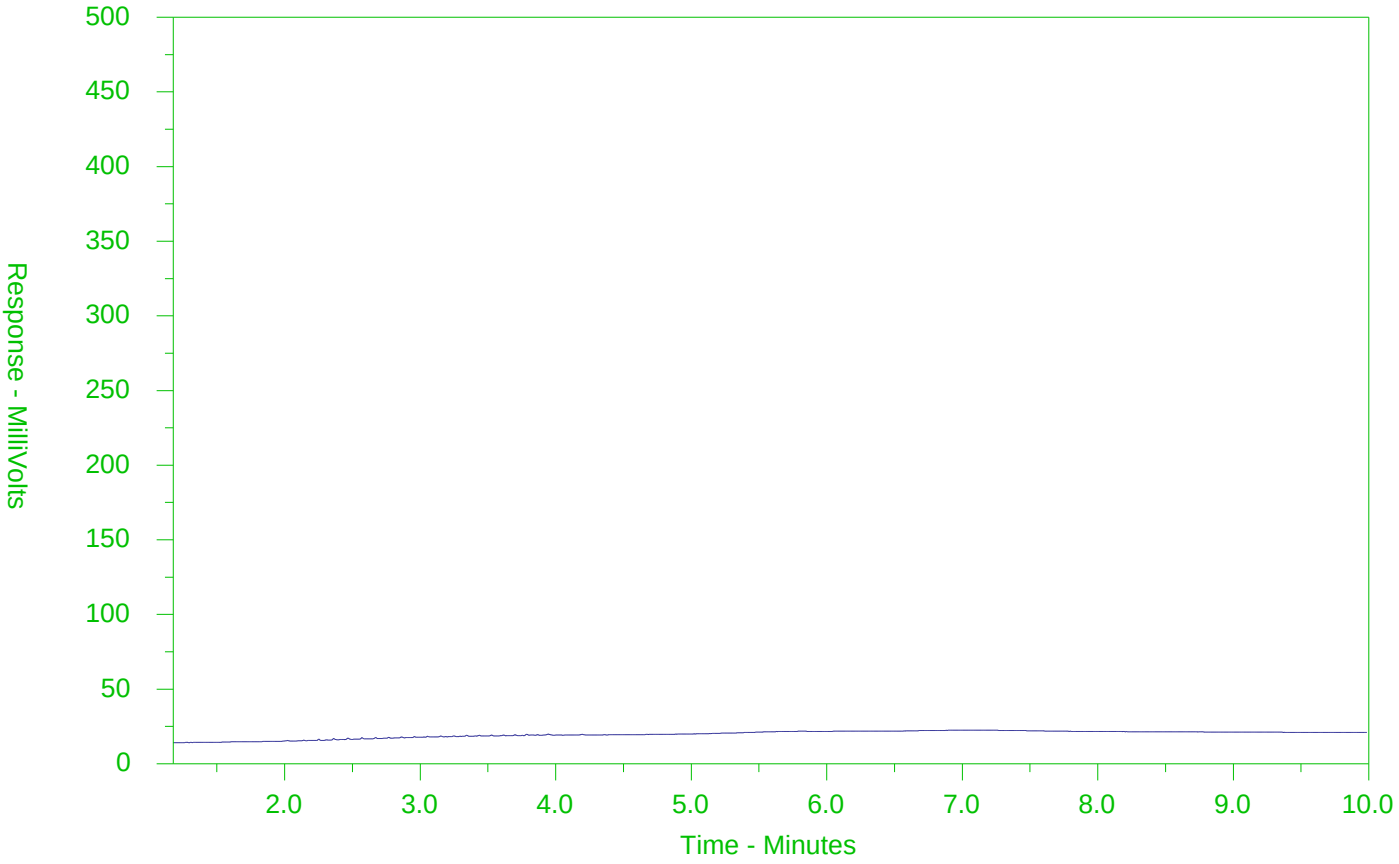
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2083688-39
Client Sample ID: MW213-18 3-4



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

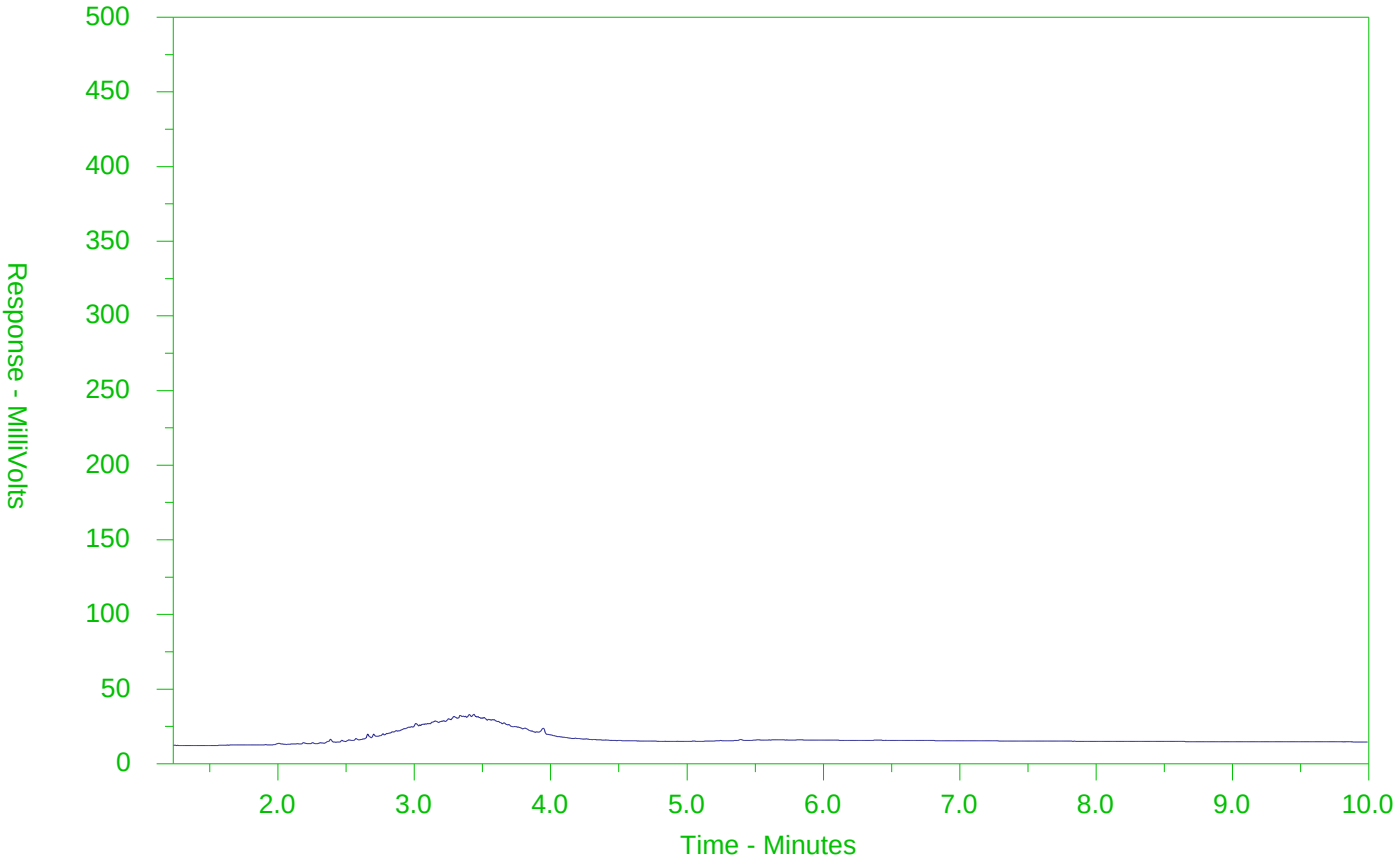
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2083688-43
Client Sample ID: MW214-18 1-2



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

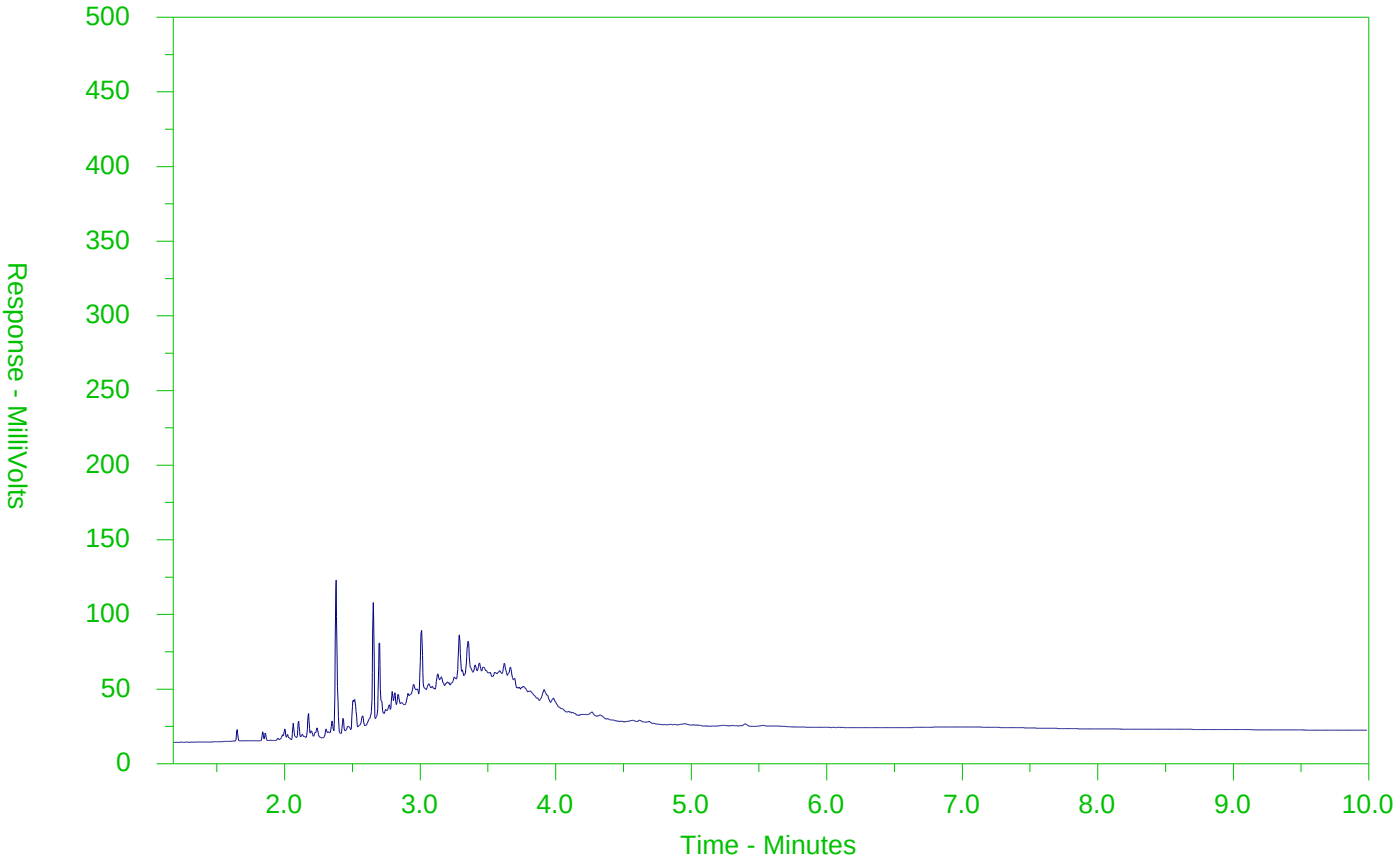
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2083688-45
Client Sample ID: MW215-18 1-2



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2083698-COFC

COC Number: 17 - 618764

Page 1 of 4

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants
Contact:	Anthony Puntillo
Phone:	905-639-2552
	Company address below will appear on the final report
Street:	1016 Sutton Drive, Unit A
City/Province:	Burlington, ON
Postal Code:	L7L 6B8
Invoice To	Same as Report To ☐ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	☒ PDF ☒ EXCEL | EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☒ EMAIL | MAIL ☐ FAX
Email 1 or Fax	apuntillo@mte85.com
Email 2	sbuck@mte85.com
Email 3	

Invoice Distribution	
Select Invoice Distribution:	☐ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	accounting@mte85.com
Email 2	

Project Information	Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	AFE/Cost Center:	PO#
Job #: 390334-100	Major/Minor Code:	Routing Code:
PO / AFE:	Requisitioner:	
LSD:	Location:	
ALS Lab Work Order # (lab use only):	ALS Contact:	Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☒ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐; 3 day [P3-25%] ☐; 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E-100%] ☐; Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Metals (F/P)	PAHs	PHCs	VOCs	PCBs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
1	BH201-18 1-2	20-Apr-18	13:00	Soil					X			1
2	15-16		13:10				X	X				3
3	16-18		13:13									3
4	BH1201-18 1-2		13:22							X		3
5	BH202-18 1-2		11:40		X		X	X		X		1
6	6-8		11:45									3
7	8-10		11:47							X		3
8	BH203-18 1-2		11:15		X					X		3
9	6-8		11:20					X				1
10	13-15		11:25					X				3
11	17-18.5		11:30									3
12	BH204-18 3-4		11:55		X	X				X		3
												1

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☐ NO	T3, Res, med-fine
Are samples for human consumption/ use? | | YES | | NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐

Ice Packs ☐ Ice Cubes ☒ Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
5.3°C				11.4	11.6		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date: Apr 20/18	Time: 17:30	Received by: L.Wrona	Date: 20-Apr-18	Time: 5:30	Received by:	Date: 23-Apr-18	Time: 17:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2083688-COFC

COC Number: 17 - 617280

Page 2 of 4

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants
Contact:	Anthony Puntillo
Phone:	905-634-2552
Company address below will appear on the final report	
Street:	1016 Sutton Drive, Unit A
City/Province:	Burlington, ON
Postal Code:	L7L 6B8
Invoice To	Same as Report To ☐ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	Accounting

Report Format / Distribution	
Select Report Format:	☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☒ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	apuntillo@mte85.com
Email 2	sbuck@mte85.com
Email 3	

Invoice Distribution	
Select Invoice Distribution:	☐ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	accounting@mte85.com
Email 2	

Project Information	
ALS Account # / Quote #:	
Job #:	38034-600
PO / AFE:	
LSD:	
ALS Lab Work Order # (lab use only):	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact:	Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☒ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E-100%] ☐ | Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Metals	PAHs	PHCs	VOCs	PCBs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
13	BH204-18 6-8	20-Apr-18	1200	Soil						X		1
14	BH204-18 3-4		1157		X	X						1
15	BH205-18 1-2		1210		X							1
16	↓ 6-8		1215							X		1
17	BH206-18 3-4		1452		X							1
18	↓ 6-8		1457							X		1
19	BH207-18 1-2		945			X						1
20	↓ 6-8		950							X		1
21	↓ 8-10		1000							X		1
22	BH207-18 1-2		1008							X		1
23	BH208-18 1-2		830			X						1
24	↓ 6-8	↓	840	↓						X		1

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☐ NO	T3, Res, Med-Fine
Are samples for human consumption/ use? ☐ YES ☐ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐ | Ice Packs ☐ Ice Cubes ☒ Custody seal intact Yes ☐ No ☐ | Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
5.3				11.6	11.4		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date: Apr 20/18	Time: 1730	Received by: L.Wrona	Date: 20-Apr-18	Time: 5:30	Received by:	Date: 23-Apr-18	Time: 17:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

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Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2083688-COFC

COC Number: 17 - 617281

Page 3 of 4

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants
Contact:	Anthony Puntillo
Phone:	905-639-2552
Company address below will appear on the final report	
Street:	1016 Sutton Drive, Unit A
City/Province:	Burlington, ON
Postal Code:	L7L 6B8
Invoice To	Same as Report To ☐ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	Accounting

Report Format / Distribution

Select Report Format: ☒ PDF ☒ EXCEL | | EDD (DIGITAL)
Quality Control (QC) Report with Report ☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☒ EMAIL | | MAIL ☐ FAX
Email 1 or Fax apuntillo@mtecs.com
Email 2 sbuck@mtecs.com
Email 3

Invoice Distribution

Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax accounting@mtecs.com
Email 2

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☐ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E-100%] ☐ | Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information

ALS Account # / Quote #:	
Job #:	38934-100
PO / AFE:	
LSD:	
ALS Lab Work Order # (lab use only):	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact:	Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Metals	PAHs	PHCs	VOCs	PCBs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
25	BH208-18 8-10	20-Apr-18	8:42	Soil						X		1
26	BH209-18 6-8		9:20			X						1
27	13-15		9:23							X		3
28	15-17		9:30					X				3
29	17-18.5		9:34							X		3
30	BH210-18 18-19.5		12:30				X					3
31	BH1310-18 18-19.5		12:32				X					3
32	MW311-18 3-4		15:00				X	X				3
33	8-10		15:05							X		3
34	13-15		15:08							X		3
35	MW312-18 3-4		14:40				X					3
36	8-10		14:43							X		3

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO

Are samples for human consumption/ use? | | YES | | NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

T3, res, met-fine

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐
Ice Packs ☐ Ice Cubes ☒ | Custody seal intact Yes ☐ No ☐
Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
5.3°C				11.6	11.4		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
	19-Apr-18	1730	L. Wrona	20-Apr-18	5:30		23-Apr-18	17:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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JULY 2017 FRONT

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1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2083688-COFC

COC Number: 17 - 617282

Page 4 of 4

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants
Contact:	905 639 2552 Anthony Puntillo
Phone:	905-639-2552
Company address below will appear on the final report	
Street:	1016 Sutton Drive, Unit A
City/Province:	Burlington, ON
Postal Code:	L7L 6B8
Invoice To	Same as Report To ☐ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	Accounting

Report Format / Distribution

Select Report Format: ☒ PDF ☒ EXCEL | | EDD (DIGITAL)
Quality Control (QC) Report with Report ☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☒ EMAIL | | MAIL ☐ FAX
Email 1 or Fax apuntillo@mte85.com
Email 2 sbuck@mte85.com
Email 3

Invoice Distribution

Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax accounting@mte85.com
Email 2

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☒ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E-100%] ☐ | Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information	
ALS Account # / Quote #:	
Job #:	38134-100
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only):

ALS Contact:

Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Metals	PAHs	PHCs	VOCs	PCBs	BTEX	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
37	MW212-18 10-12	20-Apr-18	1448	Soil							X		3
38	↓ 13-15		1450								X		3
39	MW213-18 3-4		1420				X	X					3
40	8-10		1425								X		3
41	10-12		1430					X					3
42	↓ 13-15		1435								X		3
43	BH214-18 1-2		1030				X		X	X			3
44	↓ 3-4.5		1035								X		3
45	BH215-18 1-2		1045				X		X	X			3
46	↓ 3-4.5		1050								X		3
47	BH1215-18 1-2		1044				[illegible]		[illegible]	[illegible]			1

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO

Are samples for human consumption/ use? | | YES | | NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

T3, res, med-fine

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐
Ice Packs ☐ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐
Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
5.3°C				11.6	11.4		

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
[signature]	Apr 20/18	1730

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time
L. Wrona	20-Apr-18	5:30

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time
[signature]	23-Apr-18	17:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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JULY 2017 FRONT

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1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

MTE CONSULTANTS INC. (Kitchener)
ATTN: Spencer Buck
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Date Received: 24-APR-18
Report Date: 30-APR-18 11:36 (MT)
Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2084957

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 17-617283
Legal Site Desc:

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2084957-1	BH209 3-5						
Sampled By:	CLIENT on 24-APR-18 @ 15:20						
Matrix:	SOIL						
Physical Tests							
	% Moisture	13.7		0.10	%	26-APR-18	
Volatile Organic Compounds							
	Acetone	<0.50		0.50	ug/g	27-APR-18	28
	Benzene	<0.0068		0.0068	ug/g	27-APR-18	0.17
	Bromodichloromethane	<0.050		0.050	ug/g	27-APR-18	1.9
	Bromoform	<0.050		0.050	ug/g	27-APR-18	0.26
	Bromomethane	<0.050		0.050	ug/g	27-APR-18	0.05
	Carbon tetrachloride	<0.050		0.050	ug/g	27-APR-18	0.12
	Chlorobenzene	<0.050		0.050	ug/g	27-APR-18	2.7
	Dibromochloromethane	<0.050		0.050	ug/g	27-APR-18	2.9
	Chloroform	<0.050		0.050	ug/g	27-APR-18	0.18
	1,2-Dibromoethane	<0.050		0.050	ug/g	27-APR-18	0.05
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	27-APR-18	1.7
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	27-APR-18	6
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	27-APR-18	0.097
	Dichlorodifluoromethane	<0.050		0.050	ug/g	27-APR-18	25
	1,1-Dichloroethane	<0.050		0.050	ug/g	27-APR-18	0.6
	1,2-Dichloroethane	<0.050		0.050	ug/g	27-APR-18	0.05
	1,1-Dichloroethylene	<0.050		0.050	ug/g	27-APR-18	0.05
	cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	27-APR-18	2.5
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	27-APR-18	0.75
	Methylene Chloride	<0.050		0.050	ug/g	27-APR-18	0.96
	1,2-Dichloropropane	<0.050		0.050	ug/g	27-APR-18	0.085
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	27-APR-18	
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	27-APR-18	
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	27-APR-18	0.081
	Ethylbenzene	<0.018		0.018	ug/g	27-APR-18	1.6
	n-Hexane	<0.050		0.050	ug/g	27-APR-18	34
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	27-APR-18	44
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	27-APR-18	4.3
	MTBE	<0.050		0.050	ug/g	27-APR-18	1.4
	Styrene	<0.050		0.050	ug/g	27-APR-18	2.2
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	27-APR-18	0.05
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	27-APR-18	0.05
	Tetrachloroethylene	<0.050		0.050	ug/g	27-APR-18	2.3
	Toluene	<0.080		0.080	ug/g	27-APR-18	6
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	27-APR-18	3.4
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	27-APR-18	0.05
	Trichloroethylene	<0.010		0.010	ug/g	27-APR-18	0.52
	Trichlorofluoromethane	<0.050		0.050	ug/g	27-APR-18	5.8
	Vinyl chloride	<0.020		0.020	ug/g	27-APR-18	0.022
	o-Xylene	<0.020		0.020	ug/g	27-APR-18	
	m+p-Xylenes	<0.030		0.030	ug/g	27-APR-18	
	Xylenes (Total)	<0.050		0.050	ug/g	27-APR-18	25
	Surrogate: 4-Bromofluorobenzene	100.1		50-140	%	27-APR-18	
	Surrogate: 1,4-Difluorobenzene	106.9		50-140	%	27-APR-18	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2084957-2	BH209 8-9						
Sampled By:	CLIENT on 24-APR-18 @ 15:35						
Matrix:	SOIL						
Physical Tests							
	% Moisture	8.74		0.10	%	26-APR-18	
Volatile Organic Compounds							
	Acetone	<0.50		0.50	ug/g	27-APR-18	28
	Benzene	<0.0068		0.0068	ug/g	27-APR-18	0.17
	Bromodichloromethane	<0.050		0.050	ug/g	27-APR-18	1.9
	Bromoform	<0.050		0.050	ug/g	27-APR-18	0.26
	Bromomethane	<0.050		0.050	ug/g	27-APR-18	0.05
	Carbon tetrachloride	<0.050		0.050	ug/g	27-APR-18	0.12
	Chlorobenzene	<0.050		0.050	ug/g	27-APR-18	2.7
	Dibromochloromethane	<0.050		0.050	ug/g	27-APR-18	2.9
	Chloroform	<0.050		0.050	ug/g	27-APR-18	0.18
	1,2-Dibromoethane	<0.050		0.050	ug/g	27-APR-18	0.05
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	27-APR-18	1.7
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	27-APR-18	6
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	27-APR-18	0.097
	Dichlorodifluoromethane	<0.050		0.050	ug/g	27-APR-18	25
	1,1-Dichloroethane	<0.050		0.050	ug/g	27-APR-18	0.6
	1,2-Dichloroethane	<0.050		0.050	ug/g	27-APR-18	0.05
	1,1-Dichloroethylene	<0.050		0.050	ug/g	27-APR-18	0.05
	cis-1,2-Dichloroethylene	0.384		0.050	ug/g	27-APR-18	2.5
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	27-APR-18	0.75
	Methylene Chloride	<0.050		0.050	ug/g	27-APR-18	0.96
	1,2-Dichloropropane	<0.050		0.050	ug/g	27-APR-18	0.085
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	27-APR-18	
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	27-APR-18	
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	27-APR-18	0.081
	Ethylbenzene	<0.018		0.018	ug/g	27-APR-18	1.6
	n-Hexane	<0.050		0.050	ug/g	27-APR-18	34
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	27-APR-18	44
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	27-APR-18	4.3
	MTBE	<0.050		0.050	ug/g	27-APR-18	1.4
	Styrene	<0.050		0.050	ug/g	27-APR-18	2.2
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	27-APR-18	0.05
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	27-APR-18	0.05
	Tetrachloroethylene	<0.050		0.050	ug/g	27-APR-18	2.3
	Toluene	<0.080		0.080	ug/g	27-APR-18	6
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	27-APR-18	3.4
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	27-APR-18	0.05
	Trichloroethylene	0.400		0.010	ug/g	27-APR-18	0.52
	Trichlorofluoromethane	<0.050		0.050	ug/g	27-APR-18	5.8
	Vinyl chloride	<0.020		0.020	ug/g	27-APR-18	0.022
	o-Xylene	<0.020		0.020	ug/g	27-APR-18	
	m+p-Xylenes	<0.030		0.030	ug/g	27-APR-18	
	Xylenes (Total)	<0.050		0.050	ug/g	27-APR-18	25
	Surrogate: 4-Bromofluorobenzene	99.5		50-140	%	27-APR-18	
	Surrogate: 1,4-Difluorobenzene	107.8		50-140	%	27-APR-18	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Fine)

#1: T2-Soil-Res/Park/Inst. Property Use (Fine)

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
VOC-1,3-DCP-CALC-WT	Soil	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Soil	VOC-O.Reg 153/04 (July 2011)	SW846 8260 (511)

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

17-617283

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2084957 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT	**Soil**							
Batch R4023983								
WG2759376-3 DUP		**L2084966-1**						
% Moisture		19.0	19.0		%	0.1	20	26-APR-18
WG2759376-2 LCS								
% Moisture			99.6		%		90-110	26-APR-18
WG2759376-1 MB								
% Moisture			<0.10		%		0.1	26-APR-18
VOC-511-HS-WT	**Soil**							
Batch R4024077								
WG2758855-4 DUP		**WG2758855-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	27-APR-18
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	27-APR-18
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	27-APR-18
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	27-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R4024077								
WG2758855-4 DUP		**WG2758855-3**						
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	27-APR-18
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	27-APR-18
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	27-APR-18
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	27-APR-18
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	27-APR-18
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	27-APR-18
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	27-APR-18
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	27-APR-18
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	27-APR-18
WG2758855-2 LCS								
1,1,1,2-Tetrachloroethane			99.6		%		60-130	27-APR-18
1,1,2,2-Tetrachloroethane			92.7		%		60-130	27-APR-18
1,1,1-Trichloroethane			101.5		%		60-130	27-APR-18
1,1,2-Trichloroethane			101.2		%		60-130	27-APR-18
1,1-Dichloroethane			98.7		%		60-130	27-APR-18
1,1-Dichloroethylene			92.2		%		60-130	27-APR-18
1,2-Dibromoethane			101.7		%		70-130	27-APR-18
1,2-Dichlorobenzene			100.4		%		70-130	27-APR-18
1,2-Dichloroethane			104.3		%		60-130	27-APR-18
1,2-Dichloropropane			100.9		%		70-130	27-APR-18
1,3-Dichlorobenzene			100.2		%		70-130	27-APR-18
1,4-Dichlorobenzene			100.9		%		70-130	27-APR-18
Acetone			112.4		%		60-140	27-APR-18
Benzene			101.8		%		70-130	27-APR-18
Bromodichloromethane			99.6		%		50-140	27-APR-18
Bromoform			92.6		%		70-130	27-APR-18
Bromomethane			99.4		%		50-140	27-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R4024077								
WG2758855-2 LCS								
Carbon tetrachloride			98.1		%		70-130	27-APR-18
Chlorobenzene			99.9		%		70-130	27-APR-18
Chloroform			101.3		%		70-130	27-APR-18
cis-1,2-Dichloroethylene			101.5		%		70-130	27-APR-18
cis-1,3-Dichloropropene			102.8		%		70-130	27-APR-18
Dibromochloromethane			102.0		%		60-130	27-APR-18
Dichlorodifluoromethane			68.6		%		50-140	27-APR-18
Ethylbenzene			100.9		%		70-130	27-APR-18
n-Hexane			109.2		%		70-130	27-APR-18
Methylene Chloride			100.2		%		70-130	27-APR-18
MTBE			104.2		%		70-130	27-APR-18
m+p-Xylenes			101.4		%		70-130	27-APR-18
Methyl Ethyl Ketone			108.8		%		60-140	27-APR-18
Methyl Isobutyl Ketone			109.8		%		60-140	27-APR-18
o-Xylene			100.3		%		70-130	27-APR-18
Styrene			99.5		%		70-130	27-APR-18
Tetrachloroethylene			100.3		%		60-130	27-APR-18
Toluene			102.3		%		70-130	27-APR-18
trans-1,2-Dichloroethylene			99.1		%		60-130	27-APR-18
trans-1,3-Dichloropropene			101.3		%		70-130	27-APR-18
Trichloroethylene			102.3		%		60-130	27-APR-18
Trichlorofluoromethane			103.0		%		50-140	27-APR-18
Vinyl chloride			94.7		%		60-140	27-APR-18
WG2758855-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	27-APR-18
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	27-APR-18
1,1,1-Trichloroethane			<0.050		ug/g		0.05	27-APR-18
1,1,2-Trichloroethane			<0.050		ug/g		0.05	27-APR-18
1,1-Dichloroethane			<0.050		ug/g		0.05	27-APR-18
1,1-Dichloroethylene			<0.050		ug/g		0.05	27-APR-18
1,2-Dibromoethane			<0.050		ug/g		0.05	27-APR-18
1,2-Dichlorobenzene			<0.050		ug/g		0.05	27-APR-18
1,2-Dichloroethane			<0.050		ug/g		0.05	27-APR-18
1,2-Dichloropropane			<0.050		ug/g		0.05	27-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R4024077								
WG2758855-1 MB								
1,3-Dichlorobenzene			<0.050		ug/g		0.05	27-APR-18
1,4-Dichlorobenzene			<0.050		ug/g		0.05	27-APR-18
Acetone			<0.50		ug/g		0.5	27-APR-18
Benzene			<0.0068		ug/g		0.0068	27-APR-18
Bromodichloromethane			<0.050		ug/g		0.05	27-APR-18
Bromoform			<0.050		ug/g		0.05	27-APR-18
Bromomethane			<0.050		ug/g		0.05	27-APR-18
Carbon tetrachloride			<0.050		ug/g		0.05	27-APR-18
Chlorobenzene			<0.050		ug/g		0.05	27-APR-18
Chloroform			<0.050		ug/g		0.05	27-APR-18
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	27-APR-18
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	27-APR-18
Dibromochloromethane			<0.050		ug/g		0.05	27-APR-18
Dichlorodifluoromethane			<0.050		ug/g		0.05	27-APR-18
Ethylbenzene			<0.018		ug/g		0.018	27-APR-18
n-Hexane			<0.050		ug/g		0.05	27-APR-18
Methylene Chloride			<0.050		ug/g		0.05	27-APR-18
MTBE			<0.050		ug/g		0.05	27-APR-18
m+p-Xylenes			<0.030		ug/g		0.03	27-APR-18
Methyl Ethyl Ketone			<0.50		ug/g		0.5	27-APR-18
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	27-APR-18
o-Xylene			<0.020		ug/g		0.02	27-APR-18
Styrene			<0.050		ug/g		0.05	27-APR-18
Tetrachloroethylene			<0.050		ug/g		0.05	27-APR-18
Toluene			<0.080		ug/g		0.08	27-APR-18
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	27-APR-18
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	27-APR-18
Trichloroethylene			<0.010		ug/g		0.01	27-APR-18
Trichlorofluoromethane			<0.050		ug/g		0.05	27-APR-18
Vinyl chloride			<0.020		ug/g		0.02	27-APR-18
Surrogate: 1,4-Difluorobenzene			94.8		%		50-140	27-APR-18
Surrogate: 4-Bromofluorobenzene			89.2		%		50-140	27-APR-18
WG2758855-5 MS		**L2084808-2**						
1,1,1,2-Tetrachloroethane			105.9		%		50-140	27-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R4024077								
WG2758855-5 MS		**L2084808-2**						
1,1,2,2-Tetrachloroethane			98.7		%		50-140	27-APR-18
1,1,1-Trichloroethane			108.6		%		50-140	27-APR-18
1,1,2-Trichloroethane			105.8		%		50-140	27-APR-18
1,1-Dichloroethane			104.4		%		50-140	27-APR-18
1,1-Dichloroethylene			98.9		%		50-140	27-APR-18
1,2-Dibromoethane			105.9		%		50-140	27-APR-18
1,2-Dichlorobenzene			105.9		%		50-140	27-APR-18
1,2-Dichloroethane			107.8		%		50-140	27-APR-18
1,2-Dichloropropane			105.1		%		50-140	27-APR-18
1,3-Dichlorobenzene			104.6		%		50-140	27-APR-18
1,4-Dichlorobenzene			106.0		%		50-140	27-APR-18
Acetone			119.0		%		50-140	27-APR-18
Benzene			107.6		%		50-140	27-APR-18
Bromodichloromethane			104.9		%		50-140	27-APR-18
Bromoform			97.1		%		50-140	27-APR-18
Bromomethane			103.1		%		50-140	27-APR-18
Carbon tetrachloride			105.5		%		50-140	27-APR-18
Chlorobenzene			105.9		%		50-140	27-APR-18
Chloroform			107.3		%		50-140	27-APR-18
cis-1,2-Dichloroethylene			106.5		%		50-140	27-APR-18
cis-1,3-Dichloropropene			103.8		%		50-140	27-APR-18
Dibromochloromethane			107.6		%		50-140	27-APR-18
Dichlorodifluoromethane			65.0		%		50-140	27-APR-18
Ethylbenzene			108.2		%		50-140	27-APR-18
n-Hexane			117.2		%		50-140	27-APR-18
Methylene Chloride			104.4		%		50-140	27-APR-18
MTBE			110.5		%		50-140	27-APR-18
m+p-Xylenes			108.2		%		50-140	27-APR-18
Methyl Ethyl Ketone			112.2		%		50-140	27-APR-18
Methyl Isobutyl Ketone			114.9		%		50-140	27-APR-18
o-Xylene			107.1		%		50-140	27-APR-18
Styrene			105.5		%		50-140	27-APR-18
Tetrachloroethylene			107.3		%		50-140	27-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R4024077								
WG2758855-5 MS		**L2084808-2**						
Toluene			109.3		%		50-140	27-APR-18
trans-1,2-Dichloroethylene			105.3		%		50-140	27-APR-18
trans-1,3-Dichloropropene			102.7		%		50-140	27-APR-18
Trichloroethylene			108.9		%		50-140	27-APR-18
Trichlorofluoromethane			111.1		%		50-140	27-APR-18
Vinyl chloride			99.0		%		50-140	27-APR-18

Quality Control Report

Workorder: L2084957 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2084957-COFC

COC Number: 17 - 617283

Page [ ] of [ ]

Report To	Contact and company name below will appear on the final report
Company:	MTE CONSULTANTS INC
Contact:	SPENCER BUCK
Phone:	905-639-2552
	Company address below will appear on the final report
Street:	1016 SUTTON DR UNIT A
City/Province:	BURLINGTON, ON
Postal Code:	L7L 6B8
Invoice To	Same as Report To [X] YES [ ] NO
	Copy of Invoice with Report [ ] YES [ ] NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	[X] PDF [X] EXCEL [X] EDD (DIGITAL)
Quality Control (QC) Report with Report	[ ] YES [X] NO
[X] Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	[X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax	Sbuck@mte85.com
Email 2	
Email 3	

Invoice Distribution	
Select Invoice Distribution:	[X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax	Sbuck@mte85.com
Email 2	

Project Information	
ALS Account # / Quote #:	
Job #:	38934-100
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2084957 — 25°C

ALS Contact: ML — Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] [ ] | 3 day [P3-25%] [ ] | 2 day [P2-50%] [ ]

EMERGENCY: 1 Business day [E-100%] [ ] | Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] [ ]

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	VOC	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
	BH209 3-4.5	24-Apr-18	15:20	soil	X			4
	BH209 8-9	"	15:35	soil	X			4

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? [ ] YES [X] NO

Are samples for human consumption/ use? [ ] YES [X] NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

Table 3 residential medium/fine

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen [ ] SIF Observations Yes [ ] No [X]

Ice Packs [ ] Ice Cubes [X] Custody seal intact Yes [ ] No [ ]

Cooling Initiated [X]

INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C
6.2°C	7.2°C

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
Jessica Rasilelli	04/24/18	15:40	Claire Kocharakkal	24-Apr-2018	16:12	ML	Apr. 25/18	17:35

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Your Project #: 38934-100
Your C.O.C. #: n/a

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2020/03/06
Report #: R6100575
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C047486
Received: 2020/02/21, 14:03

Sample Matrix: Soil
Samples Received: 24

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	1	N/A	2020/02/25	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	11	N/A	2020/02/25		EPA 8260C m
1,3-Dichloropropene Sum	11	N/A	2020/02/26		EPA 8260C m
1,3-Dichloropropene Sum	1	N/A	2020/03/06		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Soil (1)	22	2020/02/24	2020/02/25	CAM SOP-00316	CCME CWS m
Strong Acid Leachable Metals by ICPMS	3	2020/02/24	2020/02/26	CAM SOP-00447	EPA 6020B m
Moisture	22	N/A	2020/02/22	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	1	N/A	2020/03/05	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	1	2020/02/24	2020/02/25	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs	6	N/A	2020/02/24	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds and F1 PHCs	14	N/A	2020/02/25	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds and F1 PHCs	2	N/A	2020/02/26	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds in Soil	1	N/A	2020/03/05	CAM SOP-00228	EPA 8260C m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Your Project #: 38934-100
Your C.O.C. #: n/a

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2020/03/06
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CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C047486

Received: 2020/02/21, 14:03

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key



Ronklin Gracian
Project Manager
06 Mar 2020 17:09:23

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bvlabs.com
Phone# (905)817-5752

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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: C047486
Report Date: 2020/03/06

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: ADP

O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

BV Labs ID			MBL672	MBL675	MBL694	MBL694		
Sampling Date			2020/02/19 15:55	2020/02/19 15:35	2020/02/20 09:33	2020/02/20 09:33		
COC Number			n/a	n/a	n/a	n/a		
	UNITS	**Criteria**	**BH305S 9-10**	**BH306S 9-10**	**BH314S 2-4**	**BH314S 2-4 Lab-Dup**	**RDL**	**QC Batch**
Metals								
Acid Extractable Antimony (Sb)	ug/g	7.5	0.21	<0.20	0.28	0.29	0.20	6602742
Acid Extractable Arsenic (As)	ug/g	18	6.6	11	7.1	7.0	1.0	6602742
Acid Extractable Barium (Ba)	ug/g	390	84	53	120	110	0.50	6602742
Acid Extractable Beryllium (Be)	ug/g	5	0.71	0.64	0.65	0.64	0.20	6602742
Acid Extractable Boron (B)	ug/g	120	12	11	11	10	5.0	6602742
Acid Extractable Cadmium (Cd)	ug/g	1.2	<0.10	<0.10	0.15	0.11	0.10	6602742
Acid Extractable Chromium (Cr)	ug/g	160	21	18	20	20	1.0	6602742
Acid Extractable Cobalt (Co)	ug/g	22	12	16	12	13	0.10	6602742
Acid Extractable Copper (Cu)	ug/g	180	59	57	56	58	0.50	6602742
Acid Extractable Lead (Pb)	ug/g	120	9.4	10	12	12	1.0	6602742
Acid Extractable Molybdenum (Mo)	ug/g	6.9	0.74	0.97	0.89	0.79	0.50	6602742
Acid Extractable Nickel (Ni)	ug/g	130	25	27	26	27	0.50	6602742
Acid Extractable Selenium (Se)	ug/g	2.4	<0.50	<0.50	<0.50	<0.50	0.50	6602742
Acid Extractable Silver (Ag)	ug/g	25	<0.20	<0.20	<0.20	<0.20	0.20	6602742
Acid Extractable Thallium (Tl)	ug/g	1	0.11	0.11	0.14	0.16	0.050	6602742
Acid Extractable Uranium (U)	ug/g	23	0.66	0.68	0.63	0.65	0.050	6602742
Acid Extractable Vanadium (V)	ug/g	86	29	25	27	28	5.0	6602742
Acid Extractable Zinc (Zn)	ug/g	340	64	58	62	62	5.0	6602742

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 PAHS (SOIL)

BV Labs ID			MBL680		
Sampling Date			2020/02/20 11:50		
COC Number			n/a		
	UNITS	**Criteria**	**BH308S 1-2**	**RDL**	**QC Batch**
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/g	-	<0.0071	0.0071	6600108
Polyaromatic Hydrocarbons					
Acenaphthene	ug/g	29	<0.0050	0.0050	6603994
Acenaphthylene	ug/g	0.17	<0.0050	0.0050	6603994
Anthracene	ug/g	0.74	0.013	0.0050	6603994
Benzo(a)anthracene	ug/g	0.63	0.024	0.0050	6603994
Benzo(a)pyrene	ug/g	0.3	0.019	0.0050	6603994
Benzo(b/j)fluoranthene	ug/g	0.78	0.026	0.0050	6603994
Benzo(g,h,i)perylene	ug/g	7.8	0.013	0.0050	6603994
Benzo(k)fluoranthene	ug/g	0.78	0.0096	0.0050	6603994
Chrysene	ug/g	7.8	0.018	0.0050	6603994
Dibenzo(a,h)anthracene	ug/g	0.1	<0.0050	0.0050	6603994
Fluoranthene	ug/g	0.69	0.061	0.0050	6603994
Fluorene	ug/g	69	0.0051	0.0050	6603994
Indeno(1,2,3-cd)pyrene	ug/g	0.48	0.014	0.0050	6603994
1-Methylnaphthalene	ug/g	3.4	<0.0050	0.0050	6603994
2-Methylnaphthalene	ug/g	3.4	<0.0050	0.0050	6603994
Naphthalene	ug/g	0.75	<0.0050	0.0050	6603994
Phenanthrene	ug/g	7.8	0.043	0.0050	6603994
Pyrene	ug/g	78	0.044	0.0050	6603994
Surrogate Recovery (%)					
D10-Anthracene	%	-	98		6603994
D14-Terphenyl (FS)	%	-	106		6603994
D8-Acenaphthylene	%	-	90		6603994

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL659	MBL660	MBL662	MBL663	MBL665		
Sampling Date			2020/02/19 15:00	2020/02/19 15:05	2020/02/19 13:00	2020/02/19 13:05	2020/02/19 13:00		
COC Number			n/a	n/a	n/a	n/a	n/a		
	UNITS	**Criteria**	**BH301S 1-2**	**BH301S 9-10**	**BH302S 1-2**	**BH302S 9-10**	**BH1302S 1-2**	**RDL**	**QC Batch**
Inorganics									
Moisture	%	-	10	14	12	13	12	1.0	6601490
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/g	0.081	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6600304
Volatile Organics									
Acetone (2-Propanone)	ug/g	28	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	6602773
Benzene	ug/g	0.17	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6602773
Bromodichloromethane	ug/g	1.9	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Bromoform	ug/g	0.26	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Bromomethane	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Carbon Tetrachloride	ug/g	0.12	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Chlorobenzene	ug/g	2.7	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Chloroform	ug/g	0.17	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Dibromochloromethane	ug/g	2.9	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,2-Dichlorobenzene	ug/g	1.7	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,3-Dichlorobenzene	ug/g	6	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,4-Dichlorobenzene	ug/g	0.097	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Dichlorodifluoromethane (FREON 12)	ug/g	25	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,1-Dichloroethane	ug/g	0.6	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,2-Dichloroethane	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,1-Dichloroethylene	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
cis-1,2-Dichloroethylene	ug/g	2.5	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
trans-1,2-Dichloroethylene	ug/g	0.75	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,2-Dichloropropane	ug/g	0.085	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
cis-1,3-Dichloropropene	ug/g	0.081	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	6602773
trans-1,3-Dichloropropene	ug/g	0.081	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	6602773
Ethylbenzene	ug/g	1.6	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6602773
Ethylene Dibromide	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL659	MBL660	MBL662	MBL663	MBL665		
Sampling Date			2020/02/19 15:00	2020/02/19 15:05	2020/02/19 13:00	2020/02/19 13:05	2020/02/19 13:00		
COC Number			n/a	n/a	n/a	n/a	n/a		
	UNITS	**Criteria**	**BH301S 1-2**	**BH301S 9-10**	**BH302S 1-2**	**BH302S 9-10**	**BH1302S 1-2**	**RDL**	**QC Batch**
Hexane	ug/g	34	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Methylene Chloride(Dichloromethane)	ug/g	0.96	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Methyl Ethyl Ketone (2-Butanone)	ug/g	44	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	6602773
Methyl Isobutyl Ketone	ug/g	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	6602773
Methyl t-butyl ether (MTBE)	ug/g	1.4	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Styrene	ug/g	2.2	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,1,1,2-Tetrachloroethane	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Tetrachloroethylene	ug/g	2.3	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Toluene	ug/g	6	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6602773
1,1,1-Trichloroethane	ug/g	3.4	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,1,2-Trichloroethane	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Trichloroethylene	ug/g	0.52	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Trichlorofluoromethane (FREON 11)	ug/g	5.8	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Vinyl Chloride	ug/g	0.022	<0.020	<0.020	<0.020	**0.023**	<0.020	0.020	6602773
p+m-Xylene	ug/g	-	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6602773
o-Xylene	ug/g	-	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6602773
Total Xylenes	ug/g	25	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6602773
F1 (C6-C10)	ug/g	65	<10	<10	<10	<10	<10	10	6602773
F1 (C6-C10) - BTEX	ug/g	65	<10	<10	<10	<10	<10	10	6602773
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	150	<10	<10	<10	<10	<10	10	6602563
F3 (C16-C34 Hydrocarbons)	ug/g	1300	<50	<50	<50	<50	<50	50	6602563
F4 (C34-C50 Hydrocarbons)	ug/g	5600	<50	<50	<50	<50	<50	50	6602563
Reached Baseline at C50	ug/g	-	Yes	Yes	Yes	Yes	Yes		6602563
Surrogate Recovery (%)									
o-Terphenyl	%	-	95	98	96	102	95		6602563
4-Bromofluorobenzene	%	-	97	97	96	97	98		6602773

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

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QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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BV Labs Job #: C047486
Report Date: 2020/03/06

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL659	MBL660	MBL662	MBL663	MBL665		
Sampling Date			2020/02/19 15:00	2020/02/19 15:05	2020/02/19 13:00	2020/02/19 13:05	2020/02/19 13:00		
COC Number			n/a	n/a	n/a	n/a	n/a		
	UNITS	**Criteria**	**BH301S 1-2**	**BH301S 9-10**	**BH302S 1-2**	**BH302S 9-10**	**BH1302S 1-2**	**RDL**	**QC Batch**
D10-o-Xylene	%	-	110	114	123	113	108		6602773
D4-1,2-Dichloroethane	%	-	102	103	104	102	105		6602773
D8-Toluene	%	-	104	104	105	104	102		6602773

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL666	MBL667	MBL669	MBL672	MBL675		
Sampling Date			2020/02/20 10:10	2020/02/20 10:13	2020/02/20 10:55	2020/02/19 15:55	2020/02/19 15:35		
COC Number			n/a	n/a	n/a	n/a	n/a		
	UNITS	**Criteria**	**BH303S 1-2**	**BH303S 9-10**	**BH304S 1-2**	**BH305S 9-10**	**BH306S 9-10**	**RDL**	**QC Batch**
Inorganics									
Moisture	%	-	12	6.9	13	14	11	1.0	6601490
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/g	0.081	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6600304
Volatile Organics									
Acetone (2-Propanone)	ug/g	28	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	6602773
Benzene	ug/g	0.17	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6602773
Bromodichloromethane	ug/g	1.9	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Bromoform	ug/g	0.26	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Bromomethane	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Carbon Tetrachloride	ug/g	0.12	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Chlorobenzene	ug/g	2.7	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Chloroform	ug/g	0.17	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Dibromochloromethane	ug/g	2.9	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,2-Dichlorobenzene	ug/g	1.7	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,3-Dichlorobenzene	ug/g	6	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,4-Dichlorobenzene	ug/g	0.097	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Dichlorodifluoromethane (FREON 12)	ug/g	25	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,1-Dichloroethane	ug/g	0.6	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,2-Dichloroethane	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,1-Dichloroethylene	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
cis-1,2-Dichloroethylene	ug/g	2.5	<0.050	0.30	<0.050	0.99	<0.050	0.050	6602773
trans-1,2-Dichloroethylene	ug/g	0.75	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,2-Dichloropropane	ug/g	0.085	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
cis-1,3-Dichloropropene	ug/g	0.081	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	6602773
trans-1,3-Dichloropropene	ug/g	0.081	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	6602773
Ethylbenzene	ug/g	1.6	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6602773
Ethylene Dibromide	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL666	MBL667	MBL669	MBL672	MBL675		
Sampling Date			2020/02/20 10:10	2020/02/20 10:13	2020/02/20 10:55	2020/02/19 15:55	2020/02/19 15:35		
COC Number			n/a	n/a	n/a	n/a	n/a		
	UNITS	**Criteria**	**BH303S 1-2**	**BH303S 9-10**	**BH304S 1-2**	**BH305S 9-10**	**BH306S 9-10**	**RDL**	**QC Batch**
Hexane	ug/g	34	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Methylene Chloride(Dichloromethane)	ug/g	0.96	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Methyl Ethyl Ketone (2-Butanone)	ug/g	44	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	6602773
Methyl Isobutyl Ketone	ug/g	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	6602773
Methyl t-butyl ether (MTBE)	ug/g	1.4	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Styrene	ug/g	2.2	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,1,1,2-Tetrachloroethane	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Tetrachloroethylene	ug/g	2.3	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Toluene	ug/g	6	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6602773
1,1,1-Trichloroethane	ug/g	3.4	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
1,1,2-Trichloroethane	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Trichloroethylene	ug/g	0.52	0.057	**18**	<0.050	**7.3**	<0.050	0.050	6602773
Trichlorofluoromethane (FREON 11)	ug/g	5.8	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6602773
Vinyl Chloride	ug/g	0.022	<0.020	<0.020	<0.020	**0.048**	0.020	0.020	6602773
p+m-Xylene	ug/g	-	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6602773
o-Xylene	ug/g	-	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6602773
Total Xylenes	ug/g	25	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6602773
F1 (C6-C10)	ug/g	65	<10	<10	<10	<10	<10	10	6602773
F1 (C6-C10) - BTEX	ug/g	65	<10	<10	<10	<10	<10	10	6602773
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	150	<10	<10	<10	<10	<10	10	6602563
F3 (C16-C34 Hydrocarbons)	ug/g	1300	<50	<50	480	<50	<50	50	6602563
F4 (C34-C50 Hydrocarbons)	ug/g	5600	<50	<50	69	<50	<50	50	6602563
Reached Baseline at C50	ug/g	-	Yes	Yes	Yes	Yes	Yes		6602563
Surrogate Recovery (%)									
o-Terphenyl	%	-	85	92	90	95	96		6602563
4-Bromofluorobenzene	%	-	97	98	97	97	97		6602773

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: C047486
Report Date: 2020/03/06

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL666	MBL667	MBL669	MBL672	MBL675		
Sampling Date			2020/02/20 10:10	2020/02/20 10:13	2020/02/20 10:55	2020/02/19 15:55	2020/02/19 15:35		
COC Number			n/a	n/a	n/a	n/a	n/a		
	UNITS	**Criteria**	**BH303S 1-2**	**BH303S 9-10**	**BH304S 1-2**	**BH305S 9-10**	**BH306S 9-10**	**RDL**	**QC Batch**
D10-o-Xylene	%	-	117	113	114	118	114		6602773
D4-1,2-Dichloroethane	%	-	103	103	104	102	103		6602773
D8-Toluene	%	-	104	103	103	104	103		6602773

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

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QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL675			MBL677			MBL677		
Sampling Date			2020/02/19 15:35			2020/02/20 12:30			2020/02/20 12:30		
COC Number			n/a			n/a			n/a		
	UNITS	**Criteria**	**BH306S 9-10 Lab-Dup**	**RDL**	**QC Batch**	**BH307S 1-2**	**RDL**	**QC Batch**	**BH307S 1-2 Lab-Dup**	**RDL**	**QC Batch**
Inorganics											
Moisture	%	-				9.8	1.0	6601490	9.9	1.0	6601490
Calculated Parameters											
1,3-Dichloropropene (cis+trans)	ug/g	0.081				<0.050	0.050	6600304			
Volatile Organics											
Acetone (2-Propanone)	ug/g	28	<0.50	0.50	6602773	<0.50	0.50	6602773			
Benzene	ug/g	0.17	<0.020	0.020	6602773	<0.020	0.020	6602773			
Bromodichloromethane	ug/g	1.9	<0.050	0.050	6602773	<0.050	0.050	6602773			
Bromoform	ug/g	0.26	<0.050	0.050	6602773	<0.050	0.050	6602773			
Bromomethane	ug/g	0.05	<0.050	0.050	6602773	<0.050	0.050	6602773			
Carbon Tetrachloride	ug/g	0.12	<0.050	0.050	6602773	<0.050	0.050	6602773			
Chlorobenzene	ug/g	2.7	<0.050	0.050	6602773	<0.050	0.050	6602773			
Chloroform	ug/g	0.17	<0.050	0.050	6602773	<0.050	0.050	6602773			
Dibromochloromethane	ug/g	2.9	<0.050	0.050	6602773	<0.050	0.050	6602773			
1,2-Dichlorobenzene	ug/g	1.7	<0.050	0.050	6602773	<0.050	0.050	6602773			
1,3-Dichlorobenzene	ug/g	6	<0.050	0.050	6602773	<0.050	0.050	6602773			
1,4-Dichlorobenzene	ug/g	0.097	<0.050	0.050	6602773	<0.050	0.050	6602773			
Dichlorodifluoromethane (FREON 12)	ug/g	25	<0.050	0.050	6602773	<0.050	0.050	6602773			
1,1-Dichloroethane	ug/g	0.6	<0.050	0.050	6602773	<0.050	0.050	6602773			
1,2-Dichloroethane	ug/g	0.05	<0.050	0.050	6602773	<0.050	0.050	6602773			
1,1-Dichloroethylene	ug/g	0.05	<0.050	0.050	6602773	<0.050	0.050	6602773			
cis-1,2-Dichloroethylene	ug/g	2.5	<0.050	0.050	6602773	0.14	0.050	6602773			
trans-1,2-Dichloroethylene	ug/g	0.75	<0.050	0.050	6602773	<0.050	0.050	6602773			
1,2-Dichloropropane	ug/g	0.085	<0.050	0.050	6602773	<0.050	0.050	6602773			
cis-1,3-Dichloropropene	ug/g	0.081	<0.030	0.030	6602773	<0.030	0.030	6602773			
trans-1,3-Dichloropropene	ug/g	0.081	<0.040	0.040	6602773	<0.040	0.040	6602773			
Ethylbenzene	ug/g	1.6	<0.020	0.020	6602773	<0.020	0.020	6602773			

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL675			MBL677			MBL677		
Sampling Date			2020/02/19 15:35			2020/02/20 12:30			2020/02/20 12:30		
COC Number			n/a			n/a			n/a		
	UNITS	**Criteria**	**BH306S 9-10 Lab-Dup**	**RDL**	**QC Batch**	**BH307S 1-2**	**RDL**	**QC Batch**	**BH307S 1-2 Lab-Dup**	**RDL**	**QC Batch**
Ethylene Dibromide	ug/g	0.05	<0.050	0.050	6602773	<0.050	0.050	6602773			
Hexane	ug/g	34	<0.050	0.050	6602773	<0.050	0.050	6602773			
Methylene Chloride(Dichloromethane)	ug/g	0.96	<0.050	0.050	6602773	<0.050	0.050	6602773			
Methyl Ethyl Ketone (2-Butanone)	ug/g	44	<0.50	0.50	6602773	<0.50	0.50	6602773			
Methyl Isobutyl Ketone	ug/g	4.3	<0.50	0.50	6602773	<0.50	0.50	6602773			
Methyl t-butyl ether (MTBE)	ug/g	1.4	<0.050	0.050	6602773	<0.050	0.050	6602773			
Styrene	ug/g	2.2	<0.050	0.050	6602773	<0.050	0.050	6602773			
1,1,1,2-Tetrachloroethane	ug/g	0.05	<0.050	0.050	6602773	<0.050	0.050	6602773			
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.050	0.050	6602773	<0.050	0.050	6602773			
Tetrachloroethylene	ug/g	2.3	<0.050	0.050	6602773	<0.050	0.050	6602773			
Toluene	ug/g	6	<0.020	0.020	6602773	<0.020	0.020	6602773			
1,1,1-Trichloroethane	ug/g	3.4	<0.050	0.050	6602773	<0.050	0.050	6602773			
1,1,2-Trichloroethane	ug/g	0.05	<0.050	0.050	6602773	<0.050	0.050	6602773			
Trichloroethylene	ug/g	0.52	<0.050	0.050	6602773	**1.8**	0.050	6602773			
Trichlorofluoromethane (FREON 11)	ug/g	5.8	<0.050	0.050	6602773	<0.050	0.050	6602773			
Vinyl Chloride	ug/g	0.022	0.021	0.020	6602773	<0.020	0.020	6602773			
p+m-Xylene	ug/g	-	<0.020	0.020	6602773	<0.020	0.020	6602773			
o-Xylene	ug/g	-	<0.020	0.020	6602773	<0.020	0.020	6602773			
Total Xylenes	ug/g	25	<0.020	0.020	6602773	<0.020	0.020	6602773			
F1 (C6-C10)	ug/g	65	<10	10	6602773	<10	10	6602773			
F1 (C6-C10) - BTEX	ug/g	65	<10	10	6602773	<10	10	6602773			
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	150				<10	10	6602563			
F3 (C16-C34 Hydrocarbons)	ug/g	1300				<50	50	6602563			
F4 (C34-C50 Hydrocarbons)	ug/g	5600				<50	50	6602563			
Reached Baseline at C50	ug/g	-				Yes		6602563			

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

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Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL675			MBL677			MBL677		
Sampling Date			2020/02/19 15:35			2020/02/20 12:30			2020/02/20 12:30		
COC Number			n/a			n/a			n/a		
	UNITS	**Criteria**	**BH306S 9-10 Lab-Dup**	**RDL**	**QC Batch**	**BH307S 1-2**	**RDL**	**QC Batch**	**BH307S 1-2 Lab-Dup**	**RDL**	**QC Batch**
Surrogate Recovery (%)											
o-Terphenyl	%	-				91		6602563			
4-Bromofluorobenzene	%	-	96		6602773	97		6602773			
D10-o-Xylene	%	-	118		6602773	123		6602773			
D4-1,2-Dichloroethane	%	-	104		6602773	105		6602773			
D8-Toluene	%	-	104		6602773	104		6602773			

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL679	MBL680		MBL681		MBL683		
Sampling Date			2020/02/20 12:30	2020/02/20 11:50		2020/02/20 11:55		2020/02/19 14:25		
COC Number			n/a	n/a		n/a		n/a		
	UNITS	**Criteria**	**BH1307S 1-2**	**BH308S 1-2**	**QC Batch**	**BH308S 9-10**	**QC Batch**	**BH309S 1-2**	**RDL**	**QC Batch**
Inorganics										
Moisture	%	-	10	17	6601490	13	6601490	10	1.0	6601490
Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/g	0.081	<0.050	<0.050	6600304	<0.050	6600304	<0.050	0.050	6600304
Volatile Organics										
Acetone (2-Propanone)	ug/g	28	<0.50	<0.50	6602773	<0.50	6602773	<0.50	0.50	6602773
Benzene	ug/g	0.17	<0.020	<0.020	6602773	<0.020	6602773	<0.020	0.020	6602773
Bromodichloromethane	ug/g	1.9	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
Bromoform	ug/g	0.26	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
Bromomethane	ug/g	0.05	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
Carbon Tetrachloride	ug/g	0.12	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
Chlorobenzene	ug/g	2.7	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
Chloroform	ug/g	0.17	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
Dibromochloromethane	ug/g	2.9	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
1,2-Dichlorobenzene	ug/g	1.7	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
1,3-Dichlorobenzene	ug/g	6	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
1,4-Dichlorobenzene	ug/g	0.097	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
Dichlorodifluoromethane (FREON 12)	ug/g	25	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
1,1-Dichloroethane	ug/g	0.6	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
1,2-Dichloroethane	ug/g	0.05	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
1,1-Dichloroethylene	ug/g	0.05	<0.050	<0.050	6602773	**0.099**	6602773	<0.050	0.050	6602773
cis-1,2-Dichloroethylene	ug/g	2.5	0.41	<0.050	6602773	**32**	6602773	<0.050	0.050	6602773
trans-1,2-Dichloroethylene	ug/g	0.75	<0.050	<0.050	6602773	0.50	6602773	<0.050	0.050	6602773
1,2-Dichloropropane	ug/g	0.085	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
cis-1,3-Dichloropropene	ug/g	0.081	<0.030	<0.030	6602773	<0.030	6602773	<0.030	0.030	6602773
trans-1,3-Dichloropropene	ug/g	0.081	<0.040	<0.040	6602773	<0.040	6602773	<0.040	0.040	6602773
Ethylbenzene	ug/g	1.6	<0.020	<0.020	6602773	<0.020	6602773	<0.020	0.020	6602773
Ethylene Dibromide	ug/g	0.05	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

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Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL679	MBL680		MBL681		MBL683		
Sampling Date			2020/02/20 12:30	2020/02/20 11:50		2020/02/20 11:55		2020/02/19 14:25		
COC Number			n/a	n/a		n/a		n/a		
	UNITS	**Criteria**	**BH1307S 1-2**	**BH308S 1-2**	**QC Batch**	**BH308S 9-10**	**QC Batch**	**BH309S 1-2**	**RDL**	**QC Batch**
Hexane	ug/g	34	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
Methylene Chloride(Dichloromethane)	ug/g	0.96	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
Methyl Ethyl Ketone (2-Butanone)	ug/g	44	<0.50	<0.50	6602773	<0.50	6602773	<0.50	0.50	6602773
Methyl Isobutyl Ketone	ug/g	4.3	<0.50	<0.50	6602773	<0.50	6602773	<0.50	0.50	6602773
Methyl t-butyl ether (MTBE)	ug/g	1.4	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
Styrene	ug/g	2.2	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
1,1,1,2-Tetrachloroethane	ug/g	0.05	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
Tetrachloroethylene	ug/g	2.3	<0.050	<0.050	6602773	0.051	6602773	<0.050	0.050	6602773
Toluene	ug/g	6	<0.020	<0.020	6602773	0.032	6602773	<0.020	0.020	6602773
1,1,1-Trichloroethane	ug/g	3.4	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
1,1,2-Trichloroethane	ug/g	0.05	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
Trichloroethylene	ug/g	0.52	**3.6**	<0.050	6602773	**29**	6602773	<0.050	0.050	6602773
Trichlorofluoromethane (FREON 11)	ug/g	5.8	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602773
Vinyl Chloride	ug/g	0.022	<0.020	**0.063**	6602773	**1.8**	6602773	<0.020	0.020	6602773
p+m-Xylene	ug/g	-	<0.020	<0.020	6602773	<0.020	6602773	<0.020	0.020	6602773
o-Xylene	ug/g	-	<0.020	<0.020	6602773	<0.020	6602773	<0.020	0.020	6602773
Total Xylenes	ug/g	25	<0.020	<0.020	6602773	<0.020	6602773	<0.020	0.020	6602773
F1 (C6-C10)	ug/g	65	<10	<10	6602773	<10	6602773	<10	10	6602773
F1 (C6-C10) - BTEX	ug/g	65	<10	<10	6602773	<10	6602773	<10	10	6602773
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	150	<10	<10	6602563	<10	6602549	<10	10	6602563
F3 (C16-C34 Hydrocarbons)	ug/g	1300	<50	370	6602563	<50	6602549	<50	50	6602563
F4 (C34-C50 Hydrocarbons)	ug/g	5600	<50	<50	6602563	<50	6602549	<50	50	6602563
Reached Baseline at C50	ug/g	-	Yes	Yes	6602563	Yes	6602549	Yes		6602563
Surrogate Recovery (%)										
o-Terphenyl	%	-	95	96	6602563	105	6602549	92		6602563
4-Bromofluorobenzene	%	-	97	90	6602773	91	6602773	96		6602773

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL679	MBL680		MBL681		MBL683		
Sampling Date			2020/02/20 12:30	2020/02/20 11:50		2020/02/20 11:55		2020/02/19 14:25		
COC Number			n/a	n/a		n/a		n/a		
	UNITS	**Criteria**	**BH1307S 1-2**	**BH308S 1-2**	**QC Batch**	**BH308S 9-10**	**QC Batch**	**BH309S 1-2**	**RDL**	**QC Batch**
D10-o-Xylene	%	-	122	107	6602773	106	6602773	117		6602773
D4-1,2-Dichloroethane	%	-	103	101	6602773	100	6602773	106		6602773
D8-Toluene	%	-	105	96	6602773	96	6602773	104		6602773

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL685			MBL685			MBL687		
Sampling Date			2020/02/20 11:05			2020/02/20 11:05			2020/02/19 14:40		
COC Number			n/a			n/a			n/a		
	UNITS	**Criteria**	**BH310S 1-2**	**RDL**	**QC Batch**	**BH310S 1-2 Lab-Dup**	**RDL**	**QC Batch**	**BH311S 1-2**	**RDL**	**QC Batch**
Inorganics											
Moisture	%	-	12	1.0	6601490				12	1.0	6601490
Calculated Parameters											
1,3-Dichloropropene (cis+trans)	ug/g	0.081	<0.050	0.050	6600304				<0.050	0.050	6600304
Volatile Organics											
Acetone (2-Propanone)	ug/g	28	<0.50	0.50	6602773				<0.50	0.50	6602773
Benzene	ug/g	0.17	<0.020	0.020	6602773				<0.020	0.020	6602773
Bromodichloromethane	ug/g	1.9	<0.050	0.050	6602773				<0.050	0.050	6602773
Bromoform	ug/g	0.26	<0.050	0.050	6602773				<0.050	0.050	6602773
Bromomethane	ug/g	0.05	<0.050	0.050	6602773				<0.050	0.050	6602773
Carbon Tetrachloride	ug/g	0.12	<0.050	0.050	6602773				<0.050	0.050	6602773
Chlorobenzene	ug/g	2.7	<0.050	0.050	6602773				<0.050	0.050	6602773
Chloroform	ug/g	0.17	<0.050	0.050	6602773				<0.050	0.050	6602773
Dibromochloromethane	ug/g	2.9	<0.050	0.050	6602773				<0.050	0.050	6602773
1,2-Dichlorobenzene	ug/g	1.7	<0.050	0.050	6602773				<0.050	0.050	6602773
1,3-Dichlorobenzene	ug/g	6	<0.050	0.050	6602773				<0.050	0.050	6602773
1,4-Dichlorobenzene	ug/g	0.097	<0.050	0.050	6602773				<0.050	0.050	6602773
Dichlorodifluoromethane (FREON 12)	ug/g	25	<0.050	0.050	6602773				<0.050	0.050	6602773
1,1-Dichloroethane	ug/g	0.6	<0.050	0.050	6602773				<0.050	0.050	6602773
1,2-Dichloroethane	ug/g	0.05	<0.050	0.050	6602773				<0.050	0.050	6602773
1,1-Dichloroethylene	ug/g	0.05	<0.050	0.050	6602773				<0.050	0.050	6602773
cis-1,2-Dichloroethylene	ug/g	2.5	<0.050	0.050	6602773				<0.050	0.050	6602773
trans-1,2-Dichloroethylene	ug/g	0.75	<0.050	0.050	6602773				<0.050	0.050	6602773
1,2-Dichloropropane	ug/g	0.085	<0.050	0.050	6602773				<0.050	0.050	6602773
cis-1,3-Dichloropropene	ug/g	0.081	<0.030	0.030	6602773				<0.030	0.030	6602773
trans-1,3-Dichloropropene	ug/g	0.081	<0.040	0.040	6602773				<0.040	0.040	6602773
Ethylbenzene	ug/g	1.6	<0.020	0.020	6602773				<0.020	0.020	6602773

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

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QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL685			MBL685			MBL687		
Sampling Date			2020/02/20 11:05			2020/02/20 11:05			2020/02/19 14:40		
COC Number			n/a			n/a			n/a		
	UNITS	**Criteria**	**BH310S 1-2**	**RDL**	**QC Batch**	**BH310S 1-2 Lab-Dup**	**RDL**	**QC Batch**	**BH311S 1-2**	**RDL**	**QC Batch**
Ethylene Dibromide	ug/g	0.05	<0.050	0.050	6602773				<0.050	0.050	6602773
Hexane	ug/g	34	<0.050	0.050	6602773				<0.050	0.050	6602773
Methylene Chloride(Dichloromethane)	ug/g	0.96	<0.050	0.050	6602773				<0.050	0.050	6602773
Methyl Ethyl Ketone (2-Butanone)	ug/g	44	<0.50	0.50	6602773				<0.50	0.50	6602773
Methyl Isobutyl Ketone	ug/g	4.3	<0.50	0.50	6602773				<0.50	0.50	6602773
Methyl t-butyl ether (MTBE)	ug/g	1.4	<0.050	0.050	6602773				<0.050	0.050	6602773
Styrene	ug/g	2.2	<0.050	0.050	6602773				<0.050	0.050	6602773
1,1,1,2-Tetrachloroethane	ug/g	0.05	<0.050	0.050	6602773				<0.050	0.050	6602773
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.050	0.050	6602773				<0.050	0.050	6602773
Tetrachloroethylene	ug/g	2.3	<0.050	0.050	6602773				<0.050	0.050	6602773
Toluene	ug/g	6	<0.020	0.020	6602773				<0.020	0.020	6602773
1,1,1-Trichloroethane	ug/g	3.4	<0.050	0.050	6602773				<0.050	0.050	6602773
1,1,2-Trichloroethane	ug/g	0.05	<0.050	0.050	6602773				<0.050	0.050	6602773
Trichloroethylene	ug/g	0.52	<0.050	0.050	6602773				<0.050	0.050	6602773
Trichlorofluoromethane (FREON 11)	ug/g	5.8	<0.050	0.050	6602773				<0.050	0.050	6602773
Vinyl Chloride	ug/g	0.022	<0.020	0.020	6602773				<0.020	0.020	6602773
p+m-Xylene	ug/g	-	<0.020	0.020	6602773				<0.020	0.020	6602773
o-Xylene	ug/g	-	<0.020	0.020	6602773				<0.020	0.020	6602773
Total Xylenes	ug/g	25	<0.020	0.020	6602773				<0.020	0.020	6602773
F1 (C6-C10)	ug/g	65	<10	10	6602773				<10	10	6602773
F1 (C6-C10) - BTEX	ug/g	65	<10	10	6602773				<10	10	6602773
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	150	<10	10	6602563	<10	10	6602563	<10	10	6602549
F3 (C16-C34 Hydrocarbons)	ug/g	1300	<50	50	6602563	<50	50	6602563	<50	50	6602549
F4 (C34-C50 Hydrocarbons)	ug/g	5600	<50	50	6602563	<50	50	6602563	<50	50	6602549
Reached Baseline at C50	ug/g	-	Yes		6602563	Yes		6602563	Yes		6602549

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

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Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
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Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL685			MBL685			MBL687		
Sampling Date			2020/02/20 11:05			2020/02/20 11:05			2020/02/19 14:40		
COC Number			n/a			n/a			n/a		
	UNITS	**Criteria**	**BH310S 1-2**	**RDL**	**QC Batch**	**BH310S 1-2 Lab-Dup**	**RDL**	**QC Batch**	**BH311S 1-2**	**RDL**	**QC Batch**
Surrogate Recovery (%)											
o-Terphenyl	%	-	92		6602563	88		6602563	104		6602549
4-Bromofluorobenzene	%	-	97		6602773				96		6602773
D10-o-Xylene	%	-	118		6602773				116		6602773
D4-1,2-Dichloroethane	%	-	104		6602773				106		6602773
D8-Toluene	%	-	104		6602773				104		6602773

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: C047486
Report Date: 2020/03/06

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL690	MBL692		MBL695		MBL698		
Sampling Date			2020/02/20 11:15	2020/02/20 11:35		2020/02/20 09:35		2020/02/20 09:57		
COC Number			n/a	n/a		n/a		n/a		
	UNITS	**Criteria**	**BH312S 1-2**	**BH313S 1-2**	**QC Batch**	**BH314S 9-10**	**QC Batch**	**BH315S 9-10**	**RDL**	**QC Batch**
Inorganics										
Moisture	%	-	12	13	6601490	12	6601490	9.6	1.0	6601569
Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/g	0.081	<0.050	<0.050	6600304	<0.050	6600547	<0.050	0.050	6600547
Volatile Organics										
Acetone (2-Propanone)	ug/g	28	<0.50	<0.50	6602773	<0.50	6602773	<0.50	0.50	6602706
Benzene	ug/g	0.17	<0.020	<0.020	6602773	<0.020	6602773	<0.020	0.020	6602706
Bromodichloromethane	ug/g	1.9	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
Bromoform	ug/g	0.26	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
Bromomethane	ug/g	0.05	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
Carbon Tetrachloride	ug/g	0.12	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
Chlorobenzene	ug/g	2.7	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
Chloroform	ug/g	0.17	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
Dibromochloromethane	ug/g	2.9	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
1,2-Dichlorobenzene	ug/g	1.7	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
1,3-Dichlorobenzene	ug/g	6	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
1,4-Dichlorobenzene	ug/g	0.097	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
Dichlorodifluoromethane (FREON 12)	ug/g	25	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
1,1-Dichloroethane	ug/g	0.6	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
1,2-Dichloroethane	ug/g	0.05	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
1,1-Dichloroethylene	ug/g	0.05	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
cis-1,2-Dichloroethylene	ug/g	2.5	<0.050	<0.050	6602773	1.2	6602773	0.090	0.050	6602706
trans-1,2-Dichloroethylene	ug/g	0.75	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
1,2-Dichloropropane	ug/g	0.085	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
cis-1,3-Dichloropropene	ug/g	0.081	<0.030	<0.030	6602773	<0.030	6602773	<0.030	0.030	6602706
trans-1,3-Dichloropropene	ug/g	0.081	<0.040	<0.040	6602773	<0.040	6602773	<0.040	0.040	6602706
Ethylbenzene	ug/g	1.6	<0.020	<0.020	6602773	<0.020	6602773	<0.020	0.020	6602706
Ethylene Dibromide	ug/g	0.05	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
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BV Labs Job #: C047486
Report Date: 2020/03/06

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL690	MBL692		MBL695		MBL698		
Sampling Date			2020/02/20 11:15	2020/02/20 11:35		2020/02/20 09:35		2020/02/20 09:57		
COC Number			n/a	n/a		n/a		n/a		
	UNITS	**Criteria**	**BH312S 1-2**	**BH313S 1-2**	**QC Batch**	**BH314S 9-10**	**QC Batch**	**BH315S 9-10**	**RDL**	**QC Batch**
Hexane	ug/g	34	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
Methylene Chloride(Dichloromethane)	ug/g	0.96	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
Methyl Ethyl Ketone (2-Butanone)	ug/g	44	<0.50	<0.50	6602773	<0.50	6602773	<0.50	0.50	6602706
Methyl Isobutyl Ketone	ug/g	4.3	<0.50	<0.50	6602773	<0.50	6602773	<0.50	0.50	6602706
Methyl t-butyl ether (MTBE)	ug/g	1.4	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
Styrene	ug/g	2.2	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
1,1,1,2-Tetrachloroethane	ug/g	0.05	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
Tetrachloroethylene	ug/g	2.3	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
Toluene	ug/g	6	<0.020	<0.020	6602773	<0.020	6602773	<0.020	0.020	6602706
1,1,1-Trichloroethane	ug/g	3.4	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
1,1,2-Trichloroethane	ug/g	0.05	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
Trichloroethylene	ug/g	0.52	<0.050	<0.050	6602773	**6.6**	6602773	<0.050	0.050	6602706
Trichlorofluoromethane (FREON 11)	ug/g	5.8	<0.050	<0.050	6602773	<0.050	6602773	<0.050	0.050	6602706
Vinyl Chloride	ug/g	0.022	<0.020	<0.020	6602773	**0.092**	6602773	**0.080**	0.020	6602706
p+m-Xylene	ug/g	-	<0.020	<0.020	6602773	<0.020	6602773	<0.020	0.020	6602706
o-Xylene	ug/g	-	<0.020	<0.020	6602773	<0.020	6602773	<0.020	0.020	6602706
Total Xylenes	ug/g	25	<0.020	<0.020	6602773	<0.020	6602773	<0.020	0.020	6602706
F1 (C6-C10)	ug/g	65	<10	<10	6602773	<10	6602773	<10	10	6602706
F1 (C6-C10) - BTEX	ug/g	65	<10	<10	6602773	<10	6602773	<10	10	6602706
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	150	<10	<10	6602563	<10	6602563	<10	10	6602563
F3 (C16-C34 Hydrocarbons)	ug/g	1300	<50	<50	6602563	<50	6602563	<50	50	6602563
F4 (C34-C50 Hydrocarbons)	ug/g	5600	<50	<50	6602563	<50	6602563	<50	50	6602563
Reached Baseline at C50	ug/g	-	Yes	Yes	6602563	Yes	6602563	Yes		6602563
Surrogate Recovery (%)										
o-Terphenyl	%	-	91	93	6602563	93	6602563	89		6602563
4-Bromofluorobenzene	%	-	99	97	6602773	96	6602773	93		6602706

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL690	MBL692		MBL695		MBL698		
Sampling Date			2020/02/20 11:15	2020/02/20 11:35		2020/02/20 09:35		2020/02/20 09:57		
COC Number			n/a	n/a		n/a		n/a		
	UNITS	**Criteria**	**BH312S 1-2**	**BH313S 1-2**	**QC Batch**	**BH314S 9-10**	**QC Batch**	**BH315S 9-10**	**RDL**	**QC Batch**
D10-o-Xylene	%	-	112	111	6602773	116	6602773	97		6602706
D4-1,2-Dichloroethane	%	-	105	106	6602773	105	6602773	97		6602706
D8-Toluene	%	-	103	104	6602773	104	6602773	98		6602706

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL701		
Sampling Date			2020/02/20 12:17		
COC Number			n/a		
	UNITS	**Criteria**	**BH316S 9-10**	**RDL**	**QC Batch**
Inorganics					
Moisture	%	-	14	1.0	6601569
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/g	0.081	<0.050	0.050	6600547
Volatile Organics					
Acetone (2-Propanone)	ug/g	28	<0.50	0.50	6602706
Benzene	ug/g	0.17	<0.020	0.020	6602706
Bromodichloromethane	ug/g	1.9	<0.050	0.050	6602706
Bromoform	ug/g	0.26	<0.050	0.050	6602706
Bromomethane	ug/g	0.05	<0.050	0.050	6602706
Carbon Tetrachloride	ug/g	0.12	<0.050	0.050	6602706
Chlorobenzene	ug/g	2.7	<0.050	0.050	6602706
Chloroform	ug/g	0.17	<0.050	0.050	6602706
Dibromochloromethane	ug/g	2.9	<0.050	0.050	6602706
1,2-Dichlorobenzene	ug/g	1.7	<0.050	0.050	6602706
1,3-Dichlorobenzene	ug/g	6	<0.050	0.050	6602706
1,4-Dichlorobenzene	ug/g	0.097	<0.050	0.050	6602706
Dichlorodifluoromethane (FREON 12)	ug/g	25	<0.050	0.050	6602706
1,1-Dichloroethane	ug/g	0.6	<0.050	0.050	6602706
1,2-Dichloroethane	ug/g	0.05	<0.050	0.050	6602706
1,1-Dichloroethylene	ug/g	0.05	**0.098**	0.050	6602706
cis-1,2-Dichloroethylene	ug/g	2.5	**3.9**	0.050	6602706
trans-1,2-Dichloroethylene	ug/g	0.75	0.12	0.050	6602706
1,2-Dichloropropane	ug/g	0.085	<0.050	0.050	6602706
cis-1,3-Dichloropropene	ug/g	0.081	<0.030	0.030	6602706
trans-1,3-Dichloropropene	ug/g	0.081	<0.040	0.040	6602706

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL701		
Sampling Date			2020/02/20 12:17		
COC Number			n/a		
	UNITS	**Criteria**	**BH316S 9-10**	**RDL**	**QC Batch**
Ethylbenzene	ug/g	1.6	<0.020	0.020	6602706
Ethylene Dibromide	ug/g	0.05	<0.050	0.050	6602706
Hexane	ug/g	34	<0.050	0.050	6602706
Methylene Chloride(Dichloromethane)	ug/g	0.96	<0.050	0.050	6602706
Methyl Ethyl Ketone (2-Butanone)	ug/g	44	<0.50	0.50	6602706
Methyl Isobutyl Ketone	ug/g	4.3	<0.50	0.50	6602706
Methyl t-butyl ether (MTBE)	ug/g	1.4	<0.050	0.050	6602706
Styrene	ug/g	2.2	<0.050	0.050	6602706
1,1,1,2-Tetrachloroethane	ug/g	0.05	<0.050	0.050	6602706
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.050	0.050	6602706
Tetrachloroethylene	ug/g	2.3	<0.050	0.050	6602706
Toluene	ug/g	6	<0.020	0.020	6602706
1,1,1-Trichloroethane	ug/g	3.4	<0.050	0.050	6602706
1,1,2-Trichloroethane	ug/g	0.05	<0.050	0.050	6602706
Trichloroethylene	ug/g	0.52	**1.9**	0.050	6602706
Trichlorofluoromethane (FREON 11)	ug/g	5.8	<0.050	0.050	6602706
Vinyl Chloride	ug/g	0.022	**0.21**	0.020	6602706
p+m-Xylene	ug/g	-	<0.020	0.020	6602706
o-Xylene	ug/g	-	<0.020	0.020	6602706
Total Xylenes	ug/g	25	<0.020	0.020	6602706
F1 (C6-C10)	ug/g	65	<10	10	6602706
F1 (C6-C10) - BTEX	ug/g	65	<10	10	6602706
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	150	<10	10	6602563
F3 (C16-C34 Hydrocarbons)	ug/g	1300	<50	50	6602563
F4 (C34-C50 Hydrocarbons)	ug/g	5600	<50	50	6602563

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			MBL701		
Sampling Date			2020/02/20 12:17		
COC Number			n/a		
	UNITS	**Criteria**	**BH316S 9-10**	**RDL**	**QC Batch**
Reached Baseline at C50	ug/g	-	Yes		6602563
Surrogate Recovery (%)					
o-Terphenyl	%	-	89		6602563
4-Bromofluorobenzene	%	-	92		6602706
D10-o-Xylene	%	-	106		6602706
D4-1,2-Dichloroethane	%	-	100		6602706
D8-Toluene	%	-	98		6602706

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS (SOIL)

BV Labs ID			MBL682			MBL682		
Sampling Date			2020/02/20 12:00			2020/02/20 12:00		
COC Number			n/a			n/a		
	UNITS	**Criteria**	**BH308S 13-15**	**RDL**	**QC Batch**	**BH308S 13-15 Lab-Dup**	**RDL**	**QC Batch**
Inorganics								
Moisture	%	-	16	1.0	6620712	15	1.0	6620712
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	0.081	<0.050	0.050	6620388			
Volatile Organics								
Acetone (2-Propanone)	ug/g	28	<0.50	0.50	6620686			
Benzene	ug/g	0.17	<0.020	0.020	6620686			
Bromodichloromethane	ug/g	1.9	<0.050	0.050	6620686			
Bromoform	ug/g	0.26	<0.050	0.050	6620686			
Bromomethane	ug/g	0.05	<0.050	0.050	6620686			
Carbon Tetrachloride	ug/g	0.12	<0.050	0.050	6620686			
Chlorobenzene	ug/g	2.7	<0.050	0.050	6620686			
Chloroform	ug/g	0.17	<0.050	0.050	6620686			
Dibromochloromethane	ug/g	2.9	<0.050	0.050	6620686			
1,2-Dichlorobenzene	ug/g	1.7	<0.050	0.050	6620686			
1,3-Dichlorobenzene	ug/g	6	<0.050	0.050	6620686			
1,4-Dichlorobenzene	ug/g	0.097	<0.050	0.050	6620686			
Dichlorodifluoromethane (FREON 12)	ug/g	25	<0.050	0.050	6620686			
1,1-Dichloroethane	ug/g	0.6	<0.050	0.050	6620686			
1,2-Dichloroethane	ug/g	0.05	<0.050	0.050	6620686			
1,1-Dichloroethylene	ug/g	0.05	<0.050	0.050	6620686			
cis-1,2-Dichloroethylene	ug/g	2.5	**7.1**	0.050	6620686			
trans-1,2-Dichloroethylene	ug/g	0.75	0.060	0.050	6620686			
1,2-Dichloropropane	ug/g	0.085	<0.050	0.050	6620686			
cis-1,3-Dichloropropene	ug/g	0.081	<0.030	0.030	6620686			
trans-1,3-Dichloropropene	ug/g	0.081	<0.040	0.040	6620686			
Ethylbenzene	ug/g	1.6	<0.020	0.020	6620686			

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS (SOIL)

BV Labs ID			MBL682			MBL682		
Sampling Date			2020/02/20 12:00			2020/02/20 12:00		
COC Number			n/a			n/a		
	UNITS	**Criteria**	**BH308S 13-15**	**RDL**	**QC Batch**	**BH308S 13-15 Lab-Dup**	**RDL**	**QC Batch**
Ethylene Dibromide	ug/g	0.05	<0.050	0.050	6620686			
Hexane	ug/g	34	<0.050	0.050	6620686			
Methylene Chloride(Dichloromethane)	ug/g	0.96	<0.050	0.050	6620686			
Methyl Ethyl Ketone (2-Butanone)	ug/g	44	<0.50	0.50	6620686			
Methyl Isobutyl Ketone	ug/g	4.3	<0.50	0.50	6620686			
Methyl t-butyl ether (MTBE)	ug/g	1.4	<0.050	0.050	6620686			
Styrene	ug/g	2.2	<0.050	0.050	6620686			
1,1,1,2-Tetrachloroethane	ug/g	0.05	<0.050	0.050	6620686			
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.050	0.050	6620686			
Tetrachloroethylene	ug/g	2.3	<0.050	0.050	6620686			
Toluene	ug/g	6	<0.020	0.020	6620686			
1,1,1-Trichloroethane	ug/g	3.4	<0.050	0.050	6620686			
1,1,2-Trichloroethane	ug/g	0.05	<0.050	0.050	6620686			
Trichloroethylene	ug/g	0.52	**4.5**	0.050	6620686			
Trichlorofluoromethane (FREON 11)	ug/g	5.8	<0.050	0.050	6620686			
Vinyl Chloride	ug/g	0.022	**0.084**	0.020	6620686			
p+m-Xylene	ug/g	-	<0.020	0.020	6620686			
o-Xylene	ug/g	-	<0.020	0.020	6620686			
Total Xylenes	ug/g	25	<0.020	0.020	6620686			
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	-	96		6620686			
D10-o-Xylene	%	-	122		6620686			
D4-1,2-Dichloroethane	%	-	93		6620686			
D8-Toluene	%	-	100		6620686			

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

BV Labs ID: MBL659
Sample ID: BH301S 1-2
Matrix: Soil

Collected: 2020/02/19
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/25	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/24	Anna Gabrielyan

BV Labs ID: MBL660
Sample ID: BH301S 9-10
Matrix: Soil

Collected: 2020/02/19
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/25	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/24	Anna Gabrielyan

BV Labs ID: MBL662
Sample ID: BH302S 1-2
Matrix: Soil

Collected: 2020/02/19
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/26	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/25	Anna Gabrielyan

BV Labs ID: MBL663
Sample ID: BH302S 9-10
Matrix: Soil

Collected: 2020/02/19
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/25	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/24	Anna Gabrielyan

BV Labs ID: MBL665
Sample ID: BH1302S 1-2
Matrix: Soil

Collected: 2020/02/19
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/25	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/24	Anna Gabrielyan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

BV Labs ID: MBL666
Sample ID: BH303S 1-2
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/25	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/24	Anna Gabrielyan

BV Labs ID: MBL667
Sample ID: BH303S 9-10
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/25	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/25	Anna Gabrielyan

BV Labs ID: MBL669
Sample ID: BH304S 1-2
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/25	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/25	Anna Gabrielyan

BV Labs ID: MBL672
Sample ID: BH305S 9-10
Matrix: Soil

Collected: 2020/02/19
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/25	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Strong Acid Leachable Metals by ICPMS	ICP/MS	6602742	2020/02/24	2020/02/26	Daniel Teclu
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/25	Anna Gabrielyan

BV Labs ID: MBL675
Sample ID: BH306S 9-10
Matrix: Soil

Collected: 2020/02/19
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/25	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Strong Acid Leachable Metals by ICPMS	ICP/MS	6602742	2020/02/24	2020/02/26	Daniel Teclu
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/24	Anna Gabrielyan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

BV Labs ID: MBL675 Dup
Sample ID: BH306S 9-10
Matrix: Soil

Collected: 2020/02/19
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/24	Anna Gabrielyan

BV Labs ID: MBL677
Sample ID: BH307S 1-2
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/26	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/25	Anna Gabrielyan

BV Labs ID: MBL677 Dup
Sample ID: BH307S 1-2
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal

BV Labs ID: MBL679
Sample ID: BH1307S 1-2
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/26	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/25	Anna Gabrielyan

BV Labs ID: MBL680
Sample ID: BH308S 1-2
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	6600108	N/A	2020/02/25	Automated Statchk
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/26	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	6603994	2020/02/24	2020/02/25	Jiaxuan (Simon) Xi
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/26	Anna Gabrielyan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

BV Labs ID: MBL681 **Collected:** 2020/02/20
Sample ID: BH308S 9-10 **Shipped:**
Matrix: Soil **Received:** 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/26	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602549	2020/02/24	2020/02/25	Prabhjot Gulati
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/26	Anna Gabrielyan

BV Labs ID: MBL682 **Collected:** 2020/02/20
Sample ID: BH308S 13-15 **Shipped:**
Matrix: Soil **Received:** 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6620388	N/A	2020/03/06	Automated Statchk
Moisture	BAL	6620712	N/A	2020/03/05	Mithunaa Sasitheepan
Volatile Organic Compounds in Soil	GC/MS	6620686	N/A	2020/03/05	Chandni Khawas

BV Labs ID: MBL682 Dup **Collected:** 2020/02/20
Sample ID: BH308S 13-15 **Shipped:**
Matrix: Soil **Received:** 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6620712	N/A	2020/03/05	Mithunaa Sasitheepan

BV Labs ID: MBL683 **Collected:** 2020/02/19
Sample ID: BH309S 1-2 **Shipped:**
Matrix: Soil **Received:** 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/26	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/25	Anna Gabrielyan

BV Labs ID: MBL685 **Collected:** 2020/02/20
Sample ID: BH310S 1-2 **Shipped:**
Matrix: Soil **Received:** 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/26	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/25	Anna Gabrielyan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

BV Labs ID: MBL685 Dup
Sample ID: BH310S 1-2
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li

BV Labs ID: MBL687
Sample ID: BH311S 1-2
Matrix: Soil

Collected: 2020/02/19
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/26	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602549	2020/02/24	2020/02/25	Prabhjot Gulati
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/25	Anna Gabrielyan

BV Labs ID: MBL690
Sample ID: BH312S 1-2
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/26	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/25	Anna Gabrielyan

BV Labs ID: MBL692
Sample ID: BH313S 1-2
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600304	N/A	2020/02/26	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/25	Anna Gabrielyan

BV Labs ID: MBL694
Sample ID: BH314S 2-4
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Strong Acid Leachable Metals by ICPMS	ICP/MS	6602742	2020/02/24	2020/02/26	Daniel Teclu

BV Labs ID: MBL694 Dup
Sample ID: BH314S 2-4
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Strong Acid Leachable Metals by ICPMS	ICP/MS	6602742	2020/02/24	2020/02/26	Daniel Teclu

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

BV Labs ID: MBL695
Sample ID: BH314S 9-10
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600547	N/A	2020/02/26	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601490	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602773	N/A	2020/02/25	Anna Gabrielyan

BV Labs ID: MBL698
Sample ID: BH315S 9-10
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600547	N/A	2020/02/25	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601569	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602706	N/A	2020/02/25	John Wu

BV Labs ID: MBL701
Sample ID: BH316S 9-10
Matrix: Soil

Collected: 2020/02/20
Shipped:
Received: 2020/02/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6600547	N/A	2020/02/25	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6602563	2020/02/24	2020/02/25	(Kent) Maolin Li
Moisture	BAL	6601569	N/A	2020/02/22	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6602706	N/A	2020/02/25	John Wu

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	0.7°C
Package 2	0.3°C

Revised Report [2020/03/06]: Requested additional analysis added as per AARF.

Results relate only to the items tested.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: C047486
Report Date: 2020/03/06

QUALITY ASSURANCE REPORT

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: ADP

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
6602549	o-Terphenyl	2020/02/25	105	60 - 130	101	60 - 130	102	%		
6602563	o-Terphenyl	2020/02/25	94	60 - 130	91	60 - 130	95	%		
6602706	4-Bromofluorobenzene	2020/02/24	98	60 - 140	99	60 - 140	91	%		
6602706	D10-o-Xylene	2020/02/24	100	60 - 130	93	60 - 130	91	%		
6602706	D4-1,2-Dichloroethane	2020/02/24	100	60 - 140	100	60 - 140	102	%		
6602706	D8-Toluene	2020/02/24	102	60 - 140	102	60 - 140	98	%		
6602773	4-Bromofluorobenzene	2020/02/24	100	60 - 140	100	60 - 140	98	%		
6602773	D10-o-Xylene	2020/02/24	109	60 - 130	105	60 - 130	109	%		
6602773	D4-1,2-Dichloroethane	2020/02/24	102	60 - 140	104	60 - 140	104	%		
6602773	D8-Toluene	2020/02/24	104	60 - 140	104	60 - 140	103	%		
6603994	D10-Anthracene	2020/02/25	96	50 - 130	102	50 - 130	102	%		
6603994	D14-Terphenyl (FS)	2020/02/25	105	50 - 130	107	50 - 130	107	%		
6603994	D8-Acenaphthylene	2020/02/25	92	50 - 130	95	50 - 130	94	%		
6620686	4-Bromofluorobenzene	2020/03/05	100	60 - 140	101	60 - 140	98	%		
6620686	D10-o-Xylene	2020/03/05	104	60 - 130	111	60 - 130	107	%		
6620686	D4-1,2-Dichloroethane	2020/03/05	91	60 - 140	97	60 - 140	98	%		
6620686	D8-Toluene	2020/03/05	103	60 - 140	102	60 - 140	96	%		
6601490	Moisture	2020/02/22							1.0	20
6601569	Moisture	2020/02/22							0	20
6602549	F2 (C10-C16 Hydrocarbons)	2020/02/25	96	50 - 130	93	80 - 120	<10	ug/g	NC	30
6602549	F3 (C16-C34 Hydrocarbons)	2020/02/25	102	50 - 130	98	80 - 120	<50	ug/g	NC	30
6602549	F4 (C34-C50 Hydrocarbons)	2020/02/25	99	50 - 130	96	80 - 120	<50	ug/g	NC	30
6602563	F2 (C10-C16 Hydrocarbons)	2020/02/25	89	50 - 130	85	80 - 120	<10	ug/g	NC	30
6602563	F3 (C16-C34 Hydrocarbons)	2020/02/25	88	50 - 130	83	80 - 120	<50	ug/g	NC	30
6602563	F4 (C34-C50 Hydrocarbons)	2020/02/25	90	50 - 130	85	80 - 120	<50	ug/g	NC	30
6602706	1,1,1,2-Tetrachloroethane	2020/02/25	99	60 - 140	102	60 - 130	<0.050	ug/g	NC	50
6602706	1,1,1-Trichloroethane	2020/02/25	93	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
6602706	1,1,2,2-Tetrachloroethane	2020/02/25	98	60 - 140	103	60 - 130	<0.050	ug/g	NC	50
6602706	1,1,2-Trichloroethane	2020/02/25	99	60 - 140	104	60 - 130	<0.050	ug/g	NC	50
6602706	1,1-Dichloroethane	2020/02/25	98	60 - 140	102	60 - 130	<0.050	ug/g	NC	50
6602706	1,1-Dichloroethylene	2020/02/25	104	60 - 140	109	60 - 130	<0.050	ug/g	NC	50

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
6602706	1,2-Dichlorobenzene	2020/02/25	93	60 - 140	97	60 - 130	<0.050	ug/g	NC	50
6602706	1,2-Dichloroethane	2020/02/25	95	60 - 140	100	60 - 130	<0.050	ug/g	NC	50
6602706	1,2-Dichloropropane	2020/02/25	90	60 - 140	94	60 - 130	<0.050	ug/g	NC	50
6602706	1,3-Dichlorobenzene	2020/02/25	93	60 - 140	98	60 - 130	<0.050	ug/g	NC	50
6602706	1,4-Dichlorobenzene	2020/02/25	101	60 - 140	108	60 - 130	<0.050	ug/g	NC	50
6602706	Acetone (2-Propanone)	2020/02/25	100	60 - 140	106	60 - 140	<0.50	ug/g	NC	50
6602706	Benzene	2020/02/25	97	60 - 140	101	60 - 130	<0.020	ug/g	NC	50
6602706	Bromodichloromethane	2020/02/25	91	60 - 140	95	60 - 130	<0.050	ug/g	NC	50
6602706	Bromoform	2020/02/25	91	60 - 140	95	60 - 130	<0.050	ug/g	NC	50
6602706	Bromomethane	2020/02/25	94	60 - 140	93	60 - 140	<0.050	ug/g	NC	50
6602706	Carbon Tetrachloride	2020/02/25	92	60 - 140	95	60 - 130	<0.050	ug/g	NC	50
6602706	Chlorobenzene	2020/02/25	90	60 - 140	94	60 - 130	<0.050	ug/g	NC	50
6602706	Chloroform	2020/02/25	91	60 - 140	95	60 - 130	<0.050	ug/g	NC	50
6602706	cis-1,2-Dichloroethylene	2020/02/25	92	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
6602706	cis-1,3-Dichloropropene	2020/02/25	78	60 - 140	72	60 - 130	<0.030	ug/g	NC	50
6602706	Dibromochloromethane	2020/02/25	96	60 - 140	100	60 - 130	<0.050	ug/g	NC	50
6602706	Dichlorodifluoromethane (FREON 12)	2020/02/25	98	60 - 140	104	60 - 140	<0.050	ug/g	NC	50
6602706	Ethylbenzene	2020/02/25	87	60 - 140	91	60 - 130	<0.020	ug/g	NC	50
6602706	Ethylene Dibromide	2020/02/25	95	60 - 140	100	60 - 130	<0.050	ug/g	NC	50
6602706	F1 (C6-C10) - BTEX	2020/02/25					<10	ug/g	NC	30
6602706	F1 (C6-C10)	2020/02/25	104	60 - 140	99	80 - 120	<10	ug/g	NC	30
6602706	Hexane	2020/02/25	106	60 - 140	110	60 - 130	<0.050	ug/g	NC	50
6602706	Methyl Ethyl Ketone (2-Butanone)	2020/02/25	96	60 - 140	102	60 - 140	<0.50	ug/g	NC	50
6602706	Methyl Isobutyl Ketone	2020/02/25	88	60 - 140	93	60 - 130	<0.50	ug/g	NC	50
6602706	Methyl t-butyl ether (MTBE)	2020/02/25	81	60 - 140	84	60 - 130	<0.050	ug/g	NC	50
6602706	Methylene Chloride(Dichloromethane)	2020/02/25	97	60 - 140	103	60 - 130	<0.050	ug/g	NC	50
6602706	o-Xylene	2020/02/25	89	60 - 140	93	60 - 130	<0.020	ug/g	NC	50
6602706	p+m-Xylene	2020/02/25	88	60 - 140	93	60 - 130	<0.020	ug/g	NC	50
6602706	Styrene	2020/02/25	88	60 - 140	92	60 - 130	<0.050	ug/g	NC	50
6602706	Tetrachloroethylene	2020/02/25	91	60 - 140	97	60 - 130	<0.050	ug/g	NC	50
6602706	Toluene	2020/02/25	95	60 - 140	99	60 - 130	<0.020	ug/g	NC	50

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
6602706	Total Xylenes	2020/02/25					<0.020	ug/g	NC	50
6602706	trans-1,2-Dichloroethylene	2020/02/25	98	60 - 140	104	60 - 130	<0.050	ug/g	NC	50
6602706	trans-1,3-Dichloropropene	2020/02/25	80	60 - 140	71	60 - 130	<0.040	ug/g	NC	50
6602706	Trichloroethylene	2020/02/25	97	60 - 140	102	60 - 130	<0.050	ug/g	NC	50
6602706	Trichlorofluoromethane (FREON 11)	2020/02/25	104	60 - 140	108	60 - 130	<0.050	ug/g	NC	50
6602706	Vinyl Chloride	2020/02/25	103	60 - 140	109	60 - 130	<0.020	ug/g	NC	50
6602742	Acid Extractable Antimony (Sb)	2020/02/26	95	75 - 125	101	80 - 120	<0.20	ug/g	2.4	30
6602742	Acid Extractable Arsenic (As)	2020/02/26	97	75 - 125	101	80 - 120	<1.0	ug/g	2.1	30
6602742	Acid Extractable Barium (Ba)	2020/02/26	NC	75 - 125	98	80 - 120	<0.50	ug/g	7.8	30
6602742	Acid Extractable Beryllium (Be)	2020/02/26	101	75 - 125	97	80 - 120	<0.20	ug/g	2.3	30
6602742	Acid Extractable Boron (B)	2020/02/26	99	75 - 125	94	80 - 120	<5.0	ug/g	4.8	30
6602742	Acid Extractable Cadmium (Cd)	2020/02/26	102	75 - 125	98	80 - 120	<0.10	ug/g	NC	30
6602742	Acid Extractable Chromium (Cr)	2020/02/26	102	75 - 125	98	80 - 120	<1.0	ug/g	2.4	30
6602742	Acid Extractable Cobalt (Co)	2020/02/26	98	75 - 125	98	80 - 120	<0.10	ug/g	4.3	30
6602742	Acid Extractable Copper (Cu)	2020/02/26	NC	75 - 125	102	80 - 120	<0.50	ug/g	2.1	30
6602742	Acid Extractable Lead (Pb)	2020/02/26	100	75 - 125	98	80 - 120	<1.0	ug/g	2.2	30
6602742	Acid Extractable Molybdenum (Mo)	2020/02/26	102	75 - 125	98	80 - 120	<0.50	ug/g	12	30
6602742	Acid Extractable Nickel (Ni)	2020/02/26	NC	75 - 125	96	80 - 120	<0.50	ug/g	4.4	30
6602742	Acid Extractable Selenium (Se)	2020/02/26	103	75 - 125	101	80 - 120	<0.50	ug/g	NC	30
6602742	Acid Extractable Silver (Ag)	2020/02/26	103	75 - 125	99	80 - 120	<0.20	ug/g	NC	30
6602742	Acid Extractable Thallium (Tl)	2020/02/26	100	75 - 125	97	80 - 120	<0.050	ug/g	12	30
6602742	Acid Extractable Uranium (U)	2020/02/26	101	75 - 125	97	80 - 120	<0.050	ug/g	2.9	30
6602742	Acid Extractable Vanadium (V)	2020/02/26	NC	75 - 125	97	80 - 120	<5.0	ug/g	0.55	30
6602742	Acid Extractable Zinc (Zn)	2020/02/26	NC	75 - 125	97	80 - 120	<5.0	ug/g	0.29	30
6602773	1,1,1,2-Tetrachloroethane	2020/02/24	101	60 - 140	101	60 - 130	<0.050	ug/g	NC	50
6602773	1,1,1-Trichloroethane	2020/02/24	96	60 - 140	95	60 - 130	<0.050	ug/g	NC	50
6602773	1,1,2,2-Tetrachloroethane	2020/02/24	97	60 - 140	99	60 - 130	<0.050	ug/g	NC	50
6602773	1,1,2-Trichloroethane	2020/02/24	103	60 - 140	104	60 - 130	<0.050	ug/g	NC	50
6602773	1,1-Dichloroethane	2020/02/24	96	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
6602773	1,1-Dichloroethylene	2020/02/24	105	60 - 140	103	60 - 130	<0.050	ug/g	NC	50
6602773	1,2-Dichlorobenzene	2020/02/24	91	60 - 140	92	60 - 130	<0.050	ug/g	NC	50

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
6602773	1,2-Dichloroethane	2020/02/24	102	60 - 140	103	60 - 130	<0.050	ug/g	NC	50
6602773	1,2-Dichloropropane	2020/02/24	93	60 - 140	93	60 - 130	<0.050	ug/g	NC	50
6602773	1,3-Dichlorobenzene	2020/02/24	96	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
6602773	1,4-Dichlorobenzene	2020/02/24	99	60 - 140	100	60 - 130	<0.050	ug/g	NC	50
6602773	Acetone (2-Propanone)	2020/02/24	105	60 - 140	107	60 - 140	<0.50	ug/g	NC	50
6602773	Benzene	2020/02/24	97	60 - 140	96	60 - 130	<0.020	ug/g	NC	50
6602773	Bromodichloromethane	2020/02/24	90	60 - 140	90	60 - 130	<0.050	ug/g	NC	50
6602773	Bromoform	2020/02/24	94	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
6602773	Bromomethane	2020/02/24	88	60 - 140	86	60 - 140	<0.050	ug/g	NC	50
6602773	Carbon Tetrachloride	2020/02/24	94	60 - 140	93	60 - 130	<0.050	ug/g	NC	50
6602773	Chlorobenzene	2020/02/24	94	60 - 140	94	60 - 130	<0.050	ug/g	NC	50
6602773	Chloroform	2020/02/24	89	60 - 140	89	60 - 130	<0.050	ug/g	NC	50
6602773	cis-1,2-Dichloroethylene	2020/02/24	92	60 - 140	91	60 - 130	<0.050	ug/g	NC	50
6602773	cis-1,3-Dichloropropene	2020/02/24	87	60 - 140	86	60 - 130	<0.030	ug/g	NC	50
6602773	Dibromochloromethane	2020/02/24	97	60 - 140	98	60 - 130	<0.050	ug/g	NC	50
6602773	Dichlorodifluoromethane (FREON 12)	2020/02/24	93	60 - 140	93	60 - 140	<0.050	ug/g	NC	50
6602773	Ethylbenzene	2020/02/24	94	60 - 140	94	60 - 130	<0.020	ug/g	NC	50
6602773	Ethylene Dibromide	2020/02/24	98	60 - 140	99	60 - 130	<0.050	ug/g	NC	50
6602773	F1 (C6-C10) - BTEX	2020/02/24					<10	ug/g	NC	30
6602773	F1 (C6-C10)	2020/02/24	85	60 - 140	95	80 - 120	<10	ug/g	NC	30
6602773	Hexane	2020/02/24	101	60 - 140	99	60 - 130	<0.050	ug/g	NC	50
6602773	Methyl Ethyl Ketone (2-Butanone)	2020/02/24	117	60 - 140	120	60 - 140	<0.50	ug/g	NC	50
6602773	Methyl Isobutyl Ketone	2020/02/24	107	60 - 140	110	60 - 130	<0.50	ug/g	NC	50
6602773	Methyl t-butyl ether (MTBE)	2020/02/24	89	60 - 140	90	60 - 130	<0.050	ug/g	NC	50
6602773	Methylene Chloride(Dichloromethane)	2020/02/24	96	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
6602773	o-Xylene	2020/02/24	96	60 - 140	95	60 - 130	<0.020	ug/g	NC	50
6602773	p+m-Xylene	2020/02/24	99	60 - 140	99	60 - 130	<0.020	ug/g	NC	50
6602773	Styrene	2020/02/24	95	60 - 140	95	60 - 130	<0.050	ug/g	NC	50
6602773	Tetrachloroethylene	2020/02/24	92	60 - 140	91	60 - 130	<0.050	ug/g	NC	50
6602773	Toluene	2020/02/24	105	60 - 140	104	60 - 130	<0.020	ug/g	NC	50
6602773	Total Xylenes	2020/02/24					<0.020	ug/g	NC	50

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
6602773	trans-1,2-Dichloroethylene	2020/02/24	97	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
6602773	trans-1,3-Dichloropropene	2020/02/24	93	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
6602773	Trichloroethylene	2020/02/24	97	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
6602773	Trichlorofluoromethane (FREON 11)	2020/02/24	102	60 - 140	100	60 - 130	<0.050	ug/g	NC	50
6602773	Vinyl Chloride	2020/02/24	97	60 - 140	96	60 - 130	<0.020	ug/g	2.7	50
6603994	1-Methylnaphthalene	2020/02/25	90	50 - 130	95	50 - 130	<0.0050	ug/g	11	40
6603994	2-Methylnaphthalene	2020/02/25	85	50 - 130	89	50 - 130	<0.0050	ug/g	4.2	40
6603994	Acenaphthene	2020/02/25	89	50 - 130	93	50 - 130	<0.0050	ug/g	NC	40
6603994	Acenaphthylene	2020/02/25	85	50 - 130	89	50 - 130	<0.0050	ug/g	NC	40
6603994	Anthracene	2020/02/25	92	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
6603994	Benzo(a)anthracene	2020/02/25	96	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
6603994	Benzo(a)pyrene	2020/02/25	91	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
6603994	Benzo(b/j)fluoranthene	2020/02/25	86	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
6603994	Benzo(g,h,i)perylene	2020/02/25	88	50 - 130	97	50 - 130	<0.0050	ug/g	2.2	40
6603994	Benzo(k)fluoranthene	2020/02/25	82	50 - 130	88	50 - 130	<0.0050	ug/g	NC	40
6603994	Chrysene	2020/02/25	88	50 - 130	92	50 - 130	<0.0050	ug/g	NC	40
6603994	Dibenzo(a,h)anthracene	2020/02/25	92	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
6603994	Fluoranthene	2020/02/25	97	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
6603994	Fluorene	2020/02/25	86	50 - 130	88	50 - 130	<0.0050	ug/g	NC	40
6603994	Indeno(1,2,3-cd)pyrene	2020/02/25	92	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
6603994	Naphthalene	2020/02/25	79	50 - 130	82	50 - 130	<0.0050	ug/g	2.5	40
6603994	Phenanthrene	2020/02/25	88	50 - 130	94	50 - 130	<0.0050	ug/g	15	40
6603994	Pyrene	2020/02/25	94	50 - 130	99	50 - 130	<0.0050	ug/g	11	40
6620686	1,1,1,2-Tetrachloroethane	2020/03/05	90	60 - 140	95	60 - 130	<0.050	ug/g	NC	50
6620686	1,1,1-Trichloroethane	2020/03/05	90	60 - 140	90	60 - 130	<0.050	ug/g	NC	50
6620686	1,1,2,2-Tetrachloroethane	2020/03/05	84	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
6620686	1,1,2-Trichloroethane	2020/03/05	86	60 - 140	94	60 - 130	<0.050	ug/g	NC	50
6620686	1,1-Dichloroethane	2020/03/05	91	60 - 140	92	60 - 130	<0.050	ug/g	NC	50
6620686	1,1-Dichloroethylene	2020/03/05	98	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
6620686	1,2-Dichlorobenzene	2020/03/05	82	60 - 140	87	60 - 130	<0.050	ug/g	NC	50
6620686	1,2-Dichloroethane	2020/03/05	87	60 - 140	93	60 - 130	<0.050	ug/g	NC	50

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
6620686	1,2-Dichloropropane	2020/03/05	88	60 - 140	91	60 - 130	<0.050	ug/g	NC	50
6620686	1,3-Dichlorobenzene	2020/03/05	86	60 - 140	88	60 - 130	<0.050	ug/g	NC	50
6620686	1,4-Dichlorobenzene	2020/03/05	91	60 - 140	95	60 - 130	<0.050	ug/g	NC	50
6620686	Acetone (2-Propanone)	2020/03/05	84	60 - 140	101	60 - 140	<0.50	ug/g	NC	50
6620686	Benzene	2020/03/05	91	60 - 140	93	60 - 130	<0.020	ug/g	NC	50
6620686	Bromodichloromethane	2020/03/05	85	60 - 140	89	60 - 130	<0.050	ug/g	NC	50
6620686	Bromoform	2020/03/05	82	60 - 140	94	60 - 130	<0.050	ug/g	NC	50
6620686	Bromomethane	2020/03/05	85	60 - 140	88	60 - 140	<0.050	ug/g	NC	50
6620686	Carbon Tetrachloride	2020/03/05	88	60 - 140	87	60 - 130	<0.050	ug/g	NC	50
6620686	Chlorobenzene	2020/03/05	88	60 - 140	90	60 - 130	<0.050	ug/g	NC	50
6620686	Chloroform	2020/03/05	84	60 - 140	87	60 - 130	<0.050	ug/g	NC	50
6620686	cis-1,2-Dichloroethylene	2020/03/05	86	60 - 140	89	60 - 130	<0.050	ug/g	NC	50
6620686	cis-1,3-Dichloropropene	2020/03/05	88	60 - 140	94	60 - 130	<0.030	ug/g	NC	50
6620686	Dibromochloromethane	2020/03/05	87	60 - 140	95	60 - 130	<0.050	ug/g	NC	50
6620686	Dichlorodifluoromethane (FREON 12)	2020/03/05	92	60 - 140	90	60 - 140	<0.050	ug/g	NC	50
6620686	Ethylbenzene	2020/03/05	91	60 - 140	91	60 - 130	<0.020	ug/g	NC	50
6620686	Ethylene Dibromide	2020/03/05	87	60 - 140	97	60 - 130	<0.050	ug/g	NC	50
6620686	Hexane	2020/03/05	103	60 - 140	100	60 - 130	<0.050	ug/g	NC	50
6620686	Methyl Ethyl Ketone (2-Butanone)	2020/03/05	87	60 - 140	106	60 - 140	<0.50	ug/g	NC	50
6620686	Methyl Isobutyl Ketone	2020/03/05	87	60 - 140	103	60 - 130	<0.50	ug/g	NC	50
6620686	Methyl t-butyl ether (MTBE)	2020/03/05	83	60 - 140	86	60 - 130	<0.050	ug/g	NC	50
6620686	Methylene Chloride(Dichloromethane)	2020/03/05	85	60 - 140	88	60 - 130	<0.050	ug/g	NC	50
6620686	o-Xylene	2020/03/05	92	60 - 140	93	60 - 130	<0.020	ug/g	NC	50
6620686	p+m-Xylene	2020/03/05	99	60 - 140	99	60 - 130	<0.020	ug/g	NC	50
6620686	Styrene	2020/03/05	92	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
6620686	Tetrachloroethylene	2020/03/05	87	60 - 140	85	60 - 130	<0.050	ug/g	NC	50
6620686	Toluene	2020/03/05	92	60 - 140	92	60 - 130	<0.020	ug/g	NC	50
6620686	Total Xylenes	2020/03/05					<0.020	ug/g	NC	50
6620686	trans-1,2-Dichloroethylene	2020/03/05	94	60 - 140	94	60 - 130	<0.050	ug/g	NC	50
6620686	trans-1,3-Dichloropropene	2020/03/05	90	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
6620686	Trichloroethylene	2020/03/05	93	60 - 140	93	60 - 130	<0.050	ug/g	NC	50

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
6620686	Trichlorofluoromethane (FREON 11)	2020/03/05	93	60 - 140	91	60 - 130	<0.050	ug/g	NC	50
6620686	Vinyl Chloride	2020/03/05	95	60 - 140	95	60 - 130	<0.020	ug/g	NC	50
6620712	Moisture	2020/03/05							8.6	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

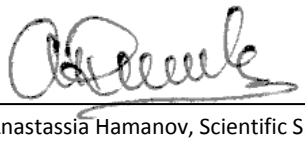
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Anastassia Hamanov, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BUREAU VERITAS

6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAM FCD-01191/5

CHAIN OF CUSTODY RECORD

Page 1 of 5

Invoice Information		Report Information (if differs from invoice)		Project Information (where applicable)		Turnaround Time (TAT) Required
Company Name:	MTE Consultants Inc	Company Name:		Quotation #:		[X] Regular TAT (5-7 days) Most analyses
Contact Name:	Accounts Payable	Contact Name:	Anthony Puntillo, Spencer Buck	P.O. #/ AFE#:		PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address:	520 Bingemans Centre Drive	Address:		Project #:	38934-100	Rush TAT (Surcharges will be applied)
	Kitchener, ON			Site Location:		[ ] 1 Day [ ] 2 Days [ ] 3-4 Days
Phone: 519 743 6500	Fax: 519 743 6513	Phone:	Fax:	Site #:		
Email:	accounting @mte85.com	Email:	apuntillo@mte85.com sbuck@mte85.com	Site Location Province:		Date Required:
				Sampled By:	ADP	Rush Confirmation #:

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS LABORATORIES' DRINKING WATER CHAIN OF CUSTODY

Regulation 153
- [ ] Table 1 [X] Res/Park [X] Med/ Fine
- [X] Table 2 [ ] Ind/Comm [ ] Coarse
- [ ] Table 3 [ ] Agri/ Other
- [ ] Table ____
- FOR RSC (PLEASE CIRCLE) (Y) / N

Other Regulations
- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] MISA [ ] Storm Sewer Bylaw
- [ ] PWQO Region
- [ ] Other (Specify)
- [ ] REG 558 (MIN. 3 DAY TAT REQUIRED)

Include Criteria on Certificate of Analysis: Y / N

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

LABORATORY USE ONLY

CUSTODY SEAL (Y) / N		COOLER TEMPERATURES
Present	Intact	
		1, 0, 1
		0, 0, 1

COOLING MEDIA PRESENT: (Y) / N

#	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	PHCs + VOCs	HOLD- DO NOT ANALYZE	COMMENTS
1	BH301S 1-2	2020/02/19	15:00	Soil	3		X		
2	↓ 9-10	↓	15:05	↓	↓		X		
3	↓ 13-15	↓	15:10	↓	↓			X	
4	MW302S 1-2	↓	13:00	↓	↓		X		
5	↓ 9-10	↓	13:05	↓	↓		X		
6	↓ 13-15	↓	13:10	↓	↓			X	
7	MW1302S 1-2	↓	13:00	↓	↓		X		
8	BH303S 1-2	2020/02/20	10:10	↓	↓		X		
9	↓ 9-10	↓	10:13	↓	↓		X		
10	↓ 13-15	↓	10:15	↓	↓			X	

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)
A Puntillo	2020/02/21	10:30	Bureau Veritas	2020/02/21	14:03

21-Feb-20 14:03
Ronklin Gracian
C047486
GID ENV-1179

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody do our terms available at http://www.bvlabs.com/terms-and-conditions

BUREAU VERITAS

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CHAIN OF CUSTODY RECORD

Page 2 of 5

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Company Name: MTE Consultants Inc	Company Name:	Quotation #:	[X] Regular TAT (5-7 days) Most analyses
Contact Name: Accounts Payable	Contact Name: Anthony Puntillo, Spencer Buck	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address: 520 Bingemans Centre Drive	Address:	Project #: 38934-100	Rush TAT (Surcharges will be applied)
Kitchener, ON		Site Location:	[ ] 1 Day [ ] 2 Days [ ] 3-4 Days
Phone: 519 743 6500 Fax: 519 743 6513	Phone: Fax:	Site #:	
Email: accounting @mte85.com	Email: apuntillo@mte85.com sbuck@mte85.com	Site Location Province:	Date Required:
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS LABORATORIES' DRINKING WATER CHAIN OF CUSTODY		Sampled By: ADP	Rush Confirmation #:

Regulation 153	Other Regulations
[ ] Table 1 [X] Res/Park [X] Med/ Fine	[ ] CCME [ ] Sanitary Sewer Bylaw
[X] Table 2 [ ] Ind/Comm [ ] Coarse	[ ] MISA [ ] Storm Sewer Bylaw
[ ] Table 3 [ ] Agri/ Other	[ ] PWQO Region
[ ] Table	[ ] Other (Specify)
FOR RSC (PLEASE CIRCLE) (Y) N	[ ] REG 558 (MIN. 3 DAY TAT REQUIRED)

Include Criteria on Certificate of Analysis: Y / N

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	PHCs + VOCs	Metals + Hydrides	HOLD- DO NOT ANALYZE
1	BH304S 1-2	2020/02/20	10 55	Soil	3		X		
2	4-5		10 57						X
3	BH305S 1-2	2020/02/20	15 50						X
4	9-10		15 55				X	X	
5	13-15		16 00						X
6	BH306S 1-2		15 30						X
7	9-10		15 35				X	X	
8	13-15		1540						X
9	BH307S 1-2	2020/02/20	12 30				X		
10	4-5		1235						X

LABORATORY USE ONLY

CUSTODY SEAL Y / N		COOLER TEMPERATURES
Present	Intact	

COOLING MEDIA PRESENT: Y / N

COMMENTS

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)
A Puntillo	2020/02/21	10 30	SGG page 1		

BV JOB #

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BUREAU VERITAS

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CAM FCD-01191/5

CHAIN OF CUSTODY RECORD

Page 3 of 5

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: MTE Consultants Inc	Company Name:	Quotation #:	[X] Regular TAT (5-7 days) Most analyses
Contact Name: Accounts Payable	Contact Name: Anthony Puntillo, Spencer Buck	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address: 520 Bingemans Centre Drive	Address:	Project #: 38934-100	Rush TAT (Surcharges will be applied)
Kitchener, ON		Site Location:	[ ] 1 Day [ ] 2 Days [ ] 3-4 Days
Phone: 519 743 6500 Fax: 519 743 6513	Phone: Fax:	Site #:	Date Required:
Email: accounting @mte85.com	Email: apuntillo@mte85.com sbuck@mte85.com	Site Location Province:	Rush Confirmation #:
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS LABORATORIES' DRINKING WATER CHAIN OF CUSTODY		Sampled By:	

Regulation 153	Other Regulations
[ ] Table 1 [X] Res/Park [X] Med/ Fine	[ ] CCME [ ] Sanitary Sewer Bylaw
[X] Table 2 [ ] Ind/Comm [ ] Coarse	[ ] MISA [ ] Storm Sewer Bylaw
[ ] Table 3 [ ] Agri/ Other	[ ] PWQO Region
[ ] Table ____	[ ] Other (Specify)
FOR RSC (PLEASE CIRCLE) (Y) / N	[ ] REG 558 (MIN. 3 DAY TAT REQUIRED)

Include Criteria on Certificate of Analysis: Y / N

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Analysis Requested

LABORATORY USE ONLY

CUSTODY SEAL Y / N (Present / Intact) | COOLER TEMPERATURES

COOLING MEDIA PRESENT: Y / N

	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	PHCs + VOCs	PAHs	HOLD- DO NOT ANALYZE	COMMENTS
1	BH1307S 1-2	2020/02/20	1230	soil	3		X			
2	BH308S 1-2	"	1150	"	"		X	X		
3	" 5-10	"	1155	"	"		X			
4	" 13-15	"	1200	"	"				X	
5	BH309S 1-2	2020/02/19	1425	"	"		X			
6	" 4-5	"	1427	"	"				X	
7	BH310S 1-2	2020/02/20	1105	"	"		X			
8	" 4-5	"	1108	"	"				X	
9	BH311S 1-2	2020/02/19	1440	"	"		X			
10	" 4-5	"	1443	"	"				X	

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	BV JOB #
	2020/02/21	1030	SGG page 1			

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CHAIN OF CUSTODY RECORD

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: MTE Consultants Inc	Company Name:	Quotation #:	[X] Regular TAT (5-7 days) Most analyses
Contact Name: Accounts Payable	Contact Name: Anthony Puntillo, Spencer Buck	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address: 520 Bingemans Centre Drive	Address:	Project #: 38934-100	Rush TAT (Surcharges will be applied)
Kitchener, ON		Site Location:	[ ] 1 Day [ ] 2 Days [ ] 3-4 Days
Phone: 519 743 6500 Fax: 519 743 6513	Phone: Fax:	Site #:	Date Required:
Email: accounting @mte85.com	Email: apuntillo@mte85.com sbuck@mte85.com	Site Location Province:	Rush Confirmation #:
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS LABORATORIES' DRINKING WATER CHAIN OF CUSTODY		Sampled By: ADP	

Regulation 153	Other Regulations
[ ] Table 1 [X] Res/Park [X] Med/ Fine	[ ] CCME [ ] Sanitary Sewer Bylaw
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[ ] Table ____	[ ] Other (Specify)
FOR RSC (PLEASE CIRCLE) Y / N	[ ] REG 558 (MIN. 3 DAY TAT REQUIRED)

Include Criteria on Certificate of Analysis: Y / N

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Analysis Requested

LABORATORY USE ONLY

CUSTODY SEAL Y / N (Present / Intact) | COOLER TEMPERATURES

COOLING MEDIA PRESENT: Y / N

	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	PHCs + VOCs	Metals + Hydrides	HOLD- DO NOT ANALYZE	COMMENTS
1	BH311S 9-10	2020/02/19	14 45	Soil	3				X	
2	BH312S 1-2	2020/02/20	11 15				X			
3	↓ 4-5	↓	11 18						X	
4	BH313S 1-2		11 35				X			
5	↓ 4-5		11 38						X	
6	BH314S 2-4		9 33					X		
7	↓ 9-10		9 35				X			
8	↓ 13-15		9 37						X	
9	BH315S 1-2		9 55						X	
10	↓ 9-10	↓	9 57	↓	↓		X			

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A Puntillo	2020/02/21	10 30	SGG Page 1			

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CHAIN OF CUSTODY RECORD

Page 5 of 5

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: MTE Consultants Inc	Company Name:	Quotation #:	[X] Regular TAT (5-7 days) Most analyses
Contact Name: Accounts Payable	Contact Name: Anthony Puntillo, Spencer Buck	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address: 520 Bingemans Centre Drive	Address:	Project #: 38934-100	Rush TAT (Surcharges will be applied)
Kitchener, ON		Site Location:	[ ] 1 Day [ ] 2 Days [ ] 3-4 Days
Phone: 519 743 6500 Fax: 519 743 6513	Phone: Fax:	Site #:	
Email: accounting @mte85.com	Email: apuntillo@mte85.com sbuck@mte85.com	Site Location Province:	Date Required:
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS LABORATORIES' DRINKING WATER CHAIN OF CUSTODY		Sampled By: ADP	Rush Confirmation #:

Regulation 153	Other Regulations
[ ] Table 1 [X] Res/Park [X] Med/ Fine	[ ] CCME [ ] Sanitary Sewer Bylaw
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[ ] Table _____	[ ] Other (Specify)
FOR RSC (PLEASE CIRCLE) (Y) / N	[ ] REG 558 (MIN. 3 DAY TAT REQUIRED)

Include Criteria on Certificate of Analysis: Y / N

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Analysis Requested

LABORATORY USE ONLY

CUSTODY SEAL Y / N (Present / Intact) | COOLER TEMPERATURES

COOLING MEDIA PRESENT: Y / N

	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	PHCs + VOCs	HOLD- DO NOT ANALYZE	COMMENTS
1	BH315S 13-15	2020/02/20	10:00	Soil	3			X	
2	BH316S 1-2		12:15					X	
3	" 9-10		12:17				X		
4	" 13-15		12:20					X	
5	TCLP		13:30		2			X	
6									
7									
8									
9									
10									

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	BV JOB #
A Puntillo	2020/02/21	10 30	See page 1			

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Exceedance Summary Table – Reg153/04 T2-Soil/Res-F/M

Result Exceedances

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	UNITS
BH302S 9-10	MBL663-02	Vinyl Chloride	0.022	0.023	0.020	ug/g
BH303S 9-10	MBL667-02	Trichloroethylene	0.52	18	0.050	ug/g
BH305S 9-10	MBL672-02	Trichloroethylene	0.52	7.3	0.050	ug/g
BH305S 9-10	MBL672-02	Vinyl Chloride	0.022	0.048	0.020	ug/g
BH307S 1-2	MBL677-02	Trichloroethylene	0.52	1.8	0.050	ug/g
BH1307S 1-2	MBL679-02	Trichloroethylene	0.52	3.6	0.050	ug/g
BH308S 1-2	MBL680-02	Vinyl Chloride	0.022	0.063	0.020	ug/g
BH308S 9-10	MBL681-02	1,1-Dichloroethylene	0.05	0.099	0.050	ug/g
BH308S 9-10	MBL681-02	cis-1,2-Dichloroethylene	2.5	32	0.050	ug/g
BH308S 9-10	MBL681-02	Trichloroethylene	0.52	29	0.050	ug/g
BH308S 9-10	MBL681-02	Vinyl Chloride	0.022	1.8	0.020	ug/g
BH308S 13-15	MBL682-02	cis-1,2-Dichloroethylene	2.5	7.1	0.050	ug/g
BH308S 13-15	MBL682-02	Trichloroethylene	0.52	4.5	0.050	ug/g
BH308S 13-15	MBL682-02	Vinyl Chloride	0.022	0.084	0.020	ug/g
BH314S 9-10	MBL695-02	Trichloroethylene	0.52	6.6	0.050	ug/g
BH314S 9-10	MBL695-02	Vinyl Chloride	0.022	0.092	0.020	ug/g
BH315S 9-10	MBL698-02	Vinyl Chloride	0.022	0.080	0.020	ug/g
BH316S 9-10	MBL701-02	1,1-Dichloroethylene	0.05	0.098	0.050	ug/g
BH316S 9-10	MBL701-02	cis-1,2-Dichloroethylene	2.5	3.9	0.050	ug/g
BH316S 9-10	MBL701-02	Trichloroethylene	0.52	1.9	0.050	ug/g
BH316S 9-10	MBL701-02	Vinyl Chloride	0.022	0.21	0.020	ug/g

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

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CHAIN OF CUSTODY RECORD

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Company Name: MTE Consultants	Company Name: MTE Consultants	Quotation #:	[x] Regular TAT (5-7 days) Most analyses
Contact Name: Accounts Payable	Contact Name: Spencer Buck	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address: 520 Bingemans Centre Drive	Address: 1016 Sutton Drive, Burlington, Ontario	Project #: 38934-100	Rush TAT (Surcharges will be applied)
Kitchener ON N2B 3X9		Site Location:	[ ] 1 Day [x] 2 Days [ ] 3-4 Days
Phone: (519) 743-6500 Fax: (519) 743-6513	Phone: 905-639-2552 Fax: 905-639-7727	Site #:	
Email: accounting@mte85.com	Email: sbuck@mte85.com	Site Location Province: Ontario	Date Required:
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS LABORATORIES' DRINKING WATER CHAIN OF CUSTODY		Sampled ADP	Rush Confirmation #:

Regulation 153	Other Regulations
[ ] Table 1 [x] Res/Park [x] Med/ Fine	[ ] CCME [ ] Sanitary Sewer Bylaw
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FOR RSC (PLEASE CIRCLE) Y / N	[ ] REG 558 (MIN. 3 DAY TAT REQUIRED)

Include Criteria on Certificate of Analysis: Y / N

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	VOCs														HOLD- DO NOT ANALYZE	COMMENTS
1	BH308S 13-15	2020/02/20	12:00	Soil			X															

LABORATORY USE ONLY

CUSTODY SEAL Y / N		COOLER TEMPERATURES
Present	Intact	

COOLING MEDIA PRESENT: Y / N

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	BV JOB #
Spencer Buck						

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MTE CONSULTANTS INC.
ATTN: Anthony Puntillo
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8

Date Received: 27-NOV-17
Report Date: 02-MAY-19 08:14 (MT)
Version: FINAL REV. 2

Client Phone: 905-639-2552

Certificate of Analysis

Lab Work Order #: L2027604

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 17-621036, 17-621038
Legal Site Desc:

Comments: ADDITIONAL 02-MAY-19 08:02

Mary-Lynn Pike
Client Services Supervisor

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Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2027604-1 BH101S						
Sampled By: CLIENT on 24-NOV-17 @ 13:00						
Matrix: WATER						
Volatile Organic Compounds						
Acetone	<30		30	ug/L	29-NOV-17	2700
Benzene	<0.50		0.50	ug/L	29-NOV-17	5
Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16
Bromoform	<5.0		5.0	ug/L	29-NOV-17	25
Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5
Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	30
Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25
Chloroform	<1.0		1.0	ug/L	29-NOV-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590
1,1-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,1-Dichloroethylene	0.73		0.50	ug/L	29-NOV-17	14
cis-1,2-Dichloroethylene	198		0.50	ug/L	29-NOV-17	*17
trans-1,2-Dichloroethylene	1.58		0.50	ug/L	29-NOV-17	17
Methylene Chloride	<5.0		5.0	ug/L	29-NOV-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-NOV-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4
n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520
Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640
MTBE	<2.0		2.0	ug/L	29-NOV-17	15
Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
Toluene	<0.50		0.50	ug/L	29-NOV-17	24
1,1,1-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
Trichloroethylene	772	DLHC	2.5	ug/L	30-NOV-17	*5
Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150
Vinyl chloride	38.0		0.50	ug/L	29-NOV-17	*1.7
o-Xylene	<0.30		0.30	ug/L	29-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	30-NOV-17	300
Surrogate: 4-Bromofluorobenzene	95.1		70-130	%	29-NOV-17	
Surrogate: 1,4-Difluorobenzene	99.7		70-130	%	29-NOV-17	
Hydrocarbons						
F1 (C6-C10)	118		25	ug/L	29-NOV-17	750

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2027604-1 BH101S						
Sampled By: CLIENT on 24-NOV-17 @ 13:00						
Matrix: WATER						
Hydrocarbons						
F1-BTEX	118		25	ug/L	30-NOV-17	750
F2 (C10-C16)	<100		100	ug/L	29-NOV-17	150
F2-Naphth	<100		100	ug/L	30-NOV-17	
F3 (C16-C34)	<250		250	ug/L	29-NOV-17	500
F3-PAH	<250		250	ug/L	30-NOV-17	
F4 (C34-C50)	<250		250	ug/L	29-NOV-17	500
Total Hydrocarbons (C6-C50)	<370		370	ug/L	30-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	29-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	100.6		60-140	%	29-NOV-17	
Surrogate: 3,4-Dichlorotoluene	80.7		60-140	%	29-NOV-17	
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.020		0.020	ug/L	30-NOV-17	4.1
Acenaphthylene	<0.020		0.020	ug/L	30-NOV-17	1
Anthracene	<0.020		0.020	ug/L	30-NOV-17	2.4
Benzo(a)anthracene	<0.020		0.020	ug/L	30-NOV-17	1
Benzo(a)pyrene	0.011		0.010	ug/L	30-NOV-17	*0.01
Benzo(b)fluoranthene	0.024		0.020	ug/L	30-NOV-17	0.1
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	30-NOV-17	0.2
Benzo(k)fluoranthene	<0.020		0.020	ug/L	30-NOV-17	0.1
Chrysene	0.037		0.020	ug/L	30-NOV-17	0.1
Dibenzo(ah)anthracene	<0.020		0.020	ug/L	30-NOV-17	0.2
Fluoranthene	0.034		0.020	ug/L	30-NOV-17	0.41
Fluorene	<0.020		0.020	ug/L	30-NOV-17	120
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	30-NOV-17	0.2
1+2-Methylnaphthalenes	0.045		0.028	ug/L	02-MAY-19	3.2
1-Methylnaphthalene	0.021		0.020	ug/L	30-NOV-17	3.2
2-Methylnaphthalene	0.024		0.020	ug/L	30-NOV-17	3.2
Naphthalene	<0.050		0.050	ug/L	30-NOV-17	11
Phenanthrene	0.047		0.020	ug/L	30-NOV-17	1
Pyrene	0.036		0.020	ug/L	30-NOV-17	4.1
Surrogate: 2-Fluorobiphenyl	80.5		60-140	%	30-NOV-17	
Surrogate: d14-Terphenyl	78.3		60-140	%	30-NOV-17	
Semi-Volatile Organics						
Biphenyl	<0.40		0.40	ug/L	30-NOV-17	0.5
4-Chloroaniline	<0.40		0.40	ug/L	30-NOV-17	10
Bis(2-chloroethyl)ether	<0.40		0.40	ug/L	30-NOV-17	5
Bis(2-chloroisopropyl)ether	<0.40		0.40	ug/L	30-NOV-17	120
3,3'-Dichlorobenzidine	<0.40		0.40	ug/L	30-NOV-17	0.5
Diethylphthalate	<0.20		0.20	ug/L	30-NOV-17	38
Dimethylphthalate	<0.20		0.20	ug/L	30-NOV-17	38
2,4-Dimethylphenol	<0.50		0.50	ug/L	30-NOV-17	59
2,4-Dinitrophenol	<1.0		1.0	ug/L	30-NOV-17	10
2,4-Dinitrotoluene	<0.40		0.40	ug/L	30-NOV-17	
2,6-Dinitrotoluene	<0.40		0.40	ug/L	30-NOV-17	
Bis(2-ethylhexyl)phthalate	<2.0		2.0	ug/L	30-NOV-17	10
Phenol	<0.50		0.50	ug/L	30-NOV-17	890

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2027604-1 BH101S Sampled By: CLIENT on 24-NOV-17 @ 13:00 Matrix: WATER						#1
Semi-Volatile Organics						
1,2,4-Trichlorobenzene	<0.40		0.40	ug/L	30-NOV-17	70
Surrogate: 2-Fluorobiphenyl	92.5		50-140	%	30-NOV-17	
Surrogate: Nitrobenzene d5	93.7		50-140	%	30-NOV-17	
Surrogate: Phenol d5	42.9		30-130	%	30-NOV-17	
Surrogate: p-Terphenyl d14	73.3		60-140	%	30-NOV-17	
Surrogate: 2,4,6-Tribromophenol	99.7		50-140	%	30-NOV-17	
L2027604-2 BH102S Sampled By: CLIENT on 24-NOV-17 @ 11:30 Matrix: WATER						#1
Dissolved Metals						
Dissolved Mercury Filtration Location	FIELD			No Unit	28-NOV-17	
Dissolved Metals Filtration Location	FIELD			No Unit	28-NOV-17	
Antimony (Sb)-Dissolved	0.12		0.10	ug/L	28-NOV-17	6
Arsenic (As)-Dissolved	0.87		0.10	ug/L	28-NOV-17	25
Barium (Ba)-Dissolved	60.9		0.10	ug/L	28-NOV-17	1000
Beryllium (Be)-Dissolved	<0.10		0.10	ug/L	28-NOV-17	4
Boron (B)-Dissolved	71		10	ug/L	28-NOV-17	5000
Cadmium (Cd)-Dissolved	0.021		0.010	ug/L	28-NOV-17	2.7
Chromium (Cr)-Dissolved	<0.50		0.50	ug/L	28-NOV-17	50
Cobalt (Co)-Dissolved	1.87		0.10	ug/L	28-NOV-17	3.8
Copper (Cu)-Dissolved	3.00		0.20	ug/L	28-NOV-17	87
Lead (Pb)-Dissolved	0.113		0.050	ug/L	28-NOV-17	10
Mercury (Hg)-Dissolved	<0.010		0.010	ug/L	28-NOV-17	1
Molybdenum (Mo)-Dissolved	1.97		0.050	ug/L	28-NOV-17	70
Nickel (Ni)-Dissolved	3.26		0.50	ug/L	28-NOV-17	100
Selenium (Se)-Dissolved	0.400		0.050	ug/L	28-NOV-17	10
Silver (Ag)-Dissolved	<0.050		0.050	ug/L	28-NOV-17	1.5
Sodium (Na)-Dissolved	41300		500	ug/L	28-NOV-17	490000
Thallium (Tl)-Dissolved	0.025		0.010	ug/L	28-NOV-17	2
Uranium (U)-Dissolved	3.55		0.010	ug/L	28-NOV-17	20
Vanadium (V)-Dissolved	<0.50		0.50	ug/L	28-NOV-17	6.2
Zinc (Zn)-Dissolved	4.8		1.0	ug/L	28-NOV-17	1100
Speciated Metals						
Chromium, Hexavalent	<1.0		1.0	ug/L	02-DEC-17	25
Volatile Organic Compounds						
Acetone	<30		30	ug/L	29-NOV-17	2700
Benzene	<0.50		0.50	ug/L	29-NOV-17	5
Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16
Bromoform	<5.0		5.0	ug/L	29-NOV-17	25
Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5
Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	30
Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25
Chloroform	<1.0		1.0	ug/L	29-NOV-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2027604-2 BH102S						
Sampled By: CLIENT on 24-NOV-17 @ 11:30						
Matrix: WATER						
Volatile Organic Compounds						
1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590
1,1-Dichloroethane	1.96		0.50	ug/L	29-NOV-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,1-Dichloroethylene	6.15		0.50	ug/L	29-NOV-17	14
cis-1,2-Dichloroethylene	708	DLHC	25	ug/L	30-NOV-17	*17
trans-1,2-Dichloroethylene	8.72		0.50	ug/L	29-NOV-17	17
Methylene Chloride	<5.0		5.0	ug/L	29-NOV-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-NOV-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4
n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520
Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640
MTBE	<2.0		2.0	ug/L	29-NOV-17	15
Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1
Tetrachloroethylene	55.9		0.50	ug/L	29-NOV-17	*17
Toluene	<0.50		0.50	ug/L	29-NOV-17	24
1,1,1-Trichloroethane	7.42		0.50	ug/L	29-NOV-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
Trichloroethylene	6870	DLHC	25	ug/L	30-NOV-17	*5
Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150
Vinyl chloride	69.4		0.50	ug/L	29-NOV-17	*1.7
o-Xylene	0.45		0.30	ug/L	29-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	30-NOV-17	300
Surrogate: 4-Bromofluorobenzene	95.7		70-130	%	29-NOV-17	
Surrogate: 1,4-Difluorobenzene	100.2		70-130	%	29-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<1300	DLHC	1300	ug/L	30-NOV-17	**750
F1-BTEX	<1300		1300	ug/L	30-NOV-17	**750
F2 (C10-C16)	<100		100	ug/L	29-NOV-17	150
F2-Naphth	<100		100	ug/L	30-NOV-17	
F3 (C16-C34)	<250		250	ug/L	29-NOV-17	500
F3-PAH	<250		250	ug/L	30-NOV-17	
F4 (C34-C50)	<250		250	ug/L	29-NOV-17	500
Total Hydrocarbons (C6-C50)	<1400		1400	ug/L	30-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	29-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	110.9		60-140	%	29-NOV-17	
Surrogate: 3,4-Dichlorotoluene	86.5		60-140	%	30-NOV-17	

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T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2027604-2 BH102S						
Sampled By: CLIENT on 24-NOV-17 @ 11:30						
Matrix: WATER						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.020		0.020	ug/L	30-NOV-17	4.1
Acenaphthylene	<0.020		0.020	ug/L	30-NOV-17	1
Anthracene	<0.020		0.020	ug/L	30-NOV-17	2.4
Benzo(a)anthracene	<0.020		0.020	ug/L	30-NOV-17	1
Benzo(a)pyrene	<0.010		0.010	ug/L	30-NOV-17	0.01
Benzo(b)fluoranthene	<0.020		0.020	ug/L	30-NOV-17	0.1
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	30-NOV-17	0.2
Benzo(k)fluoranthene	<0.020		0.020	ug/L	30-NOV-17	0.1
Chrysene	<0.020		0.020	ug/L	30-NOV-17	0.1
Dibenzo(ah)anthracene	<0.020		0.020	ug/L	30-NOV-17	0.2
Fluoranthene	<0.020		0.020	ug/L	30-NOV-17	0.41
Fluorene	<0.020		0.020	ug/L	30-NOV-17	120
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	30-NOV-17	0.2
1+2-Methylnaphthalenes	<0.028		0.028	ug/L	02-MAY-19	3.2
1-Methylnaphthalene	<0.020		0.020	ug/L	30-NOV-17	3.2
2-Methylnaphthalene	0.028		0.020	ug/L	30-NOV-17	3.2
Naphthalene	0.094		0.050	ug/L	30-NOV-17	11
Phenanthrene	0.027		0.020	ug/L	30-NOV-17	1
Pyrene	<0.020		0.020	ug/L	30-NOV-17	4.1
Surrogate: 2-Fluorobiphenyl	83.2		60-140	%	30-NOV-17	
Surrogate: d14-Terphenyl	89.2		60-140	%	30-NOV-17	
Semi-Volatile Organics						
Biphenyl	<0.40		0.40	ug/L	30-NOV-17	0.5
4-Chloroaniline	<0.40		0.40	ug/L	30-NOV-17	10
Bis(2-chloroethyl)ether	<0.40		0.40	ug/L	30-NOV-17	5
Bis(2-chloroisopropyl)ether	<0.40		0.40	ug/L	30-NOV-17	120
3,3'-Dichlorobenzidine	<0.40		0.40	ug/L	30-NOV-17	0.5
Diethylphthalate	<0.20		0.20	ug/L	30-NOV-17	38
Dimethylphthalate	<0.20		0.20	ug/L	30-NOV-17	38
2,4-Dimethylphenol	<0.50		0.50	ug/L	30-NOV-17	59
2,4-Dinitrophenol	<1.0		1.0	ug/L	30-NOV-17	10
2,4-Dinitrotoluene	<0.40		0.40	ug/L	30-NOV-17	
2,6-Dinitrotoluene	<0.40		0.40	ug/L	30-NOV-17	
Bis(2-ethylhexyl)phthalate	<2.0		2.0	ug/L	30-NOV-17	10
Phenol	<0.50		0.50	ug/L	30-NOV-17	890
1,2,4-Trichlorobenzene	<0.40		0.40	ug/L	30-NOV-17	70
Surrogate: 2-Fluorobiphenyl	94.7		50-140	%	30-NOV-17	
Surrogate: Nitrobenzene d5	98.3		50-140	%	30-NOV-17	
Surrogate: Phenol d5	49.5		30-130	%	30-NOV-17	
Surrogate: p-Terphenyl d14	96.5		60-140	%	30-NOV-17	
Surrogate: 2,4,6-Tribromophenol	112.2		50-140	%	30-NOV-17	
Polychlorinated Biphenyls						
Aroclor 1242	<0.020		0.020	ug/L	29-NOV-17	
Aroclor 1248	<0.020		0.020	ug/L	29-NOV-17	
Aroclor 1254	<0.020		0.020	ug/L	29-NOV-17	
Aroclor 1260	<0.020		0.020	ug/L	29-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2027604-2 BH102S Sampled By: CLIENT on 24-NOV-17 @ 11:30 Matrix: WATER						#1			
Polychlorinated Biphenyls									
Total PCBs	<0.040		0.040	ug/L	29-NOV-17	3			
Surrogate: 2-fluorobiphenyl	78.6		50-150	%	29-NOV-17				
L2027604-3 BH103S Sampled By: CLIENT on 24-NOV-17 @ 13:10 Matrix: WATER						#1			
Volatile Organic Compounds									
Acetone	<30		30	ug/L	29-NOV-17	2700			
Benzene	<0.50		0.50	ug/L	29-NOV-17	5			
Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16			
Bromoform	<5.0		5.0	ug/L	29-NOV-17	25			
Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89			
Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5			
Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	30			
Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25			
Chloroform	<1.0		1.0	ug/L	29-NOV-17	22			
1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2			
1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3			
1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59			
1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1			
Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590			
1,1-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5			
1,2-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5			
1,1-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	14			
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17			
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17			
Methylene Chloride	<5.0		5.0	ug/L	29-NOV-17	50			
1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5			
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17				
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17				
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-NOV-17	0.5			
Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4			
n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520			
Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800			
Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640			
MTBE	<2.0		2.0	ug/L	29-NOV-17	15			
Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4			
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1			
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1			
Tetrachloroethylene	<0.50		0.50	ug/L	29-NOV-17	17			
Toluene	<0.50		0.50	ug/L	29-NOV-17	24			
1,1,1-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	200			
1,1,2-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	5			
Trichloroethylene	<0.50		0.50	ug/L	30-NOV-17	5			
Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150			
Vinyl chloride	<0.50		0.50	ug/L	29-NOV-17	1.7			

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* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2027604-3 BH103S						
Sampled By: CLIENT on 24-NOV-17 @ 13:10						
Matrix: WATER						#1
Volatile Organic Compounds						
o-Xylene	<0.30		0.30	ug/L	29-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	30-NOV-17	300
Surrogate: 4-Bromofluorobenzene	95.2		70-130	%	29-NOV-17	
Surrogate: 1,4-Difluorobenzene	100.1		70-130	%	29-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<25		25	ug/L	29-NOV-17	750
F1-BTEX	<25		25	ug/L	30-NOV-17	750
F2 (C10-C16)	<100		100	ug/L	29-NOV-17	150
F3 (C16-C34)	<250		250	ug/L	29-NOV-17	500
F4 (C34-C50)	<250		250	ug/L	29-NOV-17	500
Total Hydrocarbons (C6-C50)	<370		370	ug/L	30-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	29-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	103.9		60-140	%	29-NOV-17	
Surrogate: 3,4-Dichlorotoluene	84.9		60-140	%	29-NOV-17	
Polychlorinated Biphenyls						
Aroclor 1242	<0.020		0.020	ug/L	29-NOV-17	
Aroclor 1248	<0.020		0.020	ug/L	29-NOV-17	
Aroclor 1254	<0.020		0.020	ug/L	29-NOV-17	
Aroclor 1260	<0.020		0.020	ug/L	29-NOV-17	
Total PCBs	<0.040		0.040	ug/L	29-NOV-17	3
Surrogate: 2-fluorobiphenyl	77.4		50-150	%	29-NOV-17	
L2027604-4 BH104S						
Sampled By: CLIENT on 24-NOV-17 @ 16:40						
Matrix: WATER						#1
Dissolved Metals						
Dissolved Mercury Filtration Location	FIELD			No Unit	28-NOV-17	
Dissolved Metals Filtration Location	FIELD			No Unit	28-NOV-17	
Antimony (Sb)-Dissolved	<1.0	DLHC	1.0	ug/L	28-NOV-17	6
Arsenic (As)-Dissolved	2.1	DLHC	1.0	ug/L	28-NOV-17	25
Barium (Ba)-Dissolved	40.1	DLHC	1.0	ug/L	28-NOV-17	1000
Beryllium (Be)-Dissolved	<1.0	DLHC	1.0	ug/L	28-NOV-17	4
Boron (B)-Dissolved	380	DLHC	100	ug/L	28-NOV-17	5000
Cadmium (Cd)-Dissolved	<0.10	DLHC	0.10	ug/L	28-NOV-17	2.7
Chromium (Cr)-Dissolved	<5.0	DLHC	5.0	ug/L	28-NOV-17	50
Cobalt (Co)-Dissolved	1.2	DLHC	1.0	ug/L	28-NOV-17	3.8
Copper (Cu)-Dissolved	<2.0	DLHC	2.0	ug/L	28-NOV-17	87
Lead (Pb)-Dissolved	<0.50	DLHC	0.50	ug/L	28-NOV-17	10
Mercury (Hg)-Dissolved	<0.010		0.010	ug/L	28-NOV-17	1
Molybdenum (Mo)-Dissolved	7.30	DLHC	0.50	ug/L	28-NOV-17	70
Nickel (Ni)-Dissolved	<5.0	DLHC	5.0	ug/L	28-NOV-17	100
Selenium (Se)-Dissolved	<0.50	DLHC	0.50	ug/L	28-NOV-17	10
Silver (Ag)-Dissolved	<0.50	DLHC	0.50	ug/L	28-NOV-17	1.5
Sodium (Na)-Dissolved	170000	DLHC	5000	ug/L	28-NOV-17	490000
Thallium (Tl)-Dissolved	<0.10	DLHC	0.10	ug/L	28-NOV-17	2

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T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2027604-4	BH104S						
Sampled By:	CLIENT on 24-NOV-17 @ 16:40						
Matrix:	WATER						
Dissolved Metals							
	Uranium (U)-Dissolved	21.0	DLHC	0.10	ug/L	28-NOV-17	*20
	Vanadium (V)-Dissolved	<5.0	DLHC	5.0	ug/L	28-NOV-17	6.2
	Zinc (Zn)-Dissolved	<10	DLHC	10	ug/L	28-NOV-17	1100
Speciated Metals							
	Chromium, Hexavalent	<1.0		1.0	ug/L	02-DEC-17	25
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	29-NOV-17	2700
	Benzene	<0.50		0.50	ug/L	29-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	29-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	29-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590
	1,1-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
	1,1-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	14
	cis-1,2-Dichloroethylene	12.0		0.50	ug/L	29-NOV-17	17
	trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	29-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	29-NOV-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640
	MTBE	<2.0		2.0	ug/L	29-NOV-17	15
	Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
	Toluene	<0.50		0.50	ug/L	29-NOV-17	24
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
	Trichloroethylene	6.27		0.50	ug/L	29-NOV-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150
	Vinyl chloride	5.91		0.50	ug/L	29-NOV-17	*1.7

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2027604-4 BH104S						
Sampled By: CLIENT on 24-NOV-17 @ 16:40						
Matrix: WATER						
Volatile Organic Compounds						
o-Xylene	<0.30		0.30	ug/L	29-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	29-NOV-17	300
Surrogate: 4-Bromofluorobenzene	94.9		70-130	%	29-NOV-17	
Surrogate: 1,4-Difluorobenzene	100.4		70-130	%	29-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<25		25	ug/L	29-NOV-17	750
F1-BTEX	<25		25	ug/L	30-NOV-17	750
F2 (C10-C16)	<100		100	ug/L	29-NOV-17	150
F2-Naphth	<100		100	ug/L	30-NOV-17	
F3 (C16-C34)	<250		250	ug/L	29-NOV-17	500
F3-PAH	<250		250	ug/L	30-NOV-17	
F4 (C34-C50)	<250		250	ug/L	29-NOV-17	500
Total Hydrocarbons (C6-C50)	<370		370	ug/L	30-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	29-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	103.1		60-140	%	29-NOV-17	
Surrogate: 3,4-Dichlorotoluene	78.0		60-140	%	29-NOV-17	
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.020		0.020	ug/L	30-NOV-17	4.1
Acenaphthylene	<0.020		0.020	ug/L	30-NOV-17	1
Anthracene	<0.020		0.020	ug/L	30-NOV-17	2.4
Benzo(a)anthracene	<0.020		0.020	ug/L	30-NOV-17	1
Benzo(a)pyrene	<0.010		0.010	ug/L	30-NOV-17	0.01
Benzo(b)fluoranthene	<0.020		0.020	ug/L	30-NOV-17	0.1
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	30-NOV-17	0.2
Benzo(k)fluoranthene	<0.020		0.020	ug/L	30-NOV-17	0.1
Chrysene	<0.020		0.020	ug/L	30-NOV-17	0.1
Dibenzo(ah)anthracene	<0.020		0.020	ug/L	30-NOV-17	0.2
Fluoranthene	<0.020		0.020	ug/L	30-NOV-17	0.41
Fluorene	<0.020		0.020	ug/L	30-NOV-17	120
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	30-NOV-17	0.2
1+2-Methylnaphthalenes	<0.028		0.028	ug/L	02-MAY-19	3.2
1-Methylnaphthalene	<0.020		0.020	ug/L	30-NOV-17	3.2
2-Methylnaphthalene	<0.020		0.020	ug/L	30-NOV-17	3.2
Naphthalene	<0.050		0.050	ug/L	30-NOV-17	11
Phenanthrene	<0.020		0.020	ug/L	30-NOV-17	1
Pyrene	<0.020		0.020	ug/L	30-NOV-17	4.1
Surrogate: 2-Fluorobiphenyl	74.6		60-140	%	30-NOV-17	
Surrogate: d14-Terphenyl	85.3		60-140	%	30-NOV-17	
Semi-Volatile Organics						
Biphenyl	<0.40		0.40	ug/L	30-NOV-17	0.5
4-Chloroaniline	<0.40		0.40	ug/L	30-NOV-17	10
Bis(2-chloroethyl)ether	<0.40		0.40	ug/L	30-NOV-17	5
Bis(2-chloroisopropyl)ether	<0.40		0.40	ug/L	30-NOV-17	120
3,3'-Dichlorobenzidine	<0.40		0.40	ug/L	30-NOV-17	0.5
Diethylphthalate	<0.20		0.20	ug/L	30-NOV-17	38

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
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T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2027604-4 BH104S Sampled By: CLIENT on 24-NOV-17 @ 16:40 Matrix: WATER						#1			
Semi-Volatile Organics									
Dimethylphthalate	<0.20		0.20	ug/L	30-NOV-17	38			
2,4-Dimethylphenol	<0.50		0.50	ug/L	30-NOV-17	59			
2,4-Dinitrophenol	<1.0		1.0	ug/L	30-NOV-17	10			
2,4-Dinitrotoluene	<0.40		0.40	ug/L	30-NOV-17				
2,6-Dinitrotoluene	<0.40		0.40	ug/L	30-NOV-17				
Bis(2-ethylhexyl)phthalate	<2.0		2.0	ug/L	30-NOV-17	10			
Phenol	<0.50		0.50	ug/L	30-NOV-17	890			
1,2,4-Trichlorobenzene	<0.40		0.40	ug/L	30-NOV-17	70			
Surrogate: 2-Fluorobiphenyl	87.1		50-140	%	30-NOV-17				
Surrogate: Nitrobenzene d5	91.3		50-140	%	30-NOV-17				
Surrogate: Phenol d5	45.4		30-130	%	30-NOV-17				
Surrogate: p-Terphenyl d14	87.1		60-140	%	30-NOV-17				
Surrogate: 2,4,6-Tribromophenol	102.8		50-140	%	30-NOV-17				
L2027604-5 BH105S Sampled By: CLIENT on 24-NOV-17 @ 13:50 Matrix: WATER						#1			
Volatile Organic Compounds									
Acetone	<30		30	ug/L	29-NOV-17	2700			
Benzene	<0.50		0.50	ug/L	29-NOV-17	5			
Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16			
Bromoform	<5.0		5.0	ug/L	29-NOV-17	25			
Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89			
Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5			
Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	30			
Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25			
Chloroform	<1.0		1.0	ug/L	29-NOV-17	22			
1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2			
1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3			
1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59			
1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1			
Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590			
1,1-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5			
1,2-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5			
1,1-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	14			
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17			
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17			
Methylene Chloride	<5.0		5.0	ug/L	29-NOV-17	50			
1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5			
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17				
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17				
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	29-NOV-17	0.5			
Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4			
n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520			
Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800			
Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2027604-5 BH105S						
Sampled By: CLIENT on 24-NOV-17 @ 13:50						
Matrix: WATER						#1
Volatile Organic Compounds						
MTBE	<2.0		2.0	ug/L	29-NOV-17	15
Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
Toluene	<0.50		0.50	ug/L	29-NOV-17	24
1,1,1-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
Trichloroethylene	<0.50		0.50	ug/L	29-NOV-17	5
Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150
Vinyl chloride	<0.50		0.50	ug/L	29-NOV-17	1.7
o-Xylene	<0.30		0.30	ug/L	29-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	29-NOV-17	300
Surrogate: 4-Bromofluorobenzene	94.9		70-130	%	29-NOV-17	
Surrogate: 1,4-Difluorobenzene	100.2		70-130	%	29-NOV-17	
L2027604-6 BH106S						
Sampled By: CLIENT on 24-NOV-17 @ 11:20						
Matrix: WATER						#1
Dissolved Metals						
Dissolved Mercury Filtration Location	FIELD			No Unit	28-NOV-17	
Dissolved Metals Filtration Location	FIELD			No Unit	28-NOV-17	
Antimony (Sb)-Dissolved	<1.0	DLHC	1.0	ug/L	28-NOV-17	6
Arsenic (As)-Dissolved	4.3	DLHC	1.0	ug/L	28-NOV-17	25
Barium (Ba)-Dissolved	49.3	DLHC	1.0	ug/L	28-NOV-17	1000
Beryllium (Be)-Dissolved	<1.0	DLHC	1.0	ug/L	28-NOV-17	4
Boron (B)-Dissolved	320	DLHC	100	ug/L	28-NOV-17	5000
Cadmium (Cd)-Dissolved	<0.10	DLHC	0.10	ug/L	28-NOV-17	2.7
Chromium (Cr)-Dissolved	<5.0	DLHC	5.0	ug/L	28-NOV-17	50
Cobalt (Co)-Dissolved	2.6	DLHC	1.0	ug/L	28-NOV-17	3.8
Copper (Cu)-Dissolved	<2.0	DLHC	2.0	ug/L	28-NOV-17	87
Lead (Pb)-Dissolved	<0.50	DLHC	0.50	ug/L	28-NOV-17	10
Mercury (Hg)-Dissolved	<0.010		0.010	ug/L	28-NOV-17	1
Molybdenum (Mo)-Dissolved	5.27	DLHC	0.50	ug/L	28-NOV-17	70
Nickel (Ni)-Dissolved	<5.0	DLHC	5.0	ug/L	28-NOV-17	100
Selenium (Se)-Dissolved	<0.50	DLHC	0.50	ug/L	28-NOV-17	10
Silver (Ag)-Dissolved	<0.50	DLHC	0.50	ug/L	28-NOV-17	1.5
Sodium (Na)-Dissolved	219000	DLHC	5000	ug/L	28-NOV-17	490000
Thallium (Tl)-Dissolved	<0.10	DLHC	0.10	ug/L	28-NOV-17	2
Uranium (U)-Dissolved	5.35	DLHC	0.10	ug/L	28-NOV-17	20
Vanadium (V)-Dissolved	<5.0	DLHC	5.0	ug/L	28-NOV-17	6.2
Zinc (Zn)-Dissolved	14	DLHC	10	ug/L	28-NOV-17	1100
Speciated Metals						
Chromium, Hexavalent	<1.0		1.0	ug/L	02-DEC-17	25
Volatile Organic Compounds						

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2027604-6 BH106S						
Sampled By: CLIENT on 24-NOV-17 @ 11:20						
Matrix: WATER						
Volatile Organic Compounds						
Acetone	47		30	ug/L	29-NOV-17	2700
Benzene	<0.50		0.50	ug/L	29-NOV-17	5
Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16
Bromoform	<5.0		5.0	ug/L	29-NOV-17	25
Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5
Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	30
Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25
Chloroform	<1.0		1.0	ug/L	29-NOV-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590
1,1-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,2-Dichloroethane	0.56		0.50	ug/L	29-NOV-17	5
1,1-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	14
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
Methylene Chloride	<5.0		5.0	ug/L	29-NOV-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-NOV-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4
n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520
Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640
MTBE	<2.0		2.0	ug/L	29-NOV-17	15
Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
Toluene	0.65		0.50	ug/L	30-NOV-17	24
1,1,1-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
Trichloroethylene	<0.50		0.50	ug/L	29-NOV-17	5
Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150
Vinyl chloride	<0.50		0.50	ug/L	29-NOV-17	1.7
o-Xylene	<0.30		0.30	ug/L	29-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	30-NOV-17	300
Surrogate: 4-Bromofluorobenzene	94.4		70-130	%	29-NOV-17	
Surrogate: 1,4-Difluorobenzene	100.1		70-130	%	29-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<25		25	ug/L	29-NOV-17	750

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
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T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2027604-6 BH106S						
Sampled By: CLIENT on 24-NOV-17 @ 11:20						
Matrix: WATER						#1
Hydrocarbons						
F1-BTEX	<25		25	ug/L	30-NOV-17	750
F2 (C10-C16)	<100		100	ug/L	29-NOV-17	150
F3 (C16-C34)	<250		250	ug/L	29-NOV-17	500
F4 (C34-C50)	<250		250	ug/L	29-NOV-17	500
Total Hydrocarbons (C6-C50)	<370		370	ug/L	30-NOV-17	
Chrom. to baseline at nC50	YES			No Unit	29-NOV-17	
Surrogate: 2-Bromobenzotrifluoride	99.7		60-140	%	29-NOV-17	
Surrogate: 3,4-Dichlorotoluene	81.4		60-140	%	29-NOV-17	
L2027604-7 BH107S						
Sampled By: CLIENT on 24-NOV-17 @ 14:30						
Matrix: WATER						#1
Volatile Organic Compounds						
Acetone	<30		30	ug/L	29-NOV-17	2700
Benzene	<0.50		0.50	ug/L	29-NOV-17	5
Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16
Bromoform	<5.0		5.0	ug/L	29-NOV-17	25
Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5
Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	30
Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25
Chloroform	<1.0		1.0	ug/L	29-NOV-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590
1,1-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,1-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	14
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
Methylene Chloride	<5.0		5.0	ug/L	29-NOV-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	29-NOV-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4
n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520
Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640
MTBE	<2.0		2.0	ug/L	29-NOV-17	15
Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	29-NOV-17	17

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2027604-7 BH107S Sampled By: CLIENT on 24-NOV-17 @ 14:30 Matrix: WATER						#1
Volatile Organic Compounds						
Toluene	<0.50		0.50	ug/L	29-NOV-17	24
1,1,1-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
Trichloroethylene	<0.50		0.50	ug/L	29-NOV-17	5
Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150
Vinyl chloride	<0.50		0.50	ug/L	29-NOV-17	1.7
o-Xylene	<0.30		0.30	ug/L	29-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	29-NOV-17	300
Surrogate: 4-Bromofluorobenzene	94.4		70-130	%	29-NOV-17	
Surrogate: 1,4-Difluorobenzene	98.7		70-130	%	29-NOV-17	
L2027604-8 BH110S Sampled By: CLIENT on 24-NOV-17 @ 12:40 Matrix: WATER						#1
Volatile Organic Compounds						
Acetone	<30		30	ug/L	29-NOV-17	2700
Benzene	<0.50		0.50	ug/L	29-NOV-17	5
Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16
Bromoform	<5.0		5.0	ug/L	29-NOV-17	25
Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5
Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	30
Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25
Chloroform	<1.0		1.0	ug/L	29-NOV-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590
1,1-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,1-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	14
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
Methylene Chloride	<5.0		5.0	ug/L	29-NOV-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	29-NOV-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4
n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520
Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640
MTBE	<2.0		2.0	ug/L	29-NOV-17	15
Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2027604-8 BH110S						
Sampled By: CLIENT on 24-NOV-17 @ 12:40						
Matrix: WATER						#1
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
Toluene	<0.50		0.50	ug/L	29-NOV-17	24
1,1,1-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
Trichloroethylene	<0.50		0.50	ug/L	29-NOV-17	5
Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150
Vinyl chloride	<0.50		0.50	ug/L	29-NOV-17	1.7
o-Xylene	<0.30		0.30	ug/L	29-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	29-NOV-17	300
Surrogate: 4-Bromofluorobenzene	93.0		70-130	%	29-NOV-17	
Surrogate: 1,4-Difluorobenzene	99.9		70-130	%	29-NOV-17	
L2027604-9 BH112S						
Sampled By: CLIENT on 24-NOV-17 @ 14:40						
Matrix: WATER						#1
Dissolved Metals						
Dissolved Mercury Filtration Location	FIELD			No Unit	28-NOV-17	
Dissolved Metals Filtration Location	FIELD			No Unit	28-NOV-17	
Antimony (Sb)-Dissolved	<1.0	DLHC	1.0	ug/L	28-NOV-17	6
Arsenic (As)-Dissolved	1.6	DLHC	1.0	ug/L	28-NOV-17	25
Barium (Ba)-Dissolved	28.9	DLHC	1.0	ug/L	28-NOV-17	1000
Beryllium (Be)-Dissolved	<1.0	DLHC	1.0	ug/L	28-NOV-17	4
Boron (B)-Dissolved	350	DLHC	100	ug/L	28-NOV-17	5000
Cadmium (Cd)-Dissolved	<0.10	DLHC	0.10	ug/L	28-NOV-17	2.7
Chromium (Cr)-Dissolved	<5.0	DLHC	5.0	ug/L	28-NOV-17	50
Cobalt (Co)-Dissolved	2.2	DLHC	1.0	ug/L	28-NOV-17	3.8
Copper (Cu)-Dissolved	<2.0	DLHC	2.0	ug/L	28-NOV-17	87
Lead (Pb)-Dissolved	<0.50	DLHC	0.50	ug/L	28-NOV-17	10
Mercury (Hg)-Dissolved	<0.010		0.010	ug/L	28-NOV-17	1
Molybdenum (Mo)-Dissolved	13.7	DLHC	0.50	ug/L	28-NOV-17	70
Nickel (Ni)-Dissolved	<5.0	DLHC	5.0	ug/L	28-NOV-17	100
Selenium (Se)-Dissolved	<0.50	DLHC	0.50	ug/L	28-NOV-17	10
Silver (Ag)-Dissolved	<0.50	DLHC	0.50	ug/L	28-NOV-17	1.5
Sodium (Na)-Dissolved	147000	DLHC	5000	ug/L	28-NOV-17	490000
Thallium (Tl)-Dissolved	<0.10	DLHC	0.10	ug/L	28-NOV-17	2
Uranium (U)-Dissolved	0.80	DLHC	0.10	ug/L	28-NOV-17	20
Vanadium (V)-Dissolved	<5.0	DLHC	5.0	ug/L	28-NOV-17	6.2
Zinc (Zn)-Dissolved	<10	DLHC	10	ug/L	28-NOV-17	1100
Speciated Metals						
Chromium, Hexavalent	<1.0		1.0	ug/L	02-DEC-17	25
Volatile Organic Compounds						
Acetone	<30		30	ug/L	29-NOV-17	2700
Benzene	<0.50		0.50	ug/L	29-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2027604-9 BH112S						
Sampled By: CLIENT on 24-NOV-17 @ 14:40						
Matrix: WATER						#1
Volatile Organic Compounds						
						5
Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16
Bromoform	<5.0		5.0	ug/L	29-NOV-17	25
Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5
Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	30
Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25
Chloroform	<1.0		1.0	ug/L	29-NOV-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590
1,1-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,2-Dichloroethane	0.60		0.50	ug/L	29-NOV-17	5
1,1-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	14
cis-1,2-Dichloroethylene	1.09		0.50	ug/L	29-NOV-17	17
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
Methylene Chloride	5.9		5.0	ug/L	29-NOV-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-NOV-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4
n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520
Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640
MTBE	<2.0		2.0	ug/L	29-NOV-17	15
Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
Toluene	0.61		0.50	ug/L	30-NOV-17	24
1,1,1-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
Trichloroethylene	<0.50		0.50	ug/L	29-NOV-17	5
Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150
Vinyl chloride	15.1		0.50	ug/L	29-NOV-17	*1.7
o-Xylene	<0.30		0.30	ug/L	29-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	30-NOV-17	300
Surrogate: 4-Bromofluorobenzene	93.4		70-130	%	29-NOV-17	
Surrogate: 1,4-Difluorobenzene	100.0		70-130	%	29-NOV-17	
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.020		0.020	ug/L	30-NOV-17	4.1
Acenaphthylene	<0.020		0.020	ug/L	30-NOV-17	1

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2027604-9 BH112S						
Sampled By: CLIENT on 24-NOV-17 @ 14:40						
Matrix: WATER						#1
Polycyclic Aromatic Hydrocarbons						
Anthracene	<0.020		0.020	ug/L	30-NOV-17	2.4
Benzo(a)anthracene	<0.020		0.020	ug/L	30-NOV-17	1
Benzo(a)pyrene	<0.010		0.010	ug/L	30-NOV-17	0.01
Benzo(b)fluoranthene	<0.020		0.020	ug/L	30-NOV-17	0.1
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	30-NOV-17	0.2
Benzo(k)fluoranthene	<0.020		0.020	ug/L	30-NOV-17	0.1
Chrysene	<0.020		0.020	ug/L	30-NOV-17	0.1
Dibenzo(ah)anthracene	<0.020		0.020	ug/L	30-NOV-17	0.2
Fluoranthene	<0.020		0.020	ug/L	30-NOV-17	0.41
Fluorene	<0.020		0.020	ug/L	30-NOV-17	120
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	30-NOV-17	0.2
1+2-Methylnaphthalenes	<0.028		0.028	ug/L	02-MAY-19	3.2
1-Methylnaphthalene	<0.020		0.020	ug/L	30-NOV-17	3.2
2-Methylnaphthalene	<0.020		0.020	ug/L	30-NOV-17	3.2
Naphthalene	<0.050		0.050	ug/L	30-NOV-17	11
Phenanthrene	<0.020		0.020	ug/L	30-NOV-17	1
Pyrene	<0.020		0.020	ug/L	30-NOV-17	4.1
Surrogate: 2-Fluorobiphenyl	76.5		60-140	%	30-NOV-17	
Surrogate: d14-Terphenyl	88.5		60-140	%	30-NOV-17	
Semi-Volatile Organics						
Biphenyl	<0.40		0.40	ug/L	30-NOV-17	0.5
4-Chloroaniline	<0.40		0.40	ug/L	30-NOV-17	10
Bis(2-chloroethyl)ether	<0.40		0.40	ug/L	30-NOV-17	5
Bis(2-chloroisopropyl)ether	<0.40		0.40	ug/L	30-NOV-17	120
3,3'-Dichlorobenzidine	<0.40		0.40	ug/L	30-NOV-17	0.5
Diethylphthalate	<0.20		0.20	ug/L	30-NOV-17	38
Dimethylphthalate	<0.20		0.20	ug/L	30-NOV-17	38
2,4-Dimethylphenol	<0.50		0.50	ug/L	30-NOV-17	59
2,4-Dinitrophenol	<1.0		1.0	ug/L	30-NOV-17	10
2,4-Dinitrotoluene	<0.40		0.40	ug/L	30-NOV-17	
2,6-Dinitrotoluene	<0.40		0.40	ug/L	30-NOV-17	
Bis(2-ethylhexyl)phthalate	<2.0		2.0	ug/L	30-NOV-17	10
Phenol	<0.50		0.50	ug/L	30-NOV-17	890
1,2,4-Trichlorobenzene	<0.40		0.40	ug/L	30-NOV-17	70
Surrogate: 2-Fluorobiphenyl	89.0		50-140	%	30-NOV-17	
Surrogate: Nitrobenzene d5	94.4		50-140	%	30-NOV-17	
Surrogate: Phenol d5	47.8		30-130	%	30-NOV-17	
Surrogate: p-Terphenyl d14	88.0		60-140	%	30-NOV-17	
Surrogate: 2,4,6-Tribromophenol	104.5		50-140	%	30-NOV-17	
L2027604-10 BH113S						
Sampled By: CLIENT on 24-NOV-17 @ 12:30						
Matrix: WATER						#1
Volatile Organic Compounds						
Acetone	<30		30	ug/L	29-NOV-17	2700
Benzene	<0.50		0.50	ug/L	29-NOV-17	5

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2027604-10 BH113S						
Sampled By: CLIENT on 24-NOV-17 @ 12:30						
Matrix: WATER						
Volatile Organic Compounds						
Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16
Bromoform	<5.0		5.0	ug/L	29-NOV-17	25
Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5
Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	30
Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25
Chloroform	1.5		1.0	ug/L	29-NOV-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590
1,1-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,1-Dichloroethylene	31.8		0.50	ug/L	29-NOV-17	*14
cis-1,2-Dichloroethylene	9380	DLHC	25	ug/L	30-NOV-17	*17
trans-1,2-Dichloroethylene	53.7		0.50	ug/L	29-NOV-17	*17
Methylene Chloride	<5.0		5.0	ug/L	29-NOV-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-NOV-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4
n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520
Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640
MTBE	<2.0		2.0	ug/L	29-NOV-17	15
Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1
Tetrachloroethylene	5.15		0.50	ug/L	29-NOV-17	17
Toluene	<0.50		0.50	ug/L	29-NOV-17	24
1,1,1-Trichloroethane	<1.6	DLQ	1.6	ug/L	29-NOV-17	200
1,1,2-Trichloroethane	5.76		0.50	ug/L	29-NOV-17	*5
Trichloroethylene	6110	DLHC	25	ug/L	30-NOV-17	*5
Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150
Vinyl chloride	549	DLHC	25	ug/L	30-NOV-17	*1.7
o-Xylene	<0.30		0.30	ug/L	29-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	30-NOV-17	300
Surrogate: 4-Bromofluorobenzene	94.1		70-130	%	29-NOV-17	
Surrogate: 1,4-Difluorobenzene	100.6		70-130	%	29-NOV-17	
Hydrocarbons						
F1 (C6-C10)	<1300	DLHC	1300	ug/L	30-NOV-17	**750
F1-BTEX	<1300		1300	ug/L	30-NOV-17	**750
F2 (C10-C16)	<100		100	ug/L	29-NOV-17	150

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2027604-10	BH113S									
Sampled By:	CLIENT on 24-NOV-17 @ 12:30									
Matrix:	WATER						#1			
Hydrocarbons										
	F3 (C16-C34)	<250		250	ug/L	29-NOV-17	500			
	F4 (C34-C50)	<250		250	ug/L	29-NOV-17	500			
	Total Hydrocarbons (C6-C50)	<1400		1400	ug/L	30-NOV-17				
	Chrom. to baseline at nC50	YES			No Unit	29-NOV-17				
	Surrogate: 2-Bromobenzotrifluoride	100.9		60-140	%	29-NOV-17				
	Surrogate: 3,4-Dichlorotoluene	82.1		60-140	%	30-NOV-17				
L2027604-11	BH120S									
Sampled By:	CLIENT on 24-NOV-17 @ 15:30									
Matrix:	WATER						#1			
Volatile Organic Compounds										
	Acetone	<30		30	ug/L	29-NOV-17	2700			
	Benzene	<0.50		0.50	ug/L	29-NOV-17	5			
	Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16			
	Bromoform	<5.0		5.0	ug/L	29-NOV-17	25			
	Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89			
	Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5			
	Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	30			
	Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25			
	Chloroform	<1.0		1.0	ug/L	29-NOV-17	22			
	1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2			
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3			
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59			
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1			
	Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590			
	1,1-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5			
	1,2-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5			
	1,1-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	14			
	cis-1,2-Dichloroethylene	6.10		0.50	ug/L	29-NOV-17	17			
	trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17			
	Methylene Chloride	<5.0		5.0	ug/L	29-NOV-17	50			
	1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5			
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17				
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17				
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	29-NOV-17	0.5			
	Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4			
	n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520			
	Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800			
	Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640			
	MTBE	<2.0		2.0	ug/L	29-NOV-17	15			
	Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4			
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1			
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1			
	Tetrachloroethylene	<0.50		0.50	ug/L	29-NOV-17	17			
	Toluene	<0.50		0.50	ug/L	29-NOV-17	24			
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	200			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2027604-11 BH120S						
Sampled By: CLIENT on 24-NOV-17 @ 15:30						
Matrix: WATER						#1
Volatile Organic Compounds						
1,1,2-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
Trichloroethylene	7.63		0.50	ug/L	29-NOV-17	*5
Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150
Vinyl chloride	2.36		0.50	ug/L	29-NOV-17	*1.7
o-Xylene	<0.30		0.30	ug/L	29-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	29-NOV-17	300
Surrogate: 4-Bromofluorobenzene	95.6		70-130	%	29-NOV-17	
Surrogate: 1,4-Difluorobenzene	100.2		70-130	%	29-NOV-17	
L2027604-12 BH3S						
Sampled By: CLIENT on 24-NOV-17 @ 16:00						
Matrix: WATER						#1
Dissolved Metals						
Dissolved Mercury Filtration Location	FIELD			No Unit	28-NOV-17	
Dissolved Metals Filtration Location	FIELD			No Unit	28-NOV-17	
Antimony (Sb)-Dissolved	0.16		0.10	ug/L	28-NOV-17	6
Arsenic (As)-Dissolved	0.89		0.10	ug/L	28-NOV-17	25
Barium (Ba)-Dissolved	28.2		0.10	ug/L	28-NOV-17	1000
Beryllium (Be)-Dissolved	<0.10		0.10	ug/L	28-NOV-17	4
Boron (B)-Dissolved	66		10	ug/L	28-NOV-17	5000
Cadmium (Cd)-Dissolved	0.024		0.010	ug/L	28-NOV-17	2.7
Chromium (Cr)-Dissolved	<0.50		0.50	ug/L	28-NOV-17	50
Cobalt (Co)-Dissolved	0.10		0.10	ug/L	28-NOV-17	3.8
Copper (Cu)-Dissolved	2.35		0.20	ug/L	28-NOV-17	87
Lead (Pb)-Dissolved	0.071		0.050	ug/L	28-NOV-17	10
Mercury (Hg)-Dissolved	<0.010		0.010	ug/L	28-NOV-17	1
Molybdenum (Mo)-Dissolved	0.635		0.050	ug/L	28-NOV-17	70
Nickel (Ni)-Dissolved	1.03		0.50	ug/L	28-NOV-17	100
Selenium (Se)-Dissolved	0.588		0.050	ug/L	28-NOV-17	10
Silver (Ag)-Dissolved	<0.050		0.050	ug/L	28-NOV-17	1.5
Sodium (Na)-Dissolved	32100		500	ug/L	28-NOV-17	490000
Thallium (Tl)-Dissolved	0.024		0.010	ug/L	28-NOV-17	2
Uranium (U)-Dissolved	6.65		0.010	ug/L	28-NOV-17	20
Vanadium (V)-Dissolved	<0.50		0.50	ug/L	28-NOV-17	6.2
Zinc (Zn)-Dissolved	1.8		1.0	ug/L	28-NOV-17	1100
Speciated Metals						
Chromium, Hexavalent	<1.0		1.0	ug/L	02-DEC-17	25
Volatile Organic Compounds						
Acetone	<30		30	ug/L	29-NOV-17	2700
Benzene	<0.50		0.50	ug/L	29-NOV-17	5
Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16
Bromoform	<5.0		5.0	ug/L	29-NOV-17	25
Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5
Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2027604-12	BH3S						
Sampled By:	CLIENT on 24-NOV-17 @ 16:00						
Matrix:	WATER						#1
Volatile Organic Compounds							
							30
	Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	29-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590
	1,1-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
	1,1-Dichloroethylene	11.9		0.50	ug/L	29-NOV-17	14
	cis-1,2-Dichloroethylene	1200	DLHC	25	ug/L	30-NOV-17	*17
	trans-1,2-Dichloroethylene	10.7		0.50	ug/L	29-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	29-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-NOV-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640
	MTBE	<2.0		2.0	ug/L	29-NOV-17	15
	Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1
	Tetrachloroethylene	1.60		0.50	ug/L	29-NOV-17	17
	Toluene	<0.50		0.50	ug/L	29-NOV-17	24
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	200
	1,1,2-Trichloroethane	2.41		0.50	ug/L	29-NOV-17	5
	Trichloroethylene	8850	DLHC	25	ug/L	30-NOV-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150
	Vinyl chloride	23.6		0.50	ug/L	29-NOV-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	29-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	30-NOV-17	300
	Surrogate: 4-Bromofluorobenzene	94.3		70-130	%	29-NOV-17	
	Surrogate: 1,4-Difluorobenzene	100.6		70-130	%	29-NOV-17	
Hydrocarbons							
	F1 (C6-C10)	1500	DLHC	1300	ug/L	30-NOV-17	*750
	F1-BTEX	1500		1300	ug/L	30-NOV-17	*750
	F2 (C10-C16)	<100		100	ug/L	29-NOV-17	150
	F3 (C16-C34)	<250		250	ug/L	29-NOV-17	500
	F4 (C34-C50)	<250		250	ug/L	29-NOV-17	500
	Total Hydrocarbons (C6-C50)	1500		1400	ug/L	30-NOV-17	
	Chrom. to baseline at nC50	YES			No Unit	29-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2027604-12 BH3S Sampled By: CLIENT on 24-NOV-17 @ 16:00 Matrix: WATER						#1
Hydrocarbons						
Surrogate: 2-Bromobenzotrifluoride	107.2		60-140	%	29-NOV-17	
Surrogate: 3,4-Dichlorotoluene	79.5		60-140	%	30-NOV-17	
L2027604-13 BH1100 Sampled By: CLIENT on 24-NOV-17 @ 12:40 Matrix: WATER						#1
Volatile Organic Compounds						
Acetone	<30		30	ug/L	29-NOV-17	2700
Benzene	<0.50		0.50	ug/L	29-NOV-17	5
Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16
Bromoform	<5.0		5.0	ug/L	29-NOV-17	25
Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5
Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	30
Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25
Chloroform	<1.0		1.0	ug/L	29-NOV-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590
1,1-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,1-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	14
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
Methylene Chloride	<5.0		5.0	ug/L	29-NOV-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-NOV-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4
n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520
Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640
MTBE	<2.0		2.0	ug/L	29-NOV-17	15
Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
Toluene	<0.50		0.50	ug/L	29-NOV-17	24
1,1,1-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
Trichloroethylene	<0.50		0.50	ug/L	30-NOV-17	5
Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150
Vinyl chloride	<0.50		0.50	ug/L	29-NOV-17	1.7

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2027604-13 BH1100						
Sampled By: CLIENT on 24-NOV-17 @ 12:40						
Matrix: WATER						#1
Volatile Organic Compounds						
o-Xylene	<0.30		0.30	ug/L	29-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	30-NOV-17	300
Surrogate: 4-Bromofluorobenzene	92.9		70-130	%	29-NOV-17	
Surrogate: 1,4-Difluorobenzene	99.3		70-130	%	29-NOV-17	
L2027604-14 BH1300						
Sampled By: CLIENT on 24-NOV-17 @ 12:30						
Matrix: WATER						#1
Volatile Organic Compounds						
Acetone	<30		30	ug/L	29-NOV-17	2700
Benzene	<0.50		0.50	ug/L	29-NOV-17	5
Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16
Bromoform	<5.0		5.0	ug/L	29-NOV-17	25
Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5
Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	30
Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25
Chloroform	1.5		1.0	ug/L	29-NOV-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590
1,1-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
1,1-Dichloroethylene	31.8		0.50	ug/L	29-NOV-17	*14
cis-1,2-Dichloroethylene	9850	DLHC	25	ug/L	30-NOV-17	*17
trans-1,2-Dichloroethylene	58.5		0.50	ug/L	29-NOV-17	*17
Methylene Chloride	<5.0		5.0	ug/L	29-NOV-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-NOV-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4
n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520
Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640
MTBE	<2.0		2.0	ug/L	29-NOV-17	15
Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1
Tetrachloroethylene	5.35		0.50	ug/L	29-NOV-17	17
Toluene	<0.50		0.50	ug/L	29-NOV-17	24
1,1,1-Trichloroethane	<1.7	DLQ	1.7	ug/L	29-NOV-17	200
1,1,2-Trichloroethane	5.53		0.50	ug/L	29-NOV-17	*5

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2027604-14	BH1300						
Sampled By:	CLIENT on 24-NOV-17 @ 12:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Trichloroethylene	6760	DLHC	25	ug/L	30-NOV-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150
	Vinyl chloride	611	DLHC	25	ug/L	30-NOV-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	29-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	30-NOV-17	300
	Surrogate: 4-Bromofluorobenzene	92.2		70-130	%	29-NOV-17	
	Surrogate: 1,4-Difluorobenzene	99.6		70-130	%	29-NOV-17	
L2027604-15	TRIP BLANK						
Sampled By:	CLIENT on 24-NOV-17						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	29-NOV-17	2700
	Benzene	<0.50		0.50	ug/L	29-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	29-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	29-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	29-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	29-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	29-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	29-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	29-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	29-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	29-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	29-NOV-17	590
	1,1-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	29-NOV-17	5
	1,1-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	14
	cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
	trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	29-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	29-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	29-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	29-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	29-NOV-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	29-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	29-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	29-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	29-NOV-17	640
	MTBE	<2.0		2.0	ug/L	29-NOV-17	15
	Styrene	<0.50		0.50	ug/L	29-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	29-NOV-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	29-NOV-17	17

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2027604-15	TRIP BLANK									
Sampled By:	CLIENT on 24-NOV-17									
Matrix:	WATER						#1			
Volatile Organic Compounds										
	Toluene	<0.50		0.50	ug/L	29-NOV-17	24			
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	200			
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	29-NOV-17	5			
	Trichloroethylene	<0.50		0.50	ug/L	29-NOV-17	5			
	Trichlorofluoromethane	<5.0		5.0	ug/L	29-NOV-17	150			
	Vinyl chloride	<0.50		0.50	ug/L	29-NOV-17	1.7			
	o-Xylene	<0.30		0.30	ug/L	29-NOV-17				
	m+p-Xylenes	<0.40		0.40	ug/L	29-NOV-17				
	Xylenes (Total)	<0.50		0.50	ug/L	29-NOV-17	300			
	Surrogate: 4-Bromofluorobenzene	96.3		70-130	%	29-NOV-17				
	Surrogate: 1,4-Difluorobenzene	100.5		70-130	%	29-NOV-17				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
DLQ	Detection Limit raised due to co-eluting interference. GCMS qualifier ion ratio did not meet acceptance criteria.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
625-511-WT	Water	ABN,CP,PAH-O.Reg 153/04	SW846 8270 (511)

Ground water sample extraction is carried out at a pH <2 (acid extractables) and pH>11 (base neutral extractables). Extracts are dried, concentrated and exchanged into a solvent compatible with the cleanup. Analysis is by GC/MS. Depending on the analytical GC/MS column used benzo(j)fluoranthene may chromatographically co-elute with benzo(b)fluoranthene or benzo(k)fluoranthene.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

CR-CR6-IC-R511-WT	Water	Hex Chrom-O.Reg 153/04 (July 2011)	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

F1-F4-511-CALC-WT	Water	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-L

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Water	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Water	F2-F4-O.Reg 153/04 (July 2011)	EPA 3511/CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, 2001.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

HG-D-UG/L-CVAA-WT	Water	Diss. Mercury in Water by CVAAS (ug/L)	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

Reference Information

MET-D-UG/L-MS-WT	Water	Diss. Metals in Water by ICPMS (ug/L)	EPA 200.8

The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT	Water	PAH-Calculated Parameters	SW846 8270
PAH-511-WT	Water	PAH-O. Reg 153/04 (July 2011)	SW846 3510/8270

Aqueous samples, fortified with surrogates, are extracted using liquid/liquid extraction technique. The sample extracts are concentrated and then analyzed using GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PCB-511-WT	Water	PCB-O. Reg 153/04 (July 2011)	SW846 3510/8082

Aqueous samples are extracted, then concentrated, reconstituted, and analyzed by GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

VOC-1,3-DCP-CALC-WT	Water	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Water	VOC by GCMS HS O.Reg 153/04 (July 2011)	SW846 8260

Liquid samples are analyzed by headspace GC/MSD.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

17-621036 17-621038

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2027604 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Water**							
Batch R3898569								
WG2672751-2 LCS								
1,2,4-Trichlorobenzene			91.2		%		50-140	30-NOV-17
2,4-Dimethylphenol			92.0		%		30-130	30-NOV-17
2,4-Dinitrophenol			98.9		%		50-140	30-NOV-17
2,4-Dinitrotoluene			103.7		%		50-140	30-NOV-17
2,6-Dinitrotoluene			98.4		%		50-140	30-NOV-17
3,3'-Dichlorobenzidine			75.8		%		30-130	30-NOV-17
4-Chloroaniline			64.6		%		30-130	30-NOV-17
Biphenyl			96.7		%		50-140	30-NOV-17
Bis(2-chloroethyl)ether			95.9		%		50-140	30-NOV-17
Bis(2-chloroisopropyl)ether			95.3		%		50-140	30-NOV-17
Bis(2-ethylhexyl)phthalate			84.8		%		50-140	30-NOV-17
Diethylphthalate			92.4		%		50-140	30-NOV-17
Dimethylphthalate			91.5		%		50-140	30-NOV-17
Phenol			47.7		%		30-130	30-NOV-17
WG2672751-3 LCSD		**WG2672751-2**						
1,2,4-Trichlorobenzene		91.2	92.3		%	1.1	50	30-NOV-17
2,4-Dimethylphenol		92.0	79.4		%	15	50	30-NOV-17
2,4-Dinitrophenol		98.9	109.1		%	9.8	50	30-NOV-17
2,4-Dinitrotoluene		103.7	108.9		%	4.9	50	30-NOV-17
2,6-Dinitrotoluene		98.4	102.0		%	3.6	50	30-NOV-17
3,3'-Dichlorobenzidine		75.8	72.9		%	3.9	50	30-NOV-17
4-Chloroaniline		64.6	49.4		%	27	50	30-NOV-17
Biphenyl		96.7	97.7		%	1.0	50	30-NOV-17
Bis(2-chloroethyl)ether		95.9	95.9		%	0.0	50	30-NOV-17
Bis(2-chloroisopropyl)ether		95.3	95.7		%	0.5	50	30-NOV-17
Bis(2-ethylhexyl)phthalate		84.8	90.2		%	6.2	50	30-NOV-17
Diethylphthalate		92.4	93.1		%	0.8	50	30-NOV-17
Dimethylphthalate		91.5	91.4		%	0.1	50	30-NOV-17
Phenol		47.7	47.0		%	1.3	50	30-NOV-17
WG2672751-1 MB								
1,2,4-Trichlorobenzene			<0.40		ug/L		0.4	30-NOV-17
2,4-Dimethylphenol			<0.50		ug/L		0.5	30-NOV-17
2,4-Dinitrophenol			<1.0		ug/L		1	30-NOV-17
							0.4	

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Water**							
Batch R3898569								
WG2672751-1 MB								
2,4-Dinitrotoluene			<0.40		ug/L		0.4	30-NOV-17
2,6-Dinitrotoluene			<0.40		ug/L		0.4	30-NOV-17
3,3'-Dichlorobenzidine			<0.40		ug/L		0.4	30-NOV-17
4-Chloroaniline			<0.40		ug/L		0.4	30-NOV-17
Biphenyl			<0.40		ug/L		0.4	30-NOV-17
Bis(2-chloroethyl)ether			<0.40		ug/L		0.4	30-NOV-17
Bis(2-chloroisopropyl)ether			<0.40		ug/L		0.4	30-NOV-17
Bis(2-ethylhexyl)phthalate			<2.0		ug/L		2	30-NOV-17
Diethylphthalate			<0.20		ug/L		0.2	30-NOV-17
Dimethylphthalate			<0.20		ug/L		0.2	30-NOV-17
Phenol			<0.50		ug/L		0.5	30-NOV-17
Surrogate: 2-Fluorobiphenyl			92.5		%		50-140	30-NOV-17
Surrogate: 2,4,6-Tribromophenol			85.2		%		50-140	30-NOV-17
Surrogate: Nitrobenzene d5			94.2		%		50-140	30-NOV-17
Surrogate: p-Terphenyl d14			97.0		%		60-140	30-NOV-17
Surrogate: Phenol d5			47.0		%		30-130	30-NOV-17
CR-CR6-IC-R511-WT	**Water**							
Batch R3901950								
WG2676400-4 DUP		**WG2676400-3**						
Chromium, Hexavalent		<1.0	<1.0	RPD-NA	ug/L	N/A	20	02-DEC-17
WG2676400-2 LCS								
Chromium, Hexavalent			102.4		%		80-120	02-DEC-17
WG2676400-1 MB								
Chromium, Hexavalent			<1.0		ug/L		1	02-DEC-17
WG2676400-5 MS		**WG2676400-3**						
Chromium, Hexavalent			101.5		%		70-130	02-DEC-17
F1-HS-511-WT	**Water**							
Batch R3897796								
WG2672163-4 DUP		**WG2672163-3**						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	29-NOV-17
WG2672163-1 LCS								
F1 (C6-C10)			101.4		%		80-120	28-NOV-17
WG2672163-2 MB								
F1 (C6-C10)			<25		ug/L		25	29-NOV-17
Surrogate: 3,4-Dichlorotoluene			78.5		%		60-140	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Water**							
Batch R3897796								
WG2672163-5 MS		**WG2672163-3**						
F1 (C6-C10)			88.2		%		60-140	29-NOV-17
Batch R3898485								
WG2672164-1 LCS								
F1 (C6-C10)			105.6		%		80-120	29-NOV-17
WG2672164-2 MB								
F1 (C6-C10)			<25		ug/L		25	30-NOV-17
Surrogate: 3,4-Dichlorotoluene			100.4		%		60-140	30-NOV-17
F2-F4-511-WT	**Water**							
Batch R3898689								
WG2673704-2 LCS								
F2 (C10-C16)			104.3		%		70-130	29-NOV-17
F3 (C16-C34)			108.8		%		70-130	29-NOV-17
F4 (C34-C50)			109.3		%		70-130	29-NOV-17
WG2673704-3 LCSD		**WG2673704-2**						
F2 (C10-C16)		104.3	109.6		%	5.0	50	29-NOV-17
F3 (C16-C34)		108.8	111.5		%	2.4	50	29-NOV-17
F4 (C34-C50)		109.3	106.9		%	2.2	50	29-NOV-17
WG2673704-1 MB								
F2 (C10-C16)			<100		ug/L		100	29-NOV-17
F3 (C16-C34)			<250		ug/L		250	29-NOV-17
F4 (C34-C50)			<250		ug/L		250	29-NOV-17
Surrogate: 2-Bromobenzotrifluoride			102.0		%		60-140	29-NOV-17
HG-D-UG/L-CVAA-WT	**Water**							
Batch R3897205								
WG2673162-3 DUP		**L2027345-1**						
Mercury (Hg)-Dissolved		<0.010	<0.010	RPD-NA	ug/L	N/A	20	28-NOV-17
WG2673162-2 LCS								
Mercury (Hg)-Dissolved			99.3		%		80-120	28-NOV-17
WG2673162-1 MB								
Mercury (Hg)-Dissolved			<0.010		ug/L		0.01	28-NOV-17
WG2673162-4 MS		**L2027345-2**						
Mercury (Hg)-Dissolved			92.2		%		70-130	28-NOV-17
MET-D-UG/L-MS-WT	**Water**							

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R3897251								
WG2672700-4 DUP		**WG2672700-3**						
Antimony (Sb)-Dissolved		0.12	0.13		ug/L	2.4	20	28-NOV-17
Arsenic (As)-Dissolved		0.87	0.87		ug/L	0.6	20	28-NOV-17
Barium (Ba)-Dissolved		60.9	61.0		ug/L	0.1	20	28-NOV-17
Beryllium (Be)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	28-NOV-17
Boron (B)-Dissolved		71	71		ug/L	0.6	20	28-NOV-17
Cadmium (Cd)-Dissolved		0.021	0.022		ug/L	7.9	20	28-NOV-17
Chromium (Cr)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	28-NOV-17
Cobalt (Co)-Dissolved		1.87	1.96		ug/L	4.6	20	28-NOV-17
Copper (Cu)-Dissolved		3.00	3.01		ug/L	0.4	20	28-NOV-17
Lead (Pb)-Dissolved		0.113	0.114		ug/L	0.4	20	28-NOV-17
Molybdenum (Mo)-Dissolved		1.97	1.95		ug/L	1.0	20	28-NOV-17
Nickel (Ni)-Dissolved		3.26	3.29		ug/L	0.9	20	28-NOV-17
Selenium (Se)-Dissolved		0.400	0.385		ug/L	3.7	20	28-NOV-17
Silver (Ag)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	28-NOV-17
Sodium (Na)-Dissolved		41300	42100		ug/L	1.9	20	28-NOV-17
Thallium (Tl)-Dissolved		0.025	0.024		ug/L	7.0	20	28-NOV-17
Uranium (U)-Dissolved		3.55	3.62		ug/L	1.9	20	28-NOV-17
Vanadium (V)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	28-NOV-17
Zinc (Zn)-Dissolved		4.8	4.8		ug/L	0.6	20	28-NOV-17
WG2672700-2 LCS								
Antimony (Sb)-Dissolved			99.6		%		80-120	28-NOV-17
Arsenic (As)-Dissolved			99.8		%		80-120	28-NOV-17
Barium (Ba)-Dissolved			98.5		%		80-120	28-NOV-17
Beryllium (Be)-Dissolved			88.7		%		80-120	28-NOV-17
Boron (B)-Dissolved			89.0		%		80-120	28-NOV-17
Cadmium (Cd)-Dissolved			98.6		%		80-120	28-NOV-17
Chromium (Cr)-Dissolved			100.1		%		80-120	28-NOV-17
Cobalt (Co)-Dissolved			97.0		%		80-120	28-NOV-17
Copper (Cu)-Dissolved			97.1		%		80-120	28-NOV-17
Lead (Pb)-Dissolved			103.4		%		80-120	28-NOV-17
Molybdenum (Mo)-Dissolved			97.8		%		80-120	28-NOV-17
Nickel (Ni)-Dissolved			98.4		%		80-120	28-NOV-17
Selenium (Se)-Dissolved			99.0		%		80-120	28-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R3897251								
WG2672700-2 LCS								
Silver (Ag)-Dissolved			95.4		%		80-120	28-NOV-17
Sodium (Na)-Dissolved			103.2		%		80-120	28-NOV-17
Thallium (Tl)-Dissolved			101.4		%		80-120	28-NOV-17
Uranium (U)-Dissolved			101.1		%		80-120	28-NOV-17
Vanadium (V)-Dissolved			99.6		%		80-120	28-NOV-17
Zinc (Zn)-Dissolved			93.1		%		80-120	28-NOV-17
WG2672700-1 MB								
Antimony (Sb)-Dissolved			<0.10		ug/L		0.1	28-NOV-17
Arsenic (As)-Dissolved			<0.10		ug/L		0.1	28-NOV-17
Barium (Ba)-Dissolved			<0.10		ug/L		0.1	28-NOV-17
Beryllium (Be)-Dissolved			<0.10		ug/L		0.1	28-NOV-17
Boron (B)-Dissolved			<10		ug/L		10	28-NOV-17
Cadmium (Cd)-Dissolved			<0.010		ug/L		0.01	28-NOV-17
Chromium (Cr)-Dissolved			<0.50		ug/L		0.5	28-NOV-17
Cobalt (Co)-Dissolved			<0.10		ug/L		0.1	28-NOV-17
Copper (Cu)-Dissolved			<0.20		ug/L		0.2	28-NOV-17
Lead (Pb)-Dissolved			<0.050		ug/L		0.05	28-NOV-17
Molybdenum (Mo)-Dissolved			<0.050		ug/L		0.05	28-NOV-17
Nickel (Ni)-Dissolved			<0.50		ug/L		0.5	28-NOV-17
Selenium (Se)-Dissolved			<0.050		ug/L		0.05	28-NOV-17
Silver (Ag)-Dissolved			<0.050		ug/L		0.05	28-NOV-17
Sodium (Na)-Dissolved			<500		ug/L		500	28-NOV-17
Thallium (Tl)-Dissolved			<0.010		ug/L		0.01	28-NOV-17
Uranium (U)-Dissolved			<0.010		ug/L		0.01	28-NOV-17
Vanadium (V)-Dissolved			<0.50		ug/L		0.5	28-NOV-17
Zinc (Zn)-Dissolved			<1.0		ug/L		1	28-NOV-17
WG2672700-5 MS		**WG2672700-3**						
Antimony (Sb)-Dissolved			95.6		%		70-130	28-NOV-17
Arsenic (As)-Dissolved			95.2		%		70-130	28-NOV-17
Barium (Ba)-Dissolved			N/A	MS-B	%		-	28-NOV-17
Beryllium (Be)-Dissolved			81.7		%		70-130	28-NOV-17
Boron (B)-Dissolved			N/A	MS-B	%		-	28-NOV-17
Cadmium (Cd)-Dissolved			93.2		%		70-130	28-NOV-17
Chromium (Cr)-Dissolved			92.4		%		70-130	28-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R3897251								
WG2672700-5 MS		**WG2672700-3**						
Cobalt (Co)-Dissolved			76.5		%		70-130	28-NOV-17
Lead (Pb)-Dissolved			90.4		%		70-130	28-NOV-17
Molybdenum (Mo)-Dissolved			86.4		%		70-130	28-NOV-17
Nickel (Ni)-Dissolved			79.3		%		70-130	28-NOV-17
Selenium (Se)-Dissolved			99.7		%		70-130	28-NOV-17
Silver (Ag)-Dissolved			89.2		%		70-130	28-NOV-17
Sodium (Na)-Dissolved			N/A	MS-B	%		-	28-NOV-17
Thallium (Tl)-Dissolved			88.6		%		70-130	28-NOV-17
Uranium (U)-Dissolved			N/A	MS-B	%		-	28-NOV-17
Vanadium (V)-Dissolved			95.2		%		70-130	28-NOV-17
Zinc (Zn)-Dissolved			70.6		%		70-130	28-NOV-17
PAH-511-WT	**Water**							
Batch R3898442								
WG2672751-2 LCS								
1-Methylnaphthalene			93.5		%		50-140	30-NOV-17
2-Methylnaphthalene			90.1		%		50-140	30-NOV-17
Acenaphthene			87.4		%		50-140	30-NOV-17
Acenaphthylene			96.3		%		50-140	30-NOV-17
Anthracene			91.7		%		50-140	30-NOV-17
Benzo(a)anthracene			98.5		%		50-140	30-NOV-17
Benzo(a)pyrene			86.7		%		50-140	30-NOV-17
Benzo(b)fluoranthene			78.9		%		50-140	30-NOV-17
Benzo(g,h,i)perylene			82.4		%		50-140	30-NOV-17
Benzo(k)fluoranthene			91.3		%		50-140	30-NOV-17
Chrysene			90.4		%		50-140	30-NOV-17
Dibenzo(ah)anthracene			80.4		%		50-140	30-NOV-17
Fluoranthene			94.7		%		50-140	30-NOV-17
Fluorene			93.6		%		50-140	30-NOV-17
Indeno(1,2,3-cd)pyrene			83.7		%		50-140	30-NOV-17
Naphthalene			95.0		%		50-140	30-NOV-17
Phenanthrene			89.5		%		50-140	30-NOV-17
Pyrene			90.7		%		50-140	30-NOV-17
WG2672751-3 LCSD		**WG2672751-2**						
1-Methylnaphthalene		93.5	95.3		%	1.8	50	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Water**							
Batch R3898442								
WG2672751-3 LCSD		**WG2672751-2**						
2-Methylnaphthalene		90.1	91.5		%	1.5	50	30-NOV-17
Acenaphthene		87.4	88.8		%	1.6	50	30-NOV-17
Acenaphthylene		96.3	97.5		%	1.2	50	30-NOV-17
Anthracene		91.7	98.2		%	6.9	50	30-NOV-17
Benzo(a)anthracene		98.5	99.0		%	0.5	50	30-NOV-17
Benzo(a)pyrene		86.7	87.4		%	0.8	50	30-NOV-17
Benzo(b)fluoranthene		78.9	78.5		%	0.5	50	30-NOV-17
Benzo(g,h,i)perylene		82.4	77.7		%	5.8	50	30-NOV-17
Benzo(k)fluoranthene		91.3	91.3		%	0.0	50	30-NOV-17
Chrysene		90.4	90.8		%	0.4	50	30-NOV-17
Dibenzo(ah)anthracene		80.4	77.9		%	3.2	50	30-NOV-17
Fluoranthene		94.7	94.6		%	0.1	50	30-NOV-17
Fluorene		93.6	94.6		%	1.1	50	30-NOV-17
Indeno(1,2,3-cd)pyrene		83.7	79.9		%	4.6	50	30-NOV-17
Naphthalene		95.0	95.9		%	0.9	50	30-NOV-17
Phenanthrene		89.5	90.9		%	1.6	50	30-NOV-17
Pyrene		90.7	91.3		%	0.7	50	30-NOV-17
WG2672751-1 MB								
1-Methylnaphthalene			<0.020		ug/L		0.02	30-NOV-17
2-Methylnaphthalene			<0.020		ug/L		0.02	30-NOV-17
Acenaphthene			<0.020		ug/L		0.02	30-NOV-17
Acenaphthylene			<0.020		ug/L		0.02	30-NOV-17
Anthracene			<0.020		ug/L		0.02	30-NOV-17
Benzo(a)anthracene			<0.020		ug/L		0.02	30-NOV-17
Benzo(a)pyrene			<0.010		ug/L		0.01	30-NOV-17
Benzo(b)fluoranthene			<0.020		ug/L		0.02	30-NOV-17
Benzo(g,h,i)perylene			<0.020		ug/L		0.02	30-NOV-17
Benzo(k)fluoranthene			<0.020		ug/L		0.02	30-NOV-17
Chrysene			<0.020		ug/L		0.02	30-NOV-17
Dibenzo(ah)anthracene			<0.020		ug/L		0.02	30-NOV-17
Fluoranthene			<0.020		ug/L		0.02	30-NOV-17
Fluorene			<0.020		ug/L		0.02	30-NOV-17
Indeno(1,2,3-cd)pyrene			<0.020		ug/L		0.02	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Water**							
Batch R3898442								
WG2672751-1 MB								
Naphthalene			<0.050		ug/L		0.05	30-NOV-17
Phenanthrene			<0.020		ug/L		0.02	30-NOV-17
Pyrene			<0.020		ug/L		0.02	30-NOV-17
Surrogate: 2-Fluorobiphenyl			81.1		%		60-140	30-NOV-17
Surrogate: d14-Terphenyl			80.7		%		60-140	30-NOV-17
PCB-511-WT	**Water**							
Batch R3896892								
WG2672465-2 LCS								
Aroclor 1242			87.1		%		60-140	28-NOV-17
Aroclor 1248			80.9		%		60-140	28-NOV-17
Aroclor 1254			105.1		%		60-140	28-NOV-17
Aroclor 1260			103.2		%		60-140	28-NOV-17
WG2672465-3 LCSD		**WG2672465-2**						
Aroclor 1242		87.1	89.4		%	2.6	50	28-NOV-17
Aroclor 1248		80.9	80.9		%	0.0	50	28-NOV-17
Aroclor 1254		105.1	104.7		%	0.4	50	28-NOV-17
Aroclor 1260		103.2	106.0		%	2.7	50	28-NOV-17
WG2672465-1 MB								
Aroclor 1242			<0.020		ug/L		0.02	28-NOV-17
Aroclor 1248			<0.020		ug/L		0.02	28-NOV-17
Aroclor 1254			<0.020		ug/L		0.02	28-NOV-17
Aroclor 1260			<0.020		ug/L		0.02	28-NOV-17
Surrogate: 2-fluorobiphenyl			80.9		%		50-150	28-NOV-17
VOC-511-HS-WT	**Water**							
Batch R3897796								
WG2672163-4 DUP		**WG2672163-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	29-NOV-17
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3897796								
WG2672163-4 DUP		**WG2672163-3**						
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	29-NOV-17
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	29-NOV-17
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	29-NOV-17
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	29-NOV-17
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	29-NOV-17
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	29-NOV-17
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	29-NOV-17
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	29-NOV-17
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	29-NOV-17
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	29-NOV-17
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	29-NOV-17
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	29-NOV-17
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	29-NOV-17
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	29-NOV-17
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	29-NOV-17
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	29-NOV-17
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-NOV-17
WG2672163-1 LCS								

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3897796								
WG2672163-1 LCS								
1,1,1,2-Tetrachloroethane			99.9		%		70-130	28-NOV-17
1,1,2,2-Tetrachloroethane			83.9		%		70-130	28-NOV-17
1,1,1-Trichloroethane			101.0		%		70-130	28-NOV-17
1,1,2-Trichloroethane			95.7		%		70-130	28-NOV-17
1,1-Dichloroethane			105.9		%		70-130	28-NOV-17
1,1-Dichloroethylene			91.6		%		70-130	28-NOV-17
1,2-Dibromoethane			94.2		%		70-130	28-NOV-17
1,2-Dichlorobenzene			102.7		%		70-130	28-NOV-17
1,2-Dichloroethane			100.0		%		70-130	28-NOV-17
1,2-Dichloropropane			101.3		%		70-130	28-NOV-17
1,3-Dichlorobenzene			103.1		%		70-130	28-NOV-17
1,4-Dichlorobenzene			105.8		%		70-130	28-NOV-17
Acetone			97.5		%		60-140	28-NOV-17
Benzene			102.0		%		70-130	28-NOV-17
Bromodichloromethane			99.0		%		70-130	28-NOV-17
Bromoform			91.7		%		70-130	28-NOV-17
Bromomethane			98.9		%		60-140	28-NOV-17
Carbon tetrachloride			100.2		%		70-130	28-NOV-17
Chlorobenzene			102.1		%		70-130	28-NOV-17
Chloroform			102.2		%		70-130	28-NOV-17
cis-1,2-Dichloroethylene			94.2		%		70-130	28-NOV-17
cis-1,3-Dichloropropene			91.6		%		70-130	28-NOV-17
Dibromochloromethane			100.5		%		70-130	28-NOV-17
Dichlorodifluoromethane			89.1		%		50-140	28-NOV-17
Ethylbenzene			94.4		%		70-130	28-NOV-17
n-Hexane			107.8		%		70-130	28-NOV-17
m+p-Xylenes			98.6		%		70-130	28-NOV-17
Methyl Ethyl Ketone			87.5		%		60-140	28-NOV-17
Methyl Isobutyl Ketone			81.4		%		60-140	28-NOV-17
Methylene Chloride			105.9		%		70-130	28-NOV-17
MTBE			100.0		%		70-130	28-NOV-17
o-Xylene			94.7		%		70-130	28-NOV-17
Styrene			98.9		%		70-130	28-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3897796								
WG2672163-1 LCS								
Tetrachloroethylene			99.3		%		70-130	28-NOV-17
Toluene			97.3		%		70-130	28-NOV-17
trans-1,2-Dichloroethylene			102.0		%		70-130	28-NOV-17
trans-1,3-Dichloropropene			91.0		%		70-130	28-NOV-17
Trichloroethylene			103.2		%		70-130	28-NOV-17
Trichlorofluoromethane			99.8		%		60-140	28-NOV-17
Vinyl chloride			95.1		%		60-140	28-NOV-17
WG2672163-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	29-NOV-17
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	29-NOV-17
1,1,1-Trichloroethane			<0.50		ug/L		0.5	29-NOV-17
1,1,2-Trichloroethane			<0.50		ug/L		0.5	29-NOV-17
1,1-Dichloroethane			<0.50		ug/L		0.5	29-NOV-17
1,1-Dichloroethylene			<0.50		ug/L		0.5	29-NOV-17
1,2-Dibromoethane			<0.20		ug/L		0.2	29-NOV-17
1,2-Dichlorobenzene			<0.50		ug/L		0.5	29-NOV-17
1,2-Dichloroethane			<0.50		ug/L		0.5	29-NOV-17
1,2-Dichloropropane			<0.50		ug/L		0.5	29-NOV-17
1,3-Dichlorobenzene			<0.50		ug/L		0.5	29-NOV-17
1,4-Dichlorobenzene			<0.50		ug/L		0.5	29-NOV-17
Acetone			<30		ug/L		30	29-NOV-17
Benzene			<0.50		ug/L		0.5	29-NOV-17
Bromodichloromethane			<2.0		ug/L		2	29-NOV-17
Bromoform			<5.0		ug/L		5	29-NOV-17
Bromomethane			<0.50		ug/L		0.5	29-NOV-17
Carbon tetrachloride			<0.20		ug/L		0.2	29-NOV-17
Chlorobenzene			<0.50		ug/L		0.5	29-NOV-17
Chloroform			<1.0		ug/L		1	29-NOV-17
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	29-NOV-17
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	29-NOV-17
Dibromochloromethane			<2.0		ug/L		2	29-NOV-17
Dichlorodifluoromethane			<2.0		ug/L		2	29-NOV-17
Ethylbenzene			<0.50		ug/L		0.5	29-NOV-17
n-Hexane			<0.50		ug/L		0.5	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3897796								
WG2672163-2 MB								
m+p-Xylenes			<0.40		ug/L		0.4	29-NOV-17
Methyl Ethyl Ketone			<20		ug/L		20	29-NOV-17
Methyl Isobutyl Ketone			<20		ug/L		20	29-NOV-17
Methylene Chloride			<5.0		ug/L		5	29-NOV-17
MTBE			<2.0		ug/L		2	29-NOV-17
o-Xylene			<0.30		ug/L		0.3	29-NOV-17
Styrene			<0.50		ug/L		0.5	29-NOV-17
Tetrachloroethylene			<0.50		ug/L		0.5	29-NOV-17
Toluene			<0.50		ug/L		0.5	29-NOV-17
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	29-NOV-17
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	29-NOV-17
Trichloroethylene			<0.50		ug/L		0.5	29-NOV-17
Trichlorofluoromethane			<5.0		ug/L		5	29-NOV-17
Vinyl chloride			<0.50		ug/L		0.5	29-NOV-17
Surrogate: 1,4-Difluorobenzene			101.4		%		70-130	29-NOV-17
Surrogate: 4-Bromofluorobenzene			95.6		%		70-130	29-NOV-17
WG2672163-5 MS		**WG2672163-3**						
1,1,1,2-Tetrachloroethane			98.7		%		50-140	29-NOV-17
1,1,2,2-Tetrachloroethane			86.8		%		50-140	29-NOV-17
1,1,1-Trichloroethane			100.0		%		50-140	29-NOV-17
1,1,2-Trichloroethane			96.1		%		50-140	29-NOV-17
1,1-Dichloroethane			98.8		%		50-140	29-NOV-17
1,1-Dichloroethylene			88.3		%		50-140	29-NOV-17
1,2-Dibromoethane			94.8		%		50-140	29-NOV-17
1,2-Dichlorobenzene			102.2		%		50-140	29-NOV-17
1,2-Dichloroethane			101.6		%		50-140	29-NOV-17
1,2-Dichloropropane			102.5		%		50-140	29-NOV-17
1,3-Dichlorobenzene			101.3		%		50-140	29-NOV-17
1,4-Dichlorobenzene			104.9		%		50-140	29-NOV-17
Acetone			102.1		%		50-140	29-NOV-17
Benzene			102.0		%		50-140	29-NOV-17
Bromodichloromethane			100.1		%		50-140	29-NOV-17
Bromoform			93.1		%		50-140	29-NOV-17
Bromomethane			91.8		%		50-140	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3897796								
WG2672163-5 MS		**WG2672163-3**						
Carbon tetrachloride			99.1		%		50-140	29-NOV-17
Chlorobenzene			101.6		%		50-140	29-NOV-17
Chloroform			102.1		%		50-140	29-NOV-17
cis-1,2-Dichloroethylene			94.2		%		50-140	29-NOV-17
cis-1,3-Dichloropropene			90.1		%		50-140	29-NOV-17
Dibromochloromethane			101.6		%		50-140	29-NOV-17
Dichlorodifluoromethane			78.6		%		50-140	29-NOV-17
Ethylbenzene			92.3		%		50-140	29-NOV-17
n-Hexane			103.6		%		50-140	29-NOV-17
m+p-Xylenes			96.8		%		50-140	29-NOV-17
Methyl Ethyl Ketone			90.7		%		50-140	29-NOV-17
Methyl Isobutyl Ketone			83.0		%		50-140	29-NOV-17
Methylene Chloride			103.8		%		50-140	29-NOV-17
MTBE			99.7		%		50-140	29-NOV-17
o-Xylene			92.8		%		50-140	29-NOV-17
Styrene			97.0		%		50-140	29-NOV-17
Tetrachloroethylene			97.0		%		50-140	29-NOV-17
Toluene			94.8		%		50-140	29-NOV-17
trans-1,2-Dichloroethylene			100.3		%		50-140	29-NOV-17
trans-1,3-Dichloropropene			87.8		%		50-140	29-NOV-17
Trichloroethylene			101.9		%		50-140	29-NOV-17
Trichlorofluoromethane			94.9		%		50-140	29-NOV-17
Vinyl chloride			88.3		%		50-140	29-NOV-17
Batch R3898485								
WG2672164-1 LCS								
cis-1,2-Dichloroethylene			94.1		%		70-130	29-NOV-17
Trichloroethylene			102.4		%		70-130	29-NOV-17
Vinyl chloride			92.3		%		60-140	29-NOV-17
WG2672164-2 MB								
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	30-NOV-17
Trichloroethylene			<0.50		ug/L		0.5	30-NOV-17
Vinyl chloride			<0.50		ug/L		0.5	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3898578								
WG2669859-4 DUP		**WG2669859-3**						
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
WG2669859-1 LCS								
Toluene			99.1		%		70-130	29-NOV-17
WG2669859-2 MB								
Toluene			<0.50		ug/L		0.5	29-NOV-17
WG2669859-5 MS		**WG2669859-3**						
Toluene			101.4		%		50-140	30-NOV-17

Quality Control Report

Workorder: L2027604 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

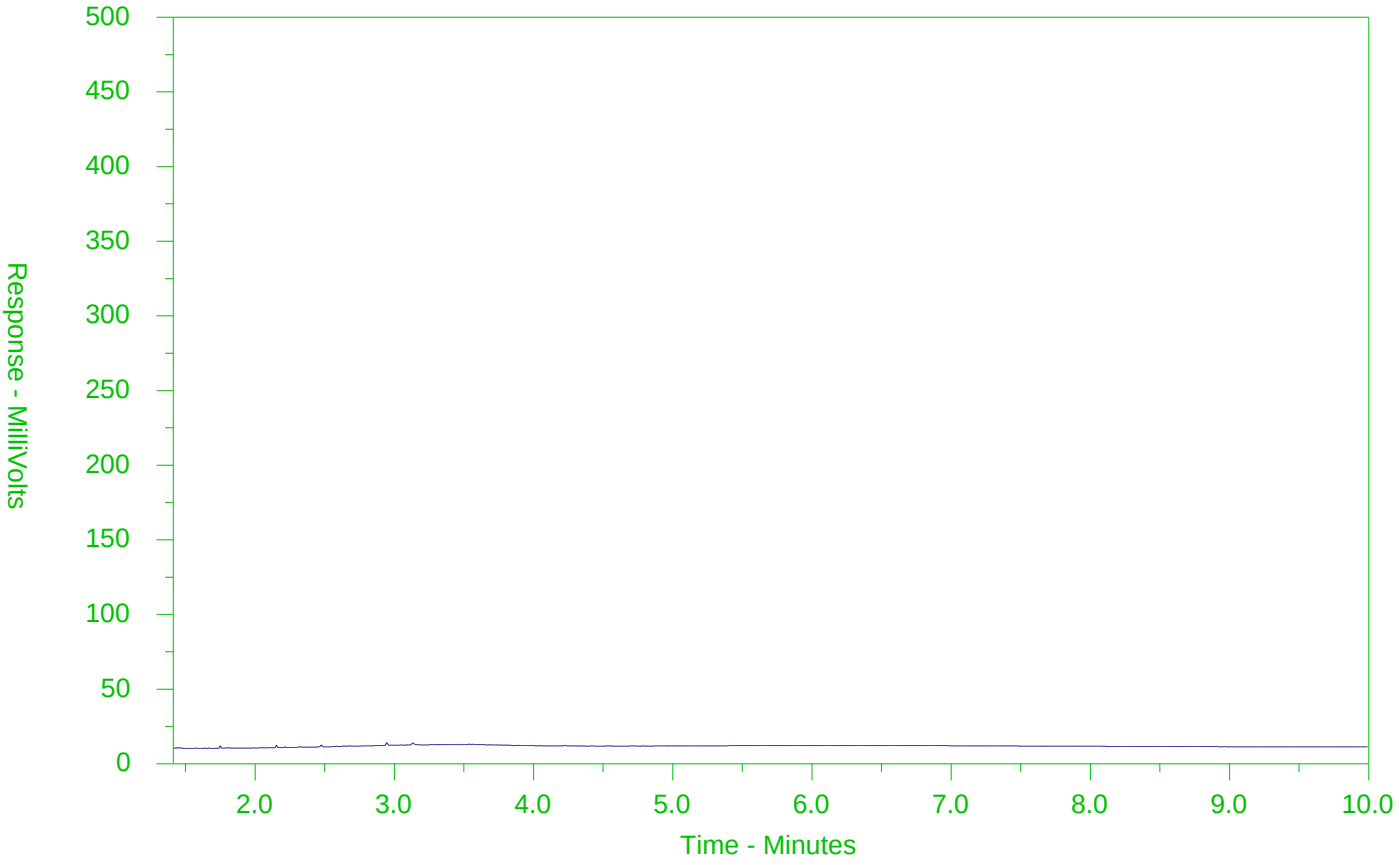
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2027604-1
Client Sample ID: BH101S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

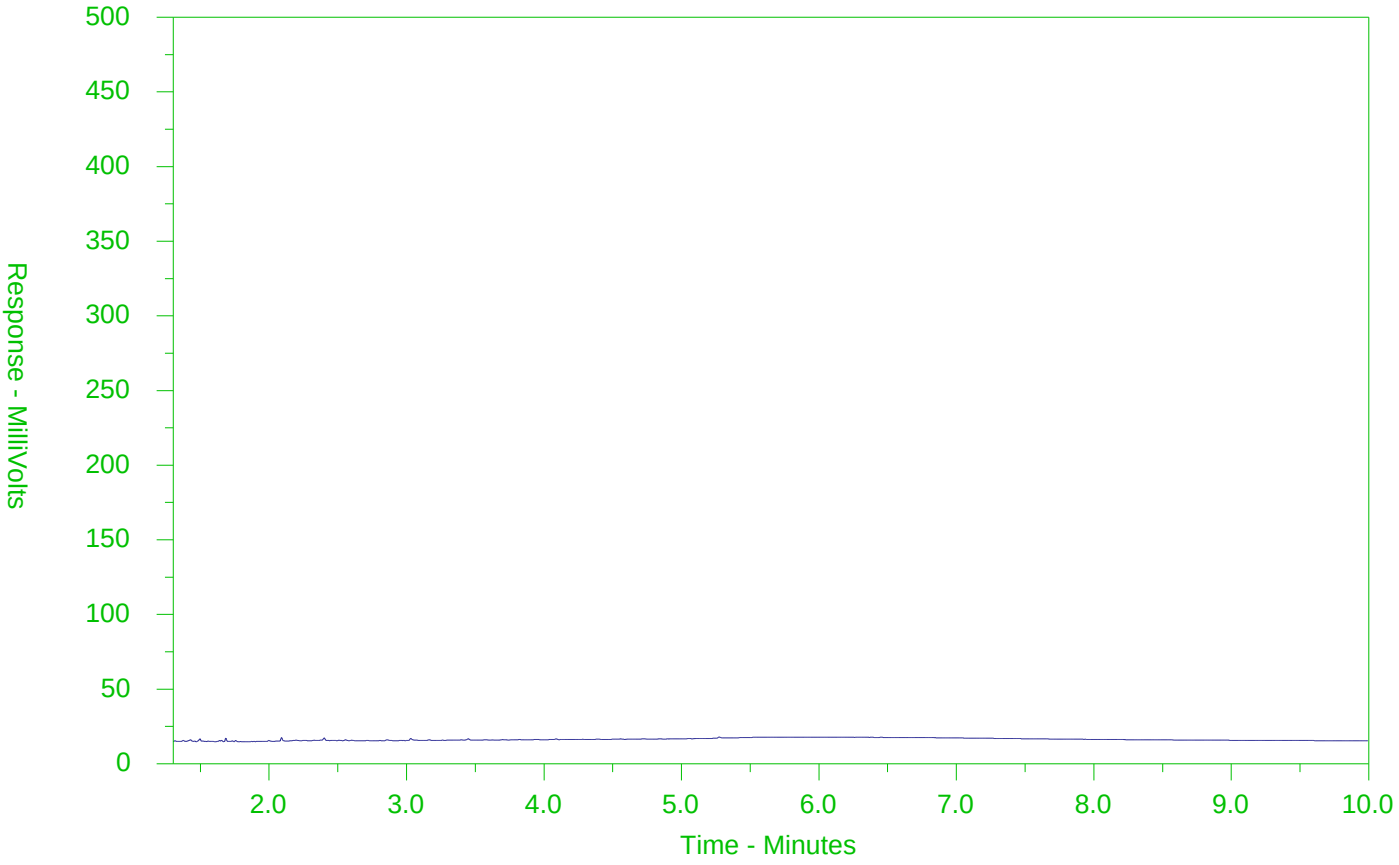
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2027604-2
Client Sample ID: BH102S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

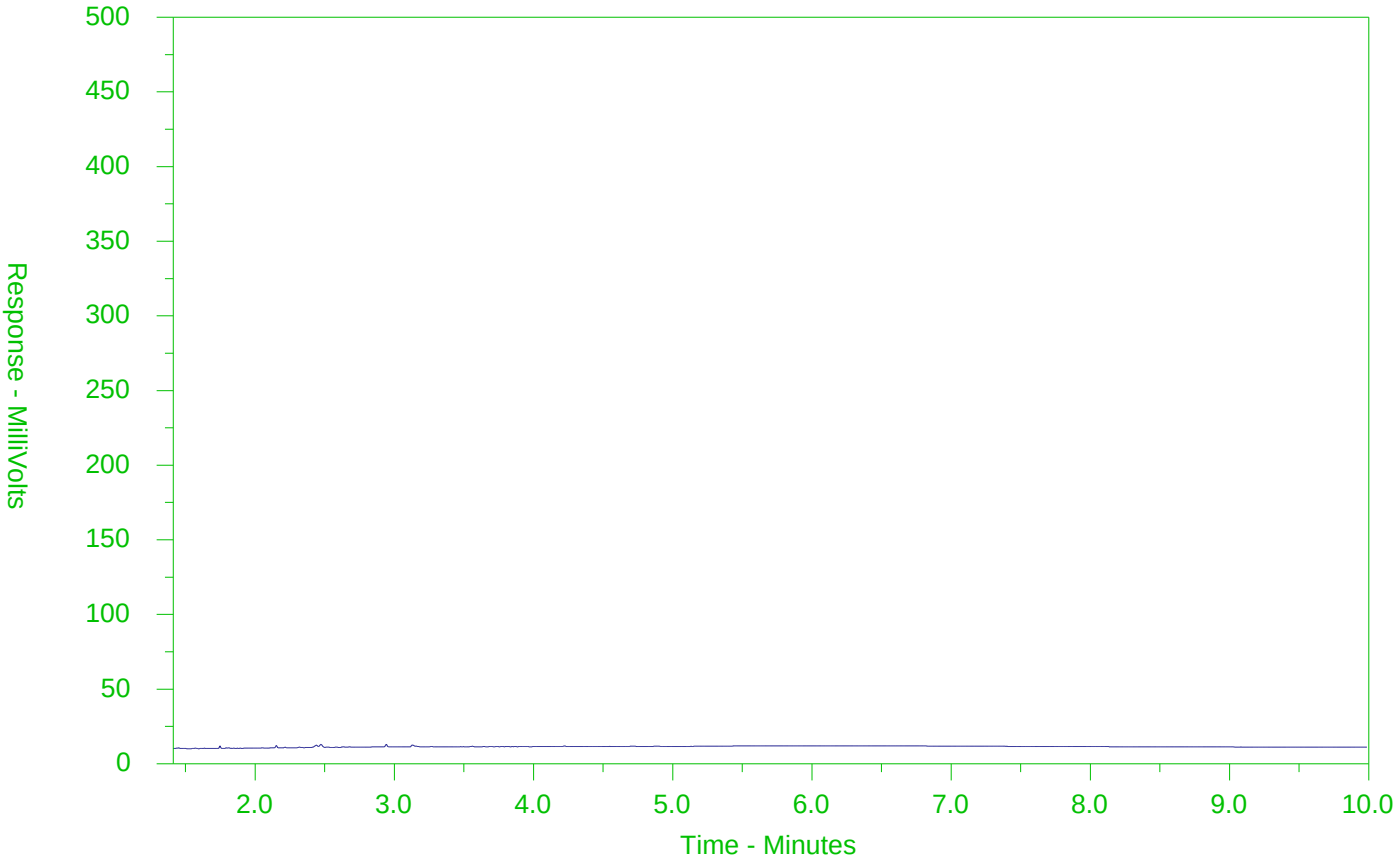
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2027604-3
Client Sample ID: BH103S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

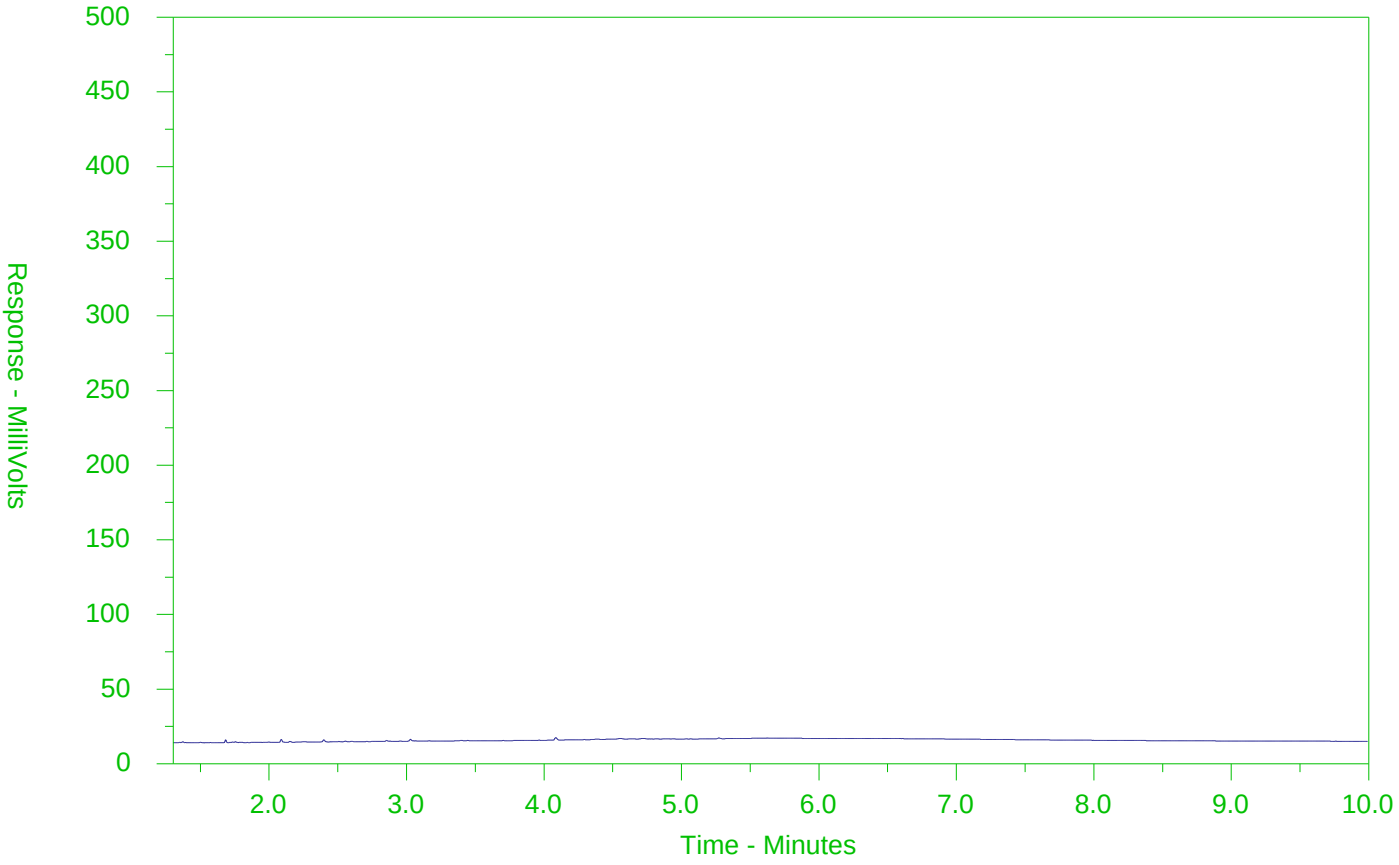
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2027604-4
Client Sample ID: BH104S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

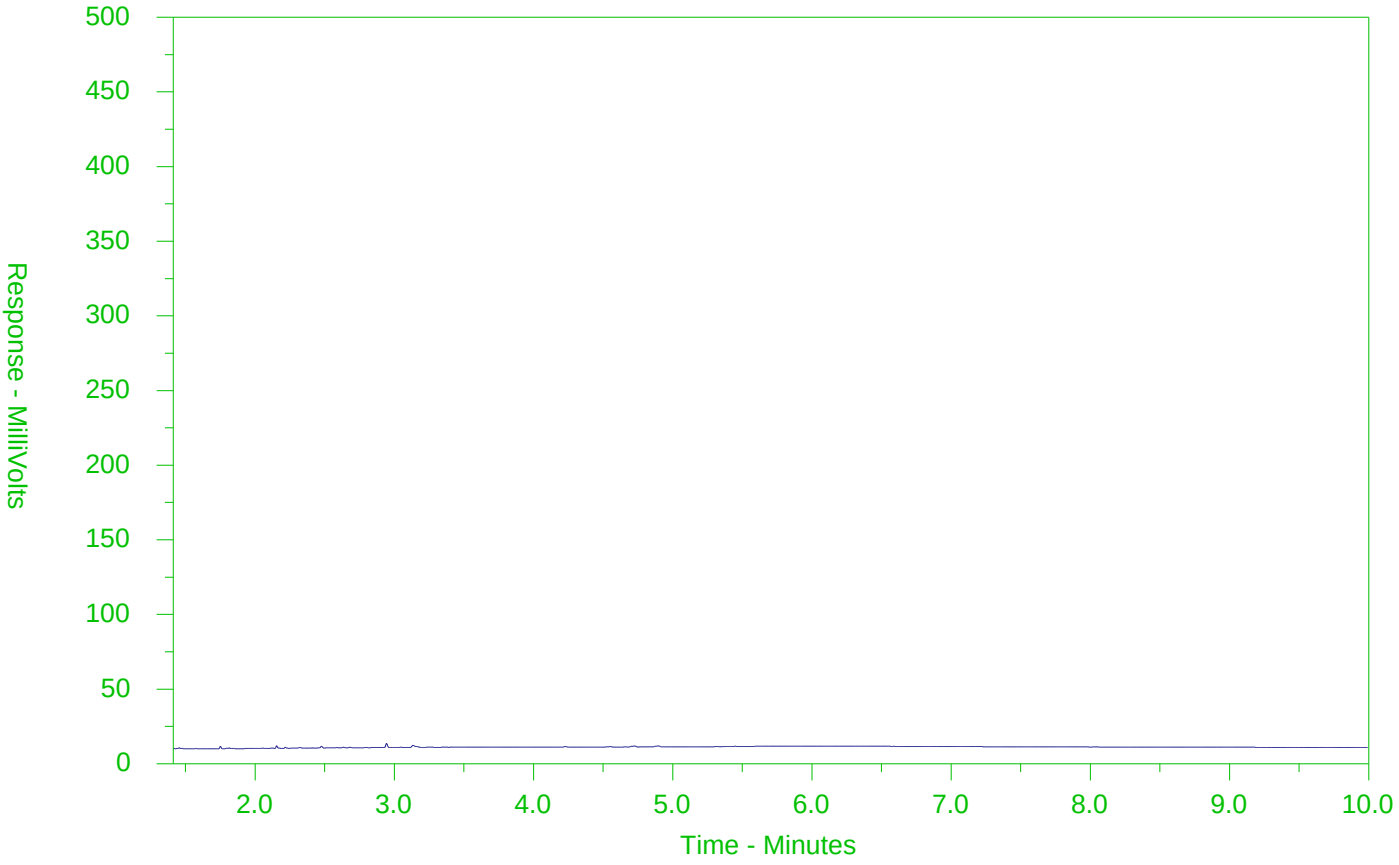
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2027604-6
Client Sample ID: BH106S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

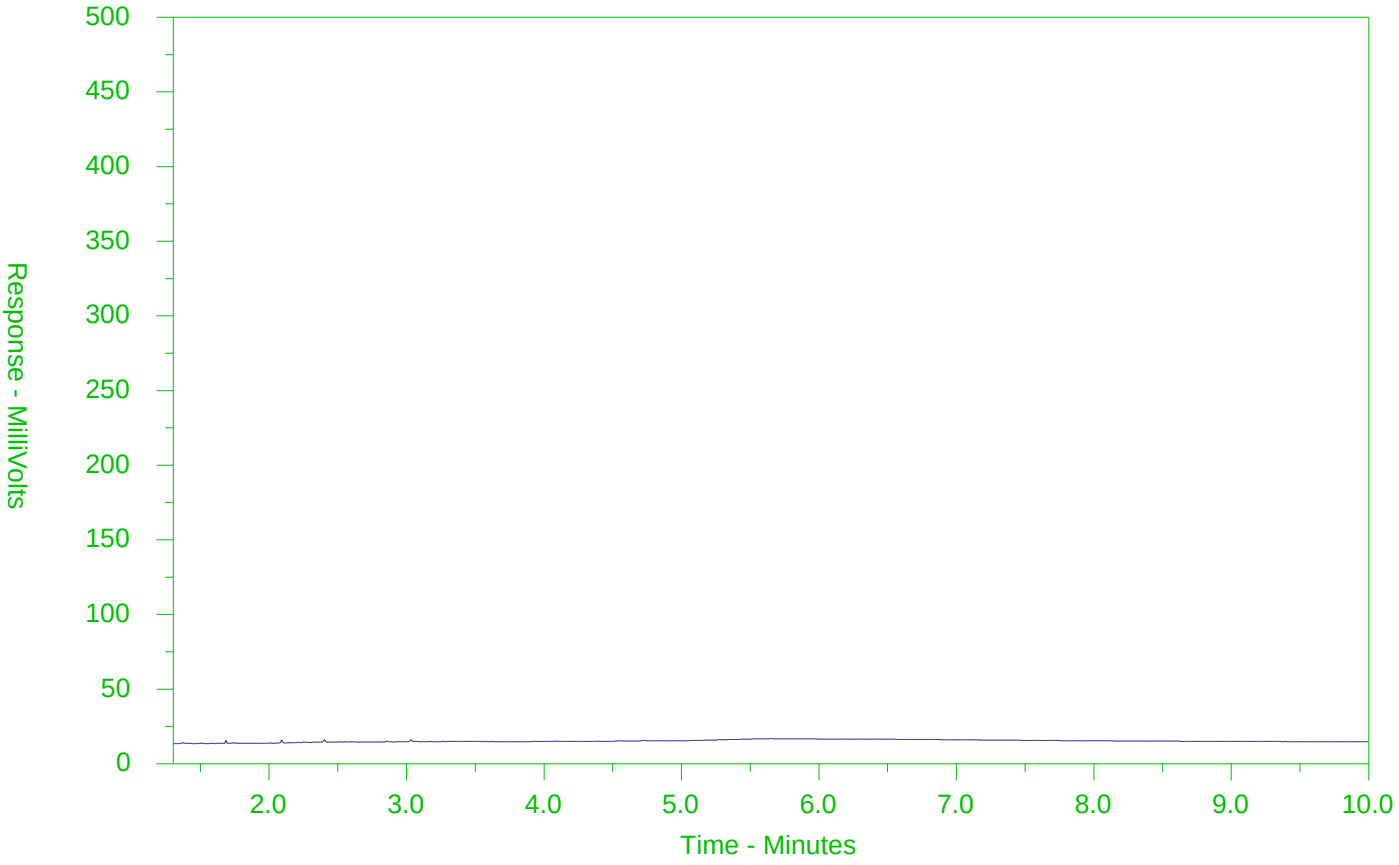
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2027604-10
Client Sample ID: BH113S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

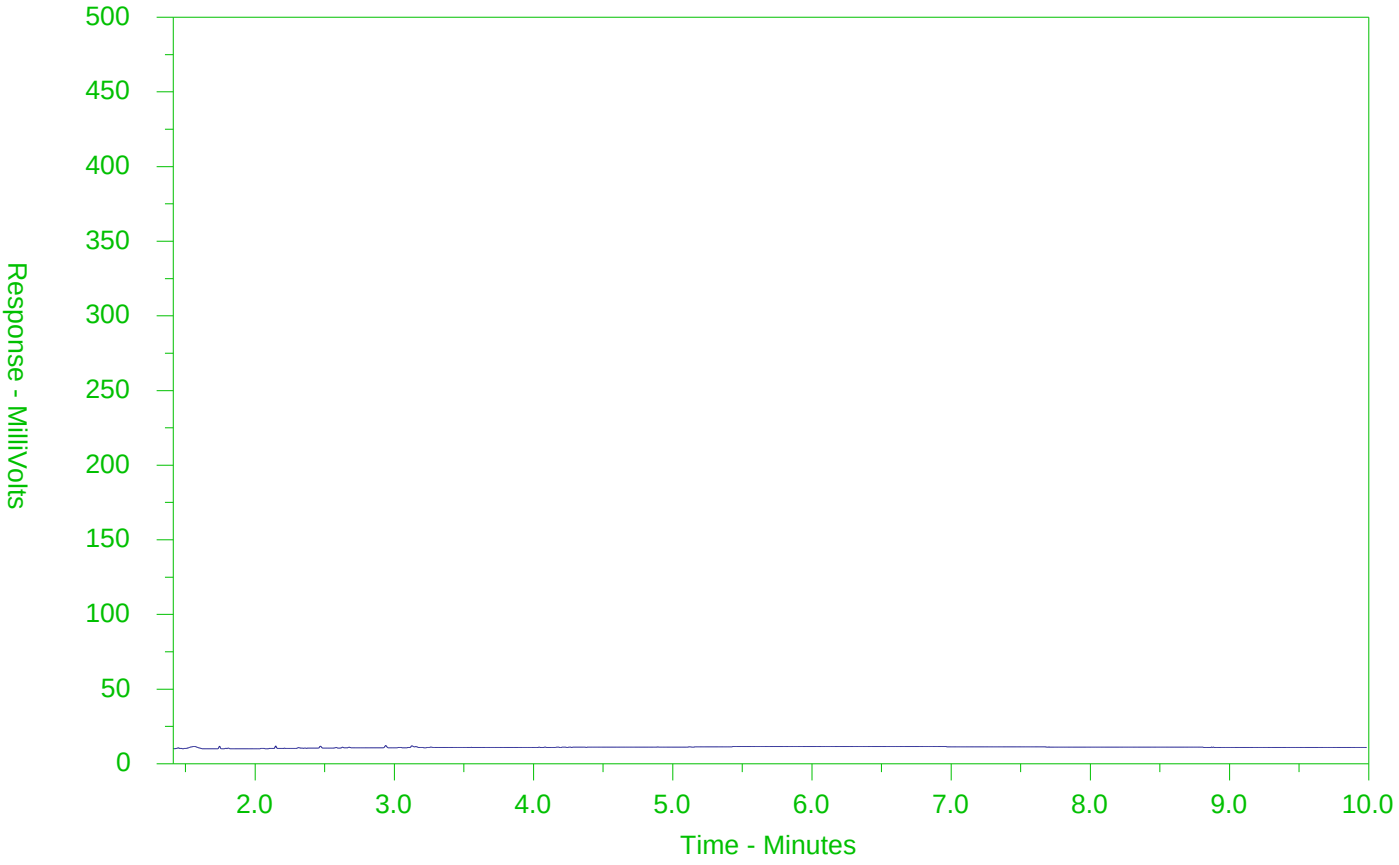
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2027604-12
Client Sample ID: BH3S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2027604-COFC

Number: 17 - 621036
Page 1 of 2

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	MTE Consultants	Select Report Format: [X] PDF [X] EXCEL | EDD (DIGITAL)	Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	Anthony Puntillo, Spencer Buck	Quality Control (QC) Report with Report [ ] YES [ ] NO	PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]
Phone:	905 639 2552	[ ] Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E-100%] [ ]; Same Day, Weekend or Statutory holiday [E2-200%] (Laboratory opening fees may apply) [ ]
	Company address below will appear on the final report	Select Distribution: [ ] EMAIL | [ ] MAIL [ ] FAX	
Street:	1016 Sutton Drive	Email 1 or Fax apuntillo@mtecs.com	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
City/Province:	Burlington	Email 2 sbuck@mtecs.com	For tests that can not be performed according to the service level selected, you will be contacted.
Postal Code:	L6L 6B8	Email 3 tjones@mtecs.com	
Invoice To	Same as Report To [ ] YES [ ] NO	Invoice Distribution	Analysis Request
	Copy of Invoice with Report [ ] YES [ ] NO	Select Invoice Distribution: [ ] EMAIL [ ] MAIL [ ] FAX	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
Company:	MTE	Email 1 or Fax	
Contact:	Accounts Payable	Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	38934-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):	L2027604	ALS Contact:	Sampler:

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	PHCs	VOCs	ABNs	Metals and ORPs	PCBs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
	BH101S	24-11-17	1300	GW	X	X	X					7
	BH102S		1130		X	X	X	X	X			12
	BH103S		1310		X	X			X			6
	BH104S		1640		X	X	X	X				10
	BH105S		1350			X						3
	BH106S		1170		X	X		X				6
	BH107S		1430			X						3
	BH110S		1240			X						3
	BH112S		1470			X	X	X				8
	BH113S		1230		X	X						4
	BH120S		1530			X						2
	BH35		1600		X	X		X				6

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [ ] NO	Table 3, Coarse, - Res
Are samples for human consumption/ use? [ ] YES [ ] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	[ ]	SIF Observations	Yes [ ]	No	[X]
Ice Packs	[ ]	Ice Cubes [X]	Custody seal intact	Yes [ ]	No [ ]
Cooling Initiated	[X]				

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
6.8°C				8.5			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date: 24/11/17	Time: 1730	Received by: W-DAVIS	Date: 24-NOV-17	Time: 18:36	Received by: AP	Date: 11-27-17	Time: 16:15

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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ALS 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com
Canada Toll Free: 1 800 668 9878

L2027604-COFC

C Number: 17 - 621038
Page 1 of 2

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	MTE Consultants	Select Report Format: [X] PDF [X] EXCEL | EDD (DIGITAL)	Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	Anthony Tumilio, Spencer Buck	Quality Control (QC) Report with Report [ ] YES [ ] NO	PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]
Phone:	905-632-2552	[ ] Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E-100%] [ ]; Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] [ ]
	Company address below will appear on the final report	Select Distribution: [ ] EMAIL | [ ] MAIL [ ] FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:	1016 Sutton Drive	Email 1 or Fax: apumilio@mte85.com	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:	Burlington	Email 2: sbuck@mte85.com	
Postal Code:	L6L 6B8	Email 3: tjones@mte85.com	
Invoice To	Same as Report To [ ] YES [ ] NO	Invoice Distribution	Analysis Request
	Copy of Invoice with Report [ ] YES [ ] NO	Select Invoice Distribution: [ ] EMAIL [ ] MAIL [ ] FAX	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
Company:	MTE Accounts Payable	Email 1 or Fax	
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	38934-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):	L2027604	ALS Contact:	Sampler:

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	VOCs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
	BH100	24-11-17	1240	GW	X			2
	BH130	24-11-17	1230	GW	X			2
	Trip Blank	—	—	W	X			2

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [ ] NO	Table 3, Res, Coarse
Are samples for human consumption/ use? [ ] YES [ ] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	[ ]	SIF Observations	Yes [ ]	No	[X]
Ice Packs	[ ]	Ice Cubes [X]	Custody seal intact	Yes [ ]	No [ ]
Cooling Initiated	[X]				

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
6.8				8.5			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date: 24-11-17	Time: 1730	Received by: W. DAVIS	Date: 24-Nov-17	Time: 18:36	Received by: AP	Date: 11-27-17	Time: 16:15

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

MTE CONSULTANTS INC.
ATTN: Anthony Puntillo
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8

Date Received: 28-NOV-17
Report Date: 06-DEC-17 13:37 (MT)
Version: FINAL

Client Phone: 905-639-2552

Certificate of Analysis

Lab Work Order #: L2028320

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 17-621042, 17-921043
Legal Site Desc:

Mary-Lynn Pike
Client Services Supervisor

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Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2028320-1 BH117S						
Sampled By: CLIENT on 27-NOV-17 @ 09:30						
Matrix: WATER						
Volatile Organic Compounds						
Acetone	<30		30	ug/L	30-NOV-17	2700
Benzene	0.50		0.50	ug/L	30-NOV-17	5
Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
1,1-Dichloroethane	0.98		0.50	ug/L	30-NOV-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
1,1-Dichloroethylene	3.58		0.50	ug/L	30-NOV-17	14
cis-1,2-Dichloroethylene	342		0.50	ug/L	30-NOV-17	*17
trans-1,2-Dichloroethylene	19.7		0.50	ug/L	30-NOV-17	*17
Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
MTBE	<2.0		2.0	ug/L	30-NOV-17	15
Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
Toluene	<0.50		0.50	ug/L	30-NOV-17	24
1,1,1-Trichloroethane	<8.0	DLQ	8.0	ug/L	30-NOV-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
Trichloroethylene	1250	DLHC	5.0	ug/L	01-DEC-17	*5
Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
Vinyl chloride	27.0		0.50	ug/L	30-NOV-17	*1.7
o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
Surrogate: 4-Bromofluorobenzene	96.5		70-130	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	99.6		70-130	%	30-NOV-17	
Hydrocarbons						
F1 (C6-C10)	273		25	ug/L	30-NOV-17	750

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-1	BH117S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Hydrocarbons							
	F1-BTEX	272		25	ug/L	05-DEC-17	750
	F2 (C10-C16)	<100		100	ug/L	01-DEC-17	150
	F3 (C16-C34)	<250		250	ug/L	01-DEC-17	500
	F4 (C34-C50)	<250		250	ug/L	01-DEC-17	500
	Total Hydrocarbons (C6-C50)	<370		370	ug/L	05-DEC-17	
	Chrom. to baseline at nC50	YES			No Unit	01-DEC-17	
	Surrogate: 2-Bromobenzotrifluoride	87.6		60-140	%	01-DEC-17	
	Surrogate: 3,4-Dichlorotoluene	97.3		60-140	%	30-NOV-17	
L2028320-2	BH6S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700
	Benzene	<0.50		0.50	ug/L	30-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
	1,1-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,1-Dichloroethylene	<0.50		0.50	ug/L	30-NOV-17	14
	cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-NOV-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
	MTBE	<2.0		2.0	ug/L	30-NOV-17	15
	Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-2	BH6S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Toluene	<0.50		0.50	ug/L	30-NOV-17	24
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	Trichloroethylene	<0.50		0.50	ug/L	30-NOV-17	5
	Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
	Vinyl chloride	<0.50		0.50	ug/L	30-NOV-17	1.7
	o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	30-NOV-17	300
	Surrogate: 4-Bromofluorobenzene	95.4		70-130	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	99.7		70-130	%	30-NOV-17	
L2028320-3	BH7S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700
	Benzene	<0.50		0.50	ug/L	30-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
	1,1-Dichloroethane	0.94		0.50	ug/L	30-NOV-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,1-Dichloroethylene	5.65		0.50	ug/L	30-NOV-17	14
	cis-1,2-Dichloroethylene	427		0.50	ug/L	30-NOV-17	*17
	trans-1,2-Dichloroethylene	5.24		0.50	ug/L	30-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
	MTBE	<2.0		2.0	ug/L	30-NOV-17	15
	Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-3	BH7S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
	Tetrachloroethylene	10.2		0.50	ug/L	30-NOV-17	17
	Toluene	<0.50		0.50	ug/L	30-NOV-17	24
	1,1,1-Trichloroethane	<10	DLQ	10	ug/L	30-NOV-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	Trichloroethylene	4620	DLHC	25	ug/L	01-DEC-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
	Vinyl chloride	21.7		0.50	ug/L	30-NOV-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	95.5		70-130	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	100.1		70-130	%	30-NOV-17	
L2028320-4	BH8S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700
	Benzene	1.69		0.50	ug/L	30-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
	1,1-Dichloroethane	6.53		0.50	ug/L	30-NOV-17	*5
	1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,1-Dichloroethylene	55.4		0.50	ug/L	30-NOV-17	*14
	cis-1,2-Dichloroethylene	7180	DLHC	100	ug/L	01-DEC-17	*17
	trans-1,2-Dichloroethylene	48.7		0.50	ug/L	30-NOV-17	*17
	Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-4 BH8S						
Sampled By: CLIENT on 27-NOV-17 @ 09:30						
Matrix: WATER						#1
Volatile Organic Compounds						
Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
MTBE	<2.0		2.0	ug/L	30-NOV-17	15
Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
Toluene	<0.70	RRR	0.70	ug/L	30-NOV-17	24
1,1,1-Trichloroethane	<170	DLQ	170	ug/L	01-DEC-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
Trichloroethylene	25500	DLHC	100	ug/L	01-DEC-17	*5
Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
Vinyl chloride	415		0.50	ug/L	30-NOV-17	*1.7
o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
Surrogate: 4-Bromofluorobenzene	94.8		70-130	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	99.1		70-130	%	30-NOV-17	
L2028320-5 BH9S						
Sampled By: CLIENT on 27-NOV-17 @ 09:30						
Matrix: WATER						#1
Volatile Organic Compounds						
Acetone	<30		30	ug/L	30-NOV-17	2700
Benzene	<0.50		0.50	ug/L	30-NOV-17	5
Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
1,1-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
1,1-Dichloroethylene	1.97		0.50	ug/L	30-NOV-17	14
cis-1,2-Dichloroethylene	76.3	DLHC	5.0	ug/L	01-DEC-17	*17
trans-1,2-Dichloroethylene	1.72		0.50	ug/L	30-NOV-17	17
Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-5	BH9S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
	MTBE	<2.0		2.0	ug/L	30-NOV-17	15
	Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	Toluene	<0.50		0.50	ug/L	30-NOV-17	24
	1,1,1-Trichloroethane	<2.0	DLQ	2.0	ug/L	30-NOV-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	Trichloroethylene	1270	DLHC	5.0	ug/L	01-DEC-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
	Vinyl chloride	5.32		0.50	ug/L	30-NOV-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	95.5		70-130	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	99.6		70-130	%	30-NOV-17	
L2028320-6	BH10S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700
	Benzene	<0.50		0.50	ug/L	30-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
	1,1-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,1-Dichloroethylene	4.33		0.50	ug/L	30-NOV-17	14
	cis-1,2-Dichloroethylene	1740	DLHC	5.0	ug/L	01-DEC-17	*17
	trans-1,2-Dichloroethylene	2.00		0.50	ug/L	30-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-6	BH10S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
	MTBE	<2.0		2.0	ug/L	30-NOV-17	15
	Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	Toluene	<0.50		0.50	ug/L	30-NOV-17	24
	1,1,1-Trichloroethane	<38	DLQ	38	ug/L	30-NOV-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	Trichloroethylene	6.4	DLHC	5.0	ug/L	01-DEC-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
	Vinyl chloride	5.85		0.50	ug/L	30-NOV-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	95.1		70-130	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	99.2		70-130	%	30-NOV-17	
L2028320-7	BH22S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700
	Benzene	<0.50		0.50	ug/L	30-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
	1,1-Dichloroethane	1.61		0.50	ug/L	30-NOV-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,1-Dichloroethylene	2.37		0.50	ug/L	30-NOV-17	14
	cis-1,2-Dichloroethylene	544	DLHC	2.5	ug/L	01-DEC-17	*17

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-7	BH22S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	trans-1,2-Dichloroethylene	4.22		0.50	ug/L	30-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
	MTBE	<2.0		2.0	ug/L	30-NOV-17	15
	Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	Toluene	<0.50		0.50	ug/L	30-NOV-17	24
	1,1,1-Trichloroethane	<13	DLQ	13	ug/L	30-NOV-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	Trichloroethylene	102		0.50	ug/L	30-NOV-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
	Vinyl chloride	227		0.50	ug/L	30-NOV-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	94.5		70-130	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	99.1		70-130	%	30-NOV-17	
L2028320-8	BH41U						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700
	Benzene	<0.50		0.50	ug/L	30-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
	1,1-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-8	BH41U						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,1-Dichloroethylene	<0.50		0.50	ug/L	30-NOV-17	14
	cis-1,2-Dichloroethylene	183		0.50	ug/L	30-NOV-17	*17
	trans-1,2-Dichloroethylene	1.87		0.50	ug/L	30-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-NOV-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
	MTBE	<2.0		2.0	ug/L	30-NOV-17	15
	Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	Toluene	<0.50		0.50	ug/L	30-NOV-17	24
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	Trichloroethylene	<0.50		0.50	ug/L	30-NOV-17	5
	Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
	Vinyl chloride	152		0.50	ug/L	30-NOV-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	30-NOV-17	300
	Surrogate: 4-Bromofluorobenzene	103.1		70-130	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	101.8		70-130	%	30-NOV-17	
Hydrocarbons							
	F1 (C6-C10)	<25		25	ug/L	30-NOV-17	750
	F1-BTEX	<25		25	ug/L	05-DEC-17	750
	F2 (C10-C16)	<100		100	ug/L	01-DEC-17	150
	F3 (C16-C34)	<250		250	ug/L	01-DEC-17	500
	F4 (C34-C50)	<250		250	ug/L	01-DEC-17	500
	Total Hydrocarbons (C6-C50)	<370		370	ug/L	05-DEC-17	
	Chrom. to baseline at nC50	YES			No Unit	01-DEC-17	
	Surrogate: 2-Bromobenzotrifluoride	86.7		60-140	%	01-DEC-17	
	Surrogate: 3,4-Dichlorotoluene	82.9		60-140	%	30-NOV-17	
L2028320-9	BH41S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700
	Benzene	1.03		0.50	ug/L	30-NOV-17	5

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-9	BH41S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
	1,1-Dichloroethane	2.60		0.50	ug/L	30-NOV-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,1-Dichloroethylene	44.6		0.50	ug/L	30-NOV-17	*14
	cis-1,2-Dichloroethylene	18400	DLHC	63	ug/L	01-DEC-17	*17
	trans-1,2-Dichloroethylene	59.5		0.50	ug/L	30-NOV-17	*17
	Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
	MTBE	<2.0		2.0	ug/L	30-NOV-17	15
	Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	Toluene	<0.50		0.50	ug/L	30-NOV-17	24
	1,1,1-Trichloroethane	<430	DLQ	430	ug/L	01-DEC-17	**200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	Trichloroethylene	6230	DLHC	63	ug/L	01-DEC-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
	Vinyl chloride	4090	DLHC	63	ug/L	01-DEC-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	93.2		70-130	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	99.0		70-130	%	30-NOV-17	
Polycyclic Aromatic Hydrocarbons							
	Acenaphthene	<0.020		0.020	ug/L	30-NOV-17	4.1
	Acenaphthylene	<0.020		0.020	ug/L	30-NOV-17	1
	Anthracene	<0.020		0.020	ug/L	30-NOV-17	2.4

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2028320-9 BH41S						
Sampled By: CLIENT on 27-NOV-17 @ 09:30						
Matrix: WATER						
Polycyclic Aromatic Hydrocarbons						
Benzo(a)anthracene	<0.020		0.020	ug/L	30-NOV-17	1
Benzo(a)pyrene	<0.010		0.010	ug/L	30-NOV-17	0.01
Benzo(b)fluoranthene	<0.020		0.020	ug/L	30-NOV-17	0.1
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	30-NOV-17	0.2
Benzo(k)fluoranthene	<0.020		0.020	ug/L	30-NOV-17	0.1
Chrysene	<0.020		0.020	ug/L	30-NOV-17	0.1
Dibenzo(ah)anthracene	<0.020		0.020	ug/L	30-NOV-17	0.2
Fluoranthene	<0.020		0.020	ug/L	30-NOV-17	0.41
Fluorene	<0.020		0.020	ug/L	30-NOV-17	120
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	30-NOV-17	0.2
1+2-Methylnaphthalenes	<0.028		0.028	ug/L	04-DEC-17	3.2
1-Methylnaphthalene	<0.020		0.020	ug/L	30-NOV-17	3.2
2-Methylnaphthalene	<0.020		0.020	ug/L	30-NOV-17	3.2
Naphthalene	<0.050		0.050	ug/L	30-NOV-17	11
Phenanthrene	<0.020		0.020	ug/L	30-NOV-17	1
Pyrene	<0.020		0.020	ug/L	30-NOV-17	4.1
Surrogate: d10-Acenaphthene	92.3		60-140	%	30-NOV-17	
Surrogate: d12-Chrysene	83.6		60-140	%	30-NOV-17	
Surrogate: d8-Naphthalene	94.3		60-140	%	30-NOV-17	
Surrogate: d10-Phenanthrene	91.0		60-140	%	30-NOV-17	
Semi-Volatile Organics						
Biphenyl	<0.40		0.40	ug/L	04-DEC-17	0.5
4-Chloroaniline	<0.40		0.40	ug/L	04-DEC-17	10
Bis(2-chloroethyl)ether	<0.40		0.40	ug/L	04-DEC-17	5
Bis(2-chloroisopropyl)ether	<0.40		0.40	ug/L	04-DEC-17	120
2-Chlorophenol	<0.30		0.30	ug/L	04-DEC-17	8.9
3,3'-Dichlorobenzidine	<0.40		0.40	ug/L	04-DEC-17	0.5
2,4-Dichlorophenol	<0.30		0.30	ug/L	04-DEC-17	20
Diethylphthalate	<0.20		0.20	ug/L	04-DEC-17	38
Dimethylphthalate	<0.20		0.20	ug/L	04-DEC-17	38
2,4-Dimethylphenol	<0.50		0.50	ug/L	04-DEC-17	59
2,4-Dinitrophenol	<1.0		1.0	ug/L	04-DEC-17	10
2,4-Dinitrotoluene	<0.40		0.40	ug/L	04-DEC-17	
2,6-Dinitrotoluene	<0.40		0.40	ug/L	04-DEC-17	
2,4+2,6-Dinitrotoluene	<0.57		0.57	ug/L	04-DEC-17	5
Bis(2-ethylhexyl)phthalate	<2.0		2.0	ug/L	04-DEC-17	10
Pentachlorophenol	<0.50		0.50	ug/L	04-DEC-17	30
Phenol	<0.50		0.50	ug/L	04-DEC-17	890
1,2,4-Trichlorobenzene	<0.40		0.40	ug/L	04-DEC-17	70
2,4,5-Trichlorophenol	<0.20		0.20	ug/L	04-DEC-17	8.9
2,4,6-Trichlorophenol	<0.20		0.20	ug/L	04-DEC-17	2
Surrogate: 2-Fluorobiphenyl	90.7		50-140	%	04-DEC-17	
Surrogate: Nitrobenzene d5	94.6		50-140	%	04-DEC-17	
Surrogate: Phenol d5	46.0		30-130	%	04-DEC-17	
Surrogate: p-Terphenyl d14	76.9		60-140	%	04-DEC-17	
Surrogate: 2,4,6-Tribromophenol	115.1		50-140	%	04-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-10	BH42U						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700
	Benzene	<0.50		0.50	ug/L	30-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
	1,1-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,1-Dichloroethylene	<0.50		0.50	ug/L	30-NOV-17	14
	cis-1,2-Dichloroethylene	411		0.50	ug/L	01-DEC-17	*17
	trans-1,2-Dichloroethylene	2.76		0.50	ug/L	30-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
	MTBE	<2.0		2.0	ug/L	30-NOV-17	15
	Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	Toluene	<0.50		0.50	ug/L	30-NOV-17	24
	1,1,1-Trichloroethane	<9.5	DLQ	9.5	ug/L	01-DEC-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	Trichloroethylene	4.56		0.50	ug/L	01-DEC-17	5
	Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
	Vinyl chloride	23.2		0.50	ug/L	01-DEC-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	94.1		70-130	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	99.4		70-130	%	30-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2028320-11	BH42S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700
	Benzene	<0.50		0.50	ug/L	30-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
	1,1-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,1-Dichloroethylene	<0.50		0.50	ug/L	30-NOV-17	14
	cis-1,2-Dichloroethylene	12.1		0.50	ug/L	01-DEC-17	17
	trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
	MTBE	<2.0		2.0	ug/L	30-NOV-17	15
	Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	Toluene	<0.50		0.50	ug/L	30-NOV-17	24
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	Trichloroethylene	<0.50		0.50	ug/L	01-DEC-17	5
	Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
	Vinyl chloride	0.77		0.50	ug/L	01-DEC-17	1.7
	o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	93.7		70-130	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	99.0		70-130	%	30-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-12	BH43U						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700
	Benzene	<0.50		0.50	ug/L	30-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
	1,1-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,1-Dichloroethylene	<0.50		0.50	ug/L	30-NOV-17	14
	cis-1,2-Dichloroethylene	30.8		0.50	ug/L	30-NOV-17	*17
	trans-1,2-Dichloroethylene	2.32		0.50	ug/L	30-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-NOV-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
	MTBE	<2.0		2.0	ug/L	30-NOV-17	15
	Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	Toluene	<0.50		0.50	ug/L	30-NOV-17	24
	1,1,1-Trichloroethane	<0.75	DLQ	0.75	ug/L	30-NOV-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	Trichloroethylene	50.5		0.50	ug/L	30-NOV-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
	Vinyl chloride	1.23		0.50	ug/L	30-NOV-17	1.7
	o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	30-NOV-17	300
	Surrogate: 4-Bromofluorobenzene	93.9		70-130	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	99.3		70-130	%	30-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-13	BH43S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700
	Benzene	<0.50		0.50	ug/L	30-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
	1,1-Dichloroethane	1.40		0.50	ug/L	30-NOV-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,1-Dichloroethylene	6.56		0.50	ug/L	30-NOV-17	14
	cis-1,2-Dichloroethylene	511	DLHC	13	ug/L	01-DEC-17	*17
	trans-1,2-Dichloroethylene	5.16		0.50	ug/L	30-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
	MTBE	<2.0		2.0	ug/L	30-NOV-17	15
	Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
	Tetrachloroethylene	0.77		0.50	ug/L	30-NOV-17	17
	Toluene	<0.50		0.50	ug/L	30-NOV-17	24
	1,1,1-Trichloroethane	<12	DLQ	12	ug/L	30-NOV-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	Trichloroethylene	5070	DLHC	13	ug/L	01-DEC-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
	Vinyl chloride	101		0.50	ug/L	30-NOV-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	94.5		70-130	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	98.3		70-130	%	30-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-14	BH46S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Dissolved Metals							
	Dissolved Mercury Filtration Location	FIELD			No Unit	01-DEC-17	
	Dissolved Metals Filtration Location	FIELD			No Unit	29-NOV-17	
	Antimony (Sb)-Dissolved	<1.0	DLHC	1.0	ug/L	29-NOV-17	6
	Arsenic (As)-Dissolved	1.9	DLHC	1.0	ug/L	29-NOV-17	25
	Barium (Ba)-Dissolved	17.0	DLHC	1.0	ug/L	29-NOV-17	1000
	Beryllium (Be)-Dissolved	<1.0	DLHC	1.0	ug/L	29-NOV-17	4
	Boron (B)-Dissolved	620	DLHC	100	ug/L	29-NOV-17	5000
	Cadmium (Cd)-Dissolved	<0.10	DLHC	0.10	ug/L	29-NOV-17	2.7
	Chromium (Cr)-Dissolved	<5.0	DLHC	5.0	ug/L	29-NOV-17	50
	Cobalt (Co)-Dissolved	<1.0	DLHC	1.0	ug/L	29-NOV-17	3.8
	Copper (Cu)-Dissolved	<2.0	DLHC	2.0	ug/L	29-NOV-17	87
	Lead (Pb)-Dissolved	<0.50	DLHC	0.50	ug/L	29-NOV-17	10
	Mercury (Hg)-Dissolved	<0.010		0.010	ug/L	01-DEC-17	1
	Molybdenum (Mo)-Dissolved	3.24	DLHC	0.50	ug/L	29-NOV-17	70
	Nickel (Ni)-Dissolved	<5.0	DLHC	5.0	ug/L	29-NOV-17	100
	Selenium (Se)-Dissolved	0.51	DLHC	0.50	ug/L	29-NOV-17	10
	Silver (Ag)-Dissolved	<0.50	DLHC	0.50	ug/L	29-NOV-17	1.5
	Sodium (Na)-Dissolved	128000	DLHC	5000	ug/L	29-NOV-17	490000
	Thallium (Tl)-Dissolved	<0.10	DLHC	0.10	ug/L	29-NOV-17	2
	Uranium (U)-Dissolved	2.10	DLHC	0.10	ug/L	29-NOV-17	20
	Vanadium (V)-Dissolved	<5.0	DLHC	5.0	ug/L	29-NOV-17	6.2
	Zinc (Zn)-Dissolved	<10	DLHC	10	ug/L	29-NOV-17	1100
Speciated Metals							
	Chromium, Hexavalent	<1.0		1.0	ug/L	02-DEC-17	25
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700
	Benzene	<0.50		0.50	ug/L	30-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
	1,1-Dichloroethane	5.39		0.50	ug/L	30-NOV-17	*5
	1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,1-Dichloroethylene	7.44		0.50	ug/L	30-NOV-17	14
	cis-1,2-Dichloroethylene	1830	DLHC	5.0	ug/L	01-DEC-17	*17
	trans-1,2-Dichloroethylene	9.73		0.50	ug/L	30-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-14	BH46S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
	MTBE	<2.0		2.0	ug/L	30-NOV-17	15
	Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	Toluene	<0.50		0.50	ug/L	30-NOV-17	24
	1,1,1-Trichloroethane	<43	DLQ	43	ug/L	01-DEC-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	Trichloroethylene	237	DLHC	5.0	ug/L	01-DEC-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
	Vinyl chloride	79.8		0.50	ug/L	30-NOV-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	93.8		70-130	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	98.6		70-130	%	30-NOV-17	
Hydrocarbons							
	F1 (C6-C10)	231		25	ug/L	30-NOV-17	750
	F1-BTEX	231		25	ug/L	05-DEC-17	750
	F2 (C10-C16)	<100		100	ug/L	01-DEC-17	150
	F3 (C16-C34)	<250		250	ug/L	01-DEC-17	500
	F4 (C34-C50)	<250		250	ug/L	01-DEC-17	500
	Total Hydrocarbons (C6-C50)	<370		370	ug/L	05-DEC-17	
	Chrom. to baseline at nC50	YES			No Unit	01-DEC-17	
	Surrogate: 2-Bromobenzotrifluoride	91.3		60-140	%	01-DEC-17	
	Surrogate: 3,4-Dichlorotoluene	89.7		60-140	%	30-NOV-17	
L2028320-15	BH47S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700
	Benzene	<0.50		0.50	ug/L	30-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
	Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-15	BH47S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
	1,1-Dichloroethane	1.07		0.50	ug/L	30-NOV-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,1-Dichloroethylene	9.96		0.50	ug/L	30-NOV-17	14
	cis-1,2-Dichloroethylene	828	DLHC	13	ug/L	01-DEC-17	*17
	trans-1,2-Dichloroethylene	5.90		0.50	ug/L	30-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
	MTBE	<2.0		2.0	ug/L	30-NOV-17	15
	Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	Toluene	<0.50		0.50	ug/L	30-NOV-17	24
	1,1,1-Trichloroethane	<18	DLQ	18	ug/L	30-NOV-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	Trichloroethylene	3090	DLHC	13	ug/L	01-DEC-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
	Vinyl chloride	86.6		0.50	ug/L	30-NOV-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	93.6		70-130	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	98.5		70-130	%	30-NOV-17	
L2028320-16	BH48S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700
	Benzene	<0.50		0.50	ug/L	30-NOV-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
	Bromoform	<5.0		5.0	ug/L	30-NOV-17	25

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2028320-16	BH48S						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
	Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
	Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
	1,1-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	1,1-Dichloroethylene	<0.50		0.50	ug/L	30-NOV-17	14
	cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
	n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
	MTBE	<2.0		2.0	ug/L	30-NOV-17	15
	Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
	Toluene	<0.50		0.50	ug/L	30-NOV-17	24
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
	Trichloroethylene	<0.50		0.50	ug/L	01-DEC-17	5
	Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
	Vinyl chloride	<0.50		0.50	ug/L	30-NOV-17	1.7
	o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
	m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
	Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	93.0		70-130	%	30-NOV-17	
	Surrogate: 1,4-Difluorobenzene	98.8		70-130	%	30-NOV-17	
L2028320-17	BH8S0						
Sampled By:	CLIENT on 27-NOV-17 @ 09:30						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	30-NOV-17	2700

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2028320-17 BH8S0						
Sampled By: CLIENT on 27-NOV-17 @ 09:30						
Matrix: WATER						
Volatile Organic Compounds						
Benzene	1.74		0.50	ug/L	30-NOV-17	5
Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
1,1-Dichloroethane	6.51		0.50	ug/L	30-NOV-17	*5
1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
1,1-Dichloroethylene	53.6		0.50	ug/L	30-NOV-17	*14
cis-1,2-Dichloroethylene	6850	DLHC	63	ug/L	01-DEC-17	*17
trans-1,2-Dichloroethylene	44.4		0.50	ug/L	30-NOV-17	*17
Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
MTBE	<2.0		2.0	ug/L	30-NOV-17	15
Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
Toluene	<0.70	RRR	0.70	ug/L	30-NOV-17	24
1,1,1-Trichloroethane	<160	DLQ	160	ug/L	01-DEC-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
Trichloroethylene	25000	DLHC	63	ug/L	01-DEC-17	*5
Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
Vinyl chloride	376		0.50	ug/L	30-NOV-17	*1.7
o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
Surrogate: 4-Bromofluorobenzene	94.2		70-130	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	98.5		70-130	%	30-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2028320-18 BH48S0						
Sampled By: CLIENT on 27-NOV-17 @ 09:30						
Matrix: WATER						
Volatile Organic Compounds						
Acetone	<30		30	ug/L	30-NOV-17	2700
Benzene	<0.50		0.50	ug/L	30-NOV-17	5
Bromodichloromethane	<2.0		2.0	ug/L	30-NOV-17	16
Bromoform	<5.0		5.0	ug/L	30-NOV-17	25
Bromomethane	<0.50		0.50	ug/L	30-NOV-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	30-NOV-17	5
Chlorobenzene	<0.50		0.50	ug/L	30-NOV-17	30
Dibromochloromethane	<2.0		2.0	ug/L	30-NOV-17	25
Chloroform	<1.0		1.0	ug/L	30-NOV-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	30-NOV-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	30-NOV-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	30-NOV-17	590
1,1-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
1,1-Dichloroethylene	<0.50		0.50	ug/L	30-NOV-17	14
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	01-DEC-17	17
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
Methylene Chloride	<5.0		5.0	ug/L	30-NOV-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	30-NOV-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	30-NOV-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	30-NOV-17	2.4
n-Hexane	<0.50		0.50	ug/L	30-NOV-17	520
Methyl Ethyl Ketone	<20		20	ug/L	30-NOV-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	30-NOV-17	640
MTBE	<2.0		2.0	ug/L	30-NOV-17	15
Styrene	<0.50		0.50	ug/L	30-NOV-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	30-NOV-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	30-NOV-17	17
Toluene	<0.50		0.50	ug/L	30-NOV-17	24
1,1,1-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	30-NOV-17	5
Trichloroethylene	<0.50		0.50	ug/L	01-DEC-17	5
Trichlorofluoromethane	<5.0		5.0	ug/L	30-NOV-17	150
Vinyl chloride	<0.50		0.50	ug/L	30-NOV-17	1.7
o-Xylene	<0.30		0.30	ug/L	30-NOV-17	
m+p-Xylenes	<0.40		0.40	ug/L	30-NOV-17	
Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
Surrogate: 4-Bromofluorobenzene	91.8		70-130	%	30-NOV-17	
Surrogate: 1,4-Difluorobenzene	98.8		70-130	%	30-NOV-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
DLQ	Detection Limit raised due to co-eluting interference. GCMS qualifier ion ratio did not meet acceptance criteria.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
RRR	Refer to Report Remarks for issues regarding this analysis

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
625-511-WT	Water	ABN,CP,PAH-O.Reg 153/04	SW846 8270 (511)

Ground water sample extraction is carried out at a pH <2 (acid extractables) and pH>11 (base neutral extractables). Extracts are dried, concentrated and exchanged into a solvent compatible with the cleanup. Analysis is by GC/MS. Depending on the analytical GC/MS column used benzo(j)fluoranthene may chromatographically co-elute with benzo(b)fluoranthene or benzo(k)fluoranthene.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

CR-CR6-IC-R511-WT	Water	Hex Chrom-O.Reg 153/04 (July 2011)	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

DINITROTOL-CALC-WT	Water	ABN-Calculated Parameters	SW846 8270
F1-F4-511-CALC-WT	Water	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-L

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Water	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Water	F2-F4-O.Reg 153/04 (July 2011)	EPA 3511/CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, 2001.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

HG-D-UG/L-CVAA-WT	Water	Diss. Mercury in Water by CVAAS (ug/L)	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

Reference Information

MET-D-UG/L-MS-WT	Water	Diss. Metals in Water by ICPMS (ug/L)	EPA 200.8

The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT	Water	PAH-Calculated Parameters	SW846 8270
PAH-511-WT	Water	PAH-O. Reg 153/04 (July 2011)	SW846 3510/8270

Aqueous samples, fortified with surrogates, are extracted using liquid/liquid extraction technique. The sample extracts are concentrated and then analyzed using GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

VOC-1,3-DCP-CALC-WT	Water	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Water	VOC by GCMS HS O.Reg 153/04 (July 2011)	SW846 8260

Liquid samples are analyzed by headspace GC/MSD.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

17-621042 17-921043

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Water**							
Batch R3899806								
WG2674629-2 LCS								
1,2,4-Trichlorobenzene			92.8		%		50-140	01-DEC-17
2-Chlorophenol			85.5		%		50-140	01-DEC-17
2,4-Dichlorophenol			98.6		%		50-140	01-DEC-17
2,4-Dimethylphenol			87.0		%		30-130	01-DEC-17
2,4-Dinitrophenol			132.8		%		50-140	01-DEC-17
2,4-Dinitrotoluene			117.3		%		50-140	01-DEC-17
2,4,5-Trichlorophenol			105.3		%		50-140	01-DEC-17
2,4,6-Trichlorophenol			103.5		%		50-140	01-DEC-17
2,6-Dinitrotoluene			111.4		%		50-140	01-DEC-17
3,3'-Dichlorobenzidine			88.1		%		30-130	01-DEC-17
4-Chloroaniline			72.4		%		30-130	01-DEC-17
Biphenyl			99.98		%		50-140	01-DEC-17
Bis(2-chloroethyl)ether			96.4		%		50-140	01-DEC-17
Bis(2-chloroisopropyl)ether			97.2		%		50-140	01-DEC-17
Bis(2-ethylhexyl)phthalate			104.4		%		50-140	01-DEC-17
Diethylphthalate			93.9		%		50-140	01-DEC-17
Dimethylphthalate			94.3		%		50-140	01-DEC-17
Pentachlorophenol			137.9		%		50-140	01-DEC-17
Phenol			48.1		%		30-130	01-DEC-17
WG2674629-3 LCSD		**WG2674629-2**						
1,2,4-Trichlorobenzene		92.8	92.8		%	0.0	50	01-DEC-17
2-Chlorophenol		85.5	87.7		%	2.5	50	01-DEC-17
2,4-Dichlorophenol		98.6	99.3		%	0.7	50	01-DEC-17
2,4-Dimethylphenol		87.0	93.1		%	6.8	50	01-DEC-17
2,4-Dinitrophenol		132.8	139.7		%	5.1	50	01-DEC-17
2,4-Dinitrotoluene		117.3	122.6		%	4.5	50	01-DEC-17
2,4,5-Trichlorophenol		105.3	109.4		%	3.9	50	01-DEC-17
2,4,6-Trichlorophenol		103.5	107.3		%	3.6	50	01-DEC-17
2,6-Dinitrotoluene		111.4	115.6		%	3.7	50	01-DEC-17
3,3'-Dichlorobenzidine		88.1	87.1		%	1.1	50	01-DEC-17
4-Chloroaniline		72.4	60.8		%	17	50	01-DEC-17
Biphenyl		99.98	104.9		%	4.8	50	01-DEC-17
Bis(2-chloroethyl)ether		96.4	98.6		%	2.3	50	01-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Water**							
Batch R3899806								
WG2674629-3 LCSD		**WG2674629-2**						
Bis(2-chloroisopropyl)ether		97.2	97.2		%	0.0	50	01-DEC-17
Bis(2-ethylhexyl)phthalate		104.4	106.9		%	2.4	50	01-DEC-17
Diethylphthalate		93.9	97.1		%	3.3	50	01-DEC-17
Dimethylphthalate		94.3	98.0		%	3.8	50	01-DEC-17
Pentachlorophenol		137.9	140.9		%	2.1	50	01-DEC-17
Phenol		48.1	51.0		%	5.9	50	01-DEC-17
WG2674629-1 MB								
1,2,4-Trichlorobenzene			<0.40		ug/L		0.4	01-DEC-17
2-Chlorophenol			<0.30		ug/L		0.3	01-DEC-17
2,4-Dichlorophenol			<0.30		ug/L		0.3	01-DEC-17
2,4-Dimethylphenol			<0.50		ug/L		0.5	01-DEC-17
2,4-Dinitrophenol			<1.0		ug/L		1	01-DEC-17
2,4-Dinitrotoluene			<0.40		ug/L		0.4	01-DEC-17
2,4,5-Trichlorophenol			<0.20		ug/L		0.2	01-DEC-17
2,4,6-Trichlorophenol			<0.20		ug/L		0.2	01-DEC-17
2,6-Dinitrotoluene			<0.40		ug/L		0.4	01-DEC-17
3,3'-Dichlorobenzidine			<0.40		ug/L		0.4	01-DEC-17
4-Chloroaniline			<0.40		ug/L		0.4	01-DEC-17
Biphenyl			<0.40		ug/L		0.4	01-DEC-17
Bis(2-chloroethyl)ether			<0.40		ug/L		0.4	01-DEC-17
Bis(2-chloroisopropyl)ether			<0.40		ug/L		0.4	01-DEC-17
Bis(2-ethylhexyl)phthalate			<2.0		ug/L		2	01-DEC-17
Diethylphthalate			<0.20		ug/L		0.2	01-DEC-17
Dimethylphthalate			<0.20		ug/L		0.2	01-DEC-17
Pentachlorophenol			<0.50		ug/L		0.5	01-DEC-17
Phenol			<0.50		ug/L		0.5	01-DEC-17
Surrogate: 2-Fluorobiphenyl			93.5		%		50-140	01-DEC-17
Surrogate: 2,4,6-Tribromophenol			99.5		%		50-140	01-DEC-17
Surrogate: Nitrobenzene d5			95.7		%		50-140	01-DEC-17
Surrogate: p-Terphenyl d14			95.1		%		60-140	01-DEC-17
Surrogate: Phenol d5			47.8		%		30-130	01-DEC-17
CR-CR6-IC-R511-WT	**Water**							

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CR-CR6-IC-R511-WT	**Water**							
Batch R3902007								
WG2676405-4 DUP		**WG2676405-3**						
Chromium, Hexavalent		<1.0	<1.0	RPD-NA	ug/L	N/A	20	02-DEC-17
WG2676405-2 LCS								
Chromium, Hexavalent			87.4		%		80-120	02-DEC-17
WG2676405-1 MB								
Chromium, Hexavalent			<1.0		ug/L		1	02-DEC-17
WG2676405-5 MS		**WG2676405-3**						
Chromium, Hexavalent			98.1		%		70-130	02-DEC-17
F1-HS-511-WT	**Water**							
Batch R3898574								
WG2673658-4 DUP		**WG2673658-3**						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	30-NOV-17
WG2673658-1 LCS								
F1 (C6-C10)			99.6		%		80-120	29-NOV-17
WG2673658-2 MB								
F1 (C6-C10)			<25		ug/L		25	30-NOV-17
Surrogate: 3,4-Dichlorotoluene			110.6		%		60-140	30-NOV-17
WG2673658-5 MS		**WG2673658-3**						
F1 (C6-C10)			88.2		%		60-140	30-NOV-17
Batch R3898646								
WG2673929-4 DUP		**WG2673929-3**						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	30-NOV-17
WG2673929-1 LCS								
F1 (C6-C10)			91.8		%		80-120	30-NOV-17
WG2673929-2 MB								
F1 (C6-C10)			<25		ug/L		25	30-NOV-17
Surrogate: 3,4-Dichlorotoluene			101.6		%		60-140	30-NOV-17
WG2673929-5 MS		**WG2673929-3**						
F1 (C6-C10)			95.0		%		60-140	30-NOV-17
F2-F4-511-WT	**Water**							
Batch R3902736								
WG2674562-2 LCS								
F2 (C10-C16)			103.7		%		70-130	05-DEC-17
F3 (C16-C34)			100.1		%		70-130	05-DEC-17
F4 (C34-C50)			81.5		%		70-130	05-DEC-17
WG2674562-1 MB								
F2 (C10-C16)			<100		ug/L		100	01-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	**Water**							
Batch R3902736								
WG2674562-1 MB								
F3 (C16-C34)			<250		ug/L		250	01-DEC-17
F4 (C34-C50)			<250		ug/L		250	01-DEC-17
Surrogate: 2-Bromobenzotrifluoride			91.3		%		60-140	01-DEC-17
HG-D-UG/L-CVAA-WT	**Water**							
Batch R3899734								
WG2675637-4 DUP		**WG2675637-3**						
Mercury (Hg)-Dissolved		<0.010	<0.010	RPD-NA	ug/L	N/A	20	01-DEC-17
WG2675637-2 LCS								
Mercury (Hg)-Dissolved			104.0		%		80-120	01-DEC-17
WG2675637-1 MB								
Mercury (Hg)-Dissolved			<0.010		ug/L		0.01	01-DEC-17
WG2675637-6 MS		**WG2675637-5**						
Mercury (Hg)-Dissolved			86.9		%		70-130	01-DEC-17
MET-D-UG/L-MS-WT	**Water**							
Batch R3898351								
WG2674483-4 DUP		**WG2674483-3**						
Antimony (Sb)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	29-NOV-17
Arsenic (As)-Dissolved		1.47	1.44		ug/L	2.4	20	29-NOV-17
Barium (Ba)-Dissolved		124	126		ug/L	1.5	20	29-NOV-17
Beryllium (Be)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	29-NOV-17
Boron (B)-Dissolved		161	164		ug/L	1.9	20	29-NOV-17
Cadmium (Cd)-Dissolved		0.143	0.132		ug/L	7.7	20	29-NOV-17
Chromium (Cr)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	29-NOV-17
Cobalt (Co)-Dissolved		4.41	4.47		ug/L	1.3	20	29-NOV-17
Copper (Cu)-Dissolved		6.22	6.30		ug/L	1.3	20	29-NOV-17
Lead (Pb)-Dissolved		2.00	2.01		ug/L	0.6	20	29-NOV-17
Molybdenum (Mo)-Dissolved		1.12	1.13		ug/L	0.6	20	29-NOV-17
Nickel (Ni)-Dissolved		69.9	70.9		ug/L	1.4	20	29-NOV-17
Selenium (Se)-Dissolved		0.100	0.106		ug/L	5.4	20	29-NOV-17
Silver (Ag)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	29-NOV-17
Sodium (Na)-Dissolved		197000	197000		ug/L	0.0	20	29-NOV-17
Thallium (Tl)-Dissolved		0.025	0.024		ug/L	1.6	20	29-NOV-17
Uranium (U)-Dissolved		0.647	0.649		ug/L	0.3	20	29-NOV-17
Vanadium (V)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R3898351								
WG2674483-4 DUP		**WG2674483-3**						
Zinc (Zn)-Dissolved		8.3	8.7		ug/L	5.2	20	29-NOV-17
WG2674483-2 LCS								
Antimony (Sb)-Dissolved			92.8		%		80-120	29-NOV-17
Arsenic (As)-Dissolved			99.3		%		80-120	29-NOV-17
Barium (Ba)-Dissolved			98.1		%		80-120	29-NOV-17
Beryllium (Be)-Dissolved			100.2		%		80-120	29-NOV-17
Boron (B)-Dissolved			98.0		%		80-120	29-NOV-17
Cadmium (Cd)-Dissolved			99.2		%		80-120	29-NOV-17
Chromium (Cr)-Dissolved			98.1		%		80-120	29-NOV-17
Cobalt (Co)-Dissolved			95.6		%		80-120	29-NOV-17
Copper (Cu)-Dissolved			94.4		%		80-120	29-NOV-17
Lead (Pb)-Dissolved			95.2		%		80-120	29-NOV-17
Molybdenum (Mo)-Dissolved			99.5		%		80-120	29-NOV-17
Nickel (Ni)-Dissolved			96.5		%		80-120	29-NOV-17
Selenium (Se)-Dissolved			97.2		%		80-120	29-NOV-17
Silver (Ag)-Dissolved			92.7		%		80-120	29-NOV-17
Sodium (Na)-Dissolved			100.4		%		80-120	29-NOV-17
Thallium (Tl)-Dissolved			100.7		%		80-120	29-NOV-17
Uranium (U)-Dissolved			93.3		%		80-120	29-NOV-17
Vanadium (V)-Dissolved			99.2		%		80-120	29-NOV-17
Zinc (Zn)-Dissolved			91.4		%		80-120	29-NOV-17
WG2674483-1 MB								
Antimony (Sb)-Dissolved			<0.10		ug/L		0.1	29-NOV-17
Arsenic (As)-Dissolved			<0.10		ug/L		0.1	29-NOV-17
Barium (Ba)-Dissolved			<0.10		ug/L		0.1	29-NOV-17
Beryllium (Be)-Dissolved			<0.10		ug/L		0.1	29-NOV-17
Boron (B)-Dissolved			<10		ug/L		10	29-NOV-17
Cadmium (Cd)-Dissolved			<0.010		ug/L		0.01	29-NOV-17
Chromium (Cr)-Dissolved			<0.50		ug/L		0.5	29-NOV-17
Cobalt (Co)-Dissolved			<0.10		ug/L		0.1	29-NOV-17
Copper (Cu)-Dissolved			<0.20		ug/L		0.2	29-NOV-17
Lead (Pb)-Dissolved			<0.050		ug/L		0.05	29-NOV-17
Molybdenum (Mo)-Dissolved			<0.050		ug/L		0.05	29-NOV-17
Nickel (Ni)-Dissolved			<0.50		ug/L		0.5	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R3898351								
WG2674483-1 MB								
Selenium (Se)-Dissolved			<0.050		ug/L		0.05	29-NOV-17
Silver (Ag)-Dissolved			<0.050		ug/L		0.05	29-NOV-17
Sodium (Na)-Dissolved			<500		ug/L		500	29-NOV-17
Thallium (Tl)-Dissolved			<0.010		ug/L		0.01	29-NOV-17
Uranium (U)-Dissolved			<0.010		ug/L		0.01	29-NOV-17
Vanadium (V)-Dissolved			<0.50		ug/L		0.5	29-NOV-17
Zinc (Zn)-Dissolved			<1.0		ug/L		1	29-NOV-17
WG2674483-5 MS		**WG2674483-3**						
Antimony (Sb)-Dissolved			91.7		%		70-130	29-NOV-17
Arsenic (As)-Dissolved			122.0		%		70-130	29-NOV-17
Barium (Ba)-Dissolved			N/A	MS-B	%		-	29-NOV-17
Beryllium (Be)-Dissolved			103.6		%		70-130	29-NOV-17
Boron (B)-Dissolved			N/A	MS-B	%		-	29-NOV-17
Cadmium (Cd)-Dissolved			94.9		%		70-130	29-NOV-17
Chromium (Cr)-Dissolved			100.4		%		70-130	29-NOV-17
Cobalt (Co)-Dissolved			96.6		%		70-130	29-NOV-17
Copper (Cu)-Dissolved			92.4		%		70-130	29-NOV-17
Lead (Pb)-Dissolved			85.9		%		70-130	29-NOV-17
Molybdenum (Mo)-Dissolved			99.8		%		70-130	29-NOV-17
Nickel (Ni)-Dissolved			N/A	MS-B	%		-	29-NOV-17
Silver (Ag)-Dissolved			74.8		%		70-130	29-NOV-17
Sodium (Na)-Dissolved			N/A	MS-B	%		-	29-NOV-17
Thallium (Tl)-Dissolved			85.7		%		70-130	29-NOV-17
Uranium (U)-Dissolved			N/A	MS-B	%		-	29-NOV-17
Vanadium (V)-Dissolved			108.1		%		70-130	29-NOV-17
Zinc (Zn)-Dissolved			94.7		%		70-130	29-NOV-17
PAH-511-WT	**Water**							
Batch R3901844								
WG2674562-2 LCS								
1-Methylnaphthalene			75.9		%		50-140	30-NOV-17
2-Methylnaphthalene			75.4		%		50-140	30-NOV-17
Acenaphthene			80.4		%		50-140	30-NOV-17
Acenaphthylene			85.4		%		50-140	30-NOV-17
Anthracene			76.6		%		50-140	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Water**							
Batch R3901844								
WG2674562-2 LCS								
Benzo(a)anthracene			75.2		%		50-140	30-NOV-17
Benzo(a)pyrene			81.6		%		50-140	30-NOV-17
Benzo(b)fluoranthene			75.2		%		50-140	30-NOV-17
Benzo(g,h,i)perylene			97.6		%		50-140	30-NOV-17
Benzo(k)fluoranthene			95.0		%		50-140	30-NOV-17
Chrysene			99.6		%		50-140	30-NOV-17
Dibenzo(ah)anthracene			90.7		%		50-140	30-NOV-17
Fluoranthene			90.0		%		50-140	30-NOV-17
Fluorene			89.1		%		50-140	30-NOV-17
Indeno(1,2,3-cd)pyrene			84.7		%		50-140	30-NOV-17
Naphthalene			76.8		%		50-140	30-NOV-17
Phenanthrene			88.0		%		50-140	30-NOV-17
Pyrene			88.6		%		50-140	30-NOV-17
WG2674562-3 LCSD		**WG2674562-2**						
1-Methylnaphthalene		75.9	81.4		%	6.9	50	30-NOV-17
2-Methylnaphthalene		75.4	81.1		%	7.4	50	30-NOV-17
Acenaphthene		80.4	84.1		%	4.5	50	30-NOV-17
Acenaphthylene		85.4	89.2		%	4.4	50	30-NOV-17
Anthracene		76.6	79.3		%	3.5	50	30-NOV-17
Benzo(a)anthracene		75.2	73.9		%	1.7	50	30-NOV-17
Benzo(a)pyrene		81.6	82.8		%	1.5	50	30-NOV-17
Benzo(b)fluoranthene		75.2	75.6		%	0.5	50	30-NOV-17
Benzo(g,h,i)perylene		97.6	102.8		%	5.2	50	30-NOV-17
Benzo(k)fluoranthene		95.0	96.7		%	1.8	50	30-NOV-17
Chrysene		99.6	94.2		%	5.6	50	30-NOV-17
Dibenzo(ah)anthracene		90.7	94.3		%	3.9	50	30-NOV-17
Fluoranthene		90.0	92.9		%	3.1	50	30-NOV-17
Fluorene		89.1	92.6		%	3.9	50	30-NOV-17
Indeno(1,2,3-cd)pyrene		84.7	87.6		%	3.3	50	30-NOV-17
Naphthalene		76.8	81.8		%	6.3	50	30-NOV-17
Phenanthrene		88.0	90.1		%	2.3	50	30-NOV-17
Pyrene		88.6	89.9		%	1.5	50	30-NOV-17
WG2674562-1 MB								

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Water**							
Batch R3901844								
WG2674562-1 MB								
1-Methylnaphthalene			<0.020		ug/L		0.02	30-NOV-17
2-Methylnaphthalene			<0.020		ug/L		0.02	30-NOV-17
Acenaphthene			<0.020		ug/L		0.02	30-NOV-17
Acenaphthylene			<0.020		ug/L		0.02	30-NOV-17
Anthracene			<0.020		ug/L		0.02	30-NOV-17
Benzo(a)anthracene			<0.020		ug/L		0.02	30-NOV-17
Benzo(a)pyrene			<0.010		ug/L		0.01	30-NOV-17
Benzo(b)fluoranthene			<0.020		ug/L		0.02	30-NOV-17
Benzo(g,h,i)perylene			<0.020		ug/L		0.02	30-NOV-17
Benzo(k)fluoranthene			<0.020		ug/L		0.02	30-NOV-17
Chrysene			<0.020		ug/L		0.02	30-NOV-17
Dibenzo(ah)anthracene			<0.020		ug/L		0.02	30-NOV-17
Fluoranthene			<0.020		ug/L		0.02	30-NOV-17
Fluorene			<0.020		ug/L		0.02	30-NOV-17
Indeno(1,2,3-cd)pyrene			<0.020		ug/L		0.02	30-NOV-17
Naphthalene			<0.050		ug/L		0.05	30-NOV-17
Phenanthrene			<0.020		ug/L		0.02	30-NOV-17
Pyrene			<0.020		ug/L		0.02	30-NOV-17
Surrogate: d8-Naphthalene			104.4		%		60-140	30-NOV-17
Surrogate: d10-Phenanthrene			98.7		%		60-140	30-NOV-17
Surrogate: d12-Chrysene			89.4		%		60-140	30-NOV-17
Surrogate: d10-Acenaphthene			101.7		%		60-140	30-NOV-17
VOC-511-HS-WT	**Water**							
Batch R3898574								
WG2673658-4 DUP		**WG2673658-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	30-NOV-17
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3898574								
WG2673658-4 DUP		**WG2673658-3**						
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	30-NOV-17
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-17
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-NOV-17
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	30-NOV-17
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	30-NOV-17
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	30-NOV-17
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-17
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-17
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	30-NOV-17
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	30-NOV-17
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	30-NOV-17
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-NOV-17
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-17
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	30-NOV-17
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	30-NOV-17
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-NOV-17
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
WG2673658-1 LCS								

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3898574								
WG2673658-1 LCS								
1,1,1,2-Tetrachloroethane			101.2		%		70-130	29-NOV-17
1,1,2,2-Tetrachloroethane			100.0		%		70-130	29-NOV-17
1,1,1-Trichloroethane			102.1		%		70-130	29-NOV-17
1,1,2-Trichloroethane			104.4		%		70-130	29-NOV-17
1,1-Dichloroethane			101.7		%		70-130	29-NOV-17
1,1-Dichloroethylene			92.0		%		70-130	29-NOV-17
1,2-Dibromoethane			105.0		%		70-130	29-NOV-17
1,2-Dichlorobenzene			101.8		%		70-130	29-NOV-17
1,2-Dichloroethane			111.3		%		70-130	29-NOV-17
1,2-Dichloropropane			105.6		%		70-130	29-NOV-17
1,3-Dichlorobenzene			99.1		%		70-130	29-NOV-17
1,4-Dichlorobenzene			101.4		%		70-130	29-NOV-17
Acetone			111.4		%		60-140	29-NOV-17
Benzene			100.5		%		70-130	29-NOV-17
Bromodichloromethane			103.0		%		70-130	29-NOV-17
Bromoform			100.3		%		70-130	29-NOV-17
Bromomethane			95.8		%		60-140	29-NOV-17
Carbon tetrachloride			98.9		%		70-130	29-NOV-17
Chlorobenzene			100.5		%		70-130	29-NOV-17
Chloroform			103.7		%		70-130	29-NOV-17
cis-1,2-Dichloroethylene			105.4		%		70-130	29-NOV-17
cis-1,3-Dichloropropene			103.3		%		70-130	29-NOV-17
Dibromochloromethane			105.6		%		70-130	29-NOV-17
Dichlorodifluoromethane			80.0		%		50-140	29-NOV-17
Ethylbenzene			97.5		%		70-130	29-NOV-17
n-Hexane			105.1		%		70-130	29-NOV-17
m+p-Xylenes			98.9		%		70-130	29-NOV-17
Methyl Ethyl Ketone			101.4		%		60-140	29-NOV-17
Methyl Isobutyl Ketone			104.7		%		60-140	29-NOV-17
Methylene Chloride			105.5		%		70-130	29-NOV-17
MTBE			99.4		%		70-130	29-NOV-17
o-Xylene			98.3		%		70-130	29-NOV-17
Styrene			98.2		%		70-130	29-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3898574								
WG2673658-1 LCS								
Tetrachloroethylene			97.1		%		70-130	29-NOV-17
Toluene			99.0		%		70-130	29-NOV-17
trans-1,2-Dichloroethylene			102.3		%		70-130	29-NOV-17
trans-1,3-Dichloropropene			104.6		%		70-130	29-NOV-17
Trichloroethylene			101.1		%		70-130	29-NOV-17
Trichlorofluoromethane			98.7		%		60-140	29-NOV-17
Vinyl chloride			91.7		%		60-140	29-NOV-17
WG2673658-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	30-NOV-17
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	30-NOV-17
1,1,1-Trichloroethane			<0.50		ug/L		0.5	30-NOV-17
1,1,2-Trichloroethane			<0.50		ug/L		0.5	30-NOV-17
1,1-Dichloroethane			<0.50		ug/L		0.5	30-NOV-17
1,1-Dichloroethylene			<0.50		ug/L		0.5	30-NOV-17
1,2-Dibromoethane			<0.20		ug/L		0.2	30-NOV-17
1,2-Dichlorobenzene			<0.50		ug/L		0.5	30-NOV-17
1,2-Dichloroethane			<0.50		ug/L		0.5	30-NOV-17
1,2-Dichloropropane			<0.50		ug/L		0.5	30-NOV-17
1,3-Dichlorobenzene			<0.50		ug/L		0.5	30-NOV-17
1,4-Dichlorobenzene			<0.50		ug/L		0.5	30-NOV-17
Acetone			<30		ug/L		30	30-NOV-17
Benzene			<0.50		ug/L		0.5	30-NOV-17
Bromodichloromethane			<2.0		ug/L		2	30-NOV-17
Bromoform			<5.0		ug/L		5	30-NOV-17
Bromomethane			<0.50		ug/L		0.5	30-NOV-17
Carbon tetrachloride			<0.20		ug/L		0.2	30-NOV-17
Chlorobenzene			<0.50		ug/L		0.5	30-NOV-17
Chloroform			<1.0		ug/L		1	30-NOV-17
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	30-NOV-17
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	30-NOV-17
Dibromochloromethane			<2.0		ug/L		2	30-NOV-17
Dichlorodifluoromethane			<2.0		ug/L		2	30-NOV-17
Ethylbenzene			<0.50		ug/L		0.5	30-NOV-17
n-Hexane			<0.50		ug/L		0.5	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3898574								
WG2673658-2 MB								
m+p-Xylenes			<0.40		ug/L		0.4	30-NOV-17
Methyl Ethyl Ketone			<20		ug/L		20	30-NOV-17
Methyl Isobutyl Ketone			<20		ug/L		20	30-NOV-17
Methylene Chloride			<5.0		ug/L		5	30-NOV-17
MTBE			<2.0		ug/L		2	30-NOV-17
o-Xylene			<0.30		ug/L		0.3	30-NOV-17
Styrene			<0.50		ug/L		0.5	30-NOV-17
Tetrachloroethylene			<0.50		ug/L		0.5	30-NOV-17
Toluene			<0.50		ug/L		0.5	30-NOV-17
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	30-NOV-17
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	30-NOV-17
Trichloroethylene			<0.50		ug/L		0.5	30-NOV-17
Trichlorofluoromethane			<5.0		ug/L		5	30-NOV-17
Vinyl chloride			<0.50		ug/L		0.5	30-NOV-17
Surrogate: 1,4-Difluorobenzene			101.3		%		70-130	30-NOV-17
Surrogate: 4-Bromofluorobenzene			102.8		%		70-130	30-NOV-17
WG2673658-5 MS		**WG2673658-3**						
1,1,1,2-Tetrachloroethane			99.1		%		50-140	30-NOV-17
1,1,2,2-Tetrachloroethane			83.6		%		50-140	30-NOV-17
1,1,1-Trichloroethane			107.2		%		50-140	30-NOV-17
1,1,2-Trichloroethane			93.0		%		50-140	30-NOV-17
1,1-Dichloroethane			101.7		%		50-140	30-NOV-17
1,1-Dichloroethylene			95.8		%		50-140	30-NOV-17
1,2-Dibromoethane			90.9		%		50-140	30-NOV-17
1,2-Dichlorobenzene			101.7		%		50-140	30-NOV-17
1,2-Dichloroethane			99.5		%		50-140	30-NOV-17
1,2-Dichloropropane			100.3		%		50-140	30-NOV-17
1,3-Dichlorobenzene			103.9		%		50-140	30-NOV-17
1,4-Dichlorobenzene			105.3		%		50-140	30-NOV-17
Acetone			88.2		%		50-140	30-NOV-17
Benzene			99.4		%		50-140	30-NOV-17
Bromodichloromethane			96.7		%		50-140	30-NOV-17
Bromoform			85.2		%		50-140	30-NOV-17
Bromomethane			90.4		%		50-140	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3898574								
WG2673658-5 MS		**WG2673658-3**						
Carbon tetrachloride			105.1		%		50-140	30-NOV-17
Chlorobenzene			99.2		%		50-140	30-NOV-17
Chloroform			102.1		%		50-140	30-NOV-17
cis-1,2-Dichloroethylene			102.4		%		50-140	30-NOV-17
cis-1,3-Dichloropropene			92.3		%		50-140	30-NOV-17
Dibromochloromethane			96.4		%		50-140	30-NOV-17
Dichlorodifluoromethane			79.3		%		50-140	30-NOV-17
Ethylbenzene			101.7		%		50-140	30-NOV-17
n-Hexane			111.6		%		50-140	30-NOV-17
m+p-Xylenes			103.1		%		50-140	30-NOV-17
Methyl Ethyl Ketone			75.3		%		50-140	30-NOV-17
Methyl Isobutyl Ketone			78.1		%		50-140	30-NOV-17
Methylene Chloride			99.99		%		50-140	30-NOV-17
MTBE			99.99		%		50-140	30-NOV-17
o-Xylene			100.4		%		50-140	30-NOV-17
Styrene			95.8		%		50-140	30-NOV-17
Tetrachloroethylene			103.5		%		50-140	30-NOV-17
Toluene			102.2		%		50-140	30-NOV-17
trans-1,2-Dichloroethylene			103.7		%		50-140	30-NOV-17
trans-1,3-Dichloropropene			90.5		%		50-140	30-NOV-17
Trichloroethylene			104.0		%		50-140	30-NOV-17
Trichlorofluoromethane			104.2		%		50-140	30-NOV-17
Vinyl chloride			92.1		%		50-140	30-NOV-17
Batch R3898646								
WG2673929-4 DUP		**WG2673929-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	30-NOV-17
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3898646								
WG2673929-4 DUP		**WG2673929-3**						
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	30-NOV-17
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-17
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-NOV-17
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	30-NOV-17
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	30-NOV-17
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	30-NOV-17
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-17
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-17
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	30-NOV-17
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	30-NOV-17
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	30-NOV-17
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-NOV-17
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-17
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	30-NOV-17
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	30-NOV-17
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-NOV-17
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-17
WG2673929-1 LCS								
1,1,1,2-Tetrachloroethane			99.2		%		70-130	30-NOV-17
1,1,2,2-Tetrachloroethane			102.7		%		70-130	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3898646								
WG2673929-1 LCS								
1,1,1-Trichloroethane			98.1		%		70-130	30-NOV-17
1,1,2-Trichloroethane			105.4		%		70-130	30-NOV-17
1,1-Dichloroethane			100.8		%		70-130	30-NOV-17
1,1-Dichloroethylene			88.7		%		70-130	30-NOV-17
1,2-Dibromoethane			106.3		%		70-130	30-NOV-17
1,2-Dichlorobenzene			101.1		%		70-130	30-NOV-17
1,2-Dichloroethane			109.1		%		70-130	30-NOV-17
1,2-Dichloropropane			105.1		%		70-130	30-NOV-17
1,3-Dichlorobenzene			98.6		%		70-130	30-NOV-17
1,4-Dichlorobenzene			101.3		%		70-130	30-NOV-17
Acetone			120.8		%		60-140	30-NOV-17
Benzene			101.9		%		70-130	30-NOV-17
Bromodichloromethane			101.0		%		70-130	30-NOV-17
Bromoform			101.4		%		70-130	30-NOV-17
Bromomethane			96.3		%		60-140	30-NOV-17
Carbon tetrachloride			96.3		%		70-130	30-NOV-17
Chlorobenzene			100.4		%		70-130	30-NOV-17
Chloroform			103.1		%		70-130	30-NOV-17
cis-1,2-Dichloroethylene			100.9		%		70-130	30-NOV-17
cis-1,3-Dichloropropene			103.2		%		70-130	30-NOV-17
Dibromochloromethane			106.7		%		70-130	30-NOV-17
Dichlorodifluoromethane			70.3		%		50-140	30-NOV-17
Ethylbenzene			92.1		%		70-130	30-NOV-17
n-Hexane			101.8		%		70-130	30-NOV-17
m+p-Xylenes			96.0		%		70-130	30-NOV-17
Methyl Ethyl Ketone			118.3		%		60-140	30-NOV-17
Methyl Isobutyl Ketone			113.4		%		60-140	30-NOV-17
Methylene Chloride			105.3		%		70-130	30-NOV-17
MTBE			98.2		%		70-130	30-NOV-17
o-Xylene			93.4		%		70-130	30-NOV-17
Styrene			99.5		%		70-130	30-NOV-17
Tetrachloroethylene			94.2		%		70-130	30-NOV-17
Toluene			95.0		%		70-130	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3898646								
WG2673929-1 LCS								
trans-1,2-Dichloroethylene			99.8		%		70-130	30-NOV-17
trans-1,3-Dichloropropene			101.5		%		70-130	30-NOV-17
Trichloroethylene			99.9		%		70-130	30-NOV-17
Trichlorofluoromethane			94.9		%		60-140	30-NOV-17
Vinyl chloride			90.2		%		60-140	30-NOV-17
WG2673929-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	30-NOV-17
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	30-NOV-17
1,1,1-Trichloroethane			<0.50		ug/L		0.5	30-NOV-17
1,1,2-Trichloroethane			<0.50		ug/L		0.5	30-NOV-17
1,1-Dichloroethane			<0.50		ug/L		0.5	30-NOV-17
1,1-Dichloroethylene			<0.50		ug/L		0.5	30-NOV-17
1,2-Dibromoethane			<0.20		ug/L		0.2	30-NOV-17
1,2-Dichlorobenzene			<0.50		ug/L		0.5	30-NOV-17
1,2-Dichloroethane			<0.50		ug/L		0.5	30-NOV-17
1,2-Dichloropropane			<0.50		ug/L		0.5	30-NOV-17
1,3-Dichlorobenzene			<0.50		ug/L		0.5	30-NOV-17
1,4-Dichlorobenzene			<0.50		ug/L		0.5	30-NOV-17
Acetone			<30		ug/L		30	30-NOV-17
Benzene			<0.50		ug/L		0.5	30-NOV-17
Bromodichloromethane			<2.0		ug/L		2	30-NOV-17
Bromoform			<5.0		ug/L		5	30-NOV-17
Bromomethane			<0.50		ug/L		0.5	30-NOV-17
Carbon tetrachloride			<0.20		ug/L		0.2	30-NOV-17
Chlorobenzene			<0.50		ug/L		0.5	30-NOV-17
Chloroform			<1.0		ug/L		1	30-NOV-17
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	30-NOV-17
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	30-NOV-17
Dibromochloromethane			<2.0		ug/L		2	30-NOV-17
Dichlorodifluoromethane			<2.0		ug/L		2	30-NOV-17
Ethylbenzene			<0.50		ug/L		0.5	30-NOV-17
n-Hexane			<0.50		ug/L		0.5	30-NOV-17
m+p-Xylenes			<0.40		ug/L		0.4	30-NOV-17
Methyl Ethyl Ketone			<20		ug/L		20	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3898646								
WG2673929-2 MB								
Methyl Isobutyl Ketone			<20		ug/L		20	30-NOV-17
Methylene Chloride			<5.0		ug/L		5	30-NOV-17
MTBE			<2.0		ug/L		2	30-NOV-17
o-Xylene			<0.30		ug/L		0.3	30-NOV-17
Styrene			<0.50		ug/L		0.5	30-NOV-17
Tetrachloroethylene			<0.50		ug/L		0.5	30-NOV-17
Toluene			<0.50		ug/L		0.5	30-NOV-17
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	30-NOV-17
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	30-NOV-17
Trichloroethylene			<0.50		ug/L		0.5	30-NOV-17
Trichlorofluoromethane			<5.0		ug/L		5	30-NOV-17
Vinyl chloride			<0.50		ug/L		0.5	30-NOV-17
Surrogate: 1,4-Difluorobenzene			100.2		%		70-130	30-NOV-17
Surrogate: 4-Bromofluorobenzene			96.2		%		70-130	30-NOV-17
WG2673929-5 MS		**WG2673929-3**						
1,1,1,2-Tetrachloroethane			100.6		%		50-140	30-NOV-17
1,1,2,2-Tetrachloroethane			105.2		%		50-140	30-NOV-17
1,1,1-Trichloroethane			102.2		%		50-140	30-NOV-17
1,1,2-Trichloroethane			103.8		%		50-140	30-NOV-17
1,1-Dichloroethane			104.1		%		50-140	30-NOV-17
1,1-Dichloroethylene			90.9		%		50-140	30-NOV-17
1,2-Dibromoethane			103.2		%		50-140	30-NOV-17
1,2-Dichlorobenzene			100.9		%		50-140	30-NOV-17
1,2-Dichloroethane			109.0		%		50-140	30-NOV-17
1,2-Dichloropropane			106.5		%		50-140	30-NOV-17
1,3-Dichlorobenzene			96.4		%		50-140	30-NOV-17
1,4-Dichlorobenzene			99.4		%		50-140	30-NOV-17
Acetone			117.3		%		50-140	30-NOV-17
Benzene			103.9		%		50-140	30-NOV-17
Bromodichloromethane			103.2		%		50-140	30-NOV-17
Bromoform			100.4		%		50-140	30-NOV-17
Bromomethane			94.9		%		50-140	30-NOV-17
Carbon tetrachloride			100.7		%		50-140	30-NOV-17
Chlorobenzene			100.5		%		50-140	30-NOV-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3898646								
WG2673929-5 MS		**WG2673929-3**						
Chloroform			105.9		%		50-140	30-NOV-17
cis-1,2-Dichloroethylene			101.3		%		50-140	30-NOV-17
cis-1,3-Dichloropropene			98.8		%		50-140	30-NOV-17
Dibromochloromethane			106.2		%		50-140	30-NOV-17
Dichlorodifluoromethane			70.5		%		50-140	30-NOV-17
Ethylbenzene			90.9		%		50-140	30-NOV-17
n-Hexane			104.2		%		50-140	30-NOV-17
m+p-Xylenes			95.6		%		50-140	30-NOV-17
Methyl Ethyl Ketone			110.5		%		50-140	30-NOV-17
Methyl Isobutyl Ketone			104.9		%		50-140	30-NOV-17
Methylene Chloride			105.9		%		50-140	30-NOV-17
MTBE			98.2		%		50-140	30-NOV-17
o-Xylene			92.1		%		50-140	30-NOV-17
Styrene			95.2		%		50-140	30-NOV-17
Tetrachloroethylene			92.9		%		50-140	30-NOV-17
Toluene			93.9		%		50-140	30-NOV-17
trans-1,2-Dichloroethylene			100.3		%		50-140	30-NOV-17
trans-1,3-Dichloropropene			94.4		%		50-140	30-NOV-17
Trichloroethylene			99.4		%		50-140	30-NOV-17
Trichlorofluoromethane			97.9		%		50-140	30-NOV-17
Vinyl chloride			90.0		%		50-140	30-NOV-17
Batch R3899288								
WG2673929-4 DUP		**WG2673929-3**						
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
WG2673930-1 LCS								
1,1,1-Trichloroethane			101.2		%		70-130	01-DEC-17
cis-1,2-Dichloroethylene			101.4		%		70-130	01-DEC-17
Trichloroethylene			102.4		%		70-130	01-DEC-17
Vinyl chloride			91.1		%		60-140	01-DEC-17
WG2673930-2 MB								
1,1,1-Trichloroethane			<0.50		ug/L		0.5	01-DEC-17
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	01-DEC-17
Trichloroethylene			<0.50		ug/L		0.5	01-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3899288								
WG2673930-2 MB								
Vinyl chloride			<0.50		ug/L		0.5	01-DEC-17

Quality Control Report

Workorder: L2028320 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Anthony Puntillo

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

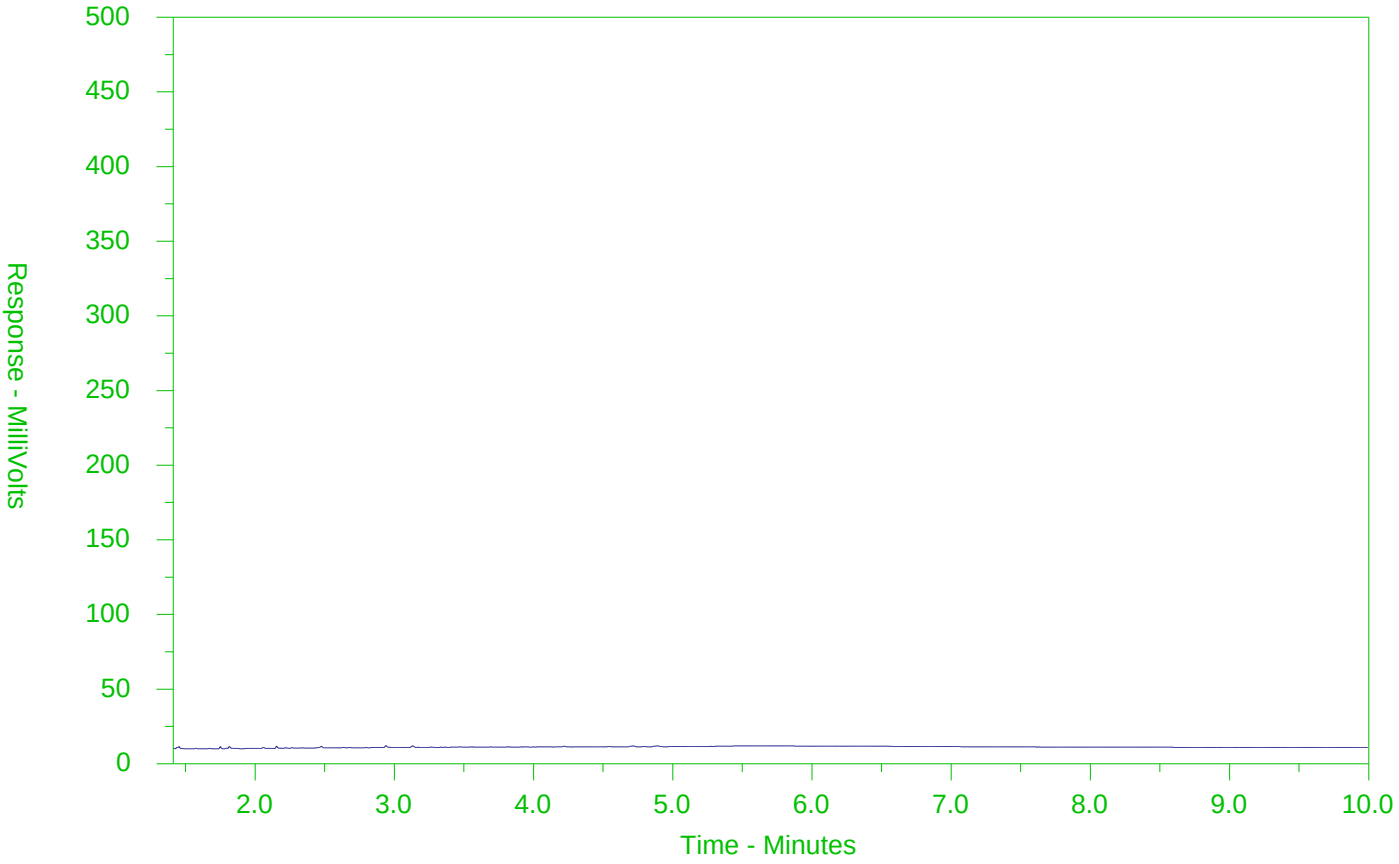
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2028320-1
Client Sample ID: BH117S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

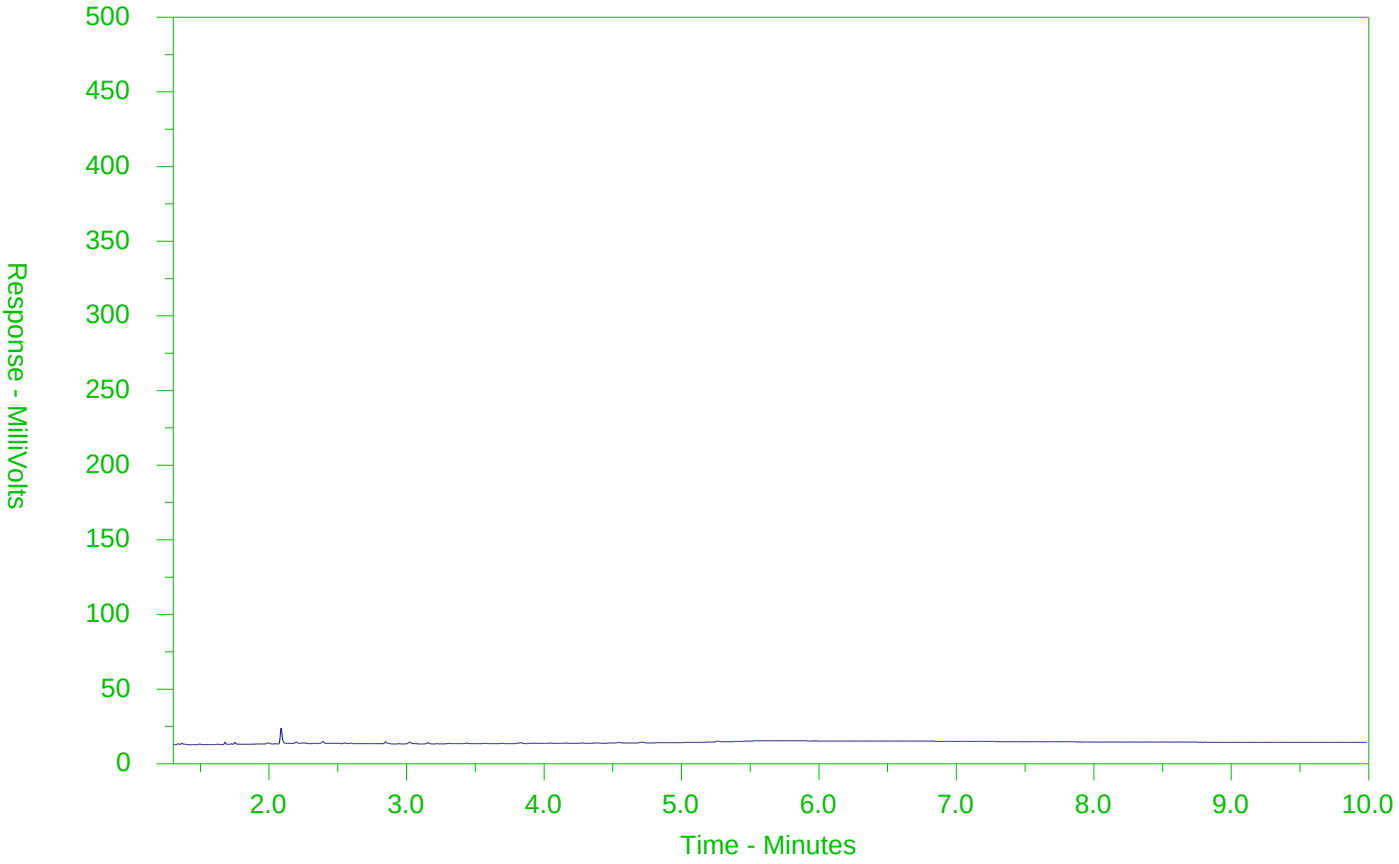
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2028320-8
Client Sample ID: BH41U



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

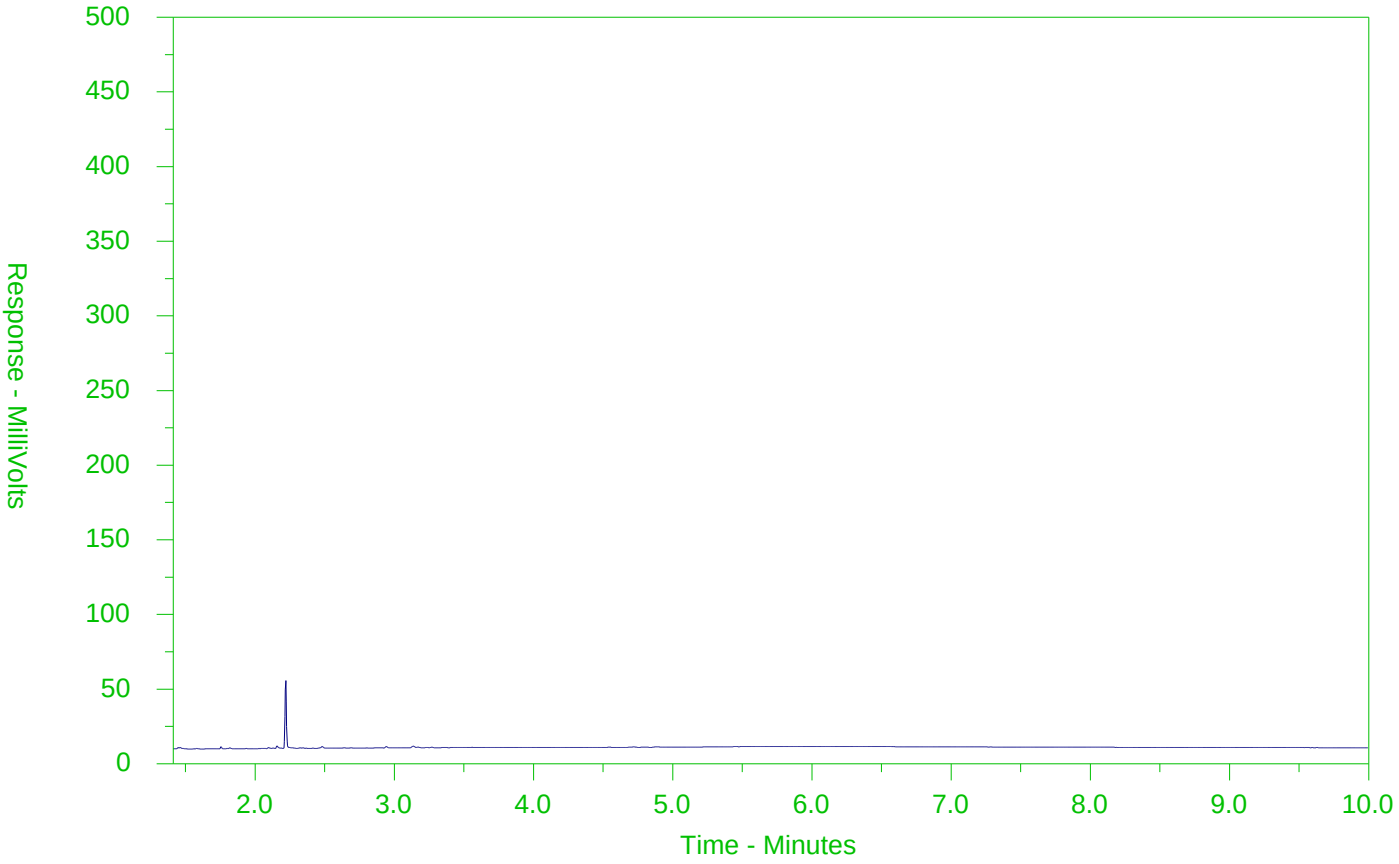
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2028320-14
Client Sample ID: BH46S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

ALS Environmental
www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L2028320-COFC

COC Number: 17 - 621042

Page 1 of 2

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	MTE Consultants	Select Report Format: PDF EXCEL EDD (DIGITAL)	Regular [R] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	Anthony Pantillo, Spencer Burks	Quality Control (QC) Report with Report YES NO	Priority (Business Days): 4 day [P4-20%] / 3 day [P3-25%] / 2 day [P2-50%]
Phone:	905 634 3552	Compare Results to Criteria on Report - provide details below if box checked	Emergency: 1 Business day [E-100%] / Same Day, Weekend or Statutory holiday [E2-200%] (Laboratory opening fees may apply)]
	Company address below will appear on the final report	Select Distribution: EMAIL MAIL FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:	1016 Sutton Drive	Email 1 or Fax apantillee@mte85.com	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:	Burlington	Email 2 sburks@mte85.com	
Postal Code:	L7L 6B8	Email 3 tleness@mte85.com	
Invoice To	Same as Report To YES NO	Invoice Distribution	Analysis Request
	Copy of Invoice with Report YES NO	Select Invoice Distribution: EMAIL MAIL FAX	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
Company:	MTE Consultants	Email 1 or Fax	
Contact:	Accounts Payable	Email 2	
Project Information		**Oil and Gas Required Fields (client use)**	
ALS Account # / Quote #:		AFE/Cost Center: / PO#:	
Job #:	38934-100	Major/Minor Code: / Routing Code:	
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):	L2028320	ALS Contact: / Sampler:	

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Metals + ORPs	ABNs	PHCs	VOCs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
1	BH117S	27/11/17	9:30	GW	X		X	X			7
2	BH6S		10:00					X			2
3	BH7S		10:30					X			2
4	BH8S		11:00					X			2
5	BH9S		11:30					X			2
6	BH10S		12:00					X			2
7	BH22S		12:30					X			2
8	BH41U		13:00				X	X			4
9	BH41S		13:30			X		X			5
10	BH42U		14:00					X			2
11	BH42S		14:30					X			2
12	BH43U		15:00					X			2

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? YES NO	Table 3 Residential
Are samples for human consumption/ use? YES NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen / SIF Observations: Yes / No

Ice Packs / Ice Cubes / Custody seal intact: Yes / No

Cooling Initiated

INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C
5.6°C	7.9

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date: Nov 27/17	Time: 16:45	Received by: AARON BARTON	Date: 27-Nov-2017	Time: 16:45	Received by:	Date: NOV-28-17	Time: 17:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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ALS 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

SIF

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2028320-COFC

COC Number: 17 - 621043

Page 2 of 2

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	MTE Consultants	Select Report Format: [X] PDF [X] EXCEL [ ] EDD (DIGITAL)	Regular [R]: [X] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	Anthony Puntillo, Spencer Buck	Quality Control (QC) Report with Report: [ ] YES [ ] NO	PRIORITY (Business Days): [ ] 4 day [P4-20%] [ ] 3 day [P3-25%] [ ] 2 day [P2-50%]
Phone:	905 639 2552	[ ] Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: [ ] 1 Business day [E-100%] [ ] Same Day, Weekend or Statutory holiday [E2-200%] (Laboratory opening fees may apply)]
	Company address below will appear on the final report	Select Distribution: [ ] EMAIL [ ] MAIL [ ] FAX	
Street:	1016 Sutton Drive	Email 1 or Fax apuntillo@mte85.com	[redacted] Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
City/Province:	Burlington	Email 2 sbuck@mte85.com	For tests that can not be performed according to the service level selected, you will be contacted.
Postal Code:	L6L 6B3	Email 3 tjones@mte85.com	
Invoice To	Same as Report To [ ] YES [ ] NO	Invoice Distribution	Analysis Request
	Copy of Invoice with Report [X] YES [ ] NO	Select Invoice Distribution: [ ] EMAIL [ ] MAIL [ ] FAX	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
Company:	MTE	Email 1 or Fax	
Contact:	Accounts Payable	Email 2	

Project Information		[redacted] Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	39034100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):	L2028320	ALS Contact:	Sampler:

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Metals and ORPs	ABNs	PAHs	VOCs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
13	BH435	17/11/17	15:30	GW				X			2
14	BH465		15:45		X		X	X			7
15	BH475		16:00					X			2
16	BH8485		11:02					X			2
17	BH850		16:02					X			2
18	BH485D										1

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	Table 3 - Residential
Are samples for human consumption/ use? [ ] YES [ ] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	[ ]	SIF Observations	Yes [ ]	No [ ]
Ice Packs [X]	Ice Cubes [X]	Custody seal intact	Yes [ ]	No [ ]
Cooling Initiated [X]				

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
5.6°C				7.9			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date: Nov 27/17	Time: 1645	Received by: Arran Burton	Date: 27-Nov-2017	Time: 16:45	Received by:	Date: NOV-28/17	Time: 17:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

MTE CONSULTANTS INC. (Kitchener)
ATTN: Spencer Buck
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Date Received: 29-NOV-17
Report Date: 05-DEC-17 05:45 (MT)
Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2029000

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 15-611907
Legal Site Desc:



Mary-Lynn Pike
Client Services Supervisor

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Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2029000-1 BH12D						
Sampled By: SDB on 28-NOV-17 @ 13:00						
Matrix: WATER						
Volatile Organic Compounds						
Acetone	<30		30	ug/L	01-DEC-17	2700
Benzene	<0.50		0.50	ug/L	01-DEC-17	5
Bromodichloromethane	<2.0		2.0	ug/L	01-DEC-17	16
Bromoform	<5.0		5.0	ug/L	01-DEC-17	25
Bromomethane	<0.50		0.50	ug/L	01-DEC-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	01-DEC-17	5
Chlorobenzene	<0.50		0.50	ug/L	01-DEC-17	30
Dibromochloromethane	<2.0		2.0	ug/L	01-DEC-17	25
Chloroform	<1.0		1.0	ug/L	01-DEC-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	01-DEC-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	01-DEC-17	590
1,1-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
1,1-Dichloroethylene	<0.50		0.50	ug/L	01-DEC-17	14
cis-1,2-Dichloroethylene	0.91		0.50	ug/L	01-DEC-17	17
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	01-DEC-17	17
Methylene Chloride	<5.0		5.0	ug/L	01-DEC-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	01-DEC-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	01-DEC-17	2.4
n-Hexane	<0.50		0.50	ug/L	01-DEC-17	520
Methyl Ethyl Ketone	<20		20	ug/L	01-DEC-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	01-DEC-17	640
MTBE	<2.0		2.0	ug/L	01-DEC-17	15
Styrene	<0.50		0.50	ug/L	01-DEC-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	01-DEC-17	17
Toluene	<0.50		0.50	ug/L	01-DEC-17	24
1,1,1-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
Trichloroethylene	1.18		0.50	ug/L	01-DEC-17	5
Trichlorofluoromethane	<5.0		5.0	ug/L	01-DEC-17	150
Vinyl chloride	<0.50		0.50	ug/L	01-DEC-17	1.7
o-Xylene	<0.30		0.30	ug/L	01-DEC-17	
m+p-Xylenes	<0.40		0.40	ug/L	01-DEC-17	
Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300
Surrogate: 4-Bromofluorobenzene	99.0		70-130	%	01-DEC-17	
Surrogate: 1,4-Difluorobenzene	101.2		70-130	%	01-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2029000-2 BH13D						
Sampled By: SDB on 28-NOV-17 @ 14:10						
Matrix: WATER						
Volatile Organic Compounds						
Acetone	<30		30	ug/L	01-DEC-17	2700
Benzene	0.54		0.50	ug/L	01-DEC-17	5
Bromodichloromethane	<2.0		2.0	ug/L	01-DEC-17	16
Bromoform	<5.0		5.0	ug/L	01-DEC-17	25
Bromomethane	<0.50		0.50	ug/L	01-DEC-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	01-DEC-17	5
Chlorobenzene	<0.50		0.50	ug/L	01-DEC-17	30
Dibromochloromethane	<2.0		2.0	ug/L	01-DEC-17	25
Chloroform	<1.0		1.0	ug/L	01-DEC-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	01-DEC-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	01-DEC-17	590
1,1-Dichloroethane	3.04		0.50	ug/L	01-DEC-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
1,1-Dichloroethylene	22.5		0.50	ug/L	01-DEC-17	*14
cis-1,2-Dichloroethylene	1270	DLHC	63	ug/L	04-DEC-17	*17
trans-1,2-Dichloroethylene	14.6		0.50	ug/L	01-DEC-17	17
Methylene Chloride	<5.0		5.0	ug/L	01-DEC-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	01-DEC-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	04-DEC-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	01-DEC-17	2.4
n-Hexane	<0.50		0.50	ug/L	01-DEC-17	520
Methyl Ethyl Ketone	<20		20	ug/L	01-DEC-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	01-DEC-17	640
MTBE	<2.0		2.0	ug/L	01-DEC-17	15
Styrene	<0.50		0.50	ug/L	01-DEC-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1
Tetrachloroethylene	3.08		0.50	ug/L	01-DEC-17	17
Toluene	0.55		0.50	ug/L	01-DEC-17	24
1,1,1-Trichloroethane	<31	DLQ	31	ug/L	01-DEC-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
Trichloroethylene	15400	DLHC	63	ug/L	04-DEC-17	*5
Trichlorofluoromethane	<5.0		5.0	ug/L	01-DEC-17	150
Vinyl chloride	283		0.50	ug/L	01-DEC-17	*1.7
o-Xylene	<0.30		0.30	ug/L	01-DEC-17	
m+p-Xylenes	<0.40		0.40	ug/L	01-DEC-17	
Xylenes (Total)	<0.50		0.50	ug/L	04-DEC-17	300
Surrogate: 4-Bromofluorobenzene	98.7		70-130	%	01-DEC-17	
Surrogate: 1,4-Difluorobenzene	100.6		70-130	%	01-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1			
L2029000-3	BH14D									
Sampled By:	SDB on 28-NOV-17 @ 15:30									
Matrix:	WATER									
Volatile Organic Compounds										
	Acetone	<30		30	ug/L	01-DEC-17	2700			
	Benzene	<0.50		0.50	ug/L	01-DEC-17	5			
	Bromodichloromethane	<2.0		2.0	ug/L	01-DEC-17	16			
	Bromoform	<5.0		5.0	ug/L	01-DEC-17	25			
	Bromomethane	<0.50		0.50	ug/L	01-DEC-17	0.89			
	Carbon tetrachloride	<0.20		0.20	ug/L	01-DEC-17	5			
	Chlorobenzene	<0.50		0.50	ug/L	01-DEC-17	30			
	Dibromochloromethane	<2.0		2.0	ug/L	01-DEC-17	25			
	Chloroform	<1.0		1.0	ug/L	01-DEC-17	22			
	1,2-Dibromoethane	<0.20		0.20	ug/L	01-DEC-17	0.2			
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	3			
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	59			
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	1			
	Dichlorodifluoromethane	<2.0		2.0	ug/L	01-DEC-17	590			
	1,1-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5			
	1,2-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5			
	1,1-Dichloroethylene	5.49		0.50	ug/L	01-DEC-17	14			
	cis-1,2-Dichloroethylene	420	DLHC	10	ug/L	04-DEC-17	*17			
	trans-1,2-Dichloroethylene	5.02		0.50	ug/L	01-DEC-17	17			
	Methylene Chloride	<5.0		5.0	ug/L	01-DEC-17	50			
	1,2-Dichloropropane	<0.50		0.50	ug/L	01-DEC-17	5			
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17				
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17				
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	04-DEC-17	0.5			
	Ethylbenzene	<0.50		0.50	ug/L	01-DEC-17	2.4			
	n-Hexane	<0.50		0.50	ug/L	01-DEC-17	520			
	Methyl Ethyl Ketone	<20		20	ug/L	01-DEC-17	1800			
	Methyl Isobutyl Ketone	<20		20	ug/L	01-DEC-17	640			
	MTBE	<2.0		2.0	ug/L	01-DEC-17	15			
	Styrene	<0.50		0.50	ug/L	01-DEC-17	5.4			
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1.1			
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1			
	Tetrachloroethylene	<0.50		0.50	ug/L	01-DEC-17	17			
	Toluene	<0.50		0.50	ug/L	01-DEC-17	24			
	1,1,1-Trichloroethane	<10	DLQ	10	ug/L	01-DEC-17	200			
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	5			
	Trichloroethylene	2270	DLHC	10	ug/L	04-DEC-17	*5			
	Trichlorofluoromethane	<5.0		5.0	ug/L	01-DEC-17	150			
	Vinyl chloride	17.3		0.50	ug/L	01-DEC-17	*1.7			
	o-Xylene	<0.30		0.30	ug/L	01-DEC-17				
	m+p-Xylenes	<0.40		0.40	ug/L	01-DEC-17				
	Xylenes (Total)	<0.50		0.50	ug/L	04-DEC-17	300			
	Surrogate: 4-Bromofluorobenzene	100.2		70-130	%	01-DEC-17				
	Surrogate: 1,4-Difluorobenzene	101.3		70-130	%	01-DEC-17				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2029000-4 BH15D						
Sampled By: SDB on 28-NOV-17 @ 11:50						
Matrix: WATER						
Volatile Organic Compounds						
Acetone	<30		30	ug/L	01-DEC-17	2700
Benzene	0.85		0.50	ug/L	01-DEC-17	5
Bromodichloromethane	<2.0		2.0	ug/L	01-DEC-17	16
Bromoform	<5.0		5.0	ug/L	01-DEC-17	25
Bromomethane	<0.50		0.50	ug/L	01-DEC-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	01-DEC-17	5
Chlorobenzene	<0.50		0.50	ug/L	01-DEC-17	30
Dibromochloromethane	<2.0		2.0	ug/L	01-DEC-17	25
Chloroform	<1.0		1.0	ug/L	01-DEC-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	01-DEC-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	01-DEC-17	590
1,1-Dichloroethane	1.11		0.50	ug/L	01-DEC-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
1,1-Dichloroethylene	18.6		0.50	ug/L	01-DEC-17	*14
cis-1,2-Dichloroethylene	1530	DLHC	50	ug/L	04-DEC-17	*17
trans-1,2-Dichloroethylene	14.8		0.50	ug/L	01-DEC-17	17
Methylene Chloride	<5.0		5.0	ug/L	01-DEC-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	01-DEC-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	04-DEC-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	01-DEC-17	2.4
n-Hexane	<0.50		0.50	ug/L	01-DEC-17	520
Methyl Ethyl Ketone	<20		20	ug/L	01-DEC-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	01-DEC-17	640
MTBE	<2.0		2.0	ug/L	01-DEC-17	15
Styrene	<0.50		0.50	ug/L	01-DEC-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1
Tetrachloroethylene	1.25		0.50	ug/L	01-DEC-17	17
Toluene	0.53		0.50	ug/L	01-DEC-17	24
1,1,1-Trichloroethane	<34	DLQ	34	ug/L	01-DEC-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
Trichloroethylene	12100	DLHC	50	ug/L	04-DEC-17	*5
Trichlorofluoromethane	<5.0		5.0	ug/L	01-DEC-17	150
Vinyl chloride	122		0.50	ug/L	01-DEC-17	*1.7
o-Xylene	<0.30		0.30	ug/L	01-DEC-17	
m+p-Xylenes	<0.40		0.40	ug/L	01-DEC-17	
Xylenes (Total)	<0.50		0.50	ug/L	04-DEC-17	300
Surrogate: 4-Bromofluorobenzene	97.9		70-130	%	01-DEC-17	
Surrogate: 1,4-Difluorobenzene	101.2		70-130	%	01-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2029000-5	BH42D						
Sampled By:	SDB on 28-NOV-17 @ 09:35						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	01-DEC-17	2700
	Benzene	<0.50		0.50	ug/L	01-DEC-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	01-DEC-17	16
	Bromoform	<5.0		5.0	ug/L	01-DEC-17	25
	Bromomethane	<0.50		0.50	ug/L	01-DEC-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	01-DEC-17	5
	Chlorobenzene	<0.50		0.50	ug/L	01-DEC-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	01-DEC-17	25
	Chloroform	<1.0		1.0	ug/L	01-DEC-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	01-DEC-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	01-DEC-17	590
	1,1-Dichloroethane	0.54		0.50	ug/L	01-DEC-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
	1,1-Dichloroethylene	11.9		0.50	ug/L	01-DEC-17	14
	cis-1,2-Dichloroethylene	1380	DLHC	13	ug/L	04-DEC-17	*17
	trans-1,2-Dichloroethylene	11.2		0.50	ug/L	01-DEC-17	17
	Methylene Chloride	<5.0		5.0	ug/L	01-DEC-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	01-DEC-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	04-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	01-DEC-17	2.4
	n-Hexane	<0.50		0.50	ug/L	01-DEC-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	01-DEC-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	01-DEC-17	640
	MTBE	<2.0		2.0	ug/L	01-DEC-17	15
	Styrene	<0.50		0.50	ug/L	01-DEC-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	01-DEC-17	17
	Toluene	<0.50		0.50	ug/L	01-DEC-17	24
	1,1,1-Trichloroethane	<30	DLQ	30	ug/L	01-DEC-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
	Trichloroethylene	4130	DLHC	13	ug/L	04-DEC-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	01-DEC-17	150
	Vinyl chloride	145		0.50	ug/L	01-DEC-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	01-DEC-17	
	m+p-Xylenes	<0.40		0.40	ug/L	01-DEC-17	
	Xylenes (Total)	<0.50		0.50	ug/L	04-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	98.2		70-130	%	01-DEC-17	
	Surrogate: 1,4-Difluorobenzene	100.5		70-130	%	01-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2029000-6	BH43D						
Sampled By:	SDB on 28-NOV-17 @ 11:00						
Matrix:	WATER						
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	01-DEC-17	2700
	Benzene	<0.50		0.50	ug/L	01-DEC-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	01-DEC-17	16
	Bromoform	<5.0		5.0	ug/L	01-DEC-17	25
	Bromomethane	<0.50		0.50	ug/L	01-DEC-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	01-DEC-17	5
	Chlorobenzene	<0.50		0.50	ug/L	01-DEC-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	01-DEC-17	25
	Chloroform	<1.0		1.0	ug/L	01-DEC-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	01-DEC-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	01-DEC-17	590
	1,1-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
	1,1-Dichloroethylene	2.33		0.50	ug/L	01-DEC-17	14
	cis-1,2-Dichloroethylene	273		0.50	ug/L	04-DEC-17	*17
	trans-1,2-Dichloroethylene	4.06		0.50	ug/L	01-DEC-17	17
	Methylene Chloride	<5.0		5.0	ug/L	01-DEC-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	01-DEC-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	04-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	01-DEC-17	2.4
	n-Hexane	<0.50		0.50	ug/L	01-DEC-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	01-DEC-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	01-DEC-17	640
	MTBE	<2.0		2.0	ug/L	01-DEC-17	15
	Styrene	<0.50		0.50	ug/L	01-DEC-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	01-DEC-17	17
	Toluene	<0.50		0.50	ug/L	01-DEC-17	24
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	04-DEC-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
	Trichloroethylene	273		0.50	ug/L	04-DEC-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	01-DEC-17	150
	Vinyl chloride	16.6		0.50	ug/L	01-DEC-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	01-DEC-17	
	m+p-Xylenes	<0.40		0.40	ug/L	01-DEC-17	
	Xylenes (Total)	<0.50		0.50	ug/L	04-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	97.8		70-130	%	01-DEC-17	
	Surrogate: 1,4-Difluorobenzene	100.5		70-130	%	01-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2029000-7	BH45D						
Sampled By:	SDB on 28-NOV-17 @ 12:10						
Matrix:	WATER						#1
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	01-DEC-17	2700
	Benzene	<0.50		0.50	ug/L	01-DEC-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	01-DEC-17	16
	Bromoform	<5.0		5.0	ug/L	01-DEC-17	25
	Bromomethane	<0.50		0.50	ug/L	01-DEC-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	01-DEC-17	5
	Chlorobenzene	<0.50		0.50	ug/L	01-DEC-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	01-DEC-17	25
	Chloroform	<1.0		1.0	ug/L	01-DEC-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	01-DEC-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	01-DEC-17	590
	1,1-Dichloroethane	1.14		0.50	ug/L	01-DEC-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
	1,1-Dichloroethylene	9.85		0.50	ug/L	01-DEC-17	14
	cis-1,2-Dichloroethylene	828	DLHC	13	ug/L	04-DEC-17	*17
	trans-1,2-Dichloroethylene	9.92		0.50	ug/L	01-DEC-17	17
	Methylene Chloride	<5.0		5.0	ug/L	01-DEC-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	01-DEC-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	04-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	01-DEC-17	2.4
	n-Hexane	<0.50		0.50	ug/L	01-DEC-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	01-DEC-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	01-DEC-17	640
	MTBE	<2.0		2.0	ug/L	01-DEC-17	15
	Styrene	<0.50		0.50	ug/L	01-DEC-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	01-DEC-17	17
	Toluene	<0.50		0.50	ug/L	01-DEC-17	24
	1,1,1-Trichloroethane	<20	DLQ	20	ug/L	01-DEC-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
	Trichloroethylene	5040	DLHC	13	ug/L	04-DEC-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	01-DEC-17	150
	Vinyl chloride	79.8		0.50	ug/L	01-DEC-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	01-DEC-17	
	m+p-Xylenes	<0.40		0.40	ug/L	01-DEC-17	
	Xylenes (Total)	<0.50		0.50	ug/L	04-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	97.8		70-130	%	01-DEC-17	
	Surrogate: 1,4-Difluorobenzene	100.3		70-130	%	01-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2029000-8 BH109D						
Sampled By: SDB on 28-NOV-17 @ 10:40						
Matrix: WATER						
Volatile Organic Compounds						
Acetone	<30		30	ug/L	01-DEC-17	2700
Benzene	<0.50		0.50	ug/L	01-DEC-17	5
Bromodichloromethane	<2.0		2.0	ug/L	01-DEC-17	16
Bromoform	<5.0		5.0	ug/L	01-DEC-17	25
Bromomethane	<0.50		0.50	ug/L	01-DEC-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	01-DEC-17	5
Chlorobenzene	<0.50		0.50	ug/L	01-DEC-17	30
Dibromochloromethane	<2.0		2.0	ug/L	01-DEC-17	25
Chloroform	<1.0		1.0	ug/L	01-DEC-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	01-DEC-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	01-DEC-17	590
1,1-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
1,1-Dichloroethylene	<0.50		0.50	ug/L	01-DEC-17	14
cis-1,2-Dichloroethylene	5.20		0.50	ug/L	01-DEC-17	17
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	01-DEC-17	17
Methylene Chloride	<5.0		5.0	ug/L	01-DEC-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	01-DEC-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	04-DEC-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	01-DEC-17	2.4
n-Hexane	<0.50		0.50	ug/L	01-DEC-17	520
Methyl Ethyl Ketone	<20		20	ug/L	01-DEC-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	01-DEC-17	640
MTBE	<2.0		2.0	ug/L	01-DEC-17	15
Styrene	<0.50		0.50	ug/L	01-DEC-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	01-DEC-17	17
Toluene	0.50		0.50	ug/L	01-DEC-17	24
1,1,1-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
Trichloroethylene	23.0		0.50	ug/L	04-DEC-17	*5
Trichlorofluoromethane	<5.0		5.0	ug/L	01-DEC-17	150
Vinyl chloride	0.57		0.50	ug/L	01-DEC-17	1.7
o-Xylene	<0.30		0.30	ug/L	01-DEC-17	
m+p-Xylenes	<0.40		0.40	ug/L	01-DEC-17	
Xylenes (Total)	<0.50		0.50	ug/L	04-DEC-17	300
Surrogate: 4-Bromofluorobenzene	98.2		70-130	%	01-DEC-17	
Surrogate: 1,4-Difluorobenzene	100.5		70-130	%	01-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2029000-9 BH1090D						
Sampled By: SDB on 28-NOV-17 @ 10:50						
Matrix: WATER						
Volatile Organic Compounds						
Acetone	<30		30	ug/L	01-DEC-17	2700
Benzene	<0.50		0.50	ug/L	01-DEC-17	5
Bromodichloromethane	<2.0		2.0	ug/L	01-DEC-17	16
Bromoform	<5.0		5.0	ug/L	01-DEC-17	25
Bromomethane	<0.50		0.50	ug/L	01-DEC-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	01-DEC-17	5
Chlorobenzene	<0.50		0.50	ug/L	01-DEC-17	30
Dibromochloromethane	<2.0		2.0	ug/L	01-DEC-17	25
Chloroform	<1.0		1.0	ug/L	01-DEC-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	01-DEC-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	01-DEC-17	590
1,1-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
1,1-Dichloroethylene	<0.50		0.50	ug/L	01-DEC-17	14
cis-1,2-Dichloroethylene	5.05		0.50	ug/L	01-DEC-17	17
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	01-DEC-17	17
Methylene Chloride	<5.0		5.0	ug/L	01-DEC-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	01-DEC-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	04-DEC-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	01-DEC-17	2.4
n-Hexane	<0.50		0.50	ug/L	01-DEC-17	520
Methyl Ethyl Ketone	<20		20	ug/L	01-DEC-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	01-DEC-17	640
MTBE	<2.0		2.0	ug/L	01-DEC-17	15
Styrene	<0.50		0.50	ug/L	01-DEC-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	01-DEC-17	17
Toluene	0.51		0.50	ug/L	01-DEC-17	24
1,1,1-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
Trichloroethylene	23.1		0.50	ug/L	04-DEC-17	*5
Trichlorofluoromethane	<5.0		5.0	ug/L	01-DEC-17	150
Vinyl chloride	<0.50		0.50	ug/L	01-DEC-17	1.7
o-Xylene	<0.30		0.30	ug/L	01-DEC-17	
m+p-Xylenes	<0.40		0.40	ug/L	01-DEC-17	
Xylenes (Total)	<0.50		0.50	ug/L	04-DEC-17	300
Surrogate: 4-Bromofluorobenzene	96.9		70-130	%	01-DEC-17	
Surrogate: 1,4-Difluorobenzene	100.0		70-130	%	01-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2029000-10	BH114D						
Sampled By:	SDB on 28-NOV-17 @ 09:45						
Matrix:	WATER						
Volatile Organic Compounds							
	Acetone	<30		30	ug/L	01-DEC-17	2700
	Benzene	<0.50		0.50	ug/L	01-DEC-17	5
	Bromodichloromethane	<2.0		2.0	ug/L	01-DEC-17	16
	Bromoform	<5.0		5.0	ug/L	01-DEC-17	25
	Bromomethane	<0.50		0.50	ug/L	01-DEC-17	0.89
	Carbon tetrachloride	<0.20		0.20	ug/L	01-DEC-17	5
	Chlorobenzene	<0.50		0.50	ug/L	01-DEC-17	30
	Dibromochloromethane	<2.0		2.0	ug/L	01-DEC-17	25
	Chloroform	<1.0		1.0	ug/L	01-DEC-17	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	01-DEC-17	0.2
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	3
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	59
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	1
	Dichlorodifluoromethane	<2.0		2.0	ug/L	01-DEC-17	590
	1,1-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
	1,2-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
	1,1-Dichloroethylene	1.22		0.50	ug/L	01-DEC-17	14
	cis-1,2-Dichloroethylene	19.4		0.50	ug/L	01-DEC-17	*17
	trans-1,2-Dichloroethylene	1.66		0.50	ug/L	01-DEC-17	17
	Methylene Chloride	<5.0		5.0	ug/L	01-DEC-17	50
	1,2-Dichloropropane	<0.50		0.50	ug/L	01-DEC-17	5
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17	
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	04-DEC-17	0.5
	Ethylbenzene	<0.50		0.50	ug/L	01-DEC-17	2.4
	n-Hexane	<0.50		0.50	ug/L	01-DEC-17	520
	Methyl Ethyl Ketone	<20		20	ug/L	01-DEC-17	1800
	Methyl Isobutyl Ketone	<20		20	ug/L	01-DEC-17	640
	MTBE	<2.0		2.0	ug/L	01-DEC-17	15
	Styrene	<0.50		0.50	ug/L	01-DEC-17	5.4
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1.1
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1
	Tetrachloroethylene	<0.50		0.50	ug/L	01-DEC-17	17
	Toluene	0.52		0.50	ug/L	01-DEC-17	24
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	200
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	5
	Trichloroethylene	560	DLHC	2.5	ug/L	04-DEC-17	*5
	Trichlorofluoromethane	<5.0		5.0	ug/L	01-DEC-17	150
	Vinyl chloride	2.52		0.50	ug/L	01-DEC-17	*1.7
	o-Xylene	<0.30		0.30	ug/L	01-DEC-17	
	m+p-Xylenes	<0.40		0.40	ug/L	01-DEC-17	
	Xylenes (Total)	<0.50		0.50	ug/L	04-DEC-17	300
	Surrogate: 4-Bromofluorobenzene	98.3		70-130	%	01-DEC-17	
	Surrogate: 1,4-Difluorobenzene	100.7		70-130	%	01-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2029000-11	TRIP BLANK									
Sampled By:	SDB on 28-NOV-17									
Matrix:	WATER						#1			
Volatile Organic Compounds										
	Acetone	<30		30	ug/L	01-DEC-17	2700			
	Benzene	<0.50		0.50	ug/L	01-DEC-17	5			
	Bromodichloromethane	<2.0		2.0	ug/L	01-DEC-17	16			
	Bromoform	<5.0		5.0	ug/L	01-DEC-17	25			
	Bromomethane	<0.50		0.50	ug/L	01-DEC-17	0.89			
	Carbon tetrachloride	<0.20		0.20	ug/L	01-DEC-17	5			
	Chlorobenzene	<0.50		0.50	ug/L	01-DEC-17	30			
	Dibromochloromethane	<2.0		2.0	ug/L	01-DEC-17	25			
	Chloroform	<1.0		1.0	ug/L	01-DEC-17	22			
	1,2-Dibromoethane	<0.20		0.20	ug/L	01-DEC-17	0.2			
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	3			
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	59			
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	01-DEC-17	1			
	Dichlorodifluoromethane	<2.0		2.0	ug/L	01-DEC-17	590			
	1,1-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5			
	1,2-Dichloroethane	<0.50		0.50	ug/L	01-DEC-17	5			
	1,1-Dichloroethylene	<0.50		0.50	ug/L	01-DEC-17	14			
	cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	01-DEC-17	17			
	trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	01-DEC-17	17			
	Methylene Chloride	<5.0		5.0	ug/L	01-DEC-17	50			
	1,2-Dichloropropane	<0.50		0.50	ug/L	01-DEC-17	5			
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17				
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	01-DEC-17				
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	01-DEC-17	0.5			
	Ethylbenzene	<0.50		0.50	ug/L	01-DEC-17	2.4			
	n-Hexane	<0.50		0.50	ug/L	01-DEC-17	520			
	Methyl Ethyl Ketone	<20		20	ug/L	01-DEC-17	1800			
	Methyl Isobutyl Ketone	<20		20	ug/L	01-DEC-17	640			
	MTBE	<2.0		2.0	ug/L	01-DEC-17	15			
	Styrene	<0.50		0.50	ug/L	01-DEC-17	5.4			
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1.1			
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	01-DEC-17	1			
	Tetrachloroethylene	<0.50		0.50	ug/L	01-DEC-17	17			
	Toluene	<0.50		0.50	ug/L	01-DEC-17	24			
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	200			
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	01-DEC-17	5			
	Trichloroethylene	<0.50		0.50	ug/L	01-DEC-17	5			
	Trichlorofluoromethane	<5.0		5.0	ug/L	01-DEC-17	150			
	Vinyl chloride	<0.50		0.50	ug/L	01-DEC-17	1.7			
	o-Xylene	<0.30		0.30	ug/L	01-DEC-17				
	m+p-Xylenes	<0.40		0.40	ug/L	01-DEC-17				
	Xylenes (Total)	<0.50		0.50	ug/L	01-DEC-17	300			
	Surrogate: 4-Bromofluorobenzene	98.8		70-130	%	01-DEC-17				
	Surrogate: 1,4-Difluorobenzene	101.1		70-130	%	01-DEC-17				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Reference Information

Qualifiers for Sample Submission Listed:

Qualifier	Description
CINT	Cooling initiated. Samples were received packed with ice or ice packs and were sampled the same day as received.

Sample Parameter Qualifier key listed:

Qualifier	Description
DLQ	Detection Limit raised due to co-eluting interference. GCMS qualifier ion ratio did not meet acceptance criteria.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
VOC-1,3-DCP-CALC-WT	Water	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Water	VOC by GCMS HS O.Reg 153/04 (July 2011)	SW846 8260

Liquid samples are analyzed by headspace GC/MSD.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

15-611907

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2029000 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3899356								
WG2672399-4 DUP		**WG2672399-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	01-DEC-17
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	01-DEC-17
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-DEC-17
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	01-DEC-17
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	01-DEC-17
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	01-DEC-17
cis-1,2-Dichloroethylene		5.20	5.51		ug/L	5.8	30	01-DEC-17
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	01-DEC-17
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-DEC-17
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-DEC-17
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	01-DEC-17
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	01-DEC-17
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	01-DEC-17
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	01-DEC-17
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-DEC-17
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	01-DEC-17
Styrene		<0.50	<0.50		ug/L			01-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3899356								
WG2672399-4 DUP		**WG2672399-3**						
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
Toluene		0.50	0.54		ug/L	7.7	30	01-DEC-17
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-DEC-17
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	01-DEC-17
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	01-DEC-17
Vinyl chloride		0.57	0.61		ug/L	6.8	30	01-DEC-17
WG2672399-1 LCS								
1,1,1,2-Tetrachloroethane			102.1		%		70-130	01-DEC-17
1,1,2,2-Tetrachloroethane			100.0		%		70-130	01-DEC-17
1,1,1-Trichloroethane			104.5		%		70-130	01-DEC-17
1,1,2-Trichloroethane			102.5		%		70-130	01-DEC-17
1,1-Dichloroethane			102.0		%		70-130	01-DEC-17
1,1-Dichloroethylene			98.3		%		70-130	01-DEC-17
1,2-Dibromoethane			103.0		%		70-130	01-DEC-17
1,2-Dichlorobenzene			103.5		%		70-130	01-DEC-17
1,2-Dichloroethane			103.4		%		70-130	01-DEC-17
1,2-Dichloropropane			105.5		%		70-130	01-DEC-17
1,3-Dichlorobenzene			101.9		%		70-130	01-DEC-17
1,4-Dichlorobenzene			103.7		%		70-130	01-DEC-17
Acetone			111.8		%		60-140	01-DEC-17
Benzene			104.6		%		70-130	01-DEC-17
Bromodichloromethane			100.6		%		70-130	01-DEC-17
Bromoform			98.2		%		70-130	01-DEC-17
Bromomethane			101.9		%		60-140	01-DEC-17
Carbon tetrachloride			102.7		%		70-130	01-DEC-17
Chlorobenzene			102.9		%		70-130	01-DEC-17
Chloroform			103.1		%		70-130	01-DEC-17
cis-1,2-Dichloroethylene			103.2		%		70-130	01-DEC-17
cis-1,3-Dichloropropene			105.9		%		70-130	01-DEC-17
Dibromochloromethane			104.8		%		70-130	01-DEC-17
Dichlorodifluoromethane			101.7		%		50-140	01-DEC-17
Ethylbenzene			103.9		%		70-130	01-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3899356								
WG2672399-1 LCS								
n-Hexane			86.9		%		70-130	01-DEC-17
m+p-Xylenes			104.5		%		70-130	01-DEC-17
Methyl Ethyl Ketone			105.5		%		60-140	01-DEC-17
Methyl Isobutyl Ketone			106.8		%		60-140	01-DEC-17
Methylene Chloride			103.5		%		70-130	01-DEC-17
MTBE			103.0		%		70-130	01-DEC-17
o-Xylene			103.1		%		70-130	01-DEC-17
Styrene			102.9		%		70-130	01-DEC-17
Tetrachloroethylene			103.5		%		70-130	01-DEC-17
Toluene			104.7		%		70-130	01-DEC-17
trans-1,2-Dichloroethylene			105.8		%		70-130	01-DEC-17
trans-1,3-Dichloropropene			106.0		%		70-130	01-DEC-17
Trichloroethylene			104.9		%		70-130	01-DEC-17
Trichlorofluoromethane			103.6		%		60-140	01-DEC-17
Vinyl chloride			105.9		%		60-140	01-DEC-17
WG2672399-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	01-DEC-17
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	01-DEC-17
1,1,1-Trichloroethane			<0.50		ug/L		0.5	01-DEC-17
1,1,2-Trichloroethane			<0.50		ug/L		0.5	01-DEC-17
1,1-Dichloroethane			<0.50		ug/L		0.5	01-DEC-17
1,1-Dichloroethylene			<0.50		ug/L		0.5	01-DEC-17
1,2-Dibromoethane			<0.20		ug/L		0.2	01-DEC-17
1,2-Dichlorobenzene			<0.50		ug/L		0.5	01-DEC-17
1,2-Dichloroethane			<0.50		ug/L		0.5	01-DEC-17
1,2-Dichloropropane			<0.50		ug/L		0.5	01-DEC-17
1,3-Dichlorobenzene			<0.50		ug/L		0.5	01-DEC-17
1,4-Dichlorobenzene			<0.50		ug/L		0.5	01-DEC-17
Acetone			<30		ug/L		30	01-DEC-17
Benzene			<0.50		ug/L		0.5	01-DEC-17
Bromodichloromethane			<2.0		ug/L		2	01-DEC-17
Bromoform			<5.0		ug/L		5	01-DEC-17
Bromomethane			<0.50		ug/L		0.5	01-DEC-17
Carbon tetrachloride			<0.20		ug/L		0.2	01-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3899356								
WG2672399-2 MB								
Chlorobenzene			<0.50		ug/L		0.5	01-DEC-17
Chloroform			<1.0		ug/L		1	01-DEC-17
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	01-DEC-17
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	01-DEC-17
Dibromochloromethane			<2.0		ug/L		2	01-DEC-17
Dichlorodifluoromethane			<2.0		ug/L		2	01-DEC-17
Ethylbenzene			<0.50		ug/L		0.5	01-DEC-17
n-Hexane			<0.50		ug/L		0.5	01-DEC-17
m+p-Xylenes			<0.40		ug/L		0.4	01-DEC-17
Methyl Ethyl Ketone			<20		ug/L		20	01-DEC-17
Methyl Isobutyl Ketone			<20		ug/L		20	01-DEC-17
Methylene Chloride			<5.0		ug/L		5	01-DEC-17
MTBE			<2.0		ug/L		2	01-DEC-17
o-Xylene			<0.30		ug/L		0.3	01-DEC-17
Styrene			<0.50		ug/L		0.5	01-DEC-17
Tetrachloroethylene			<0.50		ug/L		0.5	01-DEC-17
Toluene			<0.50		ug/L		0.5	01-DEC-17
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	01-DEC-17
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	01-DEC-17
Trichloroethylene			<0.50		ug/L		0.5	01-DEC-17
Trichlorofluoromethane			<5.0		ug/L		5	01-DEC-17
Vinyl chloride			<0.50		ug/L		0.5	01-DEC-17
Surrogate: 1,4-Difluorobenzene			101.6		%		70-130	01-DEC-17
Surrogate: 4-Bromofluorobenzene			99.6		%		70-130	01-DEC-17
WG2672399-5 MS		**WG2672399-3**						
1,1,1,2-Tetrachloroethane			100.9		%		50-140	01-DEC-17
1,1,2,2-Tetrachloroethane			96.7		%		50-140	01-DEC-17
1,1,1-Trichloroethane			101.3		%		50-140	01-DEC-17
1,1,2-Trichloroethane			102.6		%		50-140	01-DEC-17
1,1-Dichloroethane			100.5		%		50-140	01-DEC-17
1,1-Dichloroethylene			91.3		%		50-140	01-DEC-17
1,2-Dibromoethane			102.0		%		50-140	01-DEC-17
1,2-Dichlorobenzene			102.2		%		50-140	01-DEC-17
1,2-Dichloroethane			103.7		%		50-140	01-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3899356								
WG2672399-5 MS		**WG2672399-3**						
1,2-Dichloropropane			105.6		%		50-140	01-DEC-17
1,3-Dichlorobenzene			101.5		%		50-140	01-DEC-17
1,4-Dichlorobenzene			102.1		%		50-140	01-DEC-17
Acetone			115.0		%		50-140	01-DEC-17
Benzene			102.8		%		50-140	01-DEC-17
Bromodichloromethane			100.0		%		50-140	01-DEC-17
Bromoform			95.1		%		50-140	01-DEC-17
Bromomethane			83.2		%		50-140	01-DEC-17
Carbon tetrachloride			98.4		%		50-140	01-DEC-17
Chlorobenzene			102.4		%		50-140	01-DEC-17
Chloroform			102.1		%		50-140	01-DEC-17
cis-1,2-Dichloroethylene			100.7		%		50-140	01-DEC-17
cis-1,3-Dichloropropene			99.96		%		50-140	01-DEC-17
Dibromochloromethane			103.5		%		50-140	01-DEC-17
Dichlorodifluoromethane			63.3		%		50-140	01-DEC-17
Ethylbenzene			103.0		%		50-140	01-DEC-17
n-Hexane			104.6		%		50-140	01-DEC-17
m+p-Xylenes			103.2		%		50-140	01-DEC-17
Methyl Ethyl Ketone			105.3		%		50-140	01-DEC-17
Methyl Isobutyl Ketone			107.0		%		50-140	01-DEC-17
Methylene Chloride			100.4		%		50-140	01-DEC-17
MTBE			101.9		%		50-140	01-DEC-17
o-Xylene			102.7		%		50-140	01-DEC-17
Styrene			101.6		%		50-140	01-DEC-17
Tetrachloroethylene			98.9		%		50-140	01-DEC-17
Toluene			103.8		%		50-140	01-DEC-17
trans-1,2-Dichloroethylene			100.8		%		50-140	01-DEC-17
trans-1,3-Dichloropropene			100.5		%		50-140	01-DEC-17
Trichloroethylene			99.0		%		50-140	01-DEC-17
Trichlorofluoromethane			96.3		%		50-140	01-DEC-17
Vinyl chloride			91.6		%		50-140	01-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3901569								
WG2672399-4 DUP		**WG2672399-3**						
Trichloroethylene		23.0	23.3		ug/L	1.4	30	04-DEC-17
WG2668331-1 LCS								
1,1,1-Trichloroethane			102.6		%		70-130	04-DEC-17
cis-1,2-Dichloroethylene			102.5		%		70-130	04-DEC-17
Trichloroethylene			103.3		%		70-130	04-DEC-17
WG2668331-2 MB								
1,1,1-Trichloroethane			<0.50		ug/L		0.5	04-DEC-17
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	04-DEC-17
Trichloroethylene			<0.50		ug/L		0.5	04-DEC-17

Quality Control Report

Workorder: L2029000 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

ALS Environmental
www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L2029000-COFC

COC Number: 15 - 611907

Page 1 of 1

Report To	Contact and company name below will appear on the final report
Company:	MJF Consultants Inc.
Contact:	S. Buck
Phone:	905 639 2552
	Company address below will appear on the final report
Street:	
City/Province:	
Postal Code:	
Invoice To	Same as Report To [X] YES [ ] NO
	Copy of Invoice with Report [ ] YES [X] NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	[X] PDF [ ] EXCEL [ ] EDD (DIGITAL)
Quality Control (QC) Report with Report	[X] YES [ ] NO
[X] Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	[X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax	sbuck@emt85.com
Email 2	tjones@emt85.com
Email 3	

Invoice Distribution	
Select Invoice Distribution:	[X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax	
Email 2	

Project Information	
ALS Account # / Quote #:	
Job #:	38934-100
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#:
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2029000

ALS Contact: MLP

Sampler: SDB

Select Service Level Below - Please confirm all E&P TATs with your AM - surcharges will apply

Regular [R]: [X] Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4] [ ] | 3 day [P3] [ ] | 2 day [P2] [ ]

EMERGENCY: 1 Business day [E1] [ ] | Same Day, Weekend or Statutory holiday [E0] [ ]

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

VOCs

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	VOCs	Number of Containers
	BH12D	28-11-17	13:00	W	X	2
	BH13D		14:10		X	2
	BH14D		15:30		X	2
	BH15D		11:50		X	2
	BH42D		9:35		X	2
	BH43D		11:00		X	2
	BH45D		12:10		X	2
	BH109D		10:40		X	2
	BH109QD		10:50		X	2
	BH114D		9:45		X	2
	TRIP BLANK	NA	NA	NA	X	2

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? [ ] YES [X] NO

Are samples for human drinking water use? [ ] YES [X] NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

Compare to O.Reg 153/04 T.01 3 Coarse Standards

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen [ ] SIF Observations Yes [ ] No [ ]

Ice Packs [X] Ice Cubes [X] Custody seal intact Yes [ ] No [ ]

Cooling Initiated [X]

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
12.2°C			1.8		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: S. Buck	Date: 11/28/17	Time:	Received by: AARon BURTon	Date: 28-Nov-2017	Time: 16:30	Received by:	Date: 29-NOV-17	Time: 1630

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

OCTOBER 2015 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

MTE CONSULTANTS INC.
ATTN: Spencer Buck
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Date Received: 01-DEC-17
Report Date: 08-DEC-17 14:31 (MT)
Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2030566

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 17-621044
Legal Site Desc:

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	Guideline Limits #2
L2030566-1 BH55							
Sampled By: CLIENT on 01-DEC-17 @ 14:00							
Matrix: WATER							
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD			No Unit	05-DEC-17		
Dissolved Metals Filtration Location	FIELD			No Unit	05-DEC-17		
Antimony (Sb)-Dissolved	<0.10		0.10	ug/L	05-DEC-17	20000	20000
Arsenic (As)-Dissolved	0.29		0.10	ug/L	05-DEC-17	1900	1900
Barium (Ba)-Dissolved	19.0		0.10	ug/L	05-DEC-17	29000	29000
Beryllium (Be)-Dissolved	<0.10		0.10	ug/L	05-DEC-17	67	67
Boron (B)-Dissolved	35		10	ug/L	05-DEC-17	45000	45000
Cadmium (Cd)-Dissolved	<0.010		0.010	ug/L	05-DEC-17	2.7	2.7
Chromium (Cr)-Dissolved	<0.50		0.50	ug/L	05-DEC-17	810	810
Cobalt (Co)-Dissolved	0.37		0.10	ug/L	05-DEC-17	66	66
Copper (Cu)-Dissolved	1.17		0.20	ug/L	05-DEC-17	87	87
Lead (Pb)-Dissolved	<0.050		0.050	ug/L	05-DEC-17	25	25
Mercury (Hg)-Dissolved	<0.010		0.010	ug/L	05-DEC-17	0.29	2.8
Molybdenum (Mo)-Dissolved	0.921		0.050	ug/L	05-DEC-17	9200	9200
Nickel (Ni)-Dissolved	1.05		0.50	ug/L	05-DEC-17	490	490
Selenium (Se)-Dissolved	0.099		0.050	ug/L	05-DEC-17	63	63
Silver (Ag)-Dissolved	<0.050		0.050	ug/L	05-DEC-17	1.5	1.5
Sodium (Na)-Dissolved	53600		500	ug/L	05-DEC-17	2300000	2300000
Thallium (Tl)-Dissolved	<0.010		0.010	ug/L	05-DEC-17	510	510
Uranium (U)-Dissolved	2.78		0.010	ug/L	05-DEC-17	420	420
Vanadium (V)-Dissolved	<0.50		0.50	ug/L	05-DEC-17	250	250
Zinc (Zn)-Dissolved	3.1		1.0	ug/L	05-DEC-17	1100	1100
Speciated Metals							
Chromium, Hexavalent	<1.0		1.0	ug/L	07-DEC-17	140	140
Volatile Organic Compounds							
Acetone	58		30	ug/L	06-DEC-17	130000	130000
Benzene	<0.50		0.50	ug/L	06-DEC-17	44	430
Bromodichloromethane	<2.0		2.0	ug/L	06-DEC-17	85000	85000
Bromoform	<5.0		5.0	ug/L	06-DEC-17	380	770
Bromomethane	<0.50		0.50	ug/L	06-DEC-17	5.6	56
Carbon tetrachloride	<0.20		0.20	ug/L	06-DEC-17	0.79	8.4
Chlorobenzene	<0.50		0.50	ug/L	06-DEC-17	630	630
Dibromochloromethane	<2.0		2.0	ug/L	06-DEC-17	82000	82000
Chloroform	<1.0		1.0	ug/L	06-DEC-17	2.4	22
1,2-Dibromoethane	<0.20		0.20	ug/L	06-DEC-17	0.25	0.83
1,2-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	4600	9600
1,3-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	9600	9600
1,4-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	8	67
Dichlorodifluoromethane	<2.0		2.0	ug/L	06-DEC-17	4400	4400
1,1-Dichloroethane	<0.50		0.50	ug/L	06-DEC-17	320	3100
1,2-Dichloroethane	<0.50		0.50	ug/L	06-DEC-17	1.6	12
1,1-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17
Methylene Chloride	<5.0		5.0	ug/L	06-DEC-17	610	5500

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - T3 Non-Potable Ground Water (Coarse and Fine)

#1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse) **#2: T3-Non-Potable Ground Water-All Types of Property Uses (Fine)**

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	Guideline Limits #2		
L2030566-1 BH55									
Sampled By: CLIENT on 01-DEC-17 @ 14:00									
Matrix: WATER									
Volatile Organic Compounds									
1,2-Dichloropropane	<0.50		0.50	ug/L	06-DEC-17	16	140		
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	06-DEC-17				
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	06-DEC-17				
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	06-DEC-17	5.2	45		
Ethylbenzene	<0.50		0.50	ug/L	06-DEC-17	2300	2300		
n-Hexane	<0.50		0.50	ug/L	06-DEC-17	51	520		
Methyl Ethyl Ketone	<20		20	ug/L	06-DEC-17	470000	1500000		
Methyl Isobutyl Ketone	<20		20	ug/L	06-DEC-17	140000	580000		
MTBE	<2.0		2.0	ug/L	06-DEC-17	190	1400		
Styrene	<0.50		0.50	ug/L	06-DEC-17	1300	9100		
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	06-DEC-17	3.3	28		
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	06-DEC-17	3.2	15		
Tetrachloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
Toluene	4.63		0.50	ug/L	06-DEC-17	18000	18000		
1,1,1-Trichloroethane	<0.50		0.50	ug/L	06-DEC-17	640	6700		
1,1,2-Trichloroethane	<0.50		0.50	ug/L	06-DEC-17	4.7	30		
Trichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
Trichlorofluoromethane	<5.0		5.0	ug/L	06-DEC-17	2500	2500		
Vinyl chloride	<0.50		0.50	ug/L	06-DEC-17	0.5	1.7		
o-Xylene	0.57		0.30	ug/L	06-DEC-17				
m+p-Xylenes	1.26		0.40	ug/L	06-DEC-17				
Xylenes (Total)	1.83		0.50	ug/L	06-DEC-17	4200	4200		
Surrogate: 4-Bromofluorobenzene	98.9		70-130	%	06-DEC-17				
Surrogate: 1,4-Difluorobenzene	101.7		70-130	%	06-DEC-17				
L2030566-2 BH46D									
Sampled By: CLIENT on 01-DEC-17 @ 13:10									
Matrix: WATER									
Volatile Organic Compounds									
Acetone	<30		30	ug/L	06-DEC-17	130000	130000		
Benzene	<0.50		0.50	ug/L	06-DEC-17	44	430		
Bromodichloromethane	<2.0		2.0	ug/L	06-DEC-17	85000	85000		
Bromoform	<5.0		5.0	ug/L	06-DEC-17	380	770		
Bromomethane	<0.50		0.50	ug/L	06-DEC-17	5.6	56		
Carbon tetrachloride	<0.20		0.20	ug/L	06-DEC-17	0.79	8.4		
Chlorobenzene	<0.50		0.50	ug/L	06-DEC-17	630	630		
Dibromochloromethane	<2.0		2.0	ug/L	06-DEC-17	82000	82000		
Chloroform	<1.0		1.0	ug/L	06-DEC-17	2.4	22		
1,2-Dibromoethane	<0.20		0.20	ug/L	06-DEC-17	0.25	0.83		
1,2-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	4600	9600		
1,3-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	9600	9600		
1,4-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	8	67		
Dichlorodifluoromethane	<2.0		2.0	ug/L	06-DEC-17	4400	4400		
1,1-Dichloroethane	<0.50		0.50	ug/L	06-DEC-17	320	3100		
1,2-Dichloroethane	<0.50		0.50	ug/L	06-DEC-17	1.6	12		
1,1-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - T3 Non-Potable Ground Water (Coarse and Fine)

#1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse) **#2: T3-Non-Potable Ground Water-All Types of Property Uses (Fine)**

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2
L2030566-2	BH46D							
Sampled By:	CLIENT on 01-DEC-17 @ 13:10							
Matrix:	WATER							
Volatile Organic Compounds								
	cis-1,2-Dichloroethylene	4.43		0.50	ug/L	06-DEC-17	*1.6	17
	trans-1,2-Dichloroethylene	0.69		0.50	ug/L	06-DEC-17	1.6	17
	Methylene Chloride	<5.0		5.0	ug/L	06-DEC-17	610	5500
	1,2-Dichloropropane	<0.50		0.50	ug/L	06-DEC-17	16	140
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	06-DEC-17		
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	06-DEC-17		
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	06-DEC-17	5.2	45
	Ethylbenzene	<0.50		0.50	ug/L	06-DEC-17	2300	2300
	n-Hexane	<0.50		0.50	ug/L	06-DEC-17	51	520
	Methyl Ethyl Ketone	<20		20	ug/L	06-DEC-17	470000	1500000
	Methyl Isobutyl Ketone	<20		20	ug/L	06-DEC-17	140000	580000
	MTBE	<2.0		2.0	ug/L	06-DEC-17	190	1400
	Styrene	<0.50		0.50	ug/L	06-DEC-17	1300	9100
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	06-DEC-17	3.3	28
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	06-DEC-17	3.2	15
	Tetrachloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17
	Toluene	<0.50		0.50	ug/L	06-DEC-17	18000	18000
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	06-DEC-17	640	6700
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	06-DEC-17	4.7	30
	Trichloroethylene	0.67		0.50	ug/L	06-DEC-17	1.6	17
	Trichlorofluoromethane	<5.0		5.0	ug/L	06-DEC-17	2500	2500
	Vinyl chloride	1.64		0.50	ug/L	06-DEC-17	*0.5	1.7
	o-Xylene	<0.30		0.30	ug/L	06-DEC-17		
	m+p-Xylenes	<0.40		0.40	ug/L	06-DEC-17		
	Xylenes (Total)	<0.50		0.50	ug/L	06-DEC-17	4200	4200
	Surrogate: 4-Bromofluorobenzene	98.2		70-130	%	06-DEC-17		
	Surrogate: 1,4-Difluorobenzene	99.4		70-130	%	06-DEC-17		
L2030566-3	BH47D							
Sampled By:	CLIENT on 01-DEC-17 @ 12:15							
Matrix:	WATER							
Volatile Organic Compounds								
	Acetone	<30		30	ug/L	06-DEC-17	130000	130000
	Benzene	<0.50		0.50	ug/L	06-DEC-17	44	430
	Bromodichloromethane	<2.0		2.0	ug/L	06-DEC-17	85000	85000
	Bromoform	<5.0		5.0	ug/L	06-DEC-17	380	770
	Bromomethane	<0.50		0.50	ug/L	06-DEC-17	5.6	56
	Carbon tetrachloride	<0.20		0.20	ug/L	06-DEC-17	0.79	8.4
	Chlorobenzene	<0.50		0.50	ug/L	06-DEC-17	630	630
	Dibromochloromethane	<2.0		2.0	ug/L	06-DEC-17	82000	82000
	Chloroform	<1.0		1.0	ug/L	06-DEC-17	2.4	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	06-DEC-17	0.25	0.83
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	4600	9600
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	9600	9600
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	8	67
	Dichlorodifluoromethane	<2.0		2.0	ug/L	06-DEC-17	4400	4400

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - T3 Non-Potable Ground Water (Coarse and Fine)

#1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse) **#2: T3-Non-Potable Ground Water-All Types of Property Uses (Fine)**

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	Guideline Limits #2
L2030566-3 BH47D							
Sampled By: CLIENT on 01-DEC-17 @ 12:15							
Matrix: WATER							
Volatile Organic Compounds							
1,1-Dichloroethane	<0.50		0.50	ug/L	06-DEC-17	320	3100
1,2-Dichloroethane	<0.50		0.50	ug/L	06-DEC-17	1.6	12
1,1-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17
cis-1,2-Dichloroethylene	4.86		0.50	ug/L	06-DEC-17	*1.6	17
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17
Methylene Chloride	<5.0		5.0	ug/L	06-DEC-17	610	5500
1,2-Dichloropropane	<0.50		0.50	ug/L	06-DEC-17	16	140
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	06-DEC-17		
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	06-DEC-17		
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	06-DEC-17	5.2	45
Ethylbenzene	<0.50		0.50	ug/L	06-DEC-17	2300	2300
n-Hexane	<0.50		0.50	ug/L	06-DEC-17	51	520
Methyl Ethyl Ketone	<20		20	ug/L	06-DEC-17	470000	1500000
Methyl Isobutyl Ketone	<20		20	ug/L	06-DEC-17	140000	580000
MTBE	<2.0		2.0	ug/L	06-DEC-17	190	1400
Styrene	<0.50		0.50	ug/L	06-DEC-17	1300	9100
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	06-DEC-17	3.3	28
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	06-DEC-17	3.2	15
Tetrachloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17
Toluene	<0.50		0.50	ug/L	06-DEC-17	18000	18000
1,1,1-Trichloroethane	<0.50		0.50	ug/L	06-DEC-17	640	6700
1,1,2-Trichloroethane	<0.50		0.50	ug/L	06-DEC-17	4.7	30
Trichloroethylene	3.78		0.50	ug/L	06-DEC-17	*1.6	17
Trichlorofluoromethane	<5.0		5.0	ug/L	06-DEC-17	2500	2500
Vinyl chloride	<0.50		0.50	ug/L	06-DEC-17	0.5	1.7
o-Xylene	<0.30		0.30	ug/L	06-DEC-17		
m+p-Xylenes	<0.40		0.40	ug/L	06-DEC-17		
Xylenes (Total)	<0.50		0.50	ug/L	06-DEC-17	4200	4200
Surrogate: 4-Bromofluorobenzene	95.3		70-130	%	06-DEC-17		
Surrogate: 1,4-Difluorobenzene	99.5		70-130	%	06-DEC-17		
L2030566-4 BH48D							
Sampled By: CLIENT on 01-DEC-17 @ 11:25							
Matrix: WATER							
Volatile Organic Compounds							
Acetone	<30		30	ug/L	06-DEC-17	130000	130000
Benzene	<0.50		0.50	ug/L	06-DEC-17	44	430
Bromodichloromethane	<2.0		2.0	ug/L	06-DEC-17	85000	85000
Bromoform	<5.0		5.0	ug/L	06-DEC-17	380	770
Bromomethane	<0.50		0.50	ug/L	06-DEC-17	5.6	56
Carbon tetrachloride	<0.20		0.20	ug/L	06-DEC-17	0.79	8.4
Chlorobenzene	<0.50		0.50	ug/L	06-DEC-17	630	630
Dibromochloromethane	<2.0		2.0	ug/L	06-DEC-17	82000	82000
Chloroform	<1.0		1.0	ug/L	06-DEC-17	2.4	22
1,2-Dibromoethane	<0.20		0.20	ug/L	06-DEC-17	0.25	0.83
1,2-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	4600	9600

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - T3 Non-Potable Ground Water (Coarse and Fine)

#1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse) **#2: T3-Non-Potable Ground Water-All Types of Property Uses (Fine)**

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2		
L2030566-4	BH48D									
Sampled By:	CLIENT on 01-DEC-17 @ 11:25									
Matrix:	WATER									
Volatile Organic Compounds										
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	9600	9600		
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	8	67		
	Dichlorodifluoromethane	<2.0		2.0	ug/L	06-DEC-17	4400	4400		
	1,1-Dichloroethane	<0.50		0.50	ug/L	06-DEC-17	320	3100		
	1,2-Dichloroethane	<0.50		0.50	ug/L	06-DEC-17	1.6	12		
	1,1-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
	cis-1,2-Dichloroethylene	0.85		0.50	ug/L	06-DEC-17	1.6	17		
	trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
	Methylene Chloride	<5.0		5.0	ug/L	06-DEC-17	610	5500		
	1,2-Dichloropropane	<0.50		0.50	ug/L	06-DEC-17	16	140		
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	06-DEC-17				
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	06-DEC-17				
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	06-DEC-17	5.2	45		
	Ethylbenzene	<0.50		0.50	ug/L	06-DEC-17	2300	2300		
	n-Hexane	<0.50		0.50	ug/L	06-DEC-17	51	520		
	Methyl Ethyl Ketone	<20		20	ug/L	06-DEC-17	470000	1500000		
	Methyl Isobutyl Ketone	<20		20	ug/L	06-DEC-17	140000	580000		
	MTBE	<2.0		2.0	ug/L	06-DEC-17	190	1400		
	Styrene	<0.50		0.50	ug/L	06-DEC-17	1300	9100		
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	06-DEC-17	3.3	28		
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	06-DEC-17	3.2	15		
	Tetrachloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
	Toluene	<0.50		0.50	ug/L	06-DEC-17	18000	18000		
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	06-DEC-17	640	6700		
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	06-DEC-17	4.7	30		
	Trichloroethylene	0.58		0.50	ug/L	06-DEC-17	1.6	17		
	Trichlorofluoromethane	<5.0		5.0	ug/L	06-DEC-17	2500	2500		
	Vinyl chloride	2.23		0.50	ug/L	06-DEC-17	*0.5	*1.7		
	o-Xylene	<0.30		0.30	ug/L	06-DEC-17				
	m+p-Xylenes	<0.40		0.40	ug/L	06-DEC-17				
	Xylenes (Total)	<0.50		0.50	ug/L	06-DEC-17	4200	4200		
	Surrogate: 4-Bromofluorobenzene	94.1		70-130	%	06-DEC-17				
	Surrogate: 1,4-Difluorobenzene	99.4		70-130	%	06-DEC-17				
L2030566-5	BH118D									
Sampled By:	CLIENT on 01-DEC-17 @ 09:20									
Matrix:	WATER									
Volatile Organic Compounds										
	Acetone	<30		30	ug/L	06-DEC-17	130000	130000		
	Benzene	<0.50		0.50	ug/L	06-DEC-17	44	430		
	Bromodichloromethane	<2.0		2.0	ug/L	06-DEC-17	85000	85000		
	Bromoform	<5.0		5.0	ug/L	06-DEC-17	380	770		
	Bromomethane	<0.50		0.50	ug/L	06-DEC-17	5.6	56		
	Carbon tetrachloride	<0.20		0.20	ug/L	06-DEC-17	0.79	8.4		
	Chlorobenzene	<0.50		0.50	ug/L	06-DEC-17	630	630		
	Dibromochloromethane	<2.0		2.0	ug/L	06-DEC-17	82000	82000		

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - T3 Non-Potable Ground Water (Coarse and Fine)

#1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse) **#2: T3-Non-Potable Ground Water-All Types of Property Uses (Fine)**

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	Guideline Limits #2		
L2030566-5 BH118D									
Sampled By: CLIENT on 01-DEC-17 @ 09:20									
Matrix: WATER									
Volatile Organic Compounds									
Chloroform	<1.0		1.0	ug/L	06-DEC-17	2.4	22		
1,2-Dibromoethane	<0.20		0.20	ug/L	06-DEC-17	0.25	0.83		
1,2-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	4600	9600		
1,3-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	9600	9600		
1,4-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	8	67		
Dichlorodifluoromethane	<2.0		2.0	ug/L	06-DEC-17	4400	4400		
1,1-Dichloroethane	<0.50		0.50	ug/L	06-DEC-17	320	3100		
1,2-Dichloroethane	<0.50		0.50	ug/L	06-DEC-17	1.6	12		
1,1-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
Methylene Chloride	<5.0		5.0	ug/L	06-DEC-17	610	5500		
1,2-Dichloropropane	<0.50		0.50	ug/L	06-DEC-17	16	140		
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	06-DEC-17				
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	06-DEC-17				
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	06-DEC-17	5.2	45		
Ethylbenzene	<0.50		0.50	ug/L	06-DEC-17	2300	2300		
n-Hexane	<0.50		0.50	ug/L	06-DEC-17	51	520		
Methyl Ethyl Ketone	<20		20	ug/L	06-DEC-17	470000	1500000		
Methyl Isobutyl Ketone	<20		20	ug/L	06-DEC-17	140000	580000		
MTBE	<2.0		2.0	ug/L	06-DEC-17	190	1400		
Styrene	<0.50		0.50	ug/L	06-DEC-17	1300	9100		
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	06-DEC-17	3.3	28		
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	06-DEC-17	3.2	15		
Tetrachloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
Toluene	<0.50		0.50	ug/L	06-DEC-17	18000	18000		
1,1,1-Trichloroethane	<0.50		0.50	ug/L	06-DEC-17	640	6700		
1,1,2-Trichloroethane	<0.50		0.50	ug/L	06-DEC-17	4.7	30		
Trichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
Trichlorofluoromethane	<5.0		5.0	ug/L	06-DEC-17	2500	2500		
Vinyl chloride	<0.50		0.50	ug/L	06-DEC-17	0.5	1.7		
o-Xylene	<0.30		0.30	ug/L	06-DEC-17				
m+p-Xylenes	<0.40		0.40	ug/L	06-DEC-17				
Xylenes (Total)	<0.50		0.50	ug/L	06-DEC-17	4200	4200		
Surrogate: 4-Bromofluorobenzene	94.6		70-130	%	06-DEC-17				
Surrogate: 1,4-Difluorobenzene	98.9		70-130	%	06-DEC-17				
L2030566-6 BH1180D									
Sampled By: CLIENT on 01-DEC-17 @ 09:25									
Matrix: WATER									
Volatile Organic Compounds									
Acetone	<30		30	ug/L	06-DEC-17	130000	130000		
Benzene	<0.50		0.50	ug/L	06-DEC-17	44	430		
Bromodichloromethane	<2.0		2.0	ug/L	06-DEC-17	85000	85000		
Bromoform	<5.0		5.0	ug/L	06-DEC-17	380	770		
Bromomethane	<0.50		0.50	ug/L	06-DEC-17	5.6	56		

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - T3 Non-Potable Ground Water (Coarse and Fine)

#1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse) **#2: T3-Non-Potable Ground Water-All Types of Property Uses (Fine)**

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2030566-6	BH1180D									
Sampled By:	CLIENT on 01-DEC-17 @ 09:25									
Matrix:	WATER						#1	#2		
Volatile Organic Compounds										
	Carbon tetrachloride	<0.20		0.20	ug/L	06-DEC-17	0.79	8.4		
	Chlorobenzene	<0.50		0.50	ug/L	06-DEC-17	630	630		
	Dibromochloromethane	<2.0		2.0	ug/L	06-DEC-17	82000	82000		
	Chloroform	<1.0		1.0	ug/L	06-DEC-17	2.4	22		
	1,2-Dibromoethane	<0.20		0.20	ug/L	06-DEC-17	0.25	0.83		
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	4600	9600		
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	9600	9600		
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	8	67		
	Dichlorodifluoromethane	<2.0		2.0	ug/L	06-DEC-17	4400	4400		
	1,1-Dichloroethane	<0.50		0.50	ug/L	06-DEC-17	320	3100		
	1,2-Dichloroethane	<0.50		0.50	ug/L	06-DEC-17	1.6	12		
	1,1-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
	cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
	trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
	Methylene Chloride	<5.0		5.0	ug/L	06-DEC-17	610	5500		
	1,2-Dichloropropane	<0.50		0.50	ug/L	06-DEC-17	16	140		
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	06-DEC-17				
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	06-DEC-17				
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	06-DEC-17	5.2	45		
	Ethylbenzene	<0.50		0.50	ug/L	06-DEC-17	2300	2300		
	n-Hexane	<0.50		0.50	ug/L	06-DEC-17	51	520		
	Methyl Ethyl Ketone	<20		20	ug/L	06-DEC-17	470000	1500000		
	Methyl Isobutyl Ketone	<20		20	ug/L	06-DEC-17	140000	580000		
	MTBE	<2.0		2.0	ug/L	06-DEC-17	190	1400		
	Styrene	<0.50		0.50	ug/L	06-DEC-17	1300	9100		
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	06-DEC-17	3.3	28		
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	06-DEC-17	3.2	15		
	Tetrachloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
	Toluene	<0.50		0.50	ug/L	06-DEC-17	18000	18000		
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	06-DEC-17	640	6700		
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	06-DEC-17	4.7	30		
	Trichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17		
	Trichlorofluoromethane	<5.0		5.0	ug/L	06-DEC-17	2500	2500		
	Vinyl chloride	<0.50		0.50	ug/L	06-DEC-17	0.5	1.7		
	o-Xylene	<0.30		0.30	ug/L	06-DEC-17				
	m+p-Xylenes	<0.40		0.40	ug/L	06-DEC-17				
	Xylenes (Total)	<0.50		0.50	ug/L	06-DEC-17	4200	4200		
	Surrogate: 4-Bromofluorobenzene	93.8		70-130	%	06-DEC-17				
	Surrogate: 1,4-Difluorobenzene	99.2		70-130	%	06-DEC-17				
L2030566-7	TRIP BLANK									
Sampled By:	CLIENT on 01-DEC-17									
Matrix:	WATER						#1	#2		
Volatile Organic Compounds										
	Acetone	<30		30	ug/L	06-DEC-17	130000	130000		
	Benzene	<0.50		0.50	ug/L	06-DEC-17	44	430		

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - T3 Non-Potable Ground Water (Coarse and Fine)

#1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse) **#2: T3-Non-Potable Ground Water-All Types of Property Uses (Fine)**

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	Guideline Limits #2
L2030566-7	TRIP BLANK							
Sampled By:	CLIENT on 01-DEC-17							
Matrix:	WATER							
Volatile Organic Compounds								
	Bromodichloromethane	<2.0		2.0	ug/L	06-DEC-17	85000	85000
	Bromoform	<5.0		5.0	ug/L	06-DEC-17	380	770
	Bromomethane	<0.50		0.50	ug/L	06-DEC-17	5.6	56
	Carbon tetrachloride	<0.20		0.20	ug/L	06-DEC-17	0.79	8.4
	Chlorobenzene	<0.50		0.50	ug/L	06-DEC-17	630	630
	Dibromochloromethane	<2.0		2.0	ug/L	06-DEC-17	82000	82000
	Chloroform	<1.0		1.0	ug/L	06-DEC-17	2.4	22
	1,2-Dibromoethane	<0.20		0.20	ug/L	06-DEC-17	0.25	0.83
	1,2-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	4600	9600
	1,3-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	9600	9600
	1,4-Dichlorobenzene	<0.50		0.50	ug/L	06-DEC-17	8	67
	Dichlorodifluoromethane	<2.0		2.0	ug/L	06-DEC-17	4400	4400
	1,1-Dichloroethane	<0.50		0.50	ug/L	06-DEC-17	320	3100
	1,2-Dichloroethane	<0.50		0.50	ug/L	06-DEC-17	1.6	12
	1,1-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17
	cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17
	trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17
	Methylene Chloride	<5.0		5.0	ug/L	06-DEC-17	610	5500
	1,2-Dichloropropane	<0.50		0.50	ug/L	06-DEC-17	16	140
	cis-1,3-Dichloropropene	<0.30		0.30	ug/L	06-DEC-17		
	trans-1,3-Dichloropropene	<0.30		0.30	ug/L	06-DEC-17		
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	06-DEC-17	5.2	45
	Ethylbenzene	<0.50		0.50	ug/L	06-DEC-17	2300	2300
	n-Hexane	<0.50		0.50	ug/L	06-DEC-17	51	520
	Methyl Ethyl Ketone	<20		20	ug/L	06-DEC-17	470000	1500000
	Methyl Isobutyl Ketone	<20		20	ug/L	06-DEC-17	140000	580000
	MTBE	<2.0		2.0	ug/L	06-DEC-17	190	1400
	Styrene	<0.50		0.50	ug/L	06-DEC-17	1300	9100
	1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	06-DEC-17	3.3	28
	1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	06-DEC-17	3.2	15
	Tetrachloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17
	Toluene	<0.50		0.50	ug/L	06-DEC-17	18000	18000
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	06-DEC-17	640	6700
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	06-DEC-17	4.7	30
	Trichloroethylene	<0.50		0.50	ug/L	06-DEC-17	1.6	17
	Trichlorofluoromethane	<5.0		5.0	ug/L	06-DEC-17	2500	2500
	Vinyl chloride	<0.50		0.50	ug/L	06-DEC-17	0.5	1.7
	o-Xylene	<0.30		0.30	ug/L	06-DEC-17		
	m+p-Xylenes	<0.40		0.40	ug/L	06-DEC-17		
	Xylenes (Total)	<0.50		0.50	ug/L	06-DEC-17	4200	4200
	Surrogate: 4-Bromofluorobenzene	93.6		70-130	%	06-DEC-17		
	Surrogate: 1,4-Difluorobenzene	99.2		70-130	%	06-DEC-17		

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - T3 Non-Potable Ground Water (Coarse and Fine)

#1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse) **#2: T3-Non-Potable Ground Water-All Types of Property Uses (Fine)**

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
CR-CR6-IC-R511-WT	Water	Hex Chrom-O.Reg 153/04 (July 2011)	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-D-UG/L-CVAA-WT	Water	Diss. Mercury in Water by CVAAS (ug/L)	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-D-UG/L-MS-WT	Water	Diss. Metals in Water by ICPMS (ug/L)	EPA 200.8

The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

VOC-1,3-DCP-CALC-WT	Water	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Water	VOC by GCMS HS O.Reg 153/04 (July 2011)	SW846 8260

Liquid samples are analyzed by headspace GC/MSD.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

17-621044

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information.

Quality Control Report

Workorder: L2030566 Report Date: 08-DEC-17

Client: MTE CONSULTANTS INC.
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CR-CR6-IC-R511-WT	**Water**							
Batch R3907025								
WG2679574-4 DUP		**WG2679574-3**						
Chromium, Hexavalent		<1.0	<1.0	RPD-NA	ug/L	N/A	20	07-DEC-17
WG2679574-2 LCS								
Chromium, Hexavalent			102.7		%		80-120	07-DEC-17
WG2679574-1 MB								
Chromium, Hexavalent			<1.0		ug/L		1	07-DEC-17
WG2679574-5 MS		**WG2679574-3**						
Chromium, Hexavalent			102.8		%		70-130	07-DEC-17
HG-D-UG/L-CVAA-WT	**Water**							
Batch R3905212								
WG2677871-4 DUP		**WG2677871-3**						
Mercury (Hg)-Dissolved		<0.010	<0.010	RPD-NA	ug/L	N/A	20	05-DEC-17
WG2677871-2 LCS								
Mercury (Hg)-Dissolved			105.0		%		80-120	05-DEC-17
WG2677871-1 MB								
Mercury (Hg)-Dissolved			<0.010		ug/L		0.01	05-DEC-17
WG2677871-6 MS		**WG2677871-5**						
Mercury (Hg)-Dissolved			85.7		%		70-130	05-DEC-17
MET-D-UG/L-MS-WT	**Water**							
Batch R3904947								
WG2677495-4 DUP		**WG2677495-3**						
Antimony (Sb)-Dissolved		0.16	0.17		ug/L	1.6	20	05-DEC-17
Arsenic (As)-Dissolved		0.99	0.97		ug/L	2.4	20	05-DEC-17
Barium (Ba)-Dissolved		195	185		ug/L	5.2	20	05-DEC-17
Beryllium (Be)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	05-DEC-17
Boron (B)-Dissolved		26	26		ug/L	0.1	20	05-DEC-17
Cadmium (Cd)-Dissolved		<0.0050	<0.0050	RPD-NA	ug/L	N/A	20	05-DEC-17
Chromium (Cr)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	05-DEC-17
Cobalt (Co)-Dissolved		0.10	<0.10	RPD-NA	ug/L	N/A	20	05-DEC-17
Copper (Cu)-Dissolved		0.87	0.87		ug/L	0.1	20	05-DEC-17
Lead (Pb)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	05-DEC-17
Molybdenum (Mo)-Dissolved		1.16	1.17		ug/L	1.4	20	05-DEC-17
Nickel (Ni)-Dissolved		0.68	0.66		ug/L	2.8	20	05-DEC-17
Selenium (Se)-Dissolved		0.150	0.153		ug/L	2.3	20	05-DEC-17
Silver (Ag)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	05-DEC-17
Sodium (Na)-Dissolved		7660	7560		ug/L	1.3	20	05-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC.
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R3904947								
WG2677495-4 DUP		**WG2677495-3**						
Thallium (Tl)-Dissolved		0.016	0.016		ug/L	4.0	20	05-DEC-17
Uranium (U)-Dissolved		0.534	0.535		ug/L	0.3	20	05-DEC-17
Vanadium (V)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	05-DEC-17
Zinc (Zn)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	05-DEC-17
WG2677495-2 LCS								
Antimony (Sb)-Dissolved			99.1		%		80-120	05-DEC-17
Arsenic (As)-Dissolved			102.2		%		80-120	05-DEC-17
Barium (Ba)-Dissolved			107.3		%		80-120	05-DEC-17
Beryllium (Be)-Dissolved			98.8		%		80-120	05-DEC-17
Boron (B)-Dissolved			94.7		%		80-120	05-DEC-17
Cadmium (Cd)-Dissolved			103.1		%		80-120	05-DEC-17
Chromium (Cr)-Dissolved			101.7		%		80-120	05-DEC-17
Cobalt (Co)-Dissolved			100.4		%		80-120	05-DEC-17
Copper (Cu)-Dissolved			99.6		%		80-120	05-DEC-17
Lead (Pb)-Dissolved			101.6		%		80-120	05-DEC-17
Molybdenum (Mo)-Dissolved			101.1		%		80-120	05-DEC-17
Nickel (Ni)-Dissolved			99.8		%		80-120	05-DEC-17
Selenium (Se)-Dissolved			98.1		%		80-120	05-DEC-17
Silver (Ag)-Dissolved			102.8		%		80-120	05-DEC-17
Sodium (Na)-Dissolved			98.1		%		80-120	05-DEC-17
Thallium (Tl)-Dissolved			99.5		%		80-120	05-DEC-17
Uranium (U)-Dissolved			101.8		%		80-120	05-DEC-17
Vanadium (V)-Dissolved			102.2		%		80-120	05-DEC-17
Zinc (Zn)-Dissolved			95.6		%		80-120	05-DEC-17
WG2677495-1 MB								
Antimony (Sb)-Dissolved			<0.10		ug/L		0.1	05-DEC-17
Arsenic (As)-Dissolved			<0.10		ug/L		0.1	05-DEC-17
Barium (Ba)-Dissolved			<0.10		ug/L		0.1	05-DEC-17
Beryllium (Be)-Dissolved			<0.10		ug/L		0.1	05-DEC-17
Boron (B)-Dissolved			<10		ug/L		10	05-DEC-17
Cadmium (Cd)-Dissolved			<0.0050		ug/L		0.005	05-DEC-17
Chromium (Cr)-Dissolved			<0.50		ug/L		0.5	05-DEC-17
Cobalt (Co)-Dissolved			<0.10		ug/L		0.1	05-DEC-17
Copper (Cu)-Dissolved			<0.20		ug/L		0.2	05-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC.
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R3904947								
WG2677495-1 MB								
Lead (Pb)-Dissolved			<0.050		ug/L		0.05	05-DEC-17
Molybdenum (Mo)-Dissolved			<0.050		ug/L		0.05	05-DEC-17
Nickel (Ni)-Dissolved			<0.50		ug/L		0.5	05-DEC-17
Selenium (Se)-Dissolved			<0.050		ug/L		0.05	05-DEC-17
Silver (Ag)-Dissolved			<0.050		ug/L		0.05	05-DEC-17
Sodium (Na)-Dissolved			<500		ug/L		500	05-DEC-17
Thallium (Tl)-Dissolved			<0.010		ug/L		0.01	05-DEC-17
Uranium (U)-Dissolved			<0.010		ug/L		0.01	05-DEC-17
Vanadium (V)-Dissolved			<0.50		ug/L		0.5	05-DEC-17
Zinc (Zn)-Dissolved			<1.0		ug/L		1	05-DEC-17
WG2677495-5 MS		**WG2677495-3**						
Antimony (Sb)-Dissolved			101.5		%		70-130	05-DEC-17
Arsenic (As)-Dissolved			105.1		%		70-130	05-DEC-17
Barium (Ba)-Dissolved			N/A	MS-B	%		-	05-DEC-17
Beryllium (Be)-Dissolved			101.0		%		70-130	05-DEC-17
Boron (B)-Dissolved			73.8		%		70-130	05-DEC-17
Cadmium (Cd)-Dissolved			106.9		%		70-130	05-DEC-17
Chromium (Cr)-Dissolved			101.2		%		70-130	05-DEC-17
Cobalt (Co)-Dissolved			97.9		%		70-130	05-DEC-17
Copper (Cu)-Dissolved			90.5		%		70-130	05-DEC-17
Lead (Pb)-Dissolved			101.1		%		70-130	05-DEC-17
Molybdenum (Mo)-Dissolved			112.8		%		70-130	05-DEC-17
Nickel (Ni)-Dissolved			95.0		%		70-130	05-DEC-17
Selenium (Se)-Dissolved			104.5		%		70-130	05-DEC-17
Silver (Ag)-Dissolved			102.0		%		70-130	05-DEC-17
Sodium (Na)-Dissolved			N/A	MS-B	%		-	05-DEC-17
Thallium (Tl)-Dissolved			100.6		%		70-130	05-DEC-17
Uranium (U)-Dissolved			N/A	MS-B	%		-	05-DEC-17
Vanadium (V)-Dissolved			102.7		%		70-130	05-DEC-17
Zinc (Zn)-Dissolved			101.0		%		70-130	05-DEC-17
VOC-511-HS-WT	**Water**							

Quality Control Report

Client: MTE CONSULTANTS INC.
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3905481								
WG2673934-4 DUP		**WG2673934-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	06-DEC-17
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	06-DEC-17
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	06-DEC-17
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	06-DEC-17
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	06-DEC-17
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	06-DEC-17
cis-1,2-Dichloroethylene		4.43	4.51		ug/L	1.8	30	06-DEC-17
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	06-DEC-17
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	06-DEC-17
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	06-DEC-17
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	06-DEC-17
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	06-DEC-17
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	06-DEC-17
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	06-DEC-17
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	06-DEC-17
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	06-DEC-17
Styrene		<0.50	<0.50		ug/L			06-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC.
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3905481								
WG2673934-4 DUP		**WG2673934-3**						
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
trans-1,2-Dichloroethylene		0.69	0.71		ug/L	2.9	30	06-DEC-17
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	06-DEC-17
Trichloroethylene		0.67	0.71		ug/L	5.8	30	06-DEC-17
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	06-DEC-17
Vinyl chloride		1.64	1.73		ug/L	5.3	30	06-DEC-17
WG2673934-1 LCS								
1,1,1,2-Tetrachloroethane			101.0		%		70-130	06-DEC-17
1,1,2,2-Tetrachloroethane			101.6		%		70-130	06-DEC-17
1,1,1-Trichloroethane			97.5		%		70-130	06-DEC-17
1,1,2-Trichloroethane			106.4		%		70-130	06-DEC-17
1,1-Dichloroethane			98.5		%		70-130	06-DEC-17
1,1-Dichloroethylene			84.3		%		70-130	06-DEC-17
1,2-Dibromoethane			106.7		%		70-130	06-DEC-17
1,2-Dichlorobenzene			101.1		%		70-130	06-DEC-17
1,2-Dichloroethane			109.2		%		70-130	06-DEC-17
1,2-Dichloropropane			105.0		%		70-130	06-DEC-17
1,3-Dichlorobenzene			98.8		%		70-130	06-DEC-17
1,4-Dichlorobenzene			101.4		%		70-130	06-DEC-17
Acetone			127.3		%		60-140	06-DEC-17
Benzene			99.99		%		70-130	06-DEC-17
Bromodichloromethane			102.2		%		70-130	06-DEC-17
Bromoform			100.9		%		70-130	06-DEC-17
Bromomethane			89.9		%		60-140	06-DEC-17
Carbon tetrachloride			95.3		%		70-130	06-DEC-17
Chlorobenzene			100.3		%		70-130	06-DEC-17
Chloroform			102.7		%		70-130	06-DEC-17
cis-1,2-Dichloroethylene			99.7		%		70-130	06-DEC-17
cis-1,3-Dichloropropene			107.2		%		70-130	06-DEC-17
Dibromochloromethane			108.1		%		70-130	06-DEC-17
Dichlorodifluoromethane			59.5		%		50-140	06-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC.
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3905481								
WG2673934-1 LCS								
Ethylbenzene			92.7		%		70-130	06-DEC-17
n-Hexane			94.6		%		70-130	06-DEC-17
m+p-Xylenes			96.5		%		70-130	06-DEC-17
Methyl Ethyl Ketone			118.6		%		60-140	06-DEC-17
Methyl Isobutyl Ketone			108.8		%		60-140	06-DEC-17
Methylene Chloride			103.6		%		70-130	06-DEC-17
MTBE			97.5		%		70-130	06-DEC-17
o-Xylene			94.4		%		70-130	06-DEC-17
Styrene			97.2		%		70-130	06-DEC-17
Tetrachloroethylene			92.1		%		70-130	06-DEC-17
Toluene			95.1		%		70-130	06-DEC-17
trans-1,2-Dichloroethylene			95.1		%		70-130	06-DEC-17
trans-1,3-Dichloropropene			104.8		%		70-130	06-DEC-17
Trichloroethylene			98.4		%		70-130	06-DEC-17
Trichlorofluoromethane			90.5		%		60-140	06-DEC-17
Vinyl chloride			81.5		%		60-140	06-DEC-17
WG2673934-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	06-DEC-17
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	06-DEC-17
1,1,1-Trichloroethane			<0.50		ug/L		0.5	06-DEC-17
1,1,2-Trichloroethane			<0.50		ug/L		0.5	06-DEC-17
1,1-Dichloroethane			<0.50		ug/L		0.5	06-DEC-17
1,1-Dichloroethylene			<0.50		ug/L		0.5	06-DEC-17
1,2-Dibromoethane			<0.20		ug/L		0.2	06-DEC-17
1,2-Dichlorobenzene			<0.50		ug/L		0.5	06-DEC-17
1,2-Dichloroethane			<0.50		ug/L		0.5	06-DEC-17
1,2-Dichloropropane			<0.50		ug/L		0.5	06-DEC-17
1,3-Dichlorobenzene			<0.50		ug/L		0.5	06-DEC-17
1,4-Dichlorobenzene			<0.50		ug/L		0.5	06-DEC-17
Acetone			<30		ug/L		30	06-DEC-17
Benzene			<0.50		ug/L		0.5	06-DEC-17
Bromodichloromethane			<2.0		ug/L		2	06-DEC-17
Bromoform			<5.0		ug/L		5	06-DEC-17
Bromomethane			<0.50		ug/L		0.5	06-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC.
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3905481								
WG2673934-2 MB								
Carbon tetrachloride			<0.20		ug/L		0.2	06-DEC-17
Chlorobenzene			<0.50		ug/L		0.5	06-DEC-17
Chloroform			<1.0		ug/L		1	06-DEC-17
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	06-DEC-17
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	06-DEC-17
Dibromochloromethane			<2.0		ug/L		2	06-DEC-17
Dichlorodifluoromethane			<2.0		ug/L		2	06-DEC-17
Ethylbenzene			<0.50		ug/L		0.5	06-DEC-17
n-Hexane			<0.50		ug/L		0.5	06-DEC-17
m+p-Xylenes			<0.40		ug/L		0.4	06-DEC-17
Methyl Ethyl Ketone			<20		ug/L		20	06-DEC-17
Methyl Isobutyl Ketone			<20		ug/L		20	06-DEC-17
Methylene Chloride			<5.0		ug/L		5	06-DEC-17
MTBE			<2.0		ug/L		2	06-DEC-17
o-Xylene			<0.30		ug/L		0.3	06-DEC-17
Styrene			<0.50		ug/L		0.5	06-DEC-17
Tetrachloroethylene			<0.50		ug/L		0.5	06-DEC-17
Toluene			<0.50		ug/L		0.5	06-DEC-17
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	06-DEC-17
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	06-DEC-17
Trichloroethylene			<0.50		ug/L		0.5	06-DEC-17
Trichlorofluoromethane			<5.0		ug/L		5	06-DEC-17
Vinyl chloride			<0.50		ug/L		0.5	06-DEC-17
Surrogate: 1,4-Difluorobenzene			100.2		%		70-130	06-DEC-17
Surrogate: 4-Bromofluorobenzene			97.5		%		70-130	06-DEC-17
WG2673934-5 MS		**WG2673934-3**						
1,1,1,2-Tetrachloroethane			99.5		%		50-140	06-DEC-17
1,1,2,2-Tetrachloroethane			104.0		%		50-140	06-DEC-17
1,1,1-Trichloroethane			96.8		%		50-140	06-DEC-17
1,1,2-Trichloroethane			106.2		%		50-140	06-DEC-17
1,1-Dichloroethane			101.7		%		50-140	06-DEC-17
1,1-Dichloroethylene			83.0		%		50-140	06-DEC-17
1,2-Dibromoethane			106.2		%		50-140	06-DEC-17
1,2-Dichlorobenzene			101.4		%		50-140	06-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC.
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3905481								
WG2673934-5 MS		**WG2673934-3**						
1,2-Dichloroethane			112.6		%		50-140	06-DEC-17
1,2-Dichloropropane			107.8		%		50-140	06-DEC-17
1,3-Dichlorobenzene			98.8		%		50-140	06-DEC-17
1,4-Dichlorobenzene			102.3		%		50-140	06-DEC-17
Acetone			123.7		%		50-140	06-DEC-17
Benzene			101.8		%		50-140	06-DEC-17
Bromodichloromethane			104.3		%		50-140	06-DEC-17
Bromoform			99.4		%		50-140	06-DEC-17
Bromomethane			88.5		%		50-140	06-DEC-17
Carbon tetrachloride			93.5		%		50-140	06-DEC-17
Chlorobenzene			100.4		%		50-140	06-DEC-17
Chloroform			104.9		%		50-140	06-DEC-17
cis-1,2-Dichloroethylene			100.3		%		50-140	06-DEC-17
cis-1,3-Dichloropropene			111.1		%		50-140	06-DEC-17
Dibromochloromethane			107.1		%		50-140	06-DEC-17
Dichlorodifluoromethane			48.5	MES	%		50-140	06-DEC-17
Ethylbenzene			90.9		%		50-140	06-DEC-17
n-Hexane			86.8		%		50-140	06-DEC-17
m+p-Xylenes			95.5		%		50-140	06-DEC-17
Methyl Ethyl Ketone			116.6		%		50-140	06-DEC-17
Methyl Isobutyl Ketone			112.9		%		50-140	06-DEC-17
Methylene Chloride			104.9		%		50-140	06-DEC-17
MTBE			97.9		%		50-140	06-DEC-17
o-Xylene			92.7		%		50-140	06-DEC-17
Styrene			96.6		%		50-140	06-DEC-17
Tetrachloroethylene			89.9		%		50-140	06-DEC-17
Toluene			93.4		%		50-140	06-DEC-17
trans-1,2-Dichloroethylene			97.7		%		50-140	06-DEC-17
trans-1,3-Dichloropropene			106.9		%		50-140	06-DEC-17
Trichloroethylene			97.8		%		50-140	06-DEC-17
Trichlorofluoromethane			84.4		%		50-140	06-DEC-17
Vinyl chloride			76.6		%		50-140	06-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC.
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3905778								
WG2677623-4 DUP		**WG2677623-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	06-DEC-17
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	06-DEC-17
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	06-DEC-17
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	06-DEC-17
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	06-DEC-17
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	06-DEC-17
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	06-DEC-17
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	06-DEC-17
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	06-DEC-17
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	06-DEC-17
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	06-DEC-17
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	06-DEC-17
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	06-DEC-17
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	06-DEC-17
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	06-DEC-17
Styrene		<0.50	<0.50		ug/L			06-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC.
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3905778								
WG2677623-4 DUP		**WG2677623-3**						
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	06-DEC-17
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	06-DEC-17
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	06-DEC-17
WG2677623-1 LCS								
1,1,1,2-Tetrachloroethane			102.3		%		70-130	06-DEC-17
1,1,2,2-Tetrachloroethane			91.0		%		70-130	06-DEC-17
1,1,1-Trichloroethane			101.1		%		70-130	06-DEC-17
1,1,2-Trichloroethane			101.2		%		70-130	06-DEC-17
1,1-Dichloroethane			92.6		%		70-130	06-DEC-17
1,1-Dichloroethylene			87.0		%		70-130	06-DEC-17
1,2-Dibromoethane			100.3		%		70-130	06-DEC-17
1,2-Dichlorobenzene			101.8		%		70-130	06-DEC-17
1,2-Dichloroethane			98.5		%		70-130	06-DEC-17
1,2-Dichloropropane			97.7		%		70-130	06-DEC-17
1,3-Dichlorobenzene			100.6		%		70-130	06-DEC-17
1,4-Dichlorobenzene			101.2		%		70-130	06-DEC-17
Acetone			101.3		%		60-140	06-DEC-17
Benzene			98.1		%		70-130	06-DEC-17
Bromodichloromethane			94.8		%		70-130	06-DEC-17
Bromoform			94.3		%		70-130	06-DEC-17
Bromomethane			92.7		%		60-140	06-DEC-17
Carbon tetrachloride			100.4		%		70-130	06-DEC-17
Chlorobenzene			102.2		%		70-130	06-DEC-17
Chloroform			99.2		%		70-130	06-DEC-17
cis-1,2-Dichloroethylene			90.5		%		70-130	06-DEC-17
cis-1,3-Dichloropropene			99.0		%		70-130	06-DEC-17
Dibromochloromethane			103.8		%		70-130	06-DEC-17
Dichlorodifluoromethane			66.6		%		50-140	06-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC.
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3905778								
WG2677623-1 LCS								
Ethylbenzene			100.5		%		70-130	06-DEC-17
n-Hexane			100.4		%		70-130	06-DEC-17
m+p-Xylenes			100.6		%		70-130	06-DEC-17
Methyl Ethyl Ketone			86.2		%		60-140	06-DEC-17
Methyl Isobutyl Ketone			84.9		%		60-140	06-DEC-17
Methylene Chloride			97.9		%		70-130	06-DEC-17
MTBE			98.5		%		70-130	06-DEC-17
o-Xylene			100.2		%		70-130	06-DEC-17
Styrene			97.7		%		70-130	06-DEC-17
Tetrachloroethylene			102.5		%		70-130	06-DEC-17
Toluene			101.5		%		70-130	06-DEC-17
trans-1,2-Dichloroethylene			94.3		%		70-130	06-DEC-17
trans-1,3-Dichloropropene			101.0		%		70-130	06-DEC-17
Trichloroethylene			102.0		%		70-130	06-DEC-17
Trichlorofluoromethane			98.6		%		60-140	06-DEC-17
Vinyl chloride			88.0		%		60-140	06-DEC-17
WG2677623-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	06-DEC-17
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	06-DEC-17
1,1,1-Trichloroethane			<0.50		ug/L		0.5	06-DEC-17
1,1,2-Trichloroethane			<0.50		ug/L		0.5	06-DEC-17
1,1-Dichloroethane			<0.50		ug/L		0.5	06-DEC-17
1,1-Dichloroethylene			<0.50		ug/L		0.5	06-DEC-17
1,2-Dibromoethane			<0.20		ug/L		0.2	06-DEC-17
1,2-Dichlorobenzene			<0.50		ug/L		0.5	06-DEC-17
1,2-Dichloroethane			<0.50		ug/L		0.5	06-DEC-17
1,2-Dichloropropane			<0.50		ug/L		0.5	06-DEC-17
1,3-Dichlorobenzene			<0.50		ug/L		0.5	06-DEC-17
1,4-Dichlorobenzene			<0.50		ug/L		0.5	06-DEC-17
Acetone			<30		ug/L		30	06-DEC-17
Benzene			<0.50		ug/L		0.5	06-DEC-17
Bromodichloromethane			<2.0		ug/L		2	06-DEC-17
Bromoform			<5.0		ug/L		5	06-DEC-17
Bromomethane			<0.50		ug/L		0.5	06-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC.
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3905778								
WG2677623-2 MB								
Carbon tetrachloride			<0.20		ug/L		0.2	06-DEC-17
Chlorobenzene			<0.50		ug/L		0.5	06-DEC-17
Chloroform			<1.0		ug/L		1	06-DEC-17
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	06-DEC-17
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	06-DEC-17
Dibromochloromethane			<2.0		ug/L		2	06-DEC-17
Dichlorodifluoromethane			<2.0		ug/L		2	06-DEC-17
Ethylbenzene			<0.50		ug/L		0.5	06-DEC-17
n-Hexane			<0.50		ug/L		0.5	06-DEC-17
m+p-Xylenes			<0.40		ug/L		0.4	06-DEC-17
Methyl Ethyl Ketone			<20		ug/L		20	06-DEC-17
Methyl Isobutyl Ketone			<20		ug/L		20	06-DEC-17
Methylene Chloride			<5.0		ug/L		5	06-DEC-17
MTBE			<2.0		ug/L		2	06-DEC-17
o-Xylene			<0.30		ug/L		0.3	06-DEC-17
Styrene			<0.50		ug/L		0.5	06-DEC-17
Tetrachloroethylene			<0.50		ug/L		0.5	06-DEC-17
Toluene			<0.50		ug/L		0.5	06-DEC-17
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	06-DEC-17
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	06-DEC-17
Trichloroethylene			<0.50		ug/L		0.5	06-DEC-17
Trichlorofluoromethane			<5.0		ug/L		5	06-DEC-17
Vinyl chloride			<0.50		ug/L		0.5	06-DEC-17
Surrogate: 1,4-Difluorobenzene			102.0		%		70-130	06-DEC-17
Surrogate: 4-Bromofluorobenzene			103.9		%		70-130	06-DEC-17
WG2677623-5 MS		**WG2677623-3**						
1,1,1,2-Tetrachloroethane			100.3		%		50-140	06-DEC-17
1,1,2,2-Tetrachloroethane			84.5		%		50-140	06-DEC-17
1,1,1-Trichloroethane			102.3		%		50-140	06-DEC-17
1,1,2-Trichloroethane			95.3		%		50-140	06-DEC-17
1,1-Dichloroethane			92.3		%		50-140	06-DEC-17
1,1-Dichloroethylene			88.5		%		50-140	06-DEC-17
1,2-Dibromoethane			93.5		%		50-140	06-DEC-17
1,2-Dichlorobenzene			101.3		%		50-140	06-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC.
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3905778								
WG2677623-5 MS		**WG2677623-3**						
1,2-Dichloroethane			93.2		%		50-140	06-DEC-17
1,2-Dichloropropane			95.3		%		50-140	06-DEC-17
1,3-Dichlorobenzene			102.4		%		50-140	06-DEC-17
1,4-Dichlorobenzene			102.1		%		50-140	06-DEC-17
Acetone			93.3		%		50-140	06-DEC-17
Benzene			97.4		%		50-140	06-DEC-17
Bromodichloromethane			92.1		%		50-140	06-DEC-17
Bromoform			87.7		%		50-140	06-DEC-17
Bromomethane			89.5		%		50-140	06-DEC-17
Carbon tetrachloride			102.2		%		50-140	06-DEC-17
Chlorobenzene			101.2		%		50-140	06-DEC-17
Chloroform			97.9		%		50-140	06-DEC-17
cis-1,2-Dichloroethylene			88.7		%		50-140	06-DEC-17
cis-1,3-Dichloropropene			94.2		%		50-140	06-DEC-17
Dibromochloromethane			98.6		%		50-140	06-DEC-17
Dichlorodifluoromethane			65.7		%		50-140	06-DEC-17
Ethylbenzene			101.8		%		50-140	06-DEC-17
n-Hexane			102.4		%		50-140	06-DEC-17
m+p-Xylenes			102.0		%		50-140	06-DEC-17
Methyl Ethyl Ketone			77.1		%		50-140	06-DEC-17
Methyl Isobutyl Ketone			77.3		%		50-140	06-DEC-17
Methylene Chloride			95.1		%		50-140	06-DEC-17
MTBE			98.7		%		50-140	06-DEC-17
o-Xylene			100.4		%		50-140	06-DEC-17
Styrene			96.6		%		50-140	06-DEC-17
Tetrachloroethylene			104.8		%		50-140	06-DEC-17
Toluene			101.4		%		50-140	06-DEC-17
trans-1,2-Dichloroethylene			95.2		%		50-140	06-DEC-17
trans-1,3-Dichloropropene			94.3		%		50-140	06-DEC-17
Trichloroethylene			103.3		%		50-140	06-DEC-17
Trichlorofluoromethane			100.1		%		50-140	06-DEC-17
Vinyl chloride			88.2		%		50-140	06-DEC-17

Quality Control Report

Workorder: L2030566 Report Date: 08-DEC-17

Client: MTE CONSULTANTS INC.
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2030566-COFC

COC Number: 17 - 621044

Page 1 of 1

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	MTE Consultants Inc.	Select Report Format: [X] PDF [ ] EXCEL [ ] EDD (DIGITAL)	Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	S. Buck	Quality Control (QC) Report with Report [X] YES [ ] NO	PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]
Phone:	905 639 2552	[X] Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E-100%] [ ]; Same Day, Weekend or Statutory holiday [E2-200%] (Laboratory opening fees may apply)] [ ]
	Company address below will appear on the final report	Select Distribution: [X] EMAIL [ ] MAIL [ ] FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:		Email 1 or Fax: sbuckemte85.com	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:		Email 2: tjonescente85.com	
Postal Code:		Email 3	
Invoice To	Same as Report To [X] YES [ ] NO	Invoice Distribution	
	Copy of Invoice with Report [ ] YES [X] NO	Select Invoice Distribution: [ ] EMAIL [ ] MAIL [ ] FAX	
Company:		Email 1 or Fax	
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#:
Job #:	38934-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):	L2030566 CHA	ALS Contact: MLP	Sampler: SJB

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	VOCs	Complete Metals	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
1	BH55	01-12-17	14:00	GW	X	X			5
2	BH46D		13:10		X				2
3	BH47D		12:15		X				2
4	BH48D		11:25		X				2
5	BH118D		9:20		X				2
6	BH180D		9:25		X				2
7	TRIP BLANK		NA		X				2

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	Compare to O.Reg 153/04 Tbl 3
Are samples for human consumption/ use? [ ] YES [X] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	[ ]	SIF Observations	Yes [ ]	No	[X]
Ice Packs	[ ] Ice Cubes [ ]	Custody seal intact	Yes [X]	No	[ ]
Cooling Initiated	[X]				

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
7.1°C				10.9°C			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: S. Buck	Date: 12/01/17	Time: 15:25	Received by: RSTOLYS	Date: 1-DEC-17	Time: 15:25	Received by:	Date: 04-Dec-17	Time: 15:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

JOC-378

MTE CONSULTANTS INC. (Kitchener)
ATTN: Spencer Buck
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Date Received: 06-DEC-17
Report Date: 12-DEC-17 14:43 (MT)
Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2032736

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 17-621039
Legal Site Desc:

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2032736-1 BH41D						
Sampled By: SDB on 06-DEC-17 @ 11:30						
Matrix: WATER						
Volatile Organic Compounds						
Acetone	<30		30	ug/L	11-DEC-17	2700
Benzene	0.78		0.50	ug/L	11-DEC-17	5
Bromodichloromethane	<2.0		2.0	ug/L	11-DEC-17	16
Bromoform	<5.0		5.0	ug/L	11-DEC-17	25
Bromomethane	<0.50		0.50	ug/L	11-DEC-17	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	11-DEC-17	5
Chlorobenzene	<0.50		0.50	ug/L	11-DEC-17	30
Dibromochloromethane	<2.0		2.0	ug/L	11-DEC-17	25
Chloroform	<1.0		1.0	ug/L	11-DEC-17	22
1,2-Dibromoethane	<0.20		0.20	ug/L	11-DEC-17	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	11-DEC-17	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	11-DEC-17	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	11-DEC-17	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	11-DEC-17	590
1,1-Dichloroethane	1.66		0.50	ug/L	11-DEC-17	5
1,2-Dichloroethane	<0.50		0.50	ug/L	11-DEC-17	5
1,1-Dichloroethylene	36.3		0.50	ug/L	11-DEC-17	*14
cis-1,2-Dichloroethylene	8970	DLHC	50	ug/L	12-DEC-17	*17
trans-1,2-Dichloroethylene	36.6		0.50	ug/L	11-DEC-17	*17
Methylene Chloride	<5.0		5.0	ug/L	11-DEC-17	50
1,2-Dichloropropane	<0.50		0.50	ug/L	11-DEC-17	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	11-DEC-17	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	11-DEC-17	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	12-DEC-17	0.5
Ethylbenzene	<0.50		0.50	ug/L	11-DEC-17	2.4
n-Hexane	<0.50		0.50	ug/L	11-DEC-17	520
Methyl Ethyl Ketone	<20		20	ug/L	11-DEC-17	1800
Methyl Isobutyl Ketone	<20		20	ug/L	11-DEC-17	640
MTBE	<2.0		2.0	ug/L	11-DEC-17	15
Styrene	<0.50		0.50	ug/L	11-DEC-17	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	11-DEC-17	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	11-DEC-17	1
Tetrachloroethylene	<0.50		0.50	ug/L	11-DEC-17	17
Toluene	<0.50		0.50	ug/L	11-DEC-17	24
1,1,1-Trichloroethane	<1.3	DLQ	1.3	ug/L	11-DEC-17	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	11-DEC-17	5
Trichloroethylene	5360	DLHC	50	ug/L	12-DEC-17	*5
Trichlorofluoromethane	<5.0		5.0	ug/L	11-DEC-17	150
Vinyl chloride	2110	DLHC	50	ug/L	12-DEC-17	*1.7
o-Xylene	<0.30		0.30	ug/L	11-DEC-17	
m+p-Xylenes	<0.40		0.40	ug/L	11-DEC-17	
Xylenes (Total)	<0.50		0.50	ug/L	12-DEC-17	300
Surrogate: 4-Bromofluorobenzene	97.6		70-130	%	11-DEC-17	
Surrogate: 1,4-Difluorobenzene	98.9		70-130	%	11-DEC-17	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
DLQ	Detection Limit raised due to co-eluting interference. GCMS qualifier ion ratio did not meet acceptance criteria.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
VOC-1,3-DCP-CALC-WT	Water	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Water	VOC by GCMS HS O.Reg 153/04 (July 2011)	SW846 8260

Liquid samples are analyzed by headspace GC/MSD.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

17-621039

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3909162								
WG2680232-4 DUP		**WG2680232-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	11-DEC-17
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	11-DEC-17
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	11-DEC-17
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	11-DEC-17
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	11-DEC-17
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	11-DEC-17
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	11-DEC-17
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	11-DEC-17
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	11-DEC-17
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	11-DEC-17
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	11-DEC-17
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	11-DEC-17
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	11-DEC-17
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	11-DEC-17
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	11-DEC-17
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
Tetrachloroethylene		<0.50	<0.50		ug/L			11-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3909162								
WG2680232-4 DUP		**WG2680232-3**						
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	11-DEC-17
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	11-DEC-17
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	11-DEC-17
WG2680232-1 LCS								
1,1,1,2-Tetrachloroethane			99.6		%		70-130	11-DEC-17
1,1,2,2-Tetrachloroethane			89.7		%		70-130	11-DEC-17
1,1,1-Trichloroethane			101.7		%		70-130	11-DEC-17
1,1,2-Trichloroethane			101.5		%		70-130	11-DEC-17
1,1-Dichloroethane			104.7		%		70-130	11-DEC-17
1,1-Dichloroethylene			97.9		%		70-130	11-DEC-17
1,2-Dibromoethane			98.8		%		70-130	11-DEC-17
1,2-Dichlorobenzene			102.7		%		70-130	11-DEC-17
1,2-Dichloroethane			100.5		%		70-130	11-DEC-17
1,2-Dichloropropane			106.8		%		70-130	11-DEC-17
1,3-Dichlorobenzene			103.0		%		70-130	11-DEC-17
1,4-Dichlorobenzene			103.7		%		70-130	11-DEC-17
Acetone			108.4		%		60-140	11-DEC-17
Benzene			105.2		%		70-130	11-DEC-17
Bromodichloromethane			97.2		%		70-130	11-DEC-17
Bromoform			87.6		%		70-130	11-DEC-17
Bromomethane			99.9		%		60-140	11-DEC-17
Carbon tetrachloride			99.2		%		70-130	11-DEC-17
Chlorobenzene			101.9		%		70-130	11-DEC-17
Chloroform			103.6		%		70-130	11-DEC-17
cis-1,3-Dichloropropene			103.4		%		70-130	11-DEC-17
Dibromochloromethane			99.4		%		70-130	11-DEC-17
Dichlorodifluoromethane			93.2		%		50-140	11-DEC-17
Ethylbenzene			100.1		%		70-130	11-DEC-17
n-Hexane			88.3		%		70-130	11-DEC-17
m+p-Xylenes			101.8		%		70-130	11-DEC-17
Methyl Ethyl Ketone			91.7		%		60-140	11-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3909162								
WG2680232-1 LCS								
Methyl Isobutyl Ketone			90.8		%		60-140	11-DEC-17
Methylene Chloride			103.7		%		70-130	11-DEC-17
MTBE			101.5		%		70-130	11-DEC-17
o-Xylene			99.0		%		70-130	11-DEC-17
Styrene			93.6		%		70-130	11-DEC-17
Tetrachloroethylene			97.9		%		70-130	11-DEC-17
Toluene			102.0		%		70-130	11-DEC-17
trans-1,2-Dichloroethylene			105.3		%		70-130	11-DEC-17
trans-1,3-Dichloropropene			102.8		%		70-130	11-DEC-17
Trichlorofluoromethane			101.5		%		60-140	11-DEC-17
WG2680232-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	11-DEC-17
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	11-DEC-17
1,1,1-Trichloroethane			<0.50		ug/L		0.5	11-DEC-17
1,1,2-Trichloroethane			<0.50		ug/L		0.5	11-DEC-17
1,1-Dichloroethane			<0.50		ug/L		0.5	11-DEC-17
1,1-Dichloroethylene			<0.50		ug/L		0.5	11-DEC-17
1,2-Dibromoethane			<0.20		ug/L		0.2	11-DEC-17
1,2-Dichlorobenzene			<0.50		ug/L		0.5	11-DEC-17
1,2-Dichloroethane			<0.50		ug/L		0.5	11-DEC-17
1,2-Dichloropropane			<0.50		ug/L		0.5	11-DEC-17
1,3-Dichlorobenzene			<0.50		ug/L		0.5	11-DEC-17
1,4-Dichlorobenzene			<0.50		ug/L		0.5	11-DEC-17
Acetone			<30		ug/L		30	11-DEC-17
Benzene			<0.50		ug/L		0.5	11-DEC-17
Bromodichloromethane			<2.0		ug/L		2	11-DEC-17
Bromoform			<5.0		ug/L		5	11-DEC-17
Bromomethane			<0.50		ug/L		0.5	11-DEC-17
Carbon tetrachloride			<0.20		ug/L		0.2	11-DEC-17
Chlorobenzene			<0.50		ug/L		0.5	11-DEC-17
Chloroform			<1.0		ug/L		1	11-DEC-17
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	11-DEC-17
Dibromochloromethane			<2.0		ug/L		2	11-DEC-17
Dichlorodifluoromethane			<2.0		ug/L		2	11-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3909162								
WG2680232-2 MB								
Ethylbenzene			<0.50		ug/L		0.5	11-DEC-17
n-Hexane			<0.50		ug/L		0.5	11-DEC-17
m+p-Xylenes			<0.40		ug/L		0.4	11-DEC-17
Methyl Ethyl Ketone			<20		ug/L		20	11-DEC-17
Methyl Isobutyl Ketone			<20		ug/L		20	11-DEC-17
Methylene Chloride			<5.0		ug/L		5	11-DEC-17
MTBE			<2.0		ug/L		2	11-DEC-17
o-Xylene			<0.30		ug/L		0.3	11-DEC-17
Styrene			<0.50		ug/L		0.5	11-DEC-17
Tetrachloroethylene			<0.50		ug/L		0.5	11-DEC-17
Toluene			<0.50		ug/L		0.5	11-DEC-17
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	11-DEC-17
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	11-DEC-17
Trichlorofluoromethane			<5.0		ug/L		5	11-DEC-17
Surrogate: 1,4-Difluorobenzene			99.0		%		70-130	11-DEC-17
Surrogate: 4-Bromofluorobenzene			94.9		%		70-130	11-DEC-17
WG2680232-5 MS		**WG2680232-3**						
1,1,1,2-Tetrachloroethane			99.96		%		50-140	11-DEC-17
1,1,2,2-Tetrachloroethane			93.2		%		50-140	11-DEC-17
1,1,1-Trichloroethane			101.6		%		50-140	11-DEC-17
1,1,2-Trichloroethane			102.4		%		50-140	11-DEC-17
1,1-Dichloroethane			101.0		%		50-140	11-DEC-17
1,1-Dichloroethylene			95.6		%		50-140	11-DEC-17
1,2-Dibromoethane			98.7		%		50-140	11-DEC-17
1,2-Dichlorobenzene			102.3		%		50-140	11-DEC-17
1,2-Dichloroethane			101.9		%		50-140	11-DEC-17
1,2-Dichloropropane			106.4		%		50-140	11-DEC-17
1,3-Dichlorobenzene			101.0		%		50-140	11-DEC-17
1,4-Dichlorobenzene			102.2		%		50-140	11-DEC-17
Acetone			108.1		%		50-140	11-DEC-17
Benzene			104.5		%		50-140	11-DEC-17
Bromodichloromethane			96.7		%		50-140	11-DEC-17
Bromoform			89.0		%		50-140	11-DEC-17
Bromomethane			93.4		%		50-140	11-DEC-17

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3909162								
WG2680232-5 MS		**WG2680232-3**						
Carbon tetrachloride			98.7		%		50-140	11-DEC-17
Chlorobenzene			102.0		%		50-140	11-DEC-17
Chloroform			102.8		%		50-140	11-DEC-17
cis-1,3-Dichloropropene			98.3		%		50-140	11-DEC-17
Dibromochloromethane			99.97		%		50-140	11-DEC-17
Dichlorodifluoromethane			83.4		%		50-140	11-DEC-17
Ethylbenzene			99.7		%		50-140	11-DEC-17
n-Hexane			85.4		%		50-140	11-DEC-17
m+p-Xylenes			100.9		%		50-140	11-DEC-17
Methyl Ethyl Ketone			91.1		%		50-140	11-DEC-17
Methyl Isobutyl Ketone			90.1		%		50-140	11-DEC-17
Methylene Chloride			102.0		%		50-140	11-DEC-17
MTBE			101.2		%		50-140	11-DEC-17
o-Xylene			99.2		%		50-140	11-DEC-17
Styrene			93.8		%		50-140	11-DEC-17
Tetrachloroethylene			97.4		%		50-140	11-DEC-17
Toluene			101.9		%		50-140	11-DEC-17
trans-1,2-Dichloroethylene			102.0		%		50-140	11-DEC-17
trans-1,3-Dichloropropene			96.7		%		50-140	11-DEC-17
Trichlorofluoromethane			98.7		%		50-140	11-DEC-17
Batch R3910867								
WG2680234-1 LCS								
cis-1,2-Dichloroethylene			93.9		%		70-130	11-DEC-17
Trichloroethylene			98.5		%		70-130	11-DEC-17
Vinyl chloride			103.4		%		60-140	11-DEC-17
WG2680234-2 MB								
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	12-DEC-17
Trichloroethylene			<0.50		ug/L		0.5	12-DEC-17
Vinyl chloride			<0.50		ug/L		0.5	12-DEC-17

Quality Control Report

Workorder: L2032736 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2032736-COFC

COC Number: 17 - 621039

Page 1 of 1

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	MJE Consultants Inc.	Select Report Format: [X] PDF [ ] EXCEL [ ] EDD (DIGITAL)	Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	S. Buck	Quality Control (QC) Report with Report [X] YES [ ] NO	PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]
Phone:	905 639 2552	[X] Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E-100%] [ ]; Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] [ ]
	Company address below will appear on the final report	Select Distribution: [X] EMAIL [ ] MAIL [ ] FAX	
Street:		Email 1 or Fax sbuckemtes5.com	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
City/Province:		Email 2 tjonesemtes5.com	For tests that can not be performed according to the service level selected, you will be contacted.
Postal Code:		Email 3	

Invoice To		Invoice Distribution	
	Same as Report To [X] YES [ ] NO	Select Invoice Distribution: [X] EMAIL [ ] MAIL [ ] FAX	
	Copy of Invoice with Report [ ] YES [X] NO		
Company:		Email 1 or Fax	
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	38934-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): L2032736 ALS Contact: MLP Sampler: SDB

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	P VOCs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
	BH41D	06-12-17	11:30	GW	X			2

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	Compare to O.Reg 153/04 Tbl 3 Fine
Are samples for human consumption/ use? [ ] YES [X] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	[ ]	SIF Observations	Yes [ ]	No	[ ]
Ice Packs [X]	Ice Cubes [X]	Custody seal intact	Yes [ ]	No	[ ]
Cooling Initiated [X]					

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
3.6°C				2.9			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: S. Buck	Date: 12/06/17	Time: 15:37	Received by: Barran Barton	Date: 6-Dec-2017	Time: 15:37	Received by: [illegible]	Date: Dec. 07/17	Time: 16:05

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

MTE CONSULTANTS INC. (Kitchener)
ATTN: Spencer Buck
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Date Received: 27-FEB-18
Report Date: 28-FEB-18 13:10 (MT)
Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2061580

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 17-618482
Legal Site Desc:

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2061580-1 BH109D						
Sampled By: SDB on 27-FEB-18 @ 14:45						
Matrix: WATER						
Volatile Organic Compounds						
Acetone	<30		30	ug/L	28-FEB-18	2700
Benzene	<0.50		0.50	ug/L	28-FEB-18	5
Bromodichloromethane	<2.0		2.0	ug/L	28-FEB-18	16
Bromoform	<5.0		5.0	ug/L	28-FEB-18	25
Bromomethane	<0.50		0.50	ug/L	28-FEB-18	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	28-FEB-18	5
Chlorobenzene	<0.50		0.50	ug/L	28-FEB-18	30
Dibromochloromethane	<2.0		2.0	ug/L	28-FEB-18	25
Chloroform	<1.0		1.0	ug/L	28-FEB-18	22
1,2-Dibromoethane	<0.20		0.20	ug/L	28-FEB-18	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	28-FEB-18	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	28-FEB-18	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	28-FEB-18	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	28-FEB-18	590
1,1-Dichloroethane	<0.50		0.50	ug/L	28-FEB-18	5
1,2-Dichloroethane	<0.50		0.50	ug/L	28-FEB-18	5
1,1-Dichloroethylene	<0.50		0.50	ug/L	28-FEB-18	14
cis-1,2-Dichloroethylene	0.58		0.50	ug/L	28-FEB-18	17
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	28-FEB-18	17
Methylene Chloride	<5.0		5.0	ug/L	28-FEB-18	50
1,2-Dichloropropane	<0.50		0.50	ug/L	28-FEB-18	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	28-FEB-18	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	28-FEB-18	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	28-FEB-18	0.5
Ethylbenzene	<0.50		0.50	ug/L	28-FEB-18	2.4
n-Hexane	<0.50		0.50	ug/L	28-FEB-18	520
Methyl Ethyl Ketone	<20		20	ug/L	28-FEB-18	1800
Methyl Isobutyl Ketone	<20		20	ug/L	28-FEB-18	640
MTBE	<2.0		2.0	ug/L	28-FEB-18	15
Styrene	<0.50		0.50	ug/L	28-FEB-18	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	28-FEB-18	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	28-FEB-18	1
Tetrachloroethylene	<0.50		0.50	ug/L	28-FEB-18	17
Toluene	<0.50		0.50	ug/L	28-FEB-18	24
1,1,1-Trichloroethane	<0.50		0.50	ug/L	28-FEB-18	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	28-FEB-18	5
Trichloroethylene	<0.50		0.50	ug/L	28-FEB-18	5
Trichlorofluoromethane	<5.0		5.0	ug/L	28-FEB-18	150
Vinyl chloride	<0.50		0.50	ug/L	28-FEB-18	1.7
o-Xylene	<0.30		0.30	ug/L	28-FEB-18	
m+p-Xylenes	<0.40		0.40	ug/L	28-FEB-18	
Xylenes (Total)	<0.50		0.50	ug/L	28-FEB-18	300
Surrogate: 4-Bromofluorobenzene	92.5		70-130	%	28-FEB-18	
Surrogate: 1,4-Difluorobenzene	93.0		70-130	%	28-FEB-18	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
VOC-1,3-DCP-CALC-WT	Water	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Water	VOC by GCMS HS O.Reg 153/04 (July 2011)	SW846 8260

Liquid samples are analyzed by headspace GC/MSD.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

17-618482

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2061580 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3972330								
WG2718805-4 DUP		**WG2718805-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
1,1-Dichloroethane		0.60	0.56		ug/L	6.9	30	01-MAR-18
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	01-MAR-18
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	01-MAR-18
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-MAR-18
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	01-MAR-18
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	01-MAR-18
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	01-MAR-18
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	01-MAR-18
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-MAR-18
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-MAR-18
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	01-MAR-18
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	01-MAR-18
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	01-MAR-18
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	01-MAR-18
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-MAR-18
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	01-MAR-18
Styrene		<0.50	<0.50		ug/L			01-MAR-18

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3972330								
WG2718805-4 DUP		**WG2718805-3**						
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	01-MAR-18
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	01-MAR-18
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAR-18
WG2718805-1 LCS								
1,1,1,2-Tetrachloroethane			102.0		%		70-130	28-FEB-18
1,1,2,2-Tetrachloroethane			97.7		%		70-130	28-FEB-18
1,1,1-Trichloroethane			104.8		%		70-130	28-FEB-18
1,1,2-Trichloroethane			103.7		%		70-130	28-FEB-18
1,1-Dichloroethane			105.9		%		70-130	28-FEB-18
1,1-Dichloroethylene			94.1		%		70-130	28-FEB-18
1,2-Dibromoethane			103.1		%		70-130	28-FEB-18
1,2-Dichlorobenzene			105.4		%		70-130	28-FEB-18
1,2-Dichloroethane			109.2		%		70-130	28-FEB-18
1,2-Dichloropropane			109.0		%		70-130	28-FEB-18
1,3-Dichlorobenzene			105.2		%		70-130	28-FEB-18
1,4-Dichlorobenzene			107.4		%		70-130	28-FEB-18
Acetone			117.3		%		60-140	28-FEB-18
Benzene			107.6		%		70-130	28-FEB-18
Bromodichloromethane			105.0		%		70-130	28-FEB-18
Bromoform			99.3		%		70-130	28-FEB-18
Bromomethane			100.9		%		60-140	28-FEB-18
Carbon tetrachloride			103.7		%		70-130	28-FEB-18
Chlorobenzene			103.7		%		70-130	28-FEB-18
Chloroform			107.6		%		70-130	28-FEB-18
cis-1,2-Dichloroethylene			104.4		%		70-130	28-FEB-18
cis-1,3-Dichloropropene			107.6		%		70-130	28-FEB-18
Dibromochloromethane			106.8		%		70-130	28-FEB-18
Dichlorodifluoromethane			67.6		%		50-140	28-FEB-18

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3972330								
WG2718805-1 LCS								
Ethylbenzene			96.1		%		70-130	28-FEB-18
n-Hexane			108.9		%		70-130	28-FEB-18
m+p-Xylenes			98.7		%		70-130	28-FEB-18
Methyl Ethyl Ketone			108.6		%		60-140	28-FEB-18
Methyl Isobutyl Ketone			103.7		%		60-140	28-FEB-18
Methylene Chloride			111.1		%		70-130	28-FEB-18
MTBE			102.1		%		70-130	28-FEB-18
o-Xylene			96.5		%		70-130	28-FEB-18
Styrene			101.4		%		70-130	28-FEB-18
Tetrachloroethylene			99.8		%		70-130	28-FEB-18
Toluene			98.8		%		70-130	28-FEB-18
trans-1,2-Dichloroethylene			105.5		%		70-130	28-FEB-18
trans-1,3-Dichloropropene			99.7		%		70-130	28-FEB-18
Trichloroethylene			107.4		%		70-130	28-FEB-18
Trichlorofluoromethane			103.1		%		60-140	28-FEB-18
Vinyl chloride			82.4		%		60-140	28-FEB-18
WG2718805-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	28-FEB-18
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	28-FEB-18
1,1,1-Trichloroethane			<0.50		ug/L		0.5	28-FEB-18
1,1,2-Trichloroethane			<0.50		ug/L		0.5	28-FEB-18
1,1-Dichloroethane			<0.50		ug/L		0.5	28-FEB-18
1,1-Dichloroethylene			<0.50		ug/L		0.5	28-FEB-18
1,2-Dibromoethane			<0.20		ug/L		0.2	28-FEB-18
1,2-Dichlorobenzene			<0.50		ug/L		0.5	28-FEB-18
1,2-Dichloroethane			<0.50		ug/L		0.5	28-FEB-18
1,2-Dichloropropane			<0.50		ug/L		0.5	28-FEB-18
1,3-Dichlorobenzene			<0.50		ug/L		0.5	28-FEB-18
1,4-Dichlorobenzene			<0.50		ug/L		0.5	28-FEB-18
Acetone			<30		ug/L		30	28-FEB-18
Benzene			<0.50		ug/L		0.5	28-FEB-18
Bromodichloromethane			<2.0		ug/L		2	28-FEB-18
Bromoform			<5.0		ug/L		5	28-FEB-18
Bromomethane			<0.50		ug/L		0.5	28-FEB-18

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3972330								
WG2718805-2 MB								
Carbon tetrachloride			<0.20		ug/L		0.2	28-FEB-18
Chlorobenzene			<0.50		ug/L		0.5	28-FEB-18
Chloroform			<1.0		ug/L		1	28-FEB-18
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	28-FEB-18
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	28-FEB-18
Dibromochloromethane			<2.0		ug/L		2	28-FEB-18
Dichlorodifluoromethane			<2.0		ug/L		2	28-FEB-18
Ethylbenzene			<0.50		ug/L		0.5	28-FEB-18
n-Hexane			<0.50		ug/L		0.5	28-FEB-18
m+p-Xylenes			<0.40		ug/L		0.4	28-FEB-18
Methyl Ethyl Ketone			<20		ug/L		20	28-FEB-18
Methyl Isobutyl Ketone			<20		ug/L		20	28-FEB-18
Methylene Chloride			<5.0		ug/L		5	28-FEB-18
MTBE			<2.0		ug/L		2	28-FEB-18
o-Xylene			<0.30		ug/L		0.3	28-FEB-18
Styrene			<0.50		ug/L		0.5	28-FEB-18
Tetrachloroethylene			<0.50		ug/L		0.5	28-FEB-18
Toluene			<0.50		ug/L		0.5	28-FEB-18
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	28-FEB-18
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	28-FEB-18
Trichloroethylene			<0.50		ug/L		0.5	28-FEB-18
Trichlorofluoromethane			<5.0		ug/L		5	28-FEB-18
Vinyl chloride			<0.50		ug/L		0.5	28-FEB-18
Surrogate: 1,4-Difluorobenzene			92.4		%		70-130	28-FEB-18
Surrogate: 4-Bromofluorobenzene			92.0		%		70-130	28-FEB-18
WG2718805-5 MS		**L2061593-1**						
1,1,1,2-Tetrachloroethane			101.5		%		50-140	01-MAR-18
1,1,2,2-Tetrachloroethane			93.2		%		50-140	01-MAR-18
1,1,1-Trichloroethane			108.4		%		50-140	01-MAR-18
1,1,2-Trichloroethane			99.9		%		50-140	01-MAR-18
1,1-Dichloroethane			107.4		%		50-140	01-MAR-18
1,1-Dichloroethylene			96.6		%		50-140	01-MAR-18
1,2-Dibromoethane			96.6		%		50-140	01-MAR-18
1,2-Dichlorobenzene			105.8		%		50-140	01-MAR-18

Quality Control Report

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R3972330								
WG2718805-5 MS		**L2061593-1**						
1,2-Dichloroethane			105.8		%		50-140	01-MAR-18
1,2-Dichloropropane			108.2		%		50-140	01-MAR-18
1,3-Dichlorobenzene			106.3		%		50-140	01-MAR-18
1,4-Dichlorobenzene			108.5		%		50-140	01-MAR-18
Acetone			111.8		%		50-140	01-MAR-18
Benzene			108.2		%		50-140	01-MAR-18
Bromodichloromethane			104.3		%		50-140	01-MAR-18
Bromoform			94.6		%		50-140	01-MAR-18
Bromomethane			97.9		%		50-140	01-MAR-18
Carbon tetrachloride			108.0		%		50-140	01-MAR-18
Chlorobenzene			103.3		%		50-140	01-MAR-18
Chloroform			109.2		%		50-140	01-MAR-18
cis-1,2-Dichloroethylene			104.9		%		50-140	01-MAR-18
cis-1,3-Dichloropropene			98.9		%		50-140	01-MAR-18
Dibromochloromethane			103.6		%		50-140	01-MAR-18
Dichlorodifluoromethane			67.0		%		50-140	01-MAR-18
Ethylbenzene			94.2		%		50-140	01-MAR-18
n-Hexane			112.1		%		50-140	01-MAR-18
m+p-Xylenes			98.3		%		50-140	01-MAR-18
Methyl Ethyl Ketone			96.6		%		50-140	01-MAR-18
Methyl Isobutyl Ketone			87.7		%		50-140	01-MAR-18
Methylene Chloride			110.5		%		50-140	01-MAR-18
MTBE			102.4		%		50-140	01-MAR-18
o-Xylene			94.3		%		50-140	01-MAR-18
Styrene			96.4		%		50-140	01-MAR-18
Tetrachloroethylene			100.5		%		50-140	01-MAR-18
Toluene			97.1		%		50-140	01-MAR-18
trans-1,2-Dichloroethylene			105.8		%		50-140	01-MAR-18
trans-1,3-Dichloropropene			87.4		%		50-140	01-MAR-18
Trichloroethylene			109.3		%		50-140	01-MAR-18
Trichlorofluoromethane			106.8		%		50-140	01-MAR-18
Vinyl chloride			82.4		%		50-140	01-MAR-18

Quality Control Report

Workorder: L2061580 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: Spencer Buck

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

ALS Environmental
www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L2061580-COFC

COC Number: 17 - 618482

Page 1 of 1

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	MTE Consultants Inc.	Select Report Format: [X] PDF [ ] EXCEL [ ] EDD (DIGITAL)	Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	S. Buck	Quality Control (QC) Report with Report [X] YES [ ] NO	PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]
Phone:	905-639-2552	[X] Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E-100%] [X]; Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] [ ]
	Company address below will appear on the final report	Select Distribution: [X] EMAIL [ ] MAIL [ ] FAX	
Street:		Email 1 or Fax sbuck@mte85.com	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
City/Province:		Email 2 tjones@mte85.com	For tests that can not be performed according to the service level selected, you will be contacted.
Postal Code:		Email 3	

Invoice To		Invoice Distribution
	Same as Report To [X] YES [ ] NO	Select Invoice Distribution: [ ] EMAIL [ ] MAIL [ ] FAX
	Copy of Invoice with Report [ ] YES [X] NO	
Company:		Email 1 or Fax
Contact:		Email 2

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	38934-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):	L2061580	ALS Contact: MLP	Sampler: SDB

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NOC's	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
	BH109D	27-02-18	14:45	W	X			2

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	Compare to O.Reg 153/04 Tbl 3 MIF
Are samples for human consumption/ use? [ ] YES [X] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	[ ]	SIF Observations	Yes [ ]	No	[ ]
Ice Packs	[X]	Ice Cubes [X]	Custody seal intact	Yes [ ]	No [ ]
Cooling Initiated	[X]				

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
3.2°C				5.4			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: S. BUCK	Date: 02/27/18	Time: 14:55	Received by: AARON BURTON	Date: 27-Feb-2018	Time: 14:55	Received by:	Date: 28-Feb-18	Time: 9:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

Maxxam
A Bureau Veritas Group Company

Your Project #: 38934-100
Your C.O.C. #: 105828

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2019/05/01
Report #: R5692260
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B864417
Received: 2018/03/22, 12:32

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
1,3-Dichloropropene Sum	1	N/A	2018/03/27		EPA 8260C m
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2018/03/26	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	2	2018/03/26	2018/03/26	CAM SOP-00316	CCME PHC-CWS m
Volatile Organic Compounds in Water	1	N/A	2018/03/26	CAM SOP-00228	EPA 8260C m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing. Maxxam is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Your Project #: 38934-100
Your C.O.C. #: 105828

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2019/05/01
Report #: R5692260
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B864417
Received: 2018/03/22, 12:32

Encryption Key



Ronklin Gracian
Project Manager
01 May 2019 14:03:31

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: RGracian@maxxam.ca
Phone# (905) 817-5700
==========
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam Job #: B864417
Report Date: 2019/05/01

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID			GHQ984	GHQ986			GHQ986		
Sampling Date			2018/03/22 11:00	2018/03/22 10:00			2018/03/22 10:00		
COC Number			105828	105828			105828		
	UNITS	**Criteria**	**BH102**	**BH113**	**RDL**	**QC Batch**	**BH113 Lab-Dup**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons									
F1 (C6-C10)	ug/L	750	<25	690	25	5455747			
F1 (C6-C10) - BTEX	ug/L	750	<25	690	25	5455747			
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	150	<100	<100	100	5456324	<100	100	5456324
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	<200	200	5456324	<200	200	5456324
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	<200	200	5456324	<200	200	5456324
Reached Baseline at C50	ug/L	-	Yes	Yes		5456324	Yes		5456324
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	-	112	111		5455747			
4-Bromofluorobenzene	%	-	106	104		5455747			
D10-Ethylbenzene	%	-	85	80		5455747			
D4-1,2-Dichloroethane	%	-	113	107		5455747			
o-Terphenyl	%	-	98	99		5456324	96		5456324

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil

Maxxam Job #: B864417
Report Date: 2019/05/01

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

O.REG 153 VOCS BY HS (WATER)

Maxxam ID			GHQ985		
Sampling Date			2018/03/22 09:00		
COC Number			105828		
	UNITS	**Criteria**	**BH109D**	**RDL**	**QC Batch**
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	0.50	5451865
Volatile Organics					
Acetone (2-Propanone)	ug/L	2700	<10	10	5453694
Benzene	ug/L	5.0	<0.20	0.20	5453694
Bromodichloromethane	ug/L	16.0	<0.50	0.50	5453694
Bromoform	ug/L	25.0	<1.0	1.0	5453694
Bromomethane	ug/L	0.89	<0.50	0.50	5453694
Carbon Tetrachloride	ug/L	5.0	<0.20	0.20	5453694
Chlorobenzene	ug/L	30	<0.20	0.20	5453694
Chloroform	ug/L	22	<0.20	0.20	5453694
Dibromochloromethane	ug/L	25.0	<0.50	0.50	5453694
1,2-Dichlorobenzene	ug/L	3.0	<0.50	0.50	5453694
1,3-Dichlorobenzene	ug/L	59	<0.50	0.50	5453694
1,4-Dichlorobenzene	ug/L	1.0	<0.50	0.50	5453694
Dichlorodifluoromethane (FREON 12)	ug/L	590	<1.0	1.0	5453694
1,1-Dichloroethane	ug/L	5	<0.20	0.20	5453694
1,2-Dichloroethane	ug/L	5	<0.50	0.50	5453694
1,1-Dichloroethylene	ug/L	14	<0.20	0.20	5453694
cis-1,2-Dichloroethylene	ug/L	17	3.6	0.50	5453694
trans-1,2-Dichloroethylene	ug/L	17	<0.50	0.50	5453694
1,2-Dichloropropane	ug/L	5.0	<0.20	0.20	5453694
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	0.30	5453694
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	0.40	5453694
Ethylbenzene	ug/L	2.4	<0.20	0.20	5453694
Ethylene Dibromide	ug/L	0.2	<0.20	0.20	5453694
Hexane	ug/L	520	<1.0	1.0	5453694
Methylene Chloride(Dichloromethane)	ug/L	50	<2.0	2.0	5453694

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B864417
Report Date: 2019/05/01

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

O.REG 153 VOCS BY HS (WATER)

Maxxam ID			GHQ985		
Sampling Date			2018/03/22 09:00		
COC Number			105828		
	UNITS	**Criteria**	**BH109D**	**RDL**	**QC Batch**
Methyl Ethyl Ketone (2-Butanone)	ug/L	1800	<10	10	5453694
Methyl Isobutyl Ketone	ug/L	640	<5.0	5.0	5453694
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	0.50	5453694
Styrene	ug/L	5.4	<0.50	0.50	5453694
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	0.50	5453694
1,1,2,2-Tetrachloroethane	ug/L	1.0	<0.50	0.50	5453694
Tetrachloroethylene	ug/L	17	<0.20	0.20	5453694
Toluene	ug/L	24	<0.20	0.20	5453694
1,1,1-Trichloroethane	ug/L	200	<0.20	0.20	5453694
1,1,2-Trichloroethane	ug/L	5	<0.50	0.50	5453694
Trichloroethylene	ug/L	5	**8.3**	0.20	5453694
Trichlorofluoromethane (FREON 11)	ug/L	150	<0.50	0.50	5453694
Vinyl Chloride	ug/L	1.7	0.31	0.20	5453694
p+m-Xylene	ug/L	-	<0.20	0.20	5453694
o-Xylene	ug/L	-	<0.20	0.20	5453694
Total Xylenes	ug/L	300	<0.20	0.20	5453694
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	-	96		5453694
D4-1,2-Dichloroethane	%	-	107		5453694
D8-Toluene	%	-	94		5453694

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil

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Maxxam Job #: B864417
Report Date: 2019/05/01

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

TEST SUMMARY

Maxxam ID: GHQ984
Sample ID: BH102
Matrix: Water

Collected: 2018/03/22
Shipped:
Received: 2018/03/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	5455747	N/A	2018/03/26	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5456324	2018/03/26	2018/03/26	Margaret Kulczyk-Stanko

Maxxam ID: GHQ985
Sample ID: BH109D
Matrix: Water

Collected: 2018/03/22
Shipped:
Received: 2018/03/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	5451865	N/A	2018/03/27	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	5453694	N/A	2018/03/26	Rebecca McClean

Maxxam ID: GHQ986
Sample ID: BH113
Matrix: Water

Collected: 2018/03/22
Shipped:
Received: 2018/03/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	5455747	N/A	2018/03/26	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5456324	2018/03/26	2018/03/26	Margaret Kulczyk-Stanko

Maxxam ID: GHQ986 Dup
Sample ID: BH113
Matrix: Water

Collected: 2018/03/22
Shipped:
Received: 2018/03/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5456324	2018/03/26	2018/03/26	Margaret Kulczyk-Stanko

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B864417
Report Date: 2019/05/01

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.0°C

Revised Report [2019/05/01]: Criteria amended as per client request.

Cooler custody seal was present and intact.

Sample GHQ986 [BH113] : F1-BTEX Analysis:
The contamination in the F1 range is mainly due to 2 individual peaks, not a typical petroleum product.
The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Results relate only to the items tested.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B864417
Report Date: 2019/05/01

QUALITY ASSURANCE REPORT

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
5453694	4-Bromofluorobenzene	2018/03/26	98	70 - 130	97	70 - 130	98	%		
5453694	D4-1,2-Dichloroethane	2018/03/26	106	70 - 130	106	70 - 130	104	%		
5453694	D8-Toluene	2018/03/26	95	70 - 130	96	70 - 130	94	%		
5455747	1,4-Difluorobenzene	2018/03/27	105	70 - 130	102	70 - 130	129	%		
5455747	4-Bromofluorobenzene	2018/03/27	106	70 - 130	100	70 - 130	105	%		
5455747	D10-Ethylbenzene	2018/03/27	85	70 - 130	83	70 - 130	87	%		
5455747	D4-1,2-Dichloroethane	2018/03/27	100	70 - 130	93	70 - 130	104	%		
5456324	o-Terphenyl	2018/03/26	101	60 - 130	101	60 - 130	98	%		
5453694	1,1,1,2-Tetrachloroethane	2018/03/26	100	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
5453694	1,1,1-Trichloroethane	2018/03/26	98	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
5453694	1,1,2,2-Tetrachloroethane	2018/03/26	100	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
5453694	1,1,2-Trichloroethane	2018/03/26	101	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
5453694	1,1-Dichloroethane	2018/03/26	101	70 - 130	101	70 - 130	<0.20	ug/L	NC	30
5453694	1,1-Dichloroethylene	2018/03/26	99	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
5453694	1,2-Dichlorobenzene	2018/03/26	93	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
5453694	1,2-Dichloroethane	2018/03/26	98	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
5453694	1,2-Dichloropropane	2018/03/26	100	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
5453694	1,3-Dichlorobenzene	2018/03/26	92	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
5453694	1,4-Dichlorobenzene	2018/03/26	94	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
5453694	Acetone (2-Propanone)	2018/03/26	125	60 - 140	132	60 - 140	<10	ug/L	22	30
5453694	Benzene	2018/03/26	96	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
5453694	Bromodichloromethane	2018/03/26	102	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
5453694	Bromoform	2018/03/26	108	70 - 130	111	70 - 130	<1.0	ug/L	NC	30
5453694	Bromomethane	2018/03/26	99	60 - 140	98	60 - 140	<0.50	ug/L	NC	30
5453694	Carbon Tetrachloride	2018/03/26	103	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
5453694	Chlorobenzene	2018/03/26	92	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
5453694	Chloroform	2018/03/26	100	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
5453694	cis-1,2-Dichloroethylene	2018/03/26	102	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
5453694	cis-1,3-Dichloropropene	2018/03/26	104	70 - 130	108	70 - 130	<0.30	ug/L	NC	30
5453694	Dibromochloromethane	2018/03/26	103	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
5453694	Dichlorodifluoromethane (FREON 12)	2018/03/26	94	60 - 140	94	60 - 140	<1.0	ug/L	NC	30
5453694	Ethylbenzene	2018/03/26	91	70 - 130	95	70 - 130	<0.20	ug/L	NC	30

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
5453694	Ethylene Dibromide	2018/03/26	101	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
5453694	Hexane	2018/03/26	99	70 - 130	98	70 - 130	<1.0	ug/L	NC	30
5453694	Methyl Ethyl Ketone (2-Butanone)	2018/03/26	118	60 - 140	123	60 - 140	<10	ug/L	NC	30
5453694	Methyl Isobutyl Ketone	2018/03/26	112	70 - 130	117	70 - 130	<5.0	ug/L	NC	30
5453694	Methyl t-butyl ether (MTBE)	2018/03/26	96	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
5453694	Methylene Chloride(Dichloromethane)	2018/03/26	107	70 - 130	107	70 - 130	<2.0	ug/L	NC	30
5453694	o-Xylene	2018/03/26	90	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
5453694	p+m-Xylene	2018/03/26	92	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
5453694	Styrene	2018/03/26	93	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
5453694	Tetrachloroethylene	2018/03/26	91	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
5453694	Toluene	2018/03/26	91	70 - 130	93	70 - 130	<0.20	ug/L	3.2	30
5453694	Total Xylenes	2018/03/26					<0.20	ug/L	NC	30
5453694	trans-1,2-Dichloroethylene	2018/03/26	100	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
5453694	trans-1,3-Dichloropropene	2018/03/26	110	70 - 130	112	70 - 130	<0.40	ug/L	NC	30
5453694	Trichloroethylene	2018/03/26	96	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
5453694	Trichlorofluoromethane (FREON 11)	2018/03/26	93	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
5453694	Vinyl Chloride	2018/03/26	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
5455747	F1 (C6-C10) - BTEX	2018/03/26					<25	ug/L	NC	30
5455747	F1 (C6-C10)	2018/03/26	84	70 - 130	94	70 - 130	<25	ug/L	NC	30
5456324	F2 (C10-C16 Hydrocarbons)	2018/03/26	111	50 - 130	107	60 - 130	<100	ug/L	NC	30
5456324	F3 (C16-C34 Hydrocarbons)	2018/03/26	105	50 - 130	108	60 - 130	<200	ug/L	NC	30
5456324	F4 (C34-C50 Hydrocarbons)	2018/03/26	102	50 - 130	102	60 - 130	<200	ug/L	NC	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

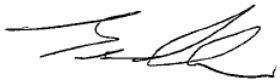
Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B864417
Report Date: 2019/05/01

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Brad Newman, Scientific Service Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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22-Mar-18 12:32

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Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5
Page 1 of 1

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

Bottle Types

			Inorganics					Organics											Hydrocarbons							Volatiles				Other
	Sample ID	All	CrVI	CN	General	Hg	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/ Herb 1 of 2	Pest/ Herb 2 of 2	SVOC/ ABN 1 of 2	SVOC/ ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4	
1	BM13	TS																											
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													

Comments:

Legend:	
P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

Recorded By: (signature/print)

Maxxam
A Bureau Veritas Group Company

6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAM FCD-01191/3

CHAIN OF CUSTODY RECORD 105828 Page 1 of 1

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: MTE Consultants Inc.	Company Name:	Quotation #:	[X] Regular TAT (5-7 days) Most analyses
Contact Name: S. Buck	Contact Name:	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address: 1016 Sutton Dr, Burlington, ON	Address:	Project #: 38934-100	Rush TAT (Surcharges will be applied)
Phone: 9056392552 Fax:	Phone: Fax:	Site Location:	[ ] 1 Day [ ] 2 Days [ ] 3-4 Days
Email: sbuck@mte85.com	Email: sbuck@mte85.com; tjones@mte85.com	Site #:	Date Required:
		Sampled By:	Rush Confirmation #:

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153	Other Regulations
[ ] Table 1 [X] Res/Park [X] Med/ Fine	[ ] CCME [ ] Sanitary Sewer Bylaw
[ ] Table 2 [ ] Ind/Comm [ ] Coarse	[ ] MISA [ ] Storm Sewer Bylaw
[X] Table 3 [ ] Agri/ Other	[ ] PWQO Region
[ ] Table ____	[ ] Other (Specify)
FOR RSC (PLEASE CIRCLE) (Y) / N	[ ] REG 558 (MIN. 3 DAY TAT REQUIRED)

Include Criteria on Certificate of Analysis: (Y) / N

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	PHC F1	PHCs F2 - F4	VOCs	REG 153 METALS & INORGANICS +	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	HOLD- DO NOT ANALYZE	COMMENTS
1	BH1102	18/03/22	11:00	GW	4		X	X						
2	BH109D	"	9:00	GW	3				X					
3	BH113	"	10:00	GW	4		X	X						
4														
5														
6														
7														
8														
9														
10														

LABORATORY USE ONLY

CUSTODY SEAL Y / N		COOLER TEMPERATURES
Present	Intact	
		4 / 1 / 4

COOLING MEDIA PRESENT: (Y) / N

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GK1 ENV-1189

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	MAXXAM JOB #
S. Buck	18/03/22	12:31	Tanvi Jones Tanvi Jones	2018/03/22	12:32	

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Maxxam's standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at www.maxxam.ca/terms. Sample container, preservation, hold time and packages information can be viewed at http://maxxam.ca/wp-content/uploads/Ontario-COC.pdf.

COC-1004 (03/17)

White: Maxxam ~ Yellow: Client

Maxxam Job #: B864417
Report Date: 2019/05/01

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

Exceedence Summary Table – Reg153/04 T2-GW-F/M

Result Exceedences

Sample ID	Maxxam ID	Parameter	Criteria	Result	DL	Units
BH109D	GHQ985-01	Trichloroethylene	5	8.3	0.20	ug/L

The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

MTE CONSULTANTS INC.
ATTN: Spencer Buck
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8

Date Received: 24-APR-18
Report Date: 02-MAY-19 10:40 (MT)
Version: FINAL REV. 4

Client Phone: 905-639-2552

Certificate of Analysis

Lab Work Order #: L2085065

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 17-618816
Legal Site Desc:

Comments: ADDITIONAL 01-MAY-18 12:02
02-MAY-19, Criteria

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1			
L2085065-1 TRIP BLANK Sampled By: CLIENT on 24-APR-18 @ 12:00 Matrix: WATER									
Volatile Organic Compounds									
Acetone	<30		30	ug/L	27-APR-18	2700			
Benzene	<0.50		0.50	ug/L	27-APR-18	5			
Bromodichloromethane	<2.0		2.0	ug/L	27-APR-18	16			
Bromoform	<5.0		5.0	ug/L	27-APR-18	25			
Bromomethane	<0.50		0.50	ug/L	27-APR-18	0.89			
Carbon tetrachloride	<0.20		0.20	ug/L	27-APR-18	5			
Chlorobenzene	<0.50		0.50	ug/L	27-APR-18	30			
Dibromochloromethane	<2.0		2.0	ug/L	27-APR-18	25			
Chloroform	<1.0		1.0	ug/L	27-APR-18	22			
1,2-Dibromoethane	<0.20		0.20	ug/L	27-APR-18	0.2			
1,2-Dichlorobenzene	<0.50		0.50	ug/L	27-APR-18	3			
1,3-Dichlorobenzene	<0.50		0.50	ug/L	27-APR-18	59			
1,4-Dichlorobenzene	<0.50		0.50	ug/L	27-APR-18	1			
Dichlorodifluoromethane	<2.0		2.0	ug/L	27-APR-18	590			
1,1-Dichloroethane	<0.50		0.50	ug/L	27-APR-18	5			
1,2-Dichloroethane	<0.50		0.50	ug/L	27-APR-18	5			
1,1-Dichloroethylene	<0.50		0.50	ug/L	27-APR-18	14			
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	27-APR-18	17			
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	27-APR-18	17			
Methylene Chloride	<5.0		5.0	ug/L	27-APR-18	50			
1,2-Dichloropropane	<0.50		0.50	ug/L	27-APR-18	5			
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	27-APR-18				
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	27-APR-18				
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	27-APR-18	0.5			
Ethylbenzene	<0.50		0.50	ug/L	27-APR-18	2.4			
n-Hexane	<0.50		0.50	ug/L	27-APR-18	520			
Methyl Ethyl Ketone	<20		20	ug/L	27-APR-18	1800			
Methyl Isobutyl Ketone	<20		20	ug/L	27-APR-18	640			
MTBE	<2.0		2.0	ug/L	27-APR-18	15			
Styrene	<0.50		0.50	ug/L	27-APR-18	5.4			
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	27-APR-18	1.1			
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	27-APR-18	1			
Tetrachloroethylene	<0.50		0.50	ug/L	27-APR-18	17			
Toluene	<0.50		0.50	ug/L	27-APR-18	24			
1,1,1-Trichloroethane	<0.50		0.50	ug/L	27-APR-18	200			
1,1,2-Trichloroethane	<0.50		0.50	ug/L	27-APR-18	5			
Trichloroethylene	<0.50		0.50	ug/L	27-APR-18	5			
Trichlorofluoromethane	<5.0		5.0	ug/L	27-APR-18	150			
Vinyl chloride	<0.50		0.50	ug/L	27-APR-18	1.7			
o-Xylene	<0.30		0.30	ug/L	27-APR-18				
m+p-Xylenes	<0.40		0.40	ug/L	27-APR-18				
Xylenes (Total)	<0.50		0.50	ug/L	27-APR-18	300			
Surrogate: 4-Bromofluorobenzene	80.3		70-130	%	27-APR-18				
Surrogate: 1,4-Difluorobenzene	96.9		70-130	%	27-APR-18				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2085065-2 BH211S						
Sampled By: CLIENT on 24-APR-18 @ 10:00						
Matrix: WATER						
Volatile Organic Compounds						
Acetone	<30		30	ug/L	27-APR-18	2700
Benzene	<0.50		0.50	ug/L	27-APR-18	5
Bromodichloromethane	<2.0		2.0	ug/L	27-APR-18	16
Bromoform	<5.0		5.0	ug/L	27-APR-18	25
Bromomethane	<0.50		0.50	ug/L	27-APR-18	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	27-APR-18	5
Chlorobenzene	<0.50		0.50	ug/L	27-APR-18	30
Dibromochloromethane	<2.0		2.0	ug/L	27-APR-18	25
Chloroform	<1.0		1.0	ug/L	27-APR-18	22
1,2-Dibromoethane	<0.20		0.20	ug/L	27-APR-18	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	27-APR-18	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	27-APR-18	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	27-APR-18	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	27-APR-18	590
1,1-Dichloroethane	<0.50		0.50	ug/L	27-APR-18	5
1,2-Dichloroethane	<0.50		0.50	ug/L	27-APR-18	5
1,1-Dichloroethylene	<0.50		0.50	ug/L	27-APR-18	14
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	27-APR-18	17
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	27-APR-18	17
Methylene Chloride	<5.0		5.0	ug/L	27-APR-18	50
1,2-Dichloropropane	<0.50		0.50	ug/L	27-APR-18	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	27-APR-18	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	27-APR-18	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	27-APR-18	0.5
Ethylbenzene	<0.50		0.50	ug/L	27-APR-18	2.4
n-Hexane	<0.50		0.50	ug/L	27-APR-18	520
Methyl Ethyl Ketone	<20		20	ug/L	27-APR-18	1800
Methyl Isobutyl Ketone	<20		20	ug/L	27-APR-18	640
MTBE	<2.0		2.0	ug/L	27-APR-18	15
Styrene	<0.50		0.50	ug/L	27-APR-18	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	27-APR-18	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	27-APR-18	1
Tetrachloroethylene	<0.50		0.50	ug/L	27-APR-18	17
Toluene	<0.50		0.50	ug/L	27-APR-18	24
1,1,1-Trichloroethane	<0.50		0.50	ug/L	27-APR-18	200
1,1,2-Trichloroethane	<0.50		0.50	ug/L	27-APR-18	5
Trichloroethylene	18.4		0.50	ug/L	27-APR-18	*5
Trichlorofluoromethane	<5.0		5.0	ug/L	27-APR-18	150
Vinyl chloride	<0.50		0.50	ug/L	27-APR-18	1.7
o-Xylene	<0.30		0.30	ug/L	27-APR-18	
m+p-Xylenes	<0.40		0.40	ug/L	27-APR-18	
Xylenes (Total)	<0.50		0.50	ug/L	27-APR-18	300
Surrogate: 4-Bromofluorobenzene	79.8		70-130	%	27-APR-18	
Surrogate: 1,4-Difluorobenzene	96.7		70-130	%	27-APR-18	
Hydrocarbons						
F1 (C6-C10)	<25		25	ug/L	27-APR-18	750

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2085065-2 BH211S						
Sampled By: CLIENT on 24-APR-18 @ 10:00						
Matrix: WATER						#1
Hydrocarbons						
F1-BTEX	<25		25	ug/L	30-APR-18	750
F2 (C10-C16)	<100		100	ug/L	27-APR-18	150
F3 (C16-C34)	<250		250	ug/L	27-APR-18	500
F4 (C34-C50)	<250		250	ug/L	27-APR-18	500
Total Hydrocarbons (C6-C50)	<370		370	ug/L	30-APR-18	
Chrom. to baseline at nC50	YES			No Unit	27-APR-18	
Surrogate: 2-Bromobenzotrifluoride	90.7		60-140	%	27-APR-18	
Surrogate: 3,4-Dichlorotoluene	86.4		60-140	%	27-APR-18	
L2085065-3 BH3S						
Sampled By: CLIENT on 24-APR-18 @ 11:00						
Matrix: WATER						#1
Volatile Organic Compounds						
Benzene	<0.50		0.50	ug/L	27-APR-18	5
Ethylbenzene	<0.50		0.50	ug/L	27-APR-18	2.4
Toluene	<0.50		0.50	ug/L	27-APR-18	24
o-Xylene	<0.30		0.30	ug/L	27-APR-18	
m+p-Xylenes	<0.40		0.40	ug/L	27-APR-18	
Xylenes (Total)	<0.50		0.50	ug/L	03-MAY-18	300
Surrogate: 4-Bromofluorobenzene	95.3		70-130	%	27-APR-18	
Surrogate: 1,4-Difluorobenzene	96.9		70-130	%	27-APR-18	
Hydrocarbons						
F1 (C6-C10)	164		25	ug/L	27-APR-18	750
F1-BTEX	164		25	ug/L	03-MAY-18	750
F2 (C10-C16)	<100		100	ug/L	27-APR-18	150
F3 (C16-C34)	<250		250	ug/L	27-APR-18	500
F4 (C34-C50)	<250		250	ug/L	27-APR-18	500
Total Hydrocarbons (C6-C50)	<370		370	ug/L	03-MAY-18	
Chrom. to baseline at nC50	YES			No Unit	27-APR-18	
Surrogate: 2-Bromobenzotrifluoride	97.5		60-140	%	27-APR-18	
Surrogate: 3,4-Dichlorotoluene	83.1		60-140	%	27-APR-18	
L2085065-4 BH212S						
Sampled By: CLIENT on 24-APR-18 @ 10:30						
Matrix: WATER						#1
Volatile Organic Compounds						
Acetone	<30	OWP	30	ug/L	27-APR-18	2700
Benzene	1.49	OWP	0.50	ug/L	27-APR-18	5
Bromodichloromethane	<2.0	OWP	2.0	ug/L	27-APR-18	16
Bromoform	<5.0	OWP	5.0	ug/L	27-APR-18	25
Bromomethane	<0.50	OWP	0.50	ug/L	27-APR-18	0.89
Carbon tetrachloride	<0.20	OWP	0.20	ug/L	27-APR-18	5
Chlorobenzene	<0.50	OWP	0.50	ug/L	27-APR-18	30
Dibromochloromethane	<2.0	OWP	2.0	ug/L	27-APR-18	25
Chloroform	<1.0	OWP	1.0	ug/L	27-APR-18	22
1,2-Dibromoethane	<0.20	OWP	0.20	ug/L	27-APR-18	0.2

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2085065-4 BH212S						
Sampled By: CLIENT on 24-APR-18 @ 10:30						
Matrix: WATER						#1
Volatile Organic Compounds						
1,2-Dichlorobenzene	<0.50	OWP	0.50	ug/L	27-APR-18	3
1,3-Dichlorobenzene	<0.50	OWP	0.50	ug/L	27-APR-18	59
1,4-Dichlorobenzene	<0.50	OWP	0.50	ug/L	27-APR-18	1
Dichlorodifluoromethane	<2.0	OWP	2.0	ug/L	27-APR-18	590
1,1-Dichloroethane	3.98	OWP	0.50	ug/L	27-APR-18	5
1,2-Dichloroethane	<0.50	OWP	0.50	ug/L	27-APR-18	5
1,1-Dichloroethylene	37.3	OWP	0.50	ug/L	27-APR-18	*14
cis-1,2-Dichloroethylene	1810	DLHC	130	ug/L	30-APR-18	*17
trans-1,2-Dichloroethylene	27.2	OWP	0.50	ug/L	27-APR-18	*17
Methylene Chloride	<5.0	OWP	5.0	ug/L	27-APR-18	50
1,2-Dichloropropane	<0.50	OWP	0.50	ug/L	27-APR-18	5
cis-1,3-Dichloropropene	<0.30	OWP	0.30	ug/L	27-APR-18	
trans-1,3-Dichloropropene	<0.30	OWP	0.30	ug/L	27-APR-18	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-APR-18	0.5
Ethylbenzene	<0.50	OWP	0.50	ug/L	27-APR-18	2.4
n-Hexane	<0.50	OWP	0.50	ug/L	27-APR-18	520
Methyl Ethyl Ketone	<20	OWP	20	ug/L	27-APR-18	1800
Methyl Isobutyl Ketone	<20	OWP	20	ug/L	27-APR-18	640
MTBE	<2.0	OWP	2.0	ug/L	27-APR-18	15
Styrene	<0.50	OWP	0.50	ug/L	27-APR-18	5.4
1,1,1,2-Tetrachloroethane	<0.50	OWP	0.50	ug/L	27-APR-18	1.1
1,1,2,2-Tetrachloroethane	<0.50	OWP	0.50	ug/L	27-APR-18	1
Tetrachloroethylene	23.1	OWP	0.50	ug/L	27-APR-18	*17
Toluene	0.77	OWP	0.50	ug/L	27-APR-18	24
1,1,1-Trichloroethane	<0.50	OWP	0.50	ug/L	27-APR-18	200
1,1,2-Trichloroethane	2.68	OWP	0.50	ug/L	27-APR-18	5
Trichloroethylene	25600	DLHC	130	ug/L	30-APR-18	*5
Trichlorofluoromethane	<5.0	OWP	5.0	ug/L	27-APR-18	150
Vinyl chloride	140	OWP	0.50	ug/L	27-APR-18	*1.7
o-Xylene	<0.30	OWP	0.30	ug/L	27-APR-18	
m+p-Xylenes	<0.40	OWP	0.40	ug/L	27-APR-18	
Xylenes (Total)	<0.50		0.50	ug/L	30-APR-18	300
Surrogate: 4-Bromofluorobenzene	79.8	OWP	70-130	%	27-APR-18	
Surrogate: 1,4-Difluorobenzene	96.4	OWP	70-130	%	27-APR-18	
L2085065-5 BH107S						
Sampled By: CLIENT on 24-APR-18 @ 09:30						
Matrix: WATER						#1
Volatile Organic Compounds						
Benzene	<0.50		0.50	ug/L	27-APR-18	5
Ethylbenzene	<0.50		0.50	ug/L	27-APR-18	2.4
Toluene	<0.50		0.50	ug/L	27-APR-18	24
o-Xylene	<0.30		0.30	ug/L	27-APR-18	
m+p-Xylenes	<0.40		0.40	ug/L	27-APR-18	
Xylenes (Total)	<0.50		0.50	ug/L	03-MAY-18	300
Surrogate: 4-Bromofluorobenzene	94.2		70-130	%	27-APR-18	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2085065-5 BH107S						
Sampled By: CLIENT on 24-APR-18 @ 09:30						
Matrix: WATER						#1
Volatile Organic Compounds						
Surrogate: 1,4-Difluorobenzene	97.5		70-130	%	27-APR-18	
Hydrocarbons						
F1 (C6-C10)	<25		25	ug/L	27-APR-18	750
F1-BTEX	<25		25	ug/L	03-MAY-18	750
F2 (C10-C16)	<100		100	ug/L	27-APR-18	150
F3 (C16-C34)	<250		250	ug/L	27-APR-18	500
F4 (C34-C50)	<250		250	ug/L	27-APR-18	500
Total Hydrocarbons (C6-C50)	<370		370	ug/L	03-MAY-18	
Chrom. to baseline at nC50	YES			No Unit	27-APR-18	
Surrogate: 2-Bromobenzotrifluoride	91.5		60-140	%	27-APR-18	
Surrogate: 3,4-Dichlorotoluene	79.0		60-140	%	27-APR-18	
L2085065-6 BH213S						
Sampled By: CLIENT on 24-APR-18 @ 11:30						
Matrix: WATER						#1
Volatile Organic Compounds						
Acetone	<30	OWP	30	ug/L	27-APR-18	2700
Benzene	1.02	OWP	0.50	ug/L	27-APR-18	5
Bromodichloromethane	<2.0	OWP	2.0	ug/L	27-APR-18	16
Bromoform	<5.0	OWP	5.0	ug/L	27-APR-18	25
Bromomethane	<0.50	OWP	0.50	ug/L	27-APR-18	0.89
Carbon tetrachloride	<0.20	OWP	0.20	ug/L	27-APR-18	5
Chlorobenzene	<0.50	OWP	0.50	ug/L	27-APR-18	30
Dibromochloromethane	<2.0	OWP	2.0	ug/L	27-APR-18	25
Chloroform	<1.0	OWP	1.0	ug/L	27-APR-18	22
1,2-Dibromoethane	<0.20	OWP	0.20	ug/L	27-APR-18	0.2
1,2-Dichlorobenzene	<0.50	OWP	0.50	ug/L	27-APR-18	3
1,3-Dichlorobenzene	<0.50	OWP	0.50	ug/L	27-APR-18	59
1,4-Dichlorobenzene	<0.50	OWP	0.50	ug/L	27-APR-18	1
Dichlorodifluoromethane	<2.0	OWP	2.0	ug/L	27-APR-18	590
1,1-Dichloroethane	2.97	OWP	0.50	ug/L	27-APR-18	5
1,2-Dichloroethane	<0.50	OWP	0.50	ug/L	27-APR-18	5
1,1-Dichloroethylene	22.0	OWP	0.50	ug/L	27-APR-18	*14
cis-1,2-Dichloroethylene	1170	DLHC	100	ug/L	30-APR-18	*17
trans-1,2-Dichloroethylene	17.5	OWP	0.50	ug/L	27-APR-18	*17
Methylene Chloride	<5.0	OWP	5.0	ug/L	27-APR-18	50
1,2-Dichloropropane	<0.50	OWP	0.50	ug/L	27-APR-18	5
cis-1,3-Dichloropropene	<0.30	OWP	0.30	ug/L	27-APR-18	
trans-1,3-Dichloropropene	<0.30	OWP	0.30	ug/L	27-APR-18	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-APR-18	0.5
Ethylbenzene	<0.50	OWP	0.50	ug/L	27-APR-18	2.4
n-Hexane	<0.50	OWP	0.50	ug/L	27-APR-18	520
Methyl Ethyl Ketone	<20	OWP	20	ug/L	27-APR-18	1800
Methyl Isobutyl Ketone	<20	OWP	20	ug/L	27-APR-18	640
MTBE	<2.0	OWP	2.0	ug/L	27-APR-18	15
Styrene	<0.50	OWP	0.50	ug/L	27-APR-18	5.4

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2085065-6 BH213S						
Sampled By: CLIENT on 24-APR-18 @ 11:30						
Matrix: WATER						#1
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	<0.50	OWP	0.50	ug/L	27-APR-18	1.1
1,1,2,2-Tetrachloroethane	<0.50	OWP	0.50	ug/L	27-APR-18	1
Tetrachloroethylene	13.3	OWP	0.50	ug/L	27-APR-18	17
Toluene	1.10	OWP	0.50	ug/L	27-APR-18	24
1,1,1-Trichloroethane	<0.50	OWP	0.50	ug/L	27-APR-18	200
1,1,2-Trichloroethane	<0.50	OWP	0.50	ug/L	27-APR-18	5
Trichloroethylene	18300	DLHC	100	ug/L	30-APR-18	*5
Trichlorofluoromethane	<5.0	OWP	5.0	ug/L	27-APR-18	150
Vinyl chloride	64.0	OWP	0.50	ug/L	27-APR-18	*1.7
o-Xylene	0.43	OWP	0.30	ug/L	27-APR-18	
m+p-Xylenes	<0.40	OWP	0.40	ug/L	27-APR-18	
Xylenes (Total)	<0.50		0.50	ug/L	30-APR-18	300
Surrogate: 4-Bromofluorobenzene	96.2		70-130	%	27-APR-18	
Surrogate: 1,4-Difluorobenzene	99.9		70-130	%	27-APR-18	
Hydrocarbons						
F1 (C6-C10)	<5000	DLHC	5000	ug/L	30-APR-18	**750
F1-BTEX	<5000		5000	ug/L	30-APR-18	**750
F2 (C10-C16)	<100		100	ug/L	27-APR-18	150
F3 (C16-C34)	<250		250	ug/L	27-APR-18	500
F4 (C34-C50)	<250		250	ug/L	27-APR-18	500
Total Hydrocarbons (C6-C50)	<5000		5000	ug/L	30-APR-18	
Chrom. to baseline at nC50	YES			No Unit	27-APR-18	
Surrogate: 2-Bromobenzotrifluoride	96.0		60-140	%	27-APR-18	
Surrogate: 3,4-Dichlorotoluene	81.0		60-140	%	30-APR-18	
L2085065-7 BH2110S						
Sampled By: CLIENT on 24-APR-18 @ 10:05						
Matrix: WATER						#1
Volatile Organic Compounds						
Benzene	<0.50		0.50	ug/L	27-APR-18	5
Ethylbenzene	<0.50		0.50	ug/L	27-APR-18	2.4
Toluene	<0.50		0.50	ug/L	27-APR-18	24
o-Xylene	<0.30		0.30	ug/L	27-APR-18	
m+p-Xylenes	<0.40		0.40	ug/L	27-APR-18	
Xylenes (Total)	<0.50		0.50	ug/L	03-MAY-18	300
Surrogate: 4-Bromofluorobenzene	79.4		70-130	%	27-APR-18	
Surrogate: 1,4-Difluorobenzene	96.7		70-130	%	27-APR-18	
Hydrocarbons						
F1 (C6-C10)	<25		25	ug/L	27-APR-18	750
F1-BTEX	<25		25	ug/L	03-MAY-18	750
F2 (C10-C16)	<100		100	ug/L	27-APR-18	150
F3 (C16-C34)	<250		250	ug/L	27-APR-18	500
F4 (C34-C50)	<250		250	ug/L	27-APR-18	500
Total Hydrocarbons (C6-C50)	<370		370	ug/L	03-MAY-18	
Chrom. to baseline at nC50	YES			No Unit	27-APR-18	
Surrogate: 2-Bromobenzotrifluoride	87.2		60-140	%	27-APR-18	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2085065-7	BH2110S									
Sampled By:	CLIENT on 24-APR-18 @ 10:05									
Matrix:	WATER						#1			
Hydrocarbons										
	Surrogate: 3,4-Dichlorotoluene	85.8		60-140	%	27-APR-18				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
OWP	Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
BTX-511-HS-WT	Water	BTEX by Headspace	SW846 8260 (511)

BTX is determined by analyzing by headspace-GC/MS.

F1-F4-511-CALC-WT	Water	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-L

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Water	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Water	F2-F4-O.Reg 153/04 (July 2011)	EPA 3511/CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, 2001.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

VOC-1,3-DCP-CALC-WT	Water	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Water	VOC by GCMS HS O.Reg 153/04 (July 2011)	SW846 8260

Liquid samples are analyzed by headspace GC/MSD.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

17-618816

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Reference Information

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2085065 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Water**							
Batch R4023346								
WG2757167-4 DUP		**WG2757167-3**						
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	27-APR-18
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	27-APR-18
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
WG2757167-1 LCS								
Benzene			103.9		%		70-130	26-APR-18
Ethylbenzene			85.1		%		70-130	26-APR-18
m+p-Xylenes			88.8		%		70-130	26-APR-18
o-Xylene			83.7		%		70-130	26-APR-18
Toluene			90.1		%		70-130	26-APR-18
WG2757167-2 MB								
Benzene			<0.50		ug/L		0.5	26-APR-18
Ethylbenzene			<0.50		ug/L		0.5	26-APR-18
m+p-Xylenes			<0.40		ug/L		0.4	26-APR-18
o-Xylene			<0.30		ug/L		0.3	26-APR-18
Toluene			<0.50		ug/L		0.5	26-APR-18
Surrogate: 1,4-Difluorobenzene			97.7		%		70-130	26-APR-18
Surrogate: 4-Bromofluorobenzene			81.3		%		70-130	26-APR-18
WG2757167-5 MS		**WG2757167-3**						
Benzene			104.5		%		50-140	27-APR-18
Ethylbenzene			82.0		%		50-140	27-APR-18
m+p-Xylenes			86.5		%		50-140	27-APR-18
o-Xylene			81.6		%		50-140	27-APR-18
Toluene			87.7		%		50-140	27-APR-18
Batch R4024072								
WG2758471-4 DUP		**WG2758471-3**						
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	27-APR-18
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	27-APR-18
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
WG2758471-1 LCS								
Benzene			98.5		%		70-130	26-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Water**							
Batch R4024072								
WG2758471-1 LCS								
Ethylbenzene			94.4		%		70-130	26-APR-18
m+p-Xylenes			100.9		%		70-130	26-APR-18
o-Xylene			95.8		%		70-130	26-APR-18
Toluene			96.3		%		70-130	26-APR-18
WG2758471-2 MB								
Benzene			<0.50		ug/L		0.5	27-APR-18
Ethylbenzene			<0.50		ug/L		0.5	27-APR-18
m+p-Xylenes			<0.40		ug/L		0.4	27-APR-18
o-Xylene			<0.30		ug/L		0.3	27-APR-18
Toluene			<0.50		ug/L		0.5	27-APR-18
Surrogate: 1,4-Difluorobenzene			98.1		%		70-130	27-APR-18
Surrogate: 4-Bromofluorobenzene			95.6		%		70-130	27-APR-18
WG2758471-5 MS		**WG2758471-3**						
Benzene			98.2		%		50-140	27-APR-18
Ethylbenzene			93.3		%		50-140	27-APR-18
m+p-Xylenes			100.2		%		50-140	27-APR-18
o-Xylene			94.7		%		50-140	27-APR-18
Toluene			95.5		%		50-140	27-APR-18
F1-HS-511-WT	**Water**							
Batch R4023346								
WG2757167-4 DUP		**WG2757167-3**						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	27-APR-18
WG2757167-1 LCS								
F1 (C6-C10)			95.9		%		80-120	26-APR-18
WG2757167-2 MB								
F1 (C6-C10)			<25		ug/L		25	26-APR-18
Surrogate: 3,4-Dichlorotoluene			100.5		%		60-140	26-APR-18
WG2757167-5 MS		**WG2757167-3**						
F1 (C6-C10)			87.1		%		60-140	27-APR-18
Batch R4024072								
WG2758471-4 DUP		**WG2758471-3**						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	27-APR-18
WG2758471-1 LCS								
F1 (C6-C10)			101.4		%		80-120	26-APR-18
WG2758471-2 MB								

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Water**							
Batch R4024072								
WG2758471-2 MB								
F1 (C6-C10)			<25		ug/L		25	27-APR-18
Surrogate: 3,4-Dichlorotoluene			103.7		%		60-140	27-APR-18
WG2758471-5 MS		**WG2758471-3**						
F1 (C6-C10)			90.6		%		60-140	27-APR-18
Batch R4025439								
WG2756990-9 DUP		**WG2756990-8**						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	30-APR-18
WG2756990-6 LCS								
F1 (C6-C10)			95.0		%		80-120	30-APR-18
WG2756990-7 MB								
F1 (C6-C10)			<25		ug/L		25	30-APR-18
Surrogate: 3,4-Dichlorotoluene			85.4		%		60-140	30-APR-18
WG2756990-10 MS		**WG2756990-8**						
F1 (C6-C10)			89.9		%		60-140	30-APR-18
F2-F4-511-WT	**Water**							
Batch R4026244								
WG2759742-2 LCS								
F2 (C10-C16)			113.8		%		70-130	27-APR-18
F3 (C16-C34)			124.7		%		70-130	27-APR-18
F4 (C34-C50)			120.6		%		70-130	27-APR-18
WG2759742-3 LCSD		**WG2759742-2**						
F2 (C10-C16)		113.8	127.6		%	12	50	27-APR-18
F3 (C16-C34)		124.7	131.2		%	5.1	50	27-APR-18
F4 (C34-C50)		120.6	121.1		%	0.4	50	27-APR-18
WG2759742-1 MB								
F2 (C10-C16)			<100		ug/L		100	27-APR-18
F3 (C16-C34)			<250		ug/L		250	27-APR-18
F4 (C34-C50)			<250		ug/L		250	27-APR-18
Surrogate: 2-Bromobenzotrifluoride			100.9		%		60-140	27-APR-18
VOC-511-HS-WT	**Water**							
Batch R4023346								
WG2757167-4 DUP		**WG2757167-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R4023346								
WG2757167-4 DUP		**WG2757167-3**						
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	27-APR-18
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	27-APR-18
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	27-APR-18
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	27-APR-18
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	27-APR-18
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	27-APR-18
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	27-APR-18
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	27-APR-18
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	27-APR-18
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	27-APR-18
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	27-APR-18
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	27-APR-18
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	27-APR-18
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	27-APR-18
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	27-APR-18
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
trans-1,2-Dichloroethylene		<0.50	<0.50		ug/L			27-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R4023346								
WG2757167-4 DUP		**WG2757167-3**						
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	27-APR-18
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	27-APR-18
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
WG2757167-1 LCS								
1,1,1,2-Tetrachloroethane			94.7		%		70-130	26-APR-18
1,1,2,2-Tetrachloroethane			90.0		%		70-130	26-APR-18
1,1,1-Trichloroethane			102.2		%		70-130	26-APR-18
1,1,2-Trichloroethane			95.3		%		70-130	26-APR-18
1,1-Dichloroethane			101.4		%		70-130	26-APR-18
1,1-Dichloroethylene			95.3		%		70-130	26-APR-18
1,2-Dibromoethane			90.4		%		70-130	26-APR-18
1,2-Dichlorobenzene			95.5		%		70-130	26-APR-18
1,2-Dichloroethane			100.0		%		70-130	26-APR-18
1,2-Dichloropropane			100.4		%		70-130	26-APR-18
1,3-Dichlorobenzene			94.9		%		70-130	26-APR-18
1,4-Dichlorobenzene			97.0		%		70-130	26-APR-18
Acetone			102.3		%		60-140	26-APR-18
Benzene			103.9		%		70-130	26-APR-18
Bromodichloromethane			98.4		%		70-130	26-APR-18
Bromoform			90.8		%		70-130	26-APR-18
Bromomethane			101.7		%		60-140	26-APR-18
Carbon tetrachloride			102.7		%		70-130	26-APR-18
Chlorobenzene			95.7		%		70-130	26-APR-18
Chloroform			103.9		%		70-130	26-APR-18
cis-1,2-Dichloroethylene			100.3		%		70-130	26-APR-18
cis-1,3-Dichloropropene			95.0		%		70-130	26-APR-18
Dibromochloromethane			97.3		%		70-130	26-APR-18
Dichlorodifluoromethane			94.1		%		50-140	26-APR-18
Ethylbenzene			85.1		%		70-130	26-APR-18
n-Hexane			115.0		%		70-130	26-APR-18
m+p-Xylenes			88.8		%		70-130	26-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R4023346								
WG2757167-1 LCS								
Methyl Ethyl Ketone			101.6		%		60-140	26-APR-18
Methyl Isobutyl Ketone			81.1		%		60-140	26-APR-18
Methylene Chloride			114.1		%		70-130	26-APR-18
MTBE			104.9		%		70-130	26-APR-18
o-Xylene			83.7		%		70-130	26-APR-18
Styrene			88.5		%		70-130	26-APR-18
Tetrachloroethylene			95.9		%		70-130	26-APR-18
Toluene			90.1		%		70-130	26-APR-18
trans-1,2-Dichloroethylene			105.8		%		70-130	26-APR-18
trans-1,3-Dichloropropene			83.5		%		70-130	26-APR-18
Trichloroethylene			104.4		%		70-130	26-APR-18
Trichlorofluoromethane			106.3		%		60-140	26-APR-18
Vinyl chloride			98.3		%		60-140	26-APR-18
WG2757167-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	26-APR-18
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	26-APR-18
1,1,1-Trichloroethane			<0.50		ug/L		0.5	26-APR-18
1,1,2-Trichloroethane			<0.50		ug/L		0.5	26-APR-18
1,1-Dichloroethane			<0.50		ug/L		0.5	26-APR-18
1,1-Dichloroethylene			<0.50		ug/L		0.5	26-APR-18
1,2-Dibromoethane			<0.20		ug/L		0.2	26-APR-18
1,2-Dichlorobenzene			<0.50		ug/L		0.5	26-APR-18
1,2-Dichloroethane			<0.50		ug/L		0.5	26-APR-18
1,2-Dichloropropane			<0.50		ug/L		0.5	26-APR-18
1,3-Dichlorobenzene			<0.50		ug/L		0.5	26-APR-18
1,4-Dichlorobenzene			<0.50		ug/L		0.5	26-APR-18
Acetone			<30		ug/L		30	26-APR-18
Benzene			<0.50		ug/L		0.5	26-APR-18
Bromodichloromethane			<2.0		ug/L		2	26-APR-18
Bromoform			<5.0		ug/L		5	26-APR-18
Bromomethane			<0.50		ug/L		0.5	26-APR-18
Carbon tetrachloride			<0.20		ug/L		0.2	26-APR-18
Chlorobenzene			<0.50		ug/L		0.5	26-APR-18
Chloroform			<1.0		ug/L		1	26-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R4023346								
WG2757167-2 MB								
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	26-APR-18
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	26-APR-18
Dibromochloromethane			<2.0		ug/L		2	26-APR-18
Dichlorodifluoromethane			<2.0		ug/L		2	26-APR-18
Ethylbenzene			<0.50		ug/L		0.5	26-APR-18
n-Hexane			<0.50		ug/L		0.5	26-APR-18
m+p-Xylenes			<0.40		ug/L		0.4	26-APR-18
Methyl Ethyl Ketone			<20		ug/L		20	26-APR-18
Methyl Isobutyl Ketone			<20		ug/L		20	26-APR-18
Methylene Chloride			<5.0		ug/L		5	26-APR-18
MTBE			<2.0		ug/L		2	26-APR-18
o-Xylene			<0.30		ug/L		0.3	26-APR-18
Styrene			<0.50		ug/L		0.5	26-APR-18
Tetrachloroethylene			<0.50		ug/L		0.5	26-APR-18
Toluene			<0.50		ug/L		0.5	26-APR-18
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	26-APR-18
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	26-APR-18
Trichloroethylene			<0.50		ug/L		0.5	26-APR-18
Trichlorofluoromethane			<5.0		ug/L		5	26-APR-18
Vinyl chloride			<0.50		ug/L		0.5	26-APR-18
Surrogate: 1,4-Difluorobenzene			97.7		%		70-130	26-APR-18
Surrogate: 4-Bromofluorobenzene			81.3		%		70-130	26-APR-18
WG2757167-5 MS		**WG2757167-3**						
1,1,1,2-Tetrachloroethane			94.7		%		50-140	27-APR-18
1,1,2,2-Tetrachloroethane			88.6		%		50-140	27-APR-18
1,1,1-Trichloroethane			104.4		%		50-140	27-APR-18
1,1,2-Trichloroethane			94.2		%		50-140	27-APR-18
1,1-Dichloroethane			102.9		%		50-140	27-APR-18
1,1-Dichloroethylene			94.0		%		50-140	27-APR-18
1,2-Dibromoethane			88.9		%		50-140	27-APR-18
1,2-Dichlorobenzene			95.9		%		50-140	27-APR-18
1,2-Dichloroethane			101.7		%		50-140	27-APR-18
1,2-Dichloropropane			101.9		%		50-140	27-APR-18
1,3-Dichlorobenzene			94.8		%		50-140	27-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R4023346								
WG2757167-5 MS		**WG2757167-3**						
1,4-Dichlorobenzene			96.4		%		50-140	27-APR-18
Acetone			104.2		%		50-140	27-APR-18
Benzene			104.5		%		50-140	27-APR-18
Bromodichloromethane			99.9		%		50-140	27-APR-18
Bromoform			90.3		%		50-140	27-APR-18
Bromomethane			97.1		%		50-140	27-APR-18
Carbon tetrachloride			104.6		%		50-140	27-APR-18
Chlorobenzene			94.9		%		50-140	27-APR-18
Chloroform			106.0		%		50-140	27-APR-18
cis-1,2-Dichloroethylene			100.7		%		50-140	27-APR-18
cis-1,3-Dichloropropene			94.6		%		50-140	27-APR-18
Dibromochloromethane			96.8		%		50-140	27-APR-18
Dichlorodifluoromethane			79.5		%		50-140	27-APR-18
Ethylbenzene			82.0		%		50-140	27-APR-18
n-Hexane			111.3		%		50-140	27-APR-18
m+p-Xylenes			86.5		%		50-140	27-APR-18
Methyl Ethyl Ketone			101.7		%		50-140	27-APR-18
Methyl Isobutyl Ketone			79.1		%		50-140	27-APR-18
Methylene Chloride			115.5		%		50-140	27-APR-18
MTBE			104.3		%		50-140	27-APR-18
o-Xylene			81.6		%		50-140	27-APR-18
Styrene			85.3		%		50-140	27-APR-18
Tetrachloroethylene			93.5		%		50-140	27-APR-18
Toluene			87.7		%		50-140	27-APR-18
trans-1,2-Dichloroethylene			104.7		%		50-140	27-APR-18
trans-1,3-Dichloropropene			80.4		%		50-140	27-APR-18
Trichloroethylene			104.2		%		50-140	27-APR-18
Trichlorofluoromethane			103.5		%		50-140	27-APR-18
Vinyl chloride			90.4		%		50-140	27-APR-18
Batch R4024024								
WG2755015-4 DUP		**WG2755015-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,1,1-Trichloroethane		<0.50	<0.50		ug/L			27-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R4024024								
WG2755015-4 DUP		**WG2755015-3**						
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	27-APR-18
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	27-APR-18
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	27-APR-18
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	27-APR-18
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	27-APR-18
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	27-APR-18
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	27-APR-18
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	27-APR-18
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	27-APR-18
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	27-APR-18
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	27-APR-18
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	27-APR-18
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	27-APR-18
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	27-APR-18
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	27-APR-18
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
trans-1,2-Dichloroethylene		<0.50	<0.50		ug/L			27-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R4024024								
WG2755015-4 DUP		**WG2755015-3**						
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	27-APR-18
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	27-APR-18
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-APR-18
WG2755015-1 LCS								
1,1,1,2-Tetrachloroethane			103.0		%		70-130	27-APR-18
1,1,2,2-Tetrachloroethane			98.9		%		70-130	27-APR-18
1,1,1-Trichloroethane			96.4		%		70-130	27-APR-18
1,1,2-Trichloroethane			103.7		%		70-130	27-APR-18
1,1-Dichloroethane			91.3		%		70-130	27-APR-18
1,1-Dichloroethylene			92.7		%		70-130	27-APR-18
1,2-Dibromoethane			103.0		%		70-130	27-APR-18
1,2-Dichlorobenzene			95.0		%		70-130	27-APR-18
1,2-Dichloroethane			101.3		%		70-130	27-APR-18
1,2-Dichloropropane			101.3		%		70-130	27-APR-18
1,3-Dichlorobenzene			91.1		%		70-130	27-APR-18
1,4-Dichlorobenzene			93.1		%		70-130	27-APR-18
Acetone			91.0		%		60-140	27-APR-18
Benzene			98.1		%		70-130	27-APR-18
Bromodichloromethane			96.5		%		70-130	27-APR-18
Bromoform			99.4		%		70-130	27-APR-18
Bromomethane			97.2		%		60-140	27-APR-18
Carbon tetrachloride			91.9		%		70-130	27-APR-18
Chlorobenzene			97.9		%		70-130	27-APR-18
Chloroform			98.2		%		70-130	27-APR-18
cis-1,3-Dichloropropene			97.2		%		70-130	27-APR-18
Dibromochloromethane			107.2		%		70-130	27-APR-18
Dichlorodifluoromethane			95.6		%		50-140	27-APR-18
Ethylbenzene			100.1		%		70-130	27-APR-18
n-Hexane			104.6		%		70-130	27-APR-18
m+p-Xylenes			100.7		%		70-130	27-APR-18
Methyl Ethyl Ketone			91.3		%		60-140	27-APR-18
Methyl Isobutyl Ketone			87.9		%		60-140	27-APR-18
Methylene Chloride			101.6				70-130	

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R4024024								
WG2755015-1 LCS								
Methylene Chloride			101.6		%		70-130	27-APR-18
MTBE			100.2		%		70-130	27-APR-18
o-Xylene			100.6		%		70-130	27-APR-18
Styrene			100.7		%		70-130	27-APR-18
Tetrachloroethylene			91.9		%		70-130	27-APR-18
Toluene			94.2		%		70-130	27-APR-18
trans-1,2-Dichloroethylene			96.1		%		70-130	27-APR-18
trans-1,3-Dichloropropene			98.5		%		70-130	27-APR-18
Trichlorofluoromethane			99.8		%		60-140	27-APR-18
Vinyl chloride			95.7		%		60-140	27-APR-18
WG2755015-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	27-APR-18
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	27-APR-18
1,1,1-Trichloroethane			<0.50		ug/L		0.5	27-APR-18
1,1,2-Trichloroethane			<0.50		ug/L		0.5	27-APR-18
1,1-Dichloroethane			<0.50		ug/L		0.5	27-APR-18
1,1-Dichloroethylene			<0.50		ug/L		0.5	27-APR-18
1,2-Dibromoethane			<0.20		ug/L		0.2	27-APR-18
1,2-Dichlorobenzene			<0.50		ug/L		0.5	27-APR-18
1,2-Dichloroethane			<0.50		ug/L		0.5	27-APR-18
1,2-Dichloropropane			<0.50		ug/L		0.5	27-APR-18
1,3-Dichlorobenzene			<0.50		ug/L		0.5	27-APR-18
1,4-Dichlorobenzene			<0.50		ug/L		0.5	27-APR-18
Acetone			<30		ug/L		30	27-APR-18
Benzene			<0.50		ug/L		0.5	27-APR-18
Bromodichloromethane			<2.0		ug/L		2	27-APR-18
Bromoform			<5.0		ug/L		5	27-APR-18
Bromomethane			<0.50		ug/L		0.5	27-APR-18
Carbon tetrachloride			<0.20		ug/L		0.2	27-APR-18
Chlorobenzene			<0.50		ug/L		0.5	27-APR-18
Chloroform			<1.0		ug/L		1	27-APR-18
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	27-APR-18
Dibromochloromethane			<2.0		ug/L		2	27-APR-18
Dichlorodifluoromethane			<2.0		ug/L		2	27-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch **R4024024**								
WG2755015-2 **MB**								
Ethylbenzene			<0.50		ug/L		0.5	27-APR-18
n-Hexane			<0.50		ug/L		0.5	27-APR-18
m+p-Xylenes			<0.40		ug/L		0.4	27-APR-18
Methyl Ethyl Ketone			<20		ug/L		20	27-APR-18
Methyl Isobutyl Ketone			<20		ug/L		20	27-APR-18
Methylene Chloride			<5.0		ug/L		5	27-APR-18
MTBE			<2.0		ug/L		2	27-APR-18
o-Xylene			<0.30		ug/L		0.3	27-APR-18
Styrene			<0.50		ug/L		0.5	27-APR-18
Tetrachloroethylene			<0.50		ug/L		0.5	27-APR-18
Toluene			<0.50		ug/L		0.5	27-APR-18
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	27-APR-18
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	27-APR-18
Trichlorofluoromethane			<5.0		ug/L		5	27-APR-18
Vinyl chloride			<0.50		ug/L		0.5	27-APR-18
Surrogate: 1,4-Difluorobenzene			99.0		%		70-130	27-APR-18
Surrogate: 4-Bromofluorobenzene			91.3		%		70-130	27-APR-18
WG2755015-5 **MS**		**WG2755015-3**						
1,1,1,2-Tetrachloroethane			103.8		%		50-140	27-APR-18
1,1,2,2-Tetrachloroethane			110.6		%		50-140	27-APR-18
1,1,1-Trichloroethane			93.4		%		50-140	27-APR-18
1,1,2-Trichloroethane			110.2		%		50-140	27-APR-18
1,1-Dichloroethane			91.2		%		50-140	27-APR-18
1,1-Dichloroethylene			89.0		%		50-140	27-APR-18
1,2-Dibromoethane			109.4		%		50-140	27-APR-18
1,2-Dichlorobenzene			95.3		%		50-140	27-APR-18
1,2-Dichloroethane			106.3		%		50-140	27-APR-18
1,2-Dichloropropane			103.4		%		50-140	27-APR-18
1,3-Dichlorobenzene			89.5		%		50-140	27-APR-18
1,4-Dichlorobenzene			92.2		%		50-140	27-APR-18
Acetone			99.7		%		50-140	27-APR-18
Benzene			98.1		%		50-140	27-APR-18
Bromodichloromethane			99.2		%		50-140	27-APR-18
Bromoform			106.3		%		50-140	27-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R4024024								
WG2755015-5 MS		**WG2755015-3**						
Bromomethane			96.4		%		50-140	27-APR-18
Carbon tetrachloride			88.9		%		50-140	27-APR-18
Chlorobenzene			98.3		%		50-140	27-APR-18
Chloroform			98.7		%		50-140	27-APR-18
cis-1,3-Dichloropropene			103.8		%		50-140	27-APR-18
Dibromochloromethane			111.4		%		50-140	27-APR-18
Dichlorodifluoromethane			82.8		%		50-140	27-APR-18
Ethylbenzene			97.3		%		50-140	27-APR-18
n-Hexane			98.5		%		50-140	27-APR-18
m+p-Xylenes			98.6		%		50-140	27-APR-18
Methyl Ethyl Ketone			102.7		%		50-140	27-APR-18
Methyl Isobutyl Ketone			98.7		%		50-140	27-APR-18
Methylene Chloride			103.4		%		50-140	27-APR-18
MTBE			100.3		%		50-140	27-APR-18
o-Xylene			99.1		%		50-140	27-APR-18
Styrene			101.0		%		50-140	27-APR-18
Tetrachloroethylene			89.0		%		50-140	27-APR-18
Toluene			92.3		%		50-140	27-APR-18
trans-1,2-Dichloroethylene			94.9		%		50-140	27-APR-18
trans-1,3-Dichloropropene			106.1		%		50-140	27-APR-18
Trichlorofluoromethane			94.4		%		50-140	27-APR-18
Vinyl chloride			89.3		%		50-140	27-APR-18
Batch R4025439								
WG2756990-9 DUP		**WG2756990-8**						
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-APR-18
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-APR-18
WG2756990-6 LCS								
cis-1,2-Dichloroethylene			101.0		%		70-130	30-APR-18
Trichloroethylene			101.0		%		70-130	30-APR-18
WG2756990-7 MB								
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	30-APR-18
Trichloroethylene			<0.50		ug/L		0.5	30-APR-18
WG2756990-10 MS		**WG2756990-8**						
cis-1,2-Dichloroethylene			102.5		%		50-140	30-APR-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R4025439								
WG2756990-10 MS		**WG2756990-8**						
Trichloroethylene			100.1		%		50-140	30-APR-18

Quality Control Report

Workorder: L2085065 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

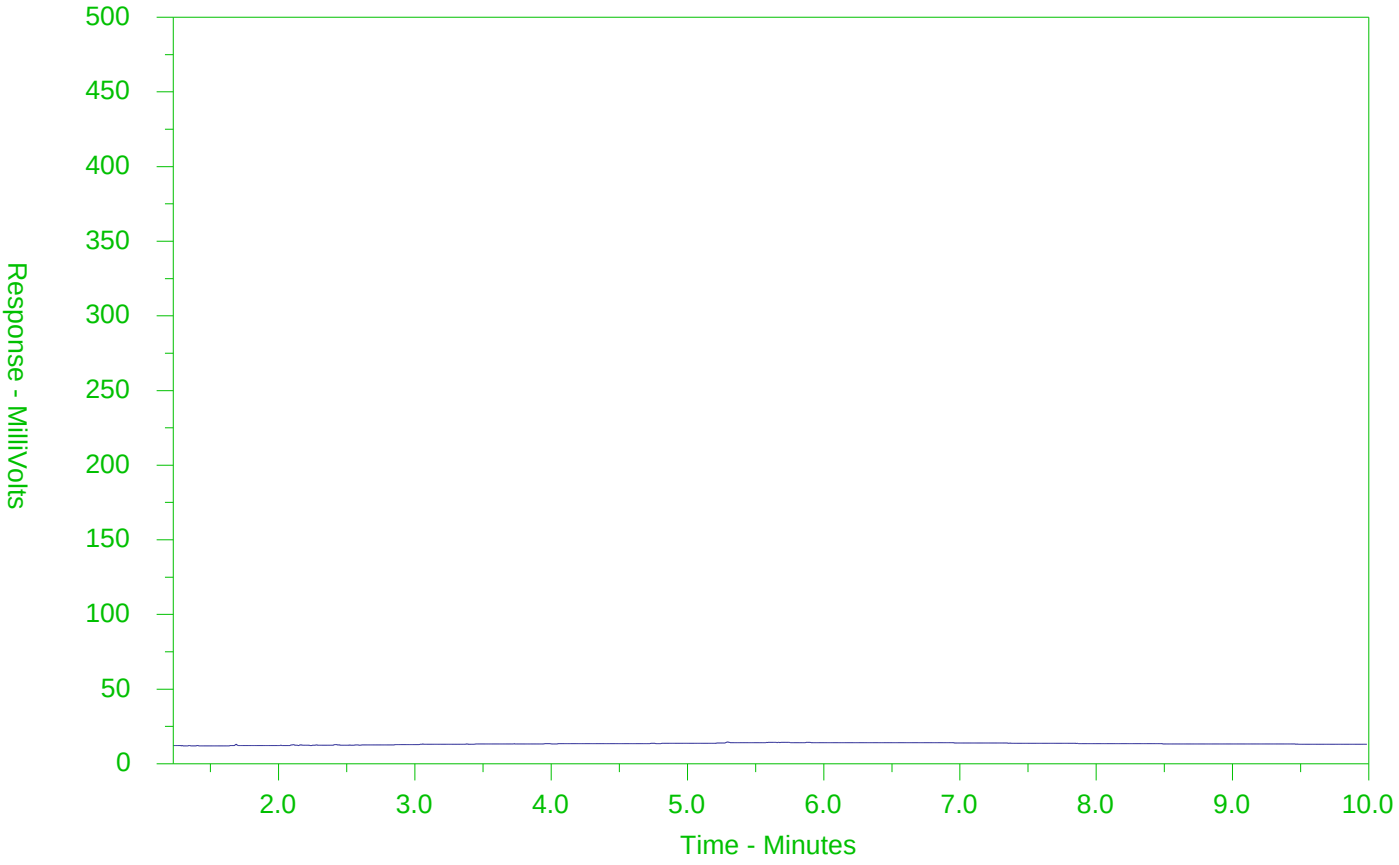
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2085065-2
Client Sample ID: BH211S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

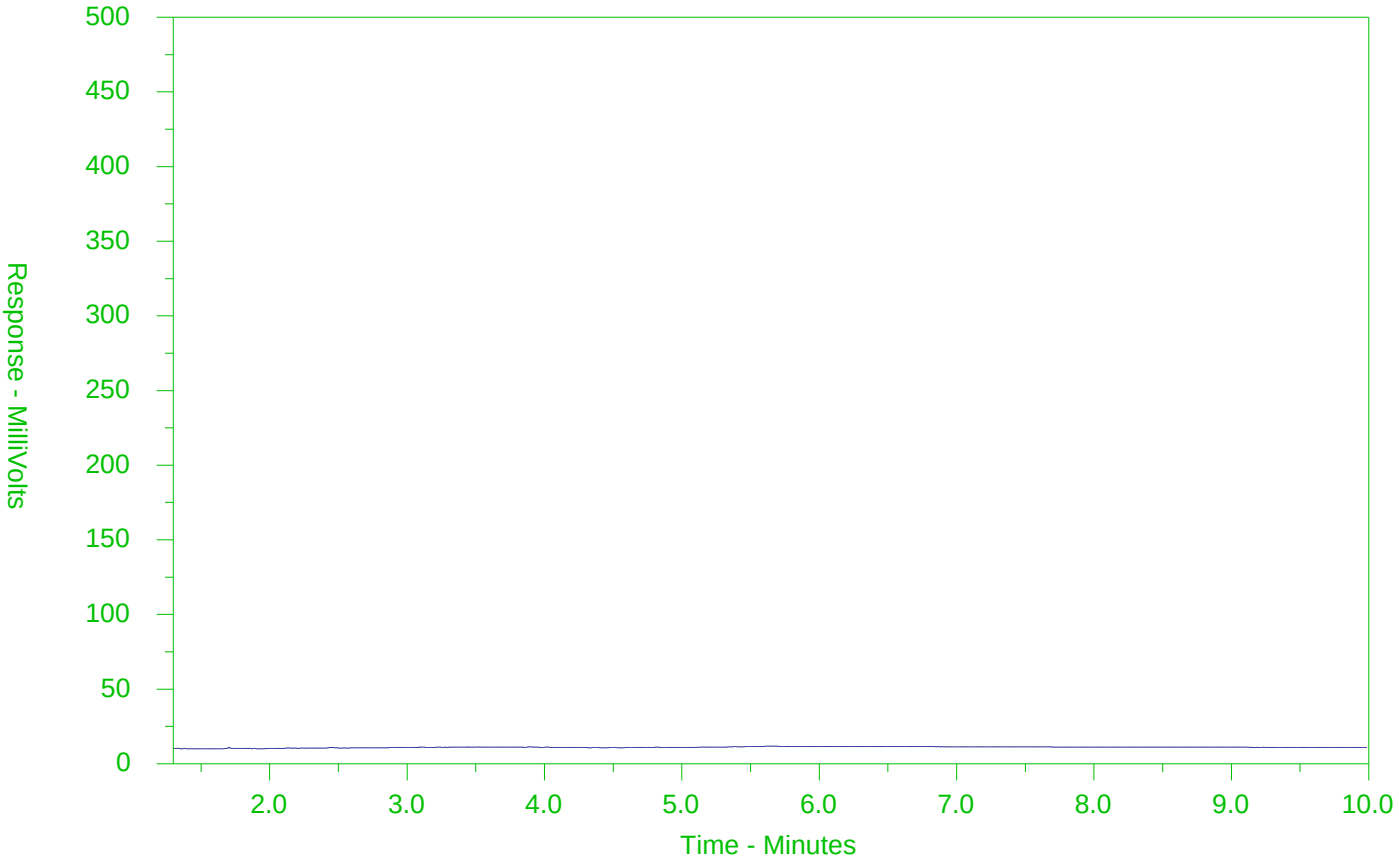
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2085065-3
Client Sample ID: BH3S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

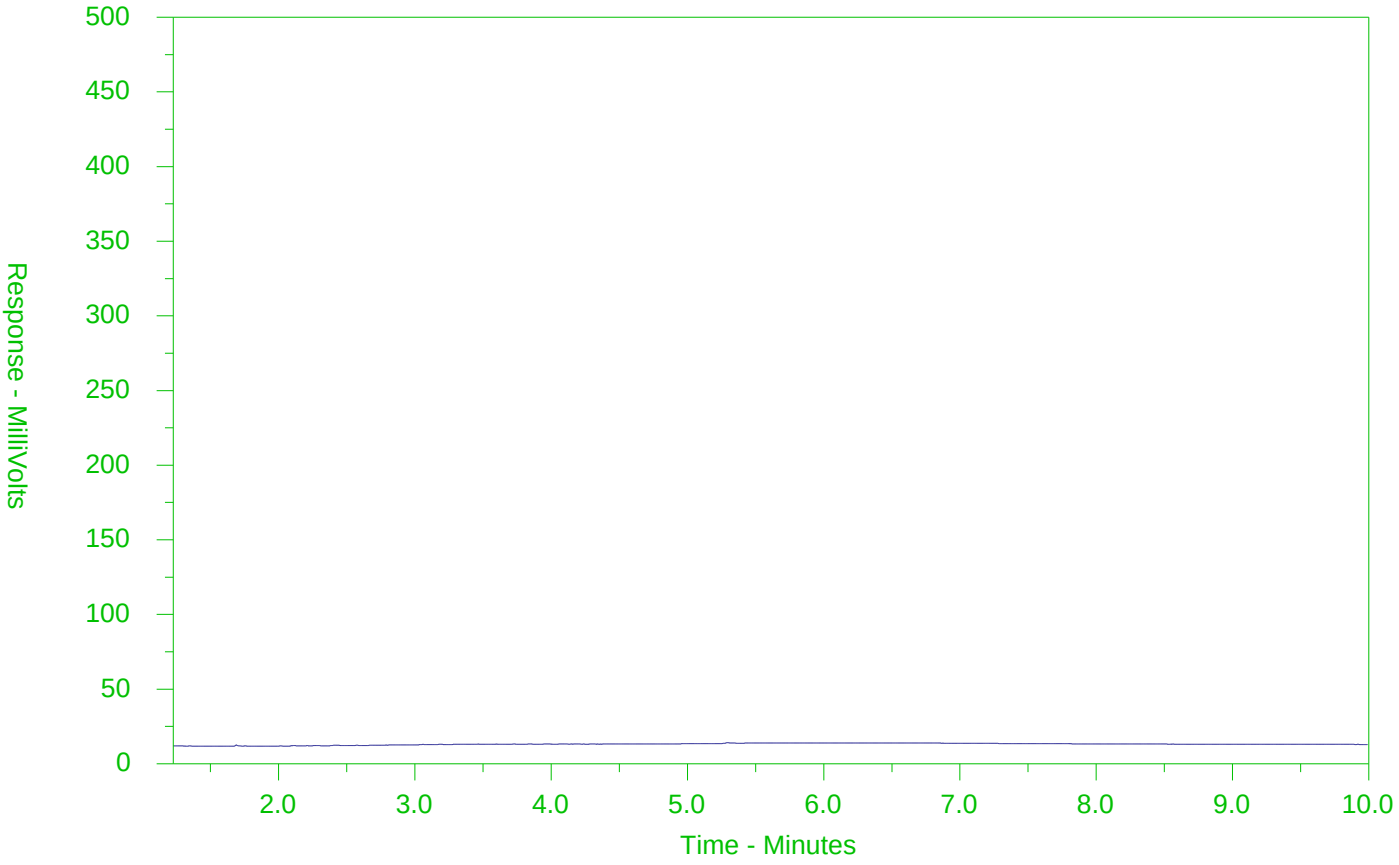
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2085065-5
Client Sample ID: BH107S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

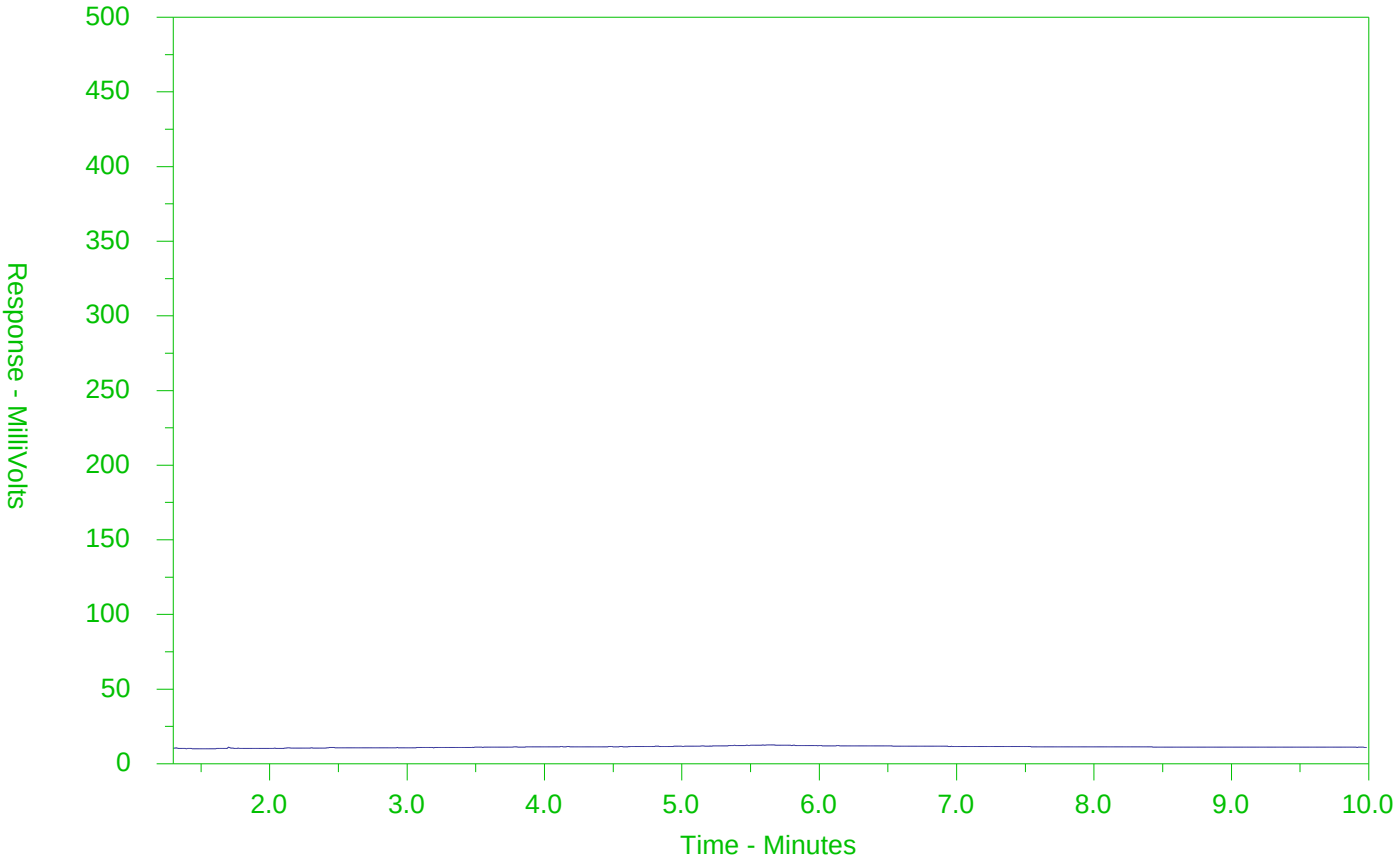
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2085065-6
Client Sample ID: BH213S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

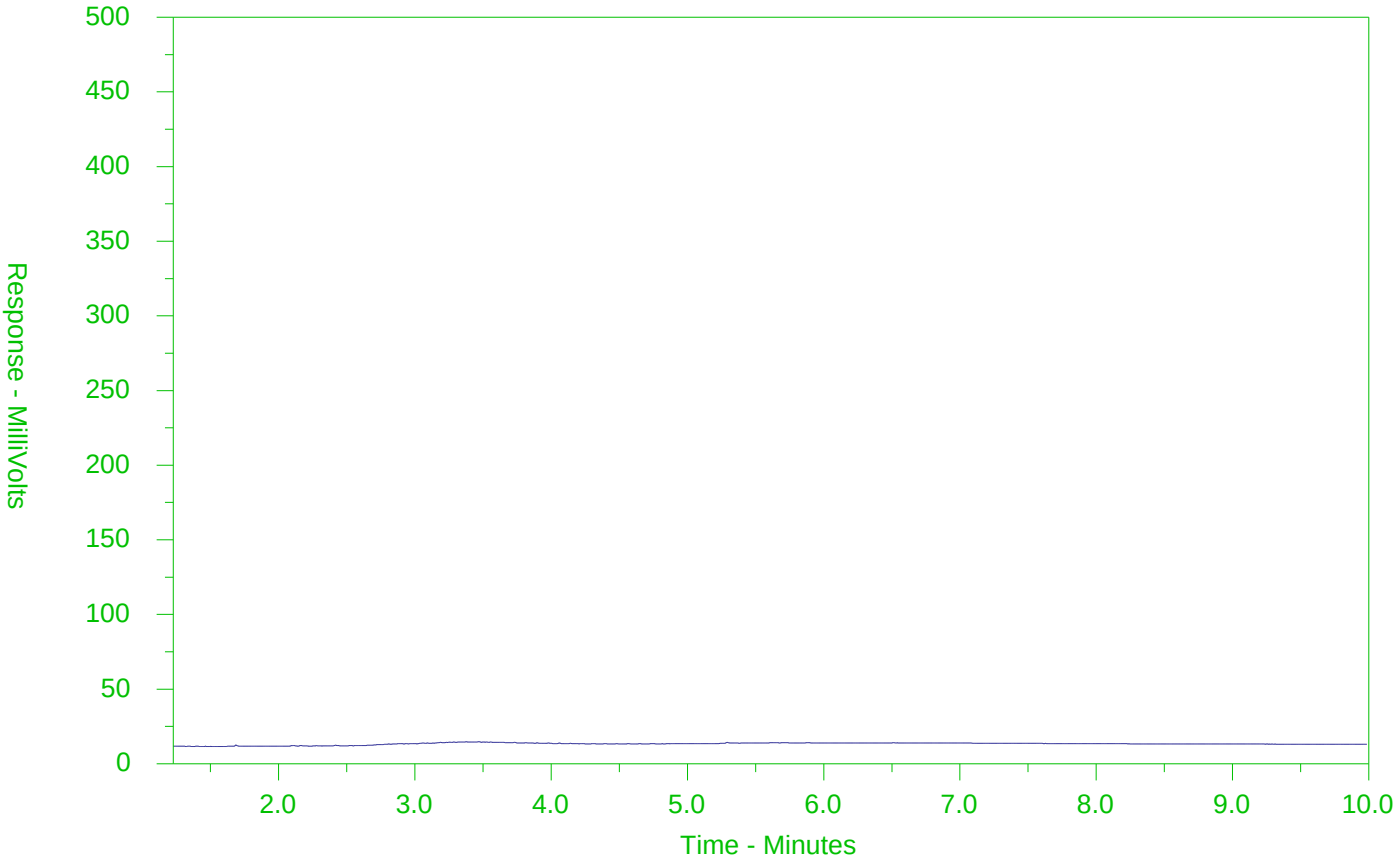
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2085065-7
Client Sample ID: BH2110S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2085065-COFC

COC Number: 17 - 618816

Page 1 of 1

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants INC
Contact:	Spencer Buck
Phone:	905-639-2532
	Company address below will appear on the final report
Street:	1016 Sutton Drive Unit A
City/Province:	Burlington, ON
Postal Code:	L7L 6B8

Report Format / Distribution	
Select Report Format:	[X] PDF [X] EXCEL [X] EDD (DIGITAL)
Quality Control (QC) Report with Report	[X] YES [ ] NO
[X] Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	[X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax	sbuck@mte85.com
Email 2	
Email 3	

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)			
Regular [R]	[X] Standard TAT if received by 3 pm - business days - no surcharges apply		
PRIORITY (Business Days)	4 day [P4-20%] [ ]	EMERGENCY	1 Business day [E-100%] [ ]
	3 day [P3-25%] [ ]		Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] [ ]
	2 day [P2-50%] [ ]		
Date and Time Required for all E&P TATs:		dd-mmm-yy hh:mm	
For tests that can not be performed according to the service level selected, you will be contacted.			

Invoice To		
	Same as Report To	[X] YES [ ] NO
	Copy of Invoice with Report	[ ] YES [ ] NO
Company:		
Contact:		

Invoice Distribution	
Select Invoice Distribution:	[X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax	sbuck@mte85.com
Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	38934-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):	L2085065	ALS Contact:	Sampler: JSR

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	VOC	PHC F1 + F4	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
1	TRIP BLANK	24-Apr-18	12:00	GW	X				2
2	BH21S	"	10:00	GW	X	X			5
3	BH3S	"	11:00	GW		X			4
4	BH21RS	"	10:30	GW	X				3
5	BH107S	"	9:30	GW		X			4
6	BH21BS	"	11:30	GW	X	X			5
7	BH2110S	"	10:05	GW		X			4

26A

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	Table 3, residential, medium/fine
Are samples for human consumption/ use? [ ] YES [X] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	[ ]	SIF Observations	Yes [ ]	No	[ ]
Ice Packs	[ ]	Ice Cubes [X]	Custody seal intact	Yes [ ]	No [ ]
Cooling Initiated	[X]				

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
9.6°C				8.6			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
Jessica Rusiello	04124118	15:40	Claire Kocharakkal	24-Apr-2018	16:12	VL	Apr 25/18	7:45

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

MTE CONSULTANTS INC.
ATTN: Spencer Buck
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8

Date Received: 09-MAY-18
Report Date: 15-MAY-18 09:50 (MT)
Version: FINAL

Client Phone: 905-639-2552

Certificate of Analysis

Lab Work Order #: L2092060

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 17-619027
Legal Site Desc:

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2092060-1	BH3S									
Sampled By:	S. BUCK on 09-MAY-18 @ 11:00									
Matrix:	WATER						#1			
Hydrocarbons										
	F2 (C10-C16)	<100		100	ug/L	14-MAY-18	150			
	F3 (C16-C34)	<250		250	ug/L	14-MAY-18	500			
	F4 (C34-C50)	<250		250	ug/L	14-MAY-18	500			
	Chrom. to baseline at nC50	YES			No Unit	14-MAY-18				
	Surrogate: 2-Bromobenzotrifluoride	81.7		60-140	%	14-MAY-18				
L2092060-2	BH30S									
Sampled By:	S. BUCK on 09-MAY-18 @ 11:15									
Matrix:	WATER						#1			
Hydrocarbons										
	F2 (C10-C16)	<100		100	ug/L	14-MAY-18	150			
	F3 (C16-C34)	<250		250	ug/L	14-MAY-18	500			
	F4 (C34-C50)	<250		250	ug/L	14-MAY-18	500			
	Chrom. to baseline at nC50	YES			No Unit	14-MAY-18				
	Surrogate: 2-Bromobenzotrifluoride	78.4		60-140	%	14-MAY-18				
L2092060-4	BH107S									
Sampled By:	S. BUCK on 09-MAY-18 @ 12:00									
Matrix:	WATER						#1			
Dissolved Metals										
	Dissolved Mercury Filtration Location	FIELD			No Unit	11-MAY-18				
	Dissolved Metals Filtration Location	FIELD			No Unit	10-MAY-18				
	Antimony (Sb)-Dissolved	<0.10		0.10	ug/L	10-MAY-18	6			
	Arsenic (As)-Dissolved	1.91		0.10	ug/L	10-MAY-18	25			
	Barium (Ba)-Dissolved	32.8		0.10	ug/L	10-MAY-18	1000			
	Beryllium (Be)-Dissolved	<0.10		0.10	ug/L	10-MAY-18	4			
	Boron (B)-Dissolved	280		10	ug/L	10-MAY-18	5000			
	Cadmium (Cd)-Dissolved	0.011		0.010	ug/L	10-MAY-18	2.7			
	Chromium (Cr)-Dissolved	<0.50		0.50	ug/L	10-MAY-18	50			
	Cobalt (Co)-Dissolved	0.48		0.10	ug/L	10-MAY-18	3.8			
	Copper (Cu)-Dissolved	0.57		0.20	ug/L	10-MAY-18	87			
	Lead (Pb)-Dissolved	<0.050		0.050	ug/L	10-MAY-18	10			
	Mercury (Hg)-Dissolved	<0.010		0.010	ug/L	14-MAY-18	1			
	Molybdenum (Mo)-Dissolved	2.37		0.050	ug/L	10-MAY-18	70			
	Nickel (Ni)-Dissolved	0.88		0.50	ug/L	10-MAY-18	100			
	Selenium (Se)-Dissolved	0.083		0.050	ug/L	10-MAY-18	10			
	Silver (Ag)-Dissolved	<0.050		0.050	ug/L	10-MAY-18	1.5			
	Sodium (Na)-Dissolved	130000	DLHC	500	ug/L	10-MAY-18	490000			
	Thallium (Tl)-Dissolved	0.021		0.010	ug/L	10-MAY-18	2			
	Uranium (U)-Dissolved	6.91		0.010	ug/L	10-MAY-18	20			
	Vanadium (V)-Dissolved	<0.50		0.50	ug/L	10-MAY-18	6.2			
	Zinc (Zn)-Dissolved	<1.0		1.0	ug/L	10-MAY-18	1100			
Speciated Metals										
	Chromium, Hexavalent	<1.0		1.0	ug/L	14-MAY-18	25			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2092060-5 BH213S						
Sampled By: S. BUCK on 09-MAY-18 @ 09:30						
Matrix: WATER						#1
Hydrocarbons						
F2 (C10-C16)	<100		100	ug/L	14-MAY-18	150
F3 (C16-C34)	<250		250	ug/L	14-MAY-18	500
F4 (C34-C50)	<250		250	ug/L	14-MAY-18	500
Chrom. to baseline at nC50	YES			No Unit	14-MAY-18	
Surrogate: 2-Bromobenzotrifluoride	79.6		60-140	%	14-MAY-18	
L2092060-6 BH216D						
Sampled By: S. BUCK on 09-MAY-18 @ 09:00						
Matrix: WATER						#1
Volatile Organic Compounds						
Acetone	<30	OWP	30	ug/L	14-MAY-18	2700
Benzene	<0.50	OWP	0.50	ug/L	14-MAY-18	5
Bromodichloromethane	<2.0	OWP	2.0	ug/L	14-MAY-18	16
Bromoform	<5.0	OWP	5.0	ug/L	14-MAY-18	25
Bromomethane	<0.50	OWP	0.50	ug/L	14-MAY-18	0.89
Carbon tetrachloride	<0.20	OWP	0.20	ug/L	14-MAY-18	5
Chlorobenzene	<0.50	OWP	0.50	ug/L	14-MAY-18	30
Dibromochloromethane	<2.0	OWP	2.0	ug/L	14-MAY-18	25
Chloroform	<1.0	OWP	1.0	ug/L	14-MAY-18	22
1,2-Dibromoethane	<0.20	OWP	0.20	ug/L	14-MAY-18	0.2
1,2-Dichlorobenzene	<0.50	OWP	0.50	ug/L	14-MAY-18	3
1,3-Dichlorobenzene	<0.50	OWP	0.50	ug/L	14-MAY-18	59
1,4-Dichlorobenzene	<0.50	OWP	0.50	ug/L	14-MAY-18	1
Dichlorodifluoromethane	<2.0	OWP	2.0	ug/L	14-MAY-18	590
1,1-Dichloroethane	<0.50	OWP	0.50	ug/L	14-MAY-18	5
1,2-Dichloroethane	<0.50	OWP	0.50	ug/L	14-MAY-18	5
1,1-Dichloroethylene	<0.50	OWP	0.50	ug/L	14-MAY-18	14
cis-1,2-Dichloroethylene	<0.50	OWP	0.50	ug/L	14-MAY-18	17
trans-1,2-Dichloroethylene	<0.50	OWP	0.50	ug/L	14-MAY-18	17
Methylene Chloride	<5.0	OWP	5.0	ug/L	14-MAY-18	50
1,2-Dichloropropane	<0.50	OWP	0.50	ug/L	14-MAY-18	5
cis-1,3-Dichloropropene	<0.45	DLQ	0.45	ug/L	14-MAY-18	
trans-1,3-Dichloropropene	<0.30	OWP	0.30	ug/L	14-MAY-18	
1,3-Dichloropropene (cis & trans)	<0.54		0.54	ug/L	14-MAY-18	**0.5
Ethylbenzene	<0.50	OWP	0.50	ug/L	14-MAY-18	2.4
n-Hexane	<0.50	OWP	0.50	ug/L	14-MAY-18	520
Methyl Ethyl Ketone	<20	OWP	20	ug/L	14-MAY-18	1800
Methyl Isobutyl Ketone	<20	OWP	20	ug/L	14-MAY-18	640
MTBE	<2.0	OWP	2.0	ug/L	14-MAY-18	15
Styrene	<0.50	OWP	0.50	ug/L	14-MAY-18	5.4
1,1,1,2-Tetrachloroethane	<0.50	OWP	0.50	ug/L	14-MAY-18	1.1
1,1,2,2-Tetrachloroethane	<0.50	OWP	0.50	ug/L	14-MAY-18	1
Tetrachloroethylene	<0.50	OWP	0.50	ug/L	14-MAY-18	17
Toluene	15.2	OWP	0.50	ug/L	14-MAY-18	24
1,1,1-Trichloroethane	<0.50	OWP	0.50	ug/L	14-MAY-18	200
1,1,2-Trichloroethane	<0.50	OWP	0.50	ug/L	14-MAY-18	5

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2092060-6 BH216D						
Sampled By: S. BUCK on 09-MAY-18 @ 09:00						
Matrix: WATER						#1
Volatile Organic Compounds						
Trichloroethylene	0.79	OWP	0.50	ug/L	14-MAY-18	5
Trichlorofluoromethane	<5.0	OWP	5.0	ug/L	14-MAY-18	150
Vinyl chloride	<0.50	OWP	0.50	ug/L	14-MAY-18	1.7
o-Xylene	<0.30	OWP	0.30	ug/L	14-MAY-18	
m+p-Xylenes	<0.40	OWP	0.40	ug/L	14-MAY-18	
Xylenes (Total)	<0.50		0.50	ug/L	14-MAY-18	300
Surrogate: 4-Bromofluorobenzene	94.4		70-130	%	14-MAY-18	
Surrogate: 1,4-Difluorobenzene	100.3		70-130	%	14-MAY-18	
L2092060-7 TRIP BLANK						
Sampled By: S. BUCK on 09-MAY-18 @ 11:00						
Matrix: WATER						#1
Volatile Organic Compounds						
Acetone	<30		30	ug/L	14-MAY-18	2700
Benzene	<0.50		0.50	ug/L	14-MAY-18	5
Bromodichloromethane	<2.0		2.0	ug/L	14-MAY-18	16
Bromoform	<5.0		5.0	ug/L	14-MAY-18	25
Bromomethane	<0.50		0.50	ug/L	14-MAY-18	0.89
Carbon tetrachloride	<0.20		0.20	ug/L	14-MAY-18	5
Chlorobenzene	<0.50		0.50	ug/L	14-MAY-18	30
Dibromochloromethane	<2.0		2.0	ug/L	14-MAY-18	25
Chloroform	<1.0		1.0	ug/L	14-MAY-18	22
1,2-Dibromoethane	<0.20		0.20	ug/L	14-MAY-18	0.2
1,2-Dichlorobenzene	<0.50		0.50	ug/L	14-MAY-18	3
1,3-Dichlorobenzene	<0.50		0.50	ug/L	14-MAY-18	59
1,4-Dichlorobenzene	<0.50		0.50	ug/L	14-MAY-18	1
Dichlorodifluoromethane	<2.0		2.0	ug/L	14-MAY-18	590
1,1-Dichloroethane	<0.50		0.50	ug/L	14-MAY-18	5
1,2-Dichloroethane	<0.50		0.50	ug/L	14-MAY-18	5
1,1-Dichloroethylene	<0.50		0.50	ug/L	14-MAY-18	14
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L	14-MAY-18	17
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L	14-MAY-18	17
Methylene Chloride	<5.0		5.0	ug/L	14-MAY-18	50
1,2-Dichloropropane	<0.50		0.50	ug/L	14-MAY-18	5
cis-1,3-Dichloropropene	<0.30		0.30	ug/L	14-MAY-18	
trans-1,3-Dichloropropene	<0.30		0.30	ug/L	14-MAY-18	
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	14-MAY-18	0.5
Ethylbenzene	<0.50		0.50	ug/L	14-MAY-18	2.4
n-Hexane	<0.50		0.50	ug/L	14-MAY-18	520
Methyl Ethyl Ketone	<20		20	ug/L	14-MAY-18	1800
Methyl Isobutyl Ketone	<20		20	ug/L	14-MAY-18	640
MTBE	<2.0		2.0	ug/L	14-MAY-18	15
Styrene	<0.50		0.50	ug/L	14-MAY-18	5.4
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	14-MAY-18	1.1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	14-MAY-18	1
Tetrachloroethylene	<0.50		0.50	ug/L	14-MAY-18	17

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1			
L2092060-7	TRIP BLANK									
Sampled By:	S. BUCK on 09-MAY-18 @ 11:00									
Matrix:	WATER									
Volatile Organic Compounds										
	Toluene	<0.50		0.50	ug/L	14-MAY-18	24			
	1,1,1-Trichloroethane	<0.50		0.50	ug/L	14-MAY-18	200			
	1,1,2-Trichloroethane	<0.50		0.50	ug/L	14-MAY-18	5			
	Trichloroethylene	<0.50		0.50	ug/L	14-MAY-18	5			
	Trichlorofluoromethane	<5.0		5.0	ug/L	14-MAY-18	150			
	Vinyl chloride	<0.50		0.50	ug/L	14-MAY-18	1.7			
	o-Xylene	<0.30		0.30	ug/L	14-MAY-18				
	m+p-Xylenes	<0.40		0.40	ug/L	14-MAY-18				
	Xylenes (Total)	<0.50		0.50	ug/L	14-MAY-18	300			
	Surrogate: 4-Bromofluorobenzene	96.1		70-130	%	14-MAY-18				
	Surrogate: 1,4-Difluorobenzene	100.7		70-130	%	14-MAY-18				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
DLQ	Detection Limit raised due to co-eluting interference. GCMS qualifier ion ratio did not meet acceptance criteria.
OWP	Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
CR-CR6-IC-R511-WT	Water	Hex Chrom-O.Reg 153/04 (July 2011)	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

F1-F4-511-CALC-WT	Water	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-L

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F2-F4-511-WT	Water	F2-F4-O.Reg 153/04 (July 2011)	EPA 3511/CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, 2001.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

HG-D-UG/L-CVAA-WT	Water	Diss. Mercury in Water by CVAAS (ug/L)	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-D-UG/L-MS-WT	Water	Diss. Metals in Water by ICPMS (ug/L)	EPA 200.8

The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

VOC-1,3-DCP-CALC-WT	Water	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Water	VOC by GCMS HS O.Reg 153/04 (July 2011)	SW846 8260

Liquid samples are analyzed by headspace GC/MSD.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

Reference Information

XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

17-619027

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2092060 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CR-CR6-IC-R511-WT	**Water**							
Batch R4043214								
WG2770335-4 DUP		**WG2770335-3**						
Chromium, Hexavalent		<1.0	<1.0	RPD-NA	ug/L	N/A	20	14-MAY-18
WG2770335-2 LCS								
Chromium, Hexavalent			102.0		%		80-120	14-MAY-18
WG2770335-1 MB								
Chromium, Hexavalent			<1.0		ug/L		1	14-MAY-18
WG2770335-5 MS		**WG2770335-3**						
Chromium, Hexavalent			99.0		%		70-130	14-MAY-18
F2-F4-511-WT	**Water**							
Batch R4043210								
WG2771402-2 LCS								
F2 (C10-C16)			94.9		%		70-130	14-MAY-18
F3 (C16-C34)			101.6		%		70-130	14-MAY-18
F4 (C34-C50)			91.1		%		70-130	14-MAY-18
WG2771402-3 LCSD		**WG2771402-2**						
F2 (C10-C16)		94.9	103.4		%	8.5	50	14-MAY-18
F3 (C16-C34)		101.6	107.0		%	5.1	50	14-MAY-18
F4 (C34-C50)		91.1	100.8		%	10	50	14-MAY-18
WG2771402-1 MB								
F2 (C10-C16)			<100		ug/L		100	14-MAY-18
F3 (C16-C34)			<250		ug/L		250	14-MAY-18
F4 (C34-C50)			<250		ug/L		250	14-MAY-18
Surrogate: 2-Bromobenzotrifluoride			92.5		%		60-140	14-MAY-18
HG-D-UG/L-CVAA-WT	**Water**							
Batch R4042918								
WG2770082-4 DUP		**WG2770082-3**						
Mercury (Hg)-Dissolved		<0.010	<0.010	RPD-NA	ug/L	N/A	20	14-MAY-18
WG2770082-2 LCS								
Mercury (Hg)-Dissolved			95.0		%		80-120	14-MAY-18
WG2770082-1 MB								
Mercury (Hg)-Dissolved			<0.010		ug/L		0.01	14-MAY-18
WG2770082-6 MS		**WG2770082-5**						
Mercury (Hg)-Dissolved			90.4		%		70-130	14-MAY-18
MET-D-UG/L-MS-WT	**Water**							

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R4039643								
WG2769299-4 DUP		**WG2769299-3**						
Antimony (Sb)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	10-MAY-18
Arsenic (As)-Dissolved		1.91	1.89		ug/L	1.1	20	10-MAY-18
Barium (Ba)-Dissolved		32.8	33.0		ug/L	0.4	20	10-MAY-18
Beryllium (Be)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	10-MAY-18
Boron (B)-Dissolved		280	267		ug/L	4.7	20	10-MAY-18
Cadmium (Cd)-Dissolved		0.0113	0.0118		ug/L	4.3	20	10-MAY-18
Chromium (Cr)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	10-MAY-18
Cobalt (Co)-Dissolved		0.48	0.49		ug/L	1.3	20	10-MAY-18
Copper (Cu)-Dissolved		0.57	0.58		ug/L	0.9	20	10-MAY-18
Lead (Pb)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	10-MAY-18
Molybdenum (Mo)-Dissolved		2.37	2.33		ug/L	1.7	20	10-MAY-18
Nickel (Ni)-Dissolved		0.88	0.90		ug/L	3.1	20	10-MAY-18
Selenium (Se)-Dissolved		0.083	0.086		ug/L	2.7	20	10-MAY-18
Silver (Ag)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	10-MAY-18
Sodium (Na)-Dissolved		130000	129000		ug/L	0.5	20	10-MAY-18
Thallium (Tl)-Dissolved		0.021	0.019		ug/L	8.9	20	10-MAY-18
Uranium (U)-Dissolved		6.91	6.81		ug/L	1.4	20	10-MAY-18
Vanadium (V)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	10-MAY-18
Zinc (Zn)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	10-MAY-18
WG2769299-2 LCS								
Antimony (Sb)-Dissolved			91.8		%		80-120	10-MAY-18
Arsenic (As)-Dissolved			96.3		%		80-120	10-MAY-18
Barium (Ba)-Dissolved			103.8		%		80-120	10-MAY-18
Beryllium (Be)-Dissolved			98.8		%		80-120	10-MAY-18
Boron (B)-Dissolved			100.8		%		80-120	10-MAY-18
Cadmium (Cd)-Dissolved			99.2		%		80-120	10-MAY-18
Chromium (Cr)-Dissolved			94.8		%		80-120	10-MAY-18
Cobalt (Co)-Dissolved			94.3		%		80-120	10-MAY-18
Copper (Cu)-Dissolved			95.3		%		80-120	10-MAY-18
Lead (Pb)-Dissolved			103.2		%		80-120	10-MAY-18
Molybdenum (Mo)-Dissolved			99.1		%		80-120	10-MAY-18
Nickel (Ni)-Dissolved			94.5		%		80-120	10-MAY-18
Selenium (Se)-Dissolved			93.1		%		80-120	10-MAY-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R4039643								
WG2769299-2 LCS								
Silver (Ag)-Dissolved			94.2		%		80-120	10-MAY-18
Sodium (Na)-Dissolved			95.7		%		80-120	10-MAY-18
Thallium (Tl)-Dissolved			97.9		%		80-120	10-MAY-18
Uranium (U)-Dissolved			100.8		%		80-120	10-MAY-18
Vanadium (V)-Dissolved			96.0		%		80-120	10-MAY-18
Zinc (Zn)-Dissolved			90.5		%		80-120	10-MAY-18
WG2769299-1 MB								
Antimony (Sb)-Dissolved			<0.10		ug/L		0.1	10-MAY-18
Arsenic (As)-Dissolved			<0.10		ug/L		0.1	10-MAY-18
Barium (Ba)-Dissolved			<0.10		ug/L		0.1	10-MAY-18
Beryllium (Be)-Dissolved			<0.10		ug/L		0.1	10-MAY-18
Boron (B)-Dissolved			<10		ug/L		10	10-MAY-18
Cadmium (Cd)-Dissolved			<0.0050		ug/L		0.005	10-MAY-18
Chromium (Cr)-Dissolved			<0.50		ug/L		0.5	10-MAY-18
Cobalt (Co)-Dissolved			<0.10		ug/L		0.1	10-MAY-18
Copper (Cu)-Dissolved			<0.20		ug/L		0.2	10-MAY-18
Lead (Pb)-Dissolved			<0.050		ug/L		0.05	10-MAY-18
Molybdenum (Mo)-Dissolved			<0.050		ug/L		0.05	10-MAY-18
Nickel (Ni)-Dissolved			<0.50		ug/L		0.5	10-MAY-18
Selenium (Se)-Dissolved			<0.050		ug/L		0.05	10-MAY-18
Silver (Ag)-Dissolved			<0.050		ug/L		0.05	10-MAY-18
Sodium (Na)-Dissolved			<50		ug/L		50	10-MAY-18
Thallium (Tl)-Dissolved			<0.010		ug/L		0.01	10-MAY-18
Uranium (U)-Dissolved			<0.010		ug/L		0.01	10-MAY-18
Vanadium (V)-Dissolved			<0.50		ug/L		0.5	10-MAY-18
Zinc (Zn)-Dissolved			<1.0		ug/L		1	10-MAY-18
WG2769299-5 MS		**WG2769299-6**						
Antimony (Sb)-Dissolved			85.5		%		70-130	10-MAY-18
Arsenic (As)-Dissolved			103.1		%		70-130	10-MAY-18
Barium (Ba)-Dissolved			N/A	MS-B	%		-	10-MAY-18
Beryllium (Be)-Dissolved			104.0		%		70-130	10-MAY-18
Boron (B)-Dissolved			N/A	MS-B	%		-	10-MAY-18
Cadmium (Cd)-Dissolved			100.7		%		70-130	10-MAY-18
Chromium (Cr)-Dissolved			95.7		%		70-130	10-MAY-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R4039643								
WG2769299-5 MS		**WG2769299-6**						
Cobalt (Co)-Dissolved			93.5		%		70-130	10-MAY-18
Copper (Cu)-Dissolved			90.9		%		70-130	10-MAY-18
Lead (Pb)-Dissolved			98.9		%		70-130	10-MAY-18
Molybdenum (Mo)-Dissolved			99.3		%		70-130	10-MAY-18
Nickel (Ni)-Dissolved			91.3		%		70-130	10-MAY-18
Selenium (Se)-Dissolved			109.1		%		70-130	10-MAY-18
Silver (Ag)-Dissolved			78.8		%		70-130	10-MAY-18
Sodium (Na)-Dissolved			N/A	MS-B	%		-	10-MAY-18
Thallium (Tl)-Dissolved			99.4		%		70-130	10-MAY-18
Uranium (U)-Dissolved			N/A	MS-B	%		-	10-MAY-18
Vanadium (V)-Dissolved			100.7		%		70-130	10-MAY-18
Zinc (Zn)-Dissolved			94.3		%		70-130	10-MAY-18
VOC-511-HS-WT	**Water**							
Batch R4042348								
WG2763089-1 LCS								
1,1,1,2-Tetrachloroethane			104.2		%		70-130	14-MAY-18
1,1,2,2-Tetrachloroethane			82.0		%		70-130	14-MAY-18
1,1,1-Trichloroethane			103.6		%		70-130	14-MAY-18
1,1,2-Trichloroethane			90.6		%		70-130	14-MAY-18
1,1-Dichloroethane			98.7		%		70-130	14-MAY-18
1,1-Dichloroethylene			101.1		%		70-130	14-MAY-18
1,2-Dibromoethane			89.4		%		70-130	14-MAY-18
1,2-Dichlorobenzene			98.1		%		70-130	14-MAY-18
1,2-Dichloroethane			90.2		%		70-130	14-MAY-18
1,2-Dichloropropane			98.5		%		70-130	14-MAY-18
1,3-Dichlorobenzene			100.5		%		70-130	14-MAY-18
1,4-Dichlorobenzene			100.8		%		70-130	14-MAY-18
Acetone			82.7		%		60-140	14-MAY-18
Benzene			100.6		%		70-130	14-MAY-18
Bromodichloromethane			93.2		%		70-130	14-MAY-18
Bromoform			87.1		%		70-130	14-MAY-18
Bromomethane			98.3		%		60-140	14-MAY-18
Carbon tetrachloride			103.7		%		70-130	14-MAY-18
Chlorobenzene			99.7		%		70-130	

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R4042348								
WG2763089-1 LCS								
Chlorobenzene			99.7		%		70-130	14-MAY-18
Chloroform			97.4		%		70-130	14-MAY-18
cis-1,2-Dichloroethylene			90.9		%		70-130	14-MAY-18
cis-1,3-Dichloropropene			89.3		%		70-130	14-MAY-18
Dibromochloromethane			98.6		%		70-130	14-MAY-18
Dichlorodifluoromethane			117.7		%		50-140	14-MAY-18
Ethylbenzene			112.2		%		70-130	14-MAY-18
n-Hexane			126.2		%		70-130	14-MAY-18
m+p-Xylenes			116.9		%		70-130	14-MAY-18
Methyl Ethyl Ketone			75.5		%		60-140	14-MAY-18
Methyl Isobutyl Ketone			72.2		%		60-140	14-MAY-18
Methylene Chloride			96.3		%		70-130	14-MAY-18
MTBE			101.6		%		70-130	14-MAY-18
o-Xylene			109.4		%		70-130	14-MAY-18
Styrene			105.0		%		70-130	14-MAY-18
Tetrachloroethylene			114.6		%		70-130	14-MAY-18
Toluene			105.7		%		70-130	14-MAY-18
trans-1,2-Dichloroethylene			105.9		%		70-130	14-MAY-18
trans-1,3-Dichloropropene			93.1		%		70-130	14-MAY-18
Trichloroethylene			103.2		%		70-130	14-MAY-18
Trichlorofluoromethane			111.1		%		60-140	14-MAY-18
Vinyl chloride			106.7		%		60-140	14-MAY-18
WG2763089-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	14-MAY-18
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	14-MAY-18
1,1,1-Trichloroethane			<0.50		ug/L		0.5	14-MAY-18
1,1,2-Trichloroethane			<0.50		ug/L		0.5	14-MAY-18
1,1-Dichloroethane			<0.50		ug/L		0.5	14-MAY-18
1,1-Dichloroethylene			<0.50		ug/L		0.5	14-MAY-18
1,2-Dibromoethane			<0.20		ug/L		0.2	14-MAY-18
1,2-Dichlorobenzene			<0.50		ug/L		0.5	14-MAY-18
1,2-Dichloroethane			<0.50		ug/L		0.5	14-MAY-18
1,2-Dichloropropane			<0.50		ug/L		0.5	14-MAY-18
1,3-Dichlorobenzene			<0.50		ug/L		0.5	14-MAY-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R4042348								
WG2763089-2 MB								
1,4-Dichlorobenzene			<0.50		ug/L		0.5	14-MAY-18
Acetone			<30		ug/L		30	14-MAY-18
Benzene			<0.50		ug/L		0.5	14-MAY-18
Bromodichloromethane			<2.0		ug/L		2	14-MAY-18
Bromoform			<5.0		ug/L		5	14-MAY-18
Bromomethane			<0.50		ug/L		0.5	14-MAY-18
Carbon tetrachloride			<0.20		ug/L		0.2	14-MAY-18
Chlorobenzene			<0.50		ug/L		0.5	14-MAY-18
Chloroform			<1.0		ug/L		1	14-MAY-18
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	14-MAY-18
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	14-MAY-18
Dibromochloromethane			<2.0		ug/L		2	14-MAY-18
Dichlorodifluoromethane			<2.0		ug/L		2	14-MAY-18
Ethylbenzene			<0.50		ug/L		0.5	14-MAY-18
n-Hexane			<0.50		ug/L		0.5	14-MAY-18
m+p-Xylenes			<0.40		ug/L		0.4	14-MAY-18
Methyl Ethyl Ketone			<20		ug/L		20	14-MAY-18
Methyl Isobutyl Ketone			<20		ug/L		20	14-MAY-18
Methylene Chloride			<5.0		ug/L		5	14-MAY-18
MTBE			<2.0		ug/L		2	14-MAY-18
o-Xylene			<0.30		ug/L		0.3	14-MAY-18
Styrene			<0.50		ug/L		0.5	14-MAY-18
Tetrachloroethylene			<0.50		ug/L		0.5	14-MAY-18
Toluene			<0.50		ug/L		0.5	14-MAY-18
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	14-MAY-18
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	14-MAY-18
Trichloroethylene			<0.50		ug/L		0.5	14-MAY-18
Trichlorofluoromethane			<5.0		ug/L		5	14-MAY-18
Vinyl chloride			<0.50		ug/L		0.5	14-MAY-18
Surrogate: 1,4-Difluorobenzene			100.5		%		70-130	14-MAY-18
Surrogate: 4-Bromofluorobenzene			93.5		%		70-130	14-MAY-18
WG2763089-5 MS		**WG2763089-3**						
1,1,1,2-Tetrachloroethane			105.5		%		50-140	14-MAY-18
1,1,2,2-Tetrachloroethane			90.3		%		50-140	14-MAY-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R4042348								
WG2763089-5 MS		**WG2763089-3**						
1,1,1-Trichloroethane			102.8		%		50-140	14-MAY-18
1,1,2-Trichloroethane			96.3		%		50-140	14-MAY-18
1,1-Dichloroethane			99.8		%		50-140	14-MAY-18
1,1-Dichloroethylene			94.4		%		50-140	14-MAY-18
1,2-Dibromoethane			96.3		%		50-140	14-MAY-18
1,2-Dichlorobenzene			97.1		%		50-140	14-MAY-18
1,2-Dichloroethane			98.4		%		50-140	14-MAY-18
1,2-Dichloropropane			103.9		%		50-140	14-MAY-18
1,3-Dichlorobenzene			96.8		%		50-140	14-MAY-18
1,4-Dichlorobenzene			97.9		%		50-140	14-MAY-18
Acetone			90.4		%		50-140	14-MAY-18
Benzene			101.9		%		50-140	14-MAY-18
Bromodichloromethane			99.0		%		50-140	14-MAY-18
Bromoform			92.9		%		50-140	14-MAY-18
Bromomethane			92.5		%		50-140	14-MAY-18
Carbon tetrachloride			98.2		%		50-140	14-MAY-18
Chlorobenzene			99.96		%		50-140	14-MAY-18
Chloroform			100.3		%		50-140	14-MAY-18
cis-1,2-Dichloroethylene			93.4		%		50-140	14-MAY-18
cis-1,3-Dichloropropene			90.5		%		50-140	14-MAY-18
Dibromochloromethane			103.3		%		50-140	14-MAY-18
Dichlorodifluoromethane			96.3		%		50-140	14-MAY-18
Ethylbenzene			107.7		%		50-140	14-MAY-18
n-Hexane			110.3		%		50-140	14-MAY-18
m+p-Xylenes			112.5		%		50-140	14-MAY-18
Methyl Ethyl Ketone			92.1		%		50-140	14-MAY-18
Methyl Isobutyl Ketone			81.8		%		50-140	14-MAY-18
Methylene Chloride			99.96		%		50-140	14-MAY-18
MTBE			101.1		%		50-140	14-MAY-18
o-Xylene			107.0		%		50-140	14-MAY-18
Styrene			104.7		%		50-140	14-MAY-18
Tetrachloroethylene			104.2		%		50-140	14-MAY-18
Toluene			102.6		%		50-140	14-MAY-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R4042348								
WG2763089-5 MS		**WG2763089-3**						
trans-1,2-Dichloroethylene			102.7		%		50-140	14-MAY-18
trans-1,3-Dichloropropene			90.9		%		50-140	14-MAY-18
Trichloroethylene			100.9		%		50-140	14-MAY-18
Trichlorofluoromethane			99.3		%		50-140	14-MAY-18
Vinyl chloride			95.1		%		50-140	14-MAY-18

Quality Control Report

Workorder: L2092060 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

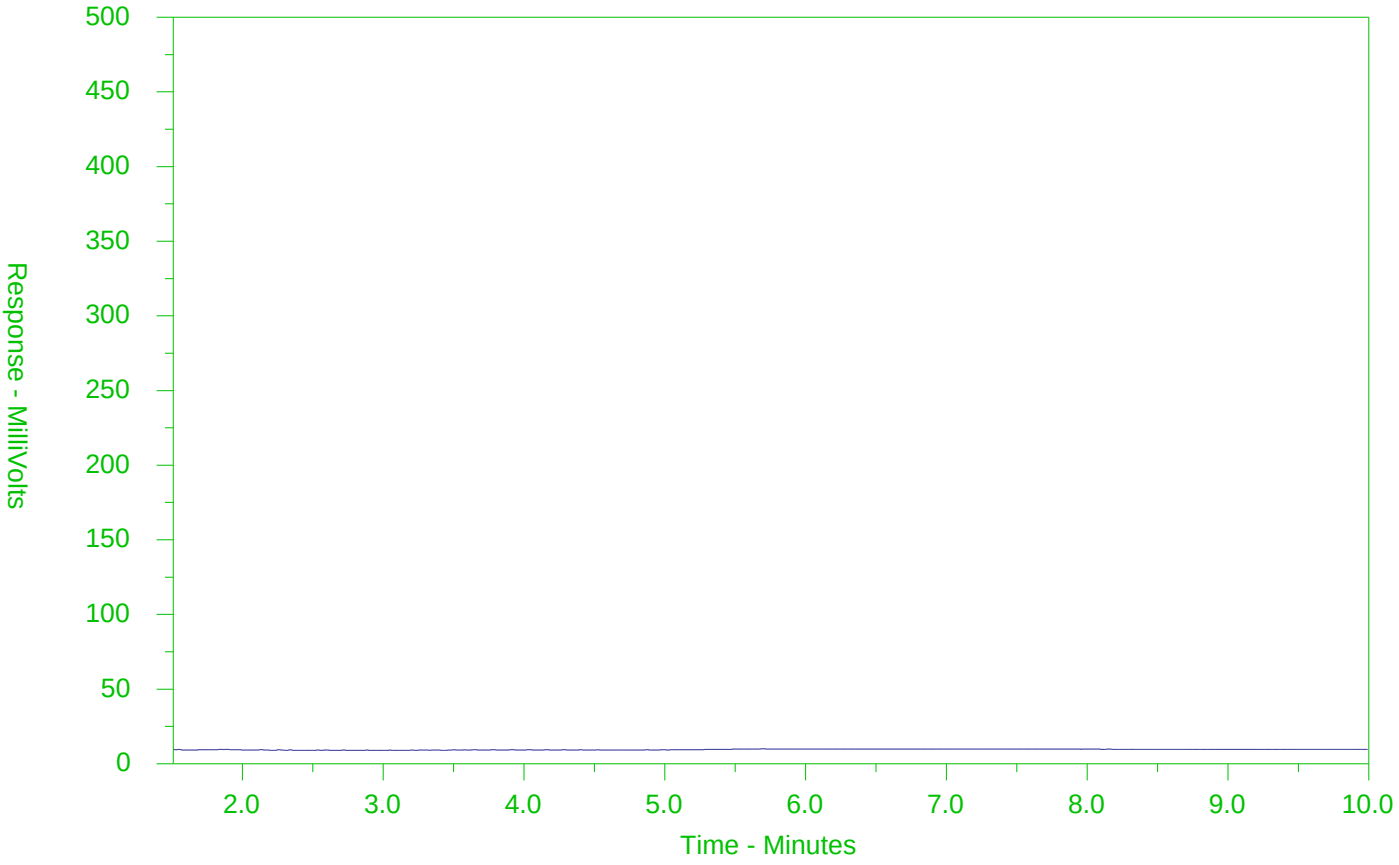
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2092060-1
Client Sample ID: BH3S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

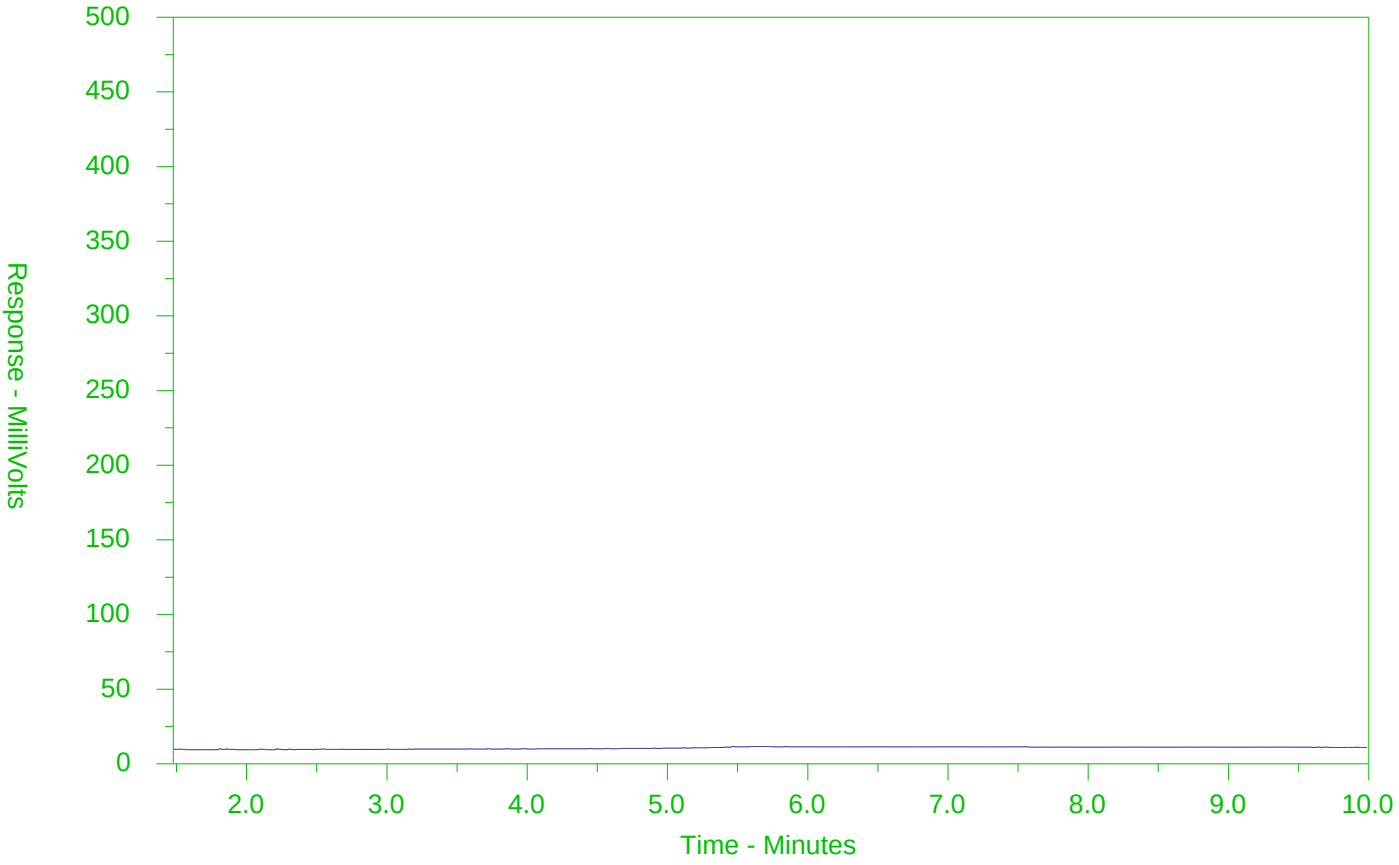
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2092060-2
Client Sample ID: BH30S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

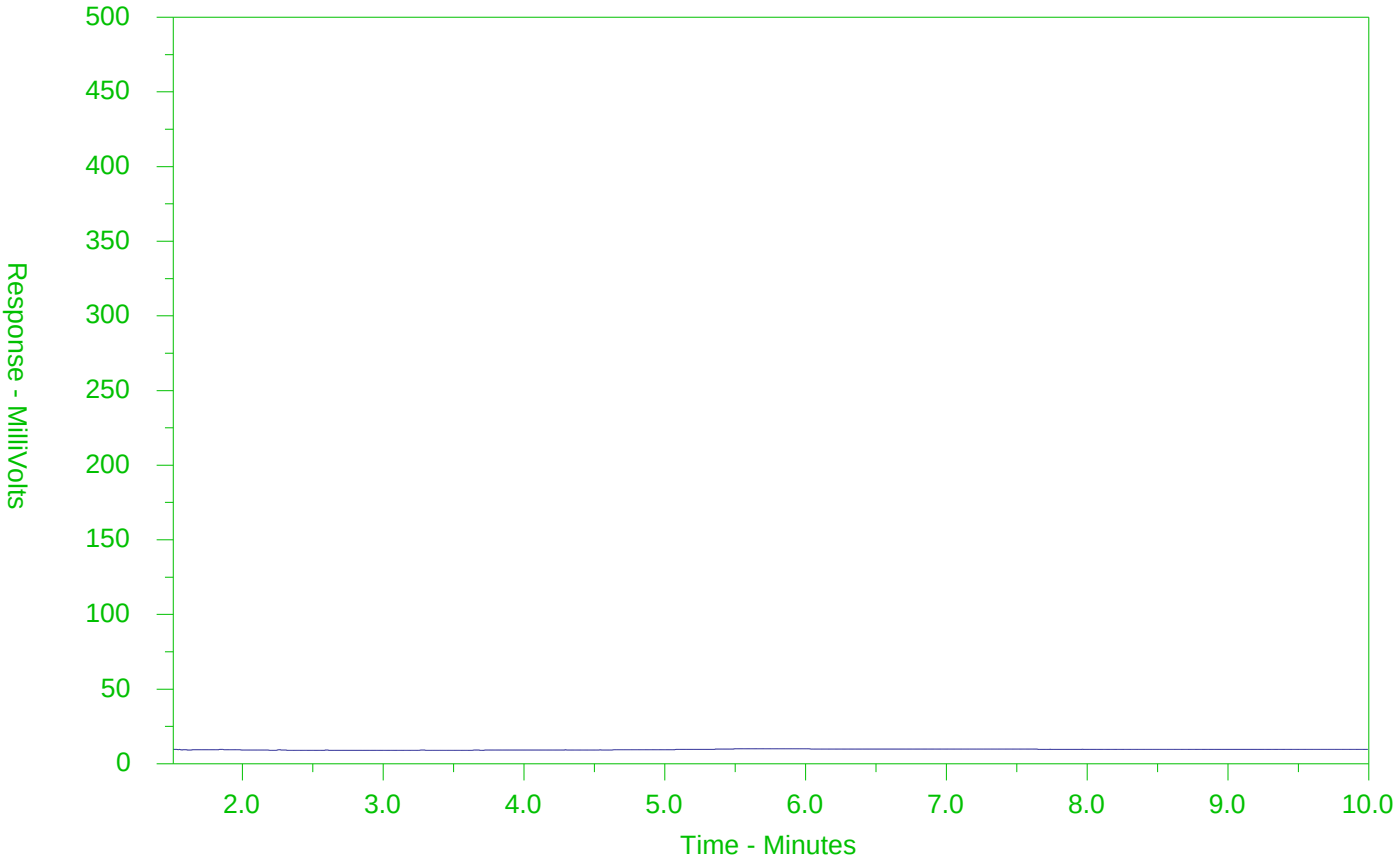
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2092060-5
Client Sample ID: BH213S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2092060-COFC

COC Number: 17 - 619027

Page 1 of 1

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	MTE Consultants Inc	Select Report Format: [X] PDF [X] EXCEL [ ] EDD (DIGITAL)	Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	S. Buck	Quality Control (QC) Report with Report [X] YES [ ] NO	PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]
Phone:	905 639 2552	[X] Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E-100%] [ ]; Same Day, Weekend or Statutory holiday [E2-200%] (Laboratory opening fees may apply) [ ]
	Company address below will appear on the final report	Select Distribution: [X] EMAIL [ ] MAIL [ ] FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:	1016 Sutton Dr Unit A	Email 1 or Fax sbuck@mte85.com	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:	Burlington ON	Email 2 tjones@mte85.com	
Postal Code:	L7L6B8	Email 3	

Invoice To		Invoice Distribution	
	Same as Report To [X] YES [ ] NO	Select Invoice Distribution: [ ] EMAIL [ ] MAIL [ ] FAX	
	Copy of Invoice with Report [ ] YES [X] NO		
Company:		Email 1 or Fax	
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	38934-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): L2092060 SH

ALS Contact: MLP

Sampler: SNB

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	PHCs	VOCs	Metals	CrVI	Hg	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
					P	P	F/P	F/P	F/P			
1	BH35	09-05-18	11:00	W	X							2
2	BH305		11:15		X							2
3	BH13D		10:30							X		2
4	BH1675		12:00				X	X	X			3
5	BH2135		9:30		X							2
6	BH216D		9:00			X						2
7	TRIP BLANK		NA			X						2

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	Compare to O.Reg 153/04 Tbl 3 M/F
Are samples for human consumption/ use? [ ] YES [X] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen [ ] SIF Observations Yes [ ] No [ ]

Ice Packs [X] Ice Cubes [ ] Custody seal intact Yes [ ] No [ ]

Cooling Initiated [X]

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
1.2°C				5.3°C			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
	05/09/18	12:45	AARON BURTON	9-may-2018	12:45		May. 9/18	18:45

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Maxxam
A Bureau Veritas Group Company

Your Project #: 38934-100
Your C.O.C. #: 663665-01-01

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2019/05/01
Report #: R5692262
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B8B2534
Received: 2018/05/14, 12:13

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
1,3-Dichloropropene Sum	3	N/A	2018/05/17		EPA 8260C m
Volatile Organic Compounds in Water	3	N/A	2018/05/16	CAM SOP-00228	EPA 8260C m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing. Maxxam is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Ronklin Gracian
Project Manager
01 May 2019 14:08:22

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: RGracian@maxxam.ca
Phone# (905) 817-5700

==========

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B8B2534
Report Date: 2019/05/01

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

O.REG 153 VOCS BY HS (WATER)

Maxxam ID			GRN888		GRN889		GRN890		
Sampling Date			2018/05/11 09:00		2018/05/11 09:45		2018/05/11 10:30		
COC Number			663665-01-01		663665-01-01		663665-01-01		
	UNITS	**Criteria**	**BH102S**	**RDL**	**BH117S**	**RDL**	**BH43U**	**RDL**	**QC Batch**
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	0.50	<0.50	0.50	<0.50	0.50	5529458
Volatile Organics									
Acetone (2-Propanone)	ug/L	2700	<25	25	<10	10	<10	10	5531317
Benzene	ug/L	5.0	<0.50	0.50	<0.20	0.20	<0.20	0.20	5531317
Bromodichloromethane	ug/L	16.0	<1.3	1.3	<0.50	0.50	<0.50	0.50	5531317
Bromoform	ug/L	25.0	<2.5	2.5	<1.0	1.0	<1.0	1.0	5531317
Bromomethane	ug/L	0.89	<0.50	0.50	<0.50	0.50	<0.50	0.50	5531317
Carbon Tetrachloride	ug/L	5.0	<0.20	0.20	<0.20	0.20	<0.20	0.20	5531317
Chlorobenzene	ug/L	30	<0.50	0.50	<0.20	0.20	<0.20	0.20	5531317
Chloroform	ug/L	22	<0.50	0.50	<0.20	0.20	<0.20	0.20	5531317
Dibromochloromethane	ug/L	25.0	<1.3	1.3	<0.50	0.50	<0.50	0.50	5531317
1,2-Dichlorobenzene	ug/L	3.0	<0.50	0.50	<0.50	0.50	<0.50	0.50	5531317
1,3-Dichlorobenzene	ug/L	59	<0.50	0.50	<0.50	0.50	<0.50	0.50	5531317
1,4-Dichlorobenzene	ug/L	1.0	<0.50	0.50	<0.50	0.50	<0.50	0.50	5531317
Dichlorodifluoromethane (FREON 12)	ug/L	590	<2.5	2.5	<1.0	1.0	<1.0	1.0	5531317
1,1-Dichloroethane	ug/L	5	1.1	0.50	0.48	0.20	<0.20	0.20	5531317
1,2-Dichloroethane	ug/L	5	<0.50	0.50	<0.50	0.50	<0.50	0.50	5531317
1,1-Dichloroethylene	ug/L	14	3.0	0.50	4.5	0.20	0.21	0.20	5531317
cis-1,2-Dichloroethylene	ug/L	17	**620**	1.3	**350**	0.50	**23**	0.50	5531317
trans-1,2-Dichloroethylene	ug/L	17	10	1.3	**35**	0.50	2.0	0.50	5531317
1,2-Dichloropropane	ug/L	5.0	<0.50	0.50	<0.20	0.20	<0.20	0.20	5531317
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	0.30	<0.30	0.30	<0.30	0.30	5531317
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	0.40	<0.40	0.40	<0.40	0.40	5531317
Ethylbenzene	ug/L	2.4	<0.50	0.50	<0.20	0.20	<0.20	0.20	5531317
Ethylene Dibromide	ug/L	0.2	<0.20	0.20	<0.20	0.20	<0.20	0.20	5531317
Hexane	ug/L	520	<2.5	2.5	<1.0	1.0	<1.0	1.0	5531317
Methylene Chloride(Dichloromethane)	ug/L	50	<5.0	5.0	<2.0	2.0	<2.0	2.0	5531317
Methyl Ethyl Ketone (2-Butanone)	ug/L	1800	<25	25	<10	10	<10	10	5531317
Methyl Isobutyl Ketone	ug/L	640	<13	13	<5.0	5.0	<5.0	5.0	5531317

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B8B2534
Report Date: 2019/05/01

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

O.REG 153 VOCS BY HS (WATER)

Maxxam ID			GRN888		GRN889		GRN890		
Sampling Date			2018/05/11 09:00		2018/05/11 09:45		2018/05/11 10:30		
COC Number			663665-01-01		663665-01-01		663665-01-01		
	UNITS	**Criteria**	**BH102S**	**RDL**	**BH117S**	**RDL**	**BH43U**	**RDL**	**QC Batch**
Methyl t-butyl ether (MTBE)	ug/L	15	<1.3	1.3	<0.50	0.50	<0.50	0.50	5531317
Styrene	ug/L	5.4	<0.50	0.50	<0.50	0.50	<0.50	0.50	5531317
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	0.50	<0.50	0.50	<0.50	0.50	5531317
1,1,2,2-Tetrachloroethane	ug/L	1.0	<0.50	0.50	<0.50	0.50	<0.50	0.50	5531317
Tetrachloroethylene	ug/L	17	2.1	0.50	0.38	0.20	<0.20	0.20	5531317
Toluene	ug/L	24	<0.50	0.50	<0.20	0.20	<0.20	0.20	5531317
1,1,1-Trichloroethane	ug/L	200	<0.50	0.50	<0.20	0.20	<0.20	0.20	5531317
1,1,2-Trichloroethane	ug/L	5	<0.50	0.50	<0.50	0.50	<0.50	0.50	5531317
Trichloroethylene	ug/L	5	**150**	0.50	**1500**	2.0	**34**	0.20	5531317
Trichlorofluoromethane (FREON 11)	ug/L	150	<1.3	1.3	<0.50	0.50	<0.50	0.50	5531317
Vinyl Chloride	ug/L	1.7	**89**	0.50	**26**	2.0	0.96	0.20	5531317
p+m-Xylene	ug/L	-	<0.50	0.50	<0.20	0.20	<0.20	0.20	5531317
o-Xylene	ug/L	-	<0.50	0.50	<0.20	0.20	<0.20	0.20	5531317
Total Xylenes	ug/L	300	<0.50	0.50	<0.20	0.20	<0.20	0.20	5531317
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	-	100		84		104		5531317
D4-1,2-Dichloroethane	%	-	112		115		117		5531317
D8-Toluene	%	-	104		104		101		5531317

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil

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Maxxam Job #: B8B2534
Report Date: 2019/05/01

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

TEST SUMMARY

Maxxam ID: GRN888
Sample ID: BH102S
Matrix: Water

Collected: 2018/05/11
Shipped:
Received: 2018/05/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	5529458	N/A	2018/05/17	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	5531317	N/A	2018/05/16	Rebecca McClean

Maxxam ID: GRN889
Sample ID: BH117S
Matrix: Water

Collected: 2018/05/11
Shipped:
Received: 2018/05/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	5529458	N/A	2018/05/17	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	5531317	N/A	2018/05/16	Rebecca McClean

Maxxam ID: GRN890
Sample ID: BH43U
Matrix: Water

Collected: 2018/05/11
Shipped:
Received: 2018/05/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	5529458	N/A	2018/05/17	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	5531317	N/A	2018/05/16	Rebecca McClean

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B8B2534
Report Date: 2019/05/01

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	13.0°C

Revised Report [2019/05/01]: Criteria amended as per client request.

Sample GRN888 [BH102S] : VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to meet required regulatory criteria, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Sample GRN889 [BH117S] : VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to meet required regulatory criteria, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Results relate only to the items tested.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B8B2534
Report Date: 2019/05/01

QUALITY ASSURANCE REPORT

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
5531317	4-Bromofluorobenzene	2018/05/16	87	70 - 130	104	70 - 130	89	%		
5531317	D4-1,2-Dichloroethane	2018/05/16	107	70 - 130	107	70 - 130	115	%		
5531317	D8-Toluene	2018/05/16	104	70 - 130	105	70 - 130	101	%		
5531317	1,1,1,2-Tetrachloroethane	2018/05/16	104	70 - 130	106	70 - 130	<0.50	ug/L		
5531317	1,1,1-Trichloroethane	2018/05/16	99	70 - 130	98	70 - 130	<0.20	ug/L		
5531317	1,1,2,2-Tetrachloroethane	2018/05/16	106	70 - 130	109	70 - 130	<0.50	ug/L	NC	30
5531317	1,1,2-Trichloroethane	2018/05/16	102	70 - 130	105	70 - 130	<0.50	ug/L		
5531317	1,1-Dichloroethane	2018/05/16	98	70 - 130	98	70 - 130	<0.20	ug/L		
5531317	1,1-Dichloroethylene	2018/05/16	94	70 - 130	93	70 - 130	<0.20	ug/L		
5531317	1,2-Dichlorobenzene	2018/05/16	98	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
5531317	1,2-Dichloroethane	2018/05/16	100	70 - 130	100	70 - 130	<0.50	ug/L		
5531317	1,2-Dichloropropane	2018/05/16	98	70 - 130	98	70 - 130	<0.20	ug/L		
5531317	1,3-Dichlorobenzene	2018/05/16	93	70 - 130	95	70 - 130	<0.50	ug/L		
5531317	1,4-Dichlorobenzene	2018/05/16	97	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
5531317	Acetone (2-Propanone)	2018/05/16	97	60 - 140	96	60 - 140	<10	ug/L		
5531317	Benzene	2018/05/16	95	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
5531317	Bromodichloromethane	2018/05/16	103	70 - 130	104	70 - 130	<0.50	ug/L		
5531317	Bromoform	2018/05/16	100	70 - 130	103	70 - 130	<1.0	ug/L		
5531317	Bromomethane	2018/05/16	97	60 - 140	94	60 - 140	<0.50	ug/L		
5531317	Carbon Tetrachloride	2018/05/16	100	70 - 130	99	70 - 130	<0.20	ug/L		
5531317	Chlorobenzene	2018/05/16	94	70 - 130	96	70 - 130	<0.20	ug/L		
5531317	Chloroform	2018/05/16	100	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
5531317	cis-1,2-Dichloroethylene	2018/05/16	97	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
5531317	cis-1,3-Dichloropropene	2018/05/16	99	70 - 130	95	70 - 130	<0.30	ug/L		
5531317	Dibromochloromethane	2018/05/16	100	70 - 130	103	70 - 130	<0.50	ug/L		
5531317	Dichlorodifluoromethane (FREON 12)	2018/05/16	83	60 - 140	89	60 - 140	<1.0	ug/L		
5531317	Ethylbenzene	2018/05/16	91	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
5531317	Ethylene Dibromide	2018/05/16	101	70 - 130	103	70 - 130	<0.20	ug/L		
5531317	Hexane	2018/05/16	95	70 - 130	94	70 - 130	<1.0	ug/L		
5531317	Methyl Ethyl Ketone (2-Butanone)	2018/05/16	100	60 - 140	100	60 - 140	<10	ug/L		
5531317	Methyl Isobutyl Ketone	2018/05/16	101	70 - 130	104	70 - 130	<5.0	ug/L		
5531317	Methyl t-butyl ether (MTBE)	2018/05/16	84	70 - 130	85	70 - 130	<0.50	ug/L		

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
5531317	Methylene Chloride(Dichloromethane)	2018/05/16	92	70 - 130	92	70 - 130	<2.0	ug/L	NC	30
5531317	o-Xylene	2018/05/16	89	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
5531317	p+m-Xylene	2018/05/16	91	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
5531317	Styrene	2018/05/16	98	70 - 130	102	70 - 130	<0.50	ug/L		
5531317	Tetrachloroethylene	2018/05/16	91	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
5531317	Toluene	2018/05/16	94	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
5531317	Total Xylenes	2018/05/16					<0.20	ug/L	NC	30
5531317	trans-1,2-Dichloroethylene	2018/05/16	97	70 - 130	96	70 - 130	<0.50	ug/L		
5531317	trans-1,3-Dichloropropene	2018/05/16	106	70 - 130	100	70 - 130	<0.40	ug/L	NC	30
5531317	Trichloroethylene	2018/05/16	94	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
5531317	Trichlorofluoromethane (FREON 11)	2018/05/16	94	70 - 130	95	70 - 130	<0.50	ug/L		
5531317	Vinyl Chloride	2018/05/16	88	70 - 130	93	70 - 130	<0.20	ug/L		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

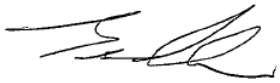
Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B8B2534
Report Date: 2019/05/01

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Brad Newman, Scientific Service Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

14-May-18 12:13
Ronklin Gracian
B8B2534
VMK ENV-693

Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

		Bottle Types																														
		Inorganics						Organics											Hydrocarbons							Volatiles				Other			
	Sample ID	All	CrVI	CN	General	Hg	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/ Herb 1 of 2	Pest/ Herb 2 of 2	SVOC/ ABN 1 of 2	SVOC/ ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4				
1	BH1175	TS																														
2	BH 43U	TS																														
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																

Comments:

Legend:	
P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

Recorded By: (signature/print) Ronal VLADA MARKEVICH

Maxxam
A Bureau Veritas Group Company

Maxxam Analytics International Corporation o/a Maxxam Analytics
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.maxxam.ca

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	B67867	Maxxam Job #:	Bottle Order #: 663665
Attention:	Accounts Payable	Attention:	~~Anthony Puntillo~~ S. Buck	P.O. #:			
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	38934-100	COC #:	Project Manager:
Tel:	(519) 743-6500 x Fax: (519) 743-6513 x	Tel:	(905) 639-2552 x2416 Fax:	Project Name:		C#663665-01-01	Ronklin Gracian
Email:	accounting@mte85.com	Email:	SBuck ~~APuntillo~~@mte85.com	Site #:			
				Sampled By:			

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☒ Res/Park ☒ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558 ☐ Storm Sewer Bylaw	
☒ Table 3 ☐ Agri/Other ☒ For RSC	☐ MISA Municipality	
☐ Table	☐ PWQO	
	☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? _____

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O Reg 153 VOCs by HS	# of Bottles	Comments
1		BH102S	~~DEC~~ 11/18	9:00	GW		X	3	
2		BH117S	1	9:45	GW		X	3	
3		BH43U	1	10:30	GW		X	3	
4									
5									
6									
7									
8									
9									
10									

14-May-18 12:13
Ronklin Gracian
B8B2534
VMK ENV-693

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
S Buck	18/05/14	12:11	[illegible]	18/05/14	12:13	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	13 13 13	Custody Seal Present	Yes ✓
			Intact	✓

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT HTTP://MAXXAM.CA/WP-CONTENT/UPLOADS/ONTARIO-COC.PDF.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

ON ICE

White: Maxxa Yellow: Client

Maxxam Analytics International Corporation o/a Maxxam Analytics

Maxxam Job #: B8B2534
Report Date: 2019/05/01

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: SB

Exceedence Summary Table – Reg153/04 T2-GW-F/M

Result Exceedences

Sample ID	Maxxam ID	Parameter	Criteria	Result	DL	Units
BH102S	GRN888-01	cis-1,2-Dichloroethylene	17	620	1.3	ug/L
BH102S	GRN888-01	Trichloroethylene	5	150	0.50	ug/L
BH102S	GRN888-01	Vinyl Chloride	1.7	89	0.50	ug/L
BH117S	GRN889-01	cis-1,2-Dichloroethylene	17	350	0.50	ug/L
BH117S	GRN889-01	trans-1,2-Dichloroethylene	17	35	0.50	ug/L
BH117S	GRN889-01	Trichloroethylene	5	1500	2.0	ug/L
BH117S	GRN889-01	Vinyl Chloride	1.7	26	2.0	ug/L
BH43U	GRN890-01	cis-1,2-Dichloroethylene	17	23	0.50	ug/L
BH43U	GRN890-01	Trichloroethylene	5	34	0.20	ug/L

The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

MTE CONSULTANTS INC. (Kitchener)
ATTN: ANTHONY PUNTILLO
1016 SUTTON DRIVE
UNIT A
BURLINGTON ON L7L 6B8

Date Received: 24-MAY-18
Report Date: 02-MAY-19 10:41 (MT)
Version: FINAL REV. 3

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2100034

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 17-619283
Legal Site Desc:

Comments: ADDITIONAL 04-JUN-18 11:53

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2100034-1 BH3S						
Sampled By: CLIENT on 23-MAY-18 @ 13:00						
Matrix: WATER						#1
Hydrocarbons						
F1 (C6-C10)	253		25	ug/L	28-MAY-18	750
F1-BTEX	253		25	ug/L	05-JUN-18	750
F2 (C10-C16)	<100		100	ug/L	31-MAY-18	150
F3 (C16-C34)	<250		250	ug/L	31-MAY-18	500
F4 (C34-C50)	<250		250	ug/L	31-MAY-18	500
Total Hydrocarbons (C6-C50)	<370		370	ug/L	05-JUN-18	
Chrom. to baseline at nC50	YES			No Unit	31-MAY-18	
Surrogate: 2-Bromobenzotrifluoride	73.1		60-140	%	31-MAY-18	
Surrogate: 3,4-Dichlorotoluene	86.9		60-140	%	28-MAY-18	
L2100034-2 BH213S						
Sampled By: CLIENT on 23-MAY-18 @ 13:00						
Matrix: WATER						#1
Hydrocarbons						
F1 (C6-C10)	2010	OWP	130	ug/L	28-MAY-18	*750
F1-BTEX	2000		130	ug/L	05-JUN-18	*750
F2 (C10-C16)	<100		100	ug/L	31-MAY-18	150
F3 (C16-C34)	<250		250	ug/L	31-MAY-18	500
F4 (C34-C50)	<250		250	ug/L	31-MAY-18	500
Total Hydrocarbons (C6-C50)	2010		390	ug/L	05-JUN-18	
Chrom. to baseline at nC50	YES			No Unit	31-MAY-18	
Surrogate: 2-Bromobenzotrifluoride	63.4		60-140	%	31-MAY-18	
Surrogate: 3,4-Dichlorotoluene	92.8		60-140	%	28-MAY-18	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
OWP	Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
BTX-511-HS-WT	Water	BTEX by Headspace	SW846 8260 (511)

BTX is determined by analyzing by headspace-GC/MS.

F1-F4-511-CALC-WT	Water	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-L

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Water	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Water	F2-F4-O.Reg 153/04 (July 2011)	EPA 3511/CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, 2001.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

17-619283

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2100034 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
1016 SUTTON DRIVE UNIT A
BURLINGTON ON L7L 6B8
Contact: ANTHONY PUNTILLO

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Water**							
Batch R4057770								
WG2777186-4 DUP		**WG2777186-3**						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	28-MAY-18
WG2777186-1 LCS								
F1 (C6-C10)			102.7		%		80-120	25-MAY-18
WG2777186-2 MB								
F1 (C6-C10)			<25		ug/L		25	25-MAY-18
Surrogate: 3,4-Dichlorotoluene			104.2		%		60-140	25-MAY-18
WG2777186-5 MS		**WG2777186-3**						
F1 (C6-C10)			80.6		%		60-140	28-MAY-18
Batch R4058110								
WG2781852-4 DUP		**WG2781852-3**						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	29-MAY-18
WG2781852-1 LCS								
F1 (C6-C10)			97.4		%		80-120	28-MAY-18
WG2781852-2 MB								
F1 (C6-C10)			<25		ug/L		25	28-MAY-18
Surrogate: 3,4-Dichlorotoluene			98.3		%		60-140	28-MAY-18
WG2781852-5 MS		**WG2781852-3**						
F1 (C6-C10)			90.8		%		60-140	29-MAY-18
F2-F4-511-WT	**Water**							
Batch R4063596								
WG2785017-2 LCS								
F2 (C10-C16)			104.7		%		70-130	31-MAY-18
F3 (C16-C34)			107.9		%		70-130	31-MAY-18
F4 (C34-C50)			108.0		%		70-130	31-MAY-18
WG2785017-3 LCSD		**WG2785017-2**						
F2 (C10-C16)		104.7	101.5		%	3.1	50	31-MAY-18
F3 (C16-C34)		107.9	100.9		%	6.7	50	31-MAY-18
F4 (C34-C50)		108.0	104.0		%	3.8	50	31-MAY-18
WG2785017-1 MB								
F2 (C10-C16)			<100		ug/L		100	31-MAY-18
F3 (C16-C34)			<250		ug/L		250	31-MAY-18
F4 (C34-C50)			<250		ug/L		250	31-MAY-18
Surrogate: 2-Bromobenzotrifluoride			76.2		%		60-140	31-MAY-18

Quality Control Report

Workorder: L2100034 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC. (Kitchener)
1016 SUTTON DRIVE UNIT A
BURLINGTON ON L7L 6B8
Contact: ANTHONY PUNTILLO

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

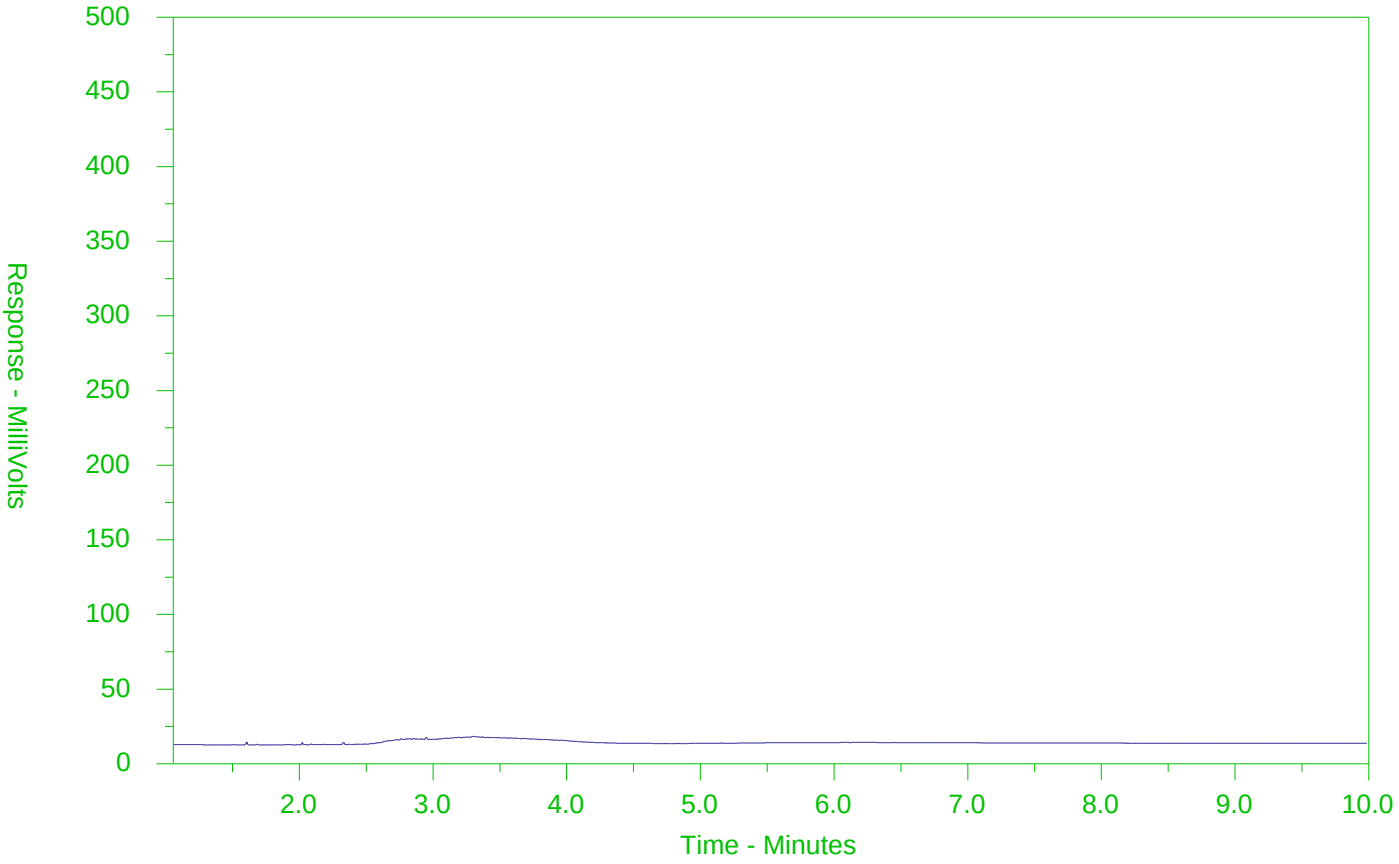
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2100034-1
Client Sample ID: BH3S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

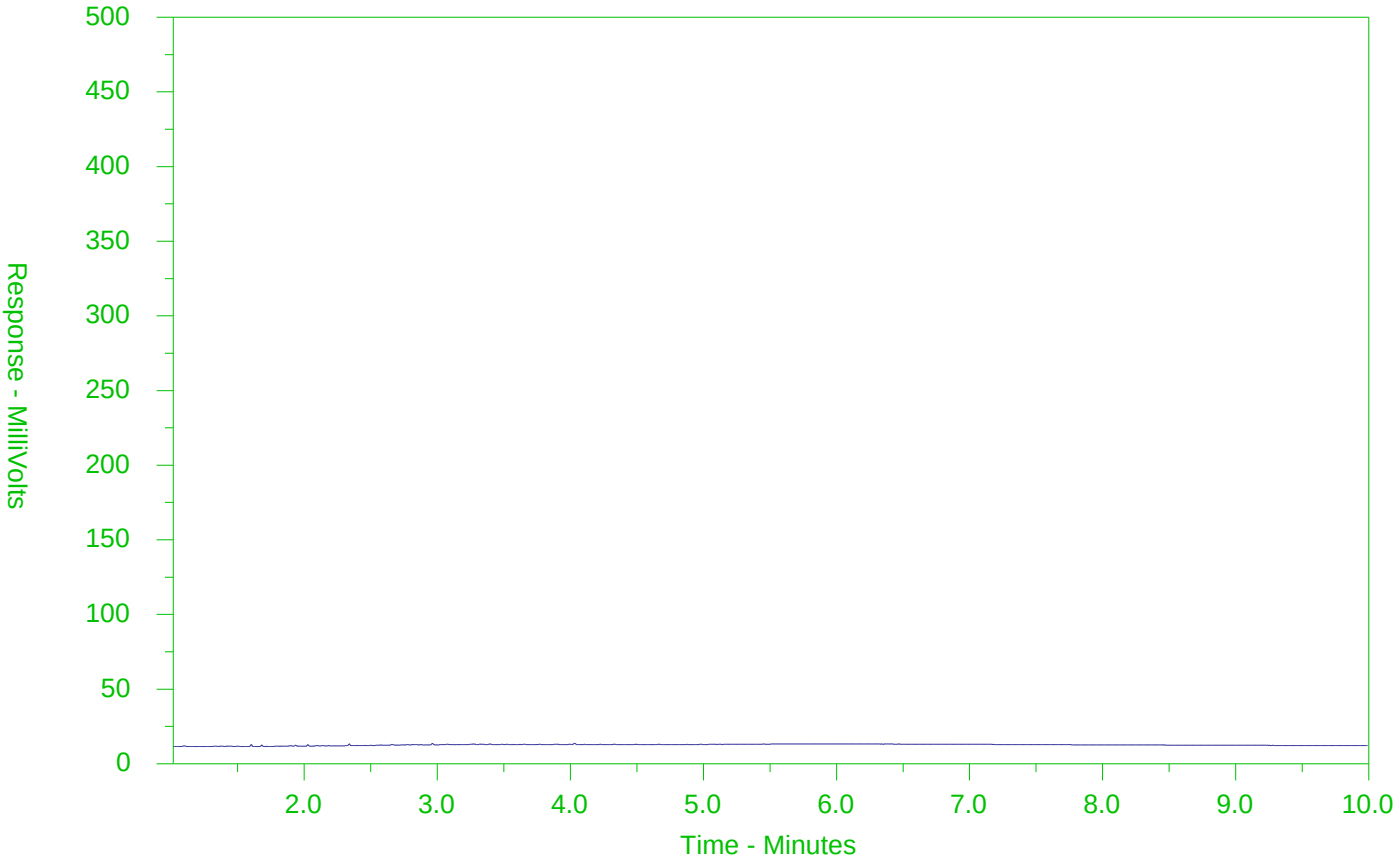
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2100034-2
Client Sample ID: BH213S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2100034-COFC

COC Number: 17 - 619283

Page 1 of 1

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Turnaround Time (TAT) Requested - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	MTE Consultants	Select Report Format: ☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)	*Regular [R] ☒ Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	Nathan Pantilo	Quality Control (QC) Report with Report ☐ YES ☐ NO	PRIORITY (Business Days): 4 day [P4-20%] ☐ / 3 day [P3-25%] ☐ / 2 day [P2-50%] ☐
Phone:	905 639 2552	☐ Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E-100%] ☐ / Same Day, Weekend or Statutory holiday [E2-200%] (Laboratory opening fees may apply) ☐
	Company address below will appear on the final report	Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:	1016 Sutton Drive, Unit A	Email 1 or Fax apantilo@mtelab.com	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:	Burlington	Email 2 sbeck@mtelab.com	
Postal Code:	L7L 6B8	Email 3	
Invoice To	Same as Report To ☐ YES ☐ NO	**Invoice Distribution**	
	Copy of Invoice with Report ☐ YES ☐ NO	Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX	
Company:		Email 1 or Fax accountingamtelab.com	
Contact:	Accounts Payable	Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	38934-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):	L2100034	ALS Contact: ML	Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	PHCs F1-F4	TCLP Metals	TCLP VOCs	TCLP PCBs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
	BH35	23-05-18	13:30	GW	X						4
	BH2135	23-05-18	13:00	GW	X						4
	TCLP	23-05-18	13:15	Soil		X	X	X			2

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☐ NO	TCLP results on separate CoA
Are samples for human consumption/ use? ☐ YES ☐ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	☐	SIF Observations	Yes ☐	No	
Ice Packs	☐	Ice Cubes ☒	Custody seal intact	Yes ☐	No
Cooling Initiated	☒				

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
14.8°C				15.2°C			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date: May 23/18	Time: 14:15	Received by: C. Kocharakkal	Date: 23-May-2018	Time: 16:20pm	Received by:	Date: May 24/18	

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

MTE CONSULTANTS INC.
ATTN: SPENCER BUCK
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8

Date Received: 11-JUN-18
Report Date: 02-MAY-19 10:41 (MT)
Version: FINAL REV. 3

Client Phone: 905-639-2552

Certificate of Analysis

Lab Work Order #: L2110762

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 17-624340
Legal Site Desc:

Comments: ADDITIONAL 28-JUN-18 11:46
Report F1-BTX

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2110762-1 BH6S						
Sampled By: SDB on 11-JUN-18 @ 11:20						
Matrix: WATER						
Volatile Organic Compounds						
Surrogate: 4-Bromofluorobenzene	97.3		70-130	%	14-JUN-18	
Surrogate: 1,4-Difluorobenzene	99.8		70-130	%	14-JUN-18	
Hydrocarbons						
F1 (C6-C10)	<25		25	ug/L	14-JUN-18	750
F1-BTEX	<25		25	ug/L	29-JUN-18	750
F2 (C10-C16)	<100		100	ug/L	19-JUN-18	150
F3 (C16-C34)	<250		250	ug/L	19-JUN-18	500
F4 (C34-C50)	<250		250	ug/L	19-JUN-18	500
Total Hydrocarbons (C6-C50)	<370		370	ug/L	29-JUN-18	
Chrom. to baseline at nC50	YES			No Unit	19-JUN-18	
Surrogate: 2-Bromobenzotrifluoride	80.0		60-140	%	19-JUN-18	
Surrogate: 3,4-Dichlorotoluene	86.1		60-140	%	14-JUN-18	
L2110762-2 BH12D						
Sampled By: SDB on 11-JUN-18 @ 09:30						
Matrix: WATER						#1
Volatile Organic Compounds						
Surrogate: 4-Bromofluorobenzene	92.7		70-130	%	15-JUN-18	
Surrogate: 1,4-Difluorobenzene	98.1		70-130	%	15-JUN-18	
Hydrocarbons						
F1 (C6-C10)	<25		25	ug/L	15-JUN-18	750
F1-BTEX	<25		25	ug/L	29-JUN-18	750
F2 (C10-C16)	<100		100	ug/L	19-JUN-18	150
F3 (C16-C34)	<250		250	ug/L	19-JUN-18	500
F4 (C34-C50)	<250		250	ug/L	19-JUN-18	500
Total Hydrocarbons (C6-C50)	<370		370	ug/L	29-JUN-18	
Chrom. to baseline at nC50	YES			No Unit	19-JUN-18	
Surrogate: 2-Bromobenzotrifluoride	79.5		60-140	%	19-JUN-18	
Surrogate: 3,4-Dichlorotoluene	96.1		60-140	%	15-JUN-18	
L2110762-3 BH13D						
Sampled By: SDB on 11-JUN-18 @ 10:30						
Matrix: WATER						#1
Volatile Organic Compounds						
Surrogate: 4-Bromofluorobenzene	93.8		70-130	%	15-JUN-18	
Surrogate: 1,4-Difluorobenzene	101.4		70-130	%	15-JUN-18	
Hydrocarbons						
F1 (C6-C10)	4540	OWP	250	ug/L	18-JUN-18	*750
F1-BTEX	4540		250	ug/L	29-JUN-18	*750
F2 (C10-C16)	<100		100	ug/L	19-JUN-18	150
F3 (C16-C34)	<250		250	ug/L	19-JUN-18	500
F4 (C34-C50)	<250		250	ug/L	19-JUN-18	500
Total Hydrocarbons (C6-C50)	4540		440	ug/L	29-JUN-18	
Chrom. to baseline at nC50	YES			No Unit	19-JUN-18	
Surrogate: 2-Bromobenzotrifluoride	74.5		60-140	%	19-JUN-18	
Surrogate: 3,4-Dichlorotoluene	105.8		60-140	%	18-JUN-18	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2110762-4 BH101S						
Sampled By: SDB on 11-JUN-18 @ 09:00						
Matrix: WATER						#1
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	<0.020		0.020	ug/L	19-JUN-18	4.1
Acenaphthylene	<0.020		0.020	ug/L	19-JUN-18	1
Anthracene	<0.020		0.020	ug/L	19-JUN-18	2.4
Benzo(a)anthracene	<0.020		0.020	ug/L	19-JUN-18	1
Benzo(a)pyrene	<0.010		0.010	ug/L	19-JUN-18	0.01
Benzo(b)fluoranthene	<0.020		0.020	ug/L	19-JUN-18	0.1
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	19-JUN-18	0.2
Benzo(k)fluoranthene	<0.020		0.020	ug/L	19-JUN-18	0.1
Chrysene	<0.020		0.020	ug/L	19-JUN-18	0.1
Dibenzo(ah)anthracene	<0.020		0.020	ug/L	19-JUN-18	0.2
Fluoranthene	<0.020		0.020	ug/L	19-JUN-18	0.41
Fluorene	<0.020		0.020	ug/L	19-JUN-18	120
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	19-JUN-18	0.2
1+2-Methylnaphthalenes	<0.028		0.028	ug/L	19-JUN-18	3.2
1-Methylnaphthalene	<0.020		0.020	ug/L	19-JUN-18	3.2
2-Methylnaphthalene	<0.020		0.020	ug/L	19-JUN-18	3.2
Naphthalene	<0.050		0.050	ug/L	19-JUN-18	11
Phenanthrene	<0.020		0.020	ug/L	19-JUN-18	1
Pyrene	<0.020		0.020	ug/L	19-JUN-18	4.1
Surrogate: d10-Acenaphthene	96.4		60-140	%	19-JUN-18	
Surrogate: d12-Chrysene	98.0		60-140	%	19-JUN-18	
Surrogate: d8-Naphthalene	98.3		60-140	%	19-JUN-18	
Surrogate: d10-Phenanthrene	99.8		60-140	%	19-JUN-18	
L2110762-5 BH104S						
Sampled By: SDB on 11-JUN-18 @ 10:45						
Matrix: WATER						#1
Dissolved Metals						
Dissolved Metals Filtration Location	FIELD			No Unit	13-JUN-18	
Antimony (Sb)-Dissolved	<1.0	DLHC	1.0	ug/L	14-JUN-18	6
Arsenic (As)-Dissolved	<1.0	DLHC	1.0	ug/L	14-JUN-18	25
Barium (Ba)-Dissolved	14.8	DLHC	1.0	ug/L	14-JUN-18	1000
Beryllium (Be)-Dissolved	<1.0	DLHC	1.0	ug/L	14-JUN-18	4
Boron (B)-Dissolved	140	DLHC	100	ug/L	14-JUN-18	5000
Cadmium (Cd)-Dissolved	<0.050	DLHC	0.050	ug/L	14-JUN-18	2.7
Chromium (Cr)-Dissolved	<5.0	DLHC	5.0	ug/L	14-JUN-18	50
Cobalt (Co)-Dissolved	<1.0	DLHC	1.0	ug/L	14-JUN-18	3.8
Copper (Cu)-Dissolved	2.3	DLHC	2.0	ug/L	14-JUN-18	87
Lead (Pb)-Dissolved	<0.50	DLHC	0.50	ug/L	14-JUN-18	10
Molybdenum (Mo)-Dissolved	0.56	DLHC	0.50	ug/L	14-JUN-18	70
Nickel (Ni)-Dissolved	<5.0	DLHC	5.0	ug/L	14-JUN-18	100
Selenium (Se)-Dissolved	<0.50	DLHC	0.50	ug/L	14-JUN-18	10
Silver (Ag)-Dissolved	<0.50	DLHC	0.50	ug/L	14-JUN-18	1.5
Thallium (Tl)-Dissolved	<0.10	DLHC	0.10	ug/L	14-JUN-18	2
Uranium (U)-Dissolved	22.9	DLHC	0.10	ug/L	14-JUN-18	*20
Vanadium (V)-Dissolved	<5.0	DLHC	5.0	ug/L	14-JUN-18	6.2

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2110762-5	BH104S									
Sampled By:	SDB on 11-JUN-18 @ 10:45									
Matrix:	WATER						#1			
Dissolved Metals										
	Zinc (Zn)-Dissolved	<10	DLHC	10	ug/L	14-JUN-18	1100			
L2110762-6	BH113S									
Sampled By:	SDB on 11-JUN-18 @ 09:30									
Matrix:	WATER						#1			
Dissolved Metals										
	Dissolved Metals Filtration Location	FIELD			No Unit	13-JUN-18				
	Antimony (Sb)-Dissolved	<0.10		0.10	ug/L	14-JUN-18	6			
	Arsenic (As)-Dissolved	0.18		0.10	ug/L	14-JUN-18	25			
	Barium (Ba)-Dissolved	39.3		0.10	ug/L	14-JUN-18	1000			
	Beryllium (Be)-Dissolved	<0.10		0.10	ug/L	14-JUN-18	4			
	Boron (B)-Dissolved	48		10	ug/L	14-JUN-18	5000			
	Cadmium (Cd)-Dissolved	0.019		0.010	ug/L	14-JUN-18	2.7			
	Chromium (Cr)-Dissolved	<0.50		0.50	ug/L	14-JUN-18	50			
	Cobalt (Co)-Dissolved	<0.10		0.10	ug/L	14-JUN-18	3.8			
	Copper (Cu)-Dissolved	1.73		0.20	ug/L	14-JUN-18	87			
	Lead (Pb)-Dissolved	<0.050		0.050	ug/L	14-JUN-18	10			
	Molybdenum (Mo)-Dissolved	0.552		0.050	ug/L	14-JUN-18	70			
	Nickel (Ni)-Dissolved	1.35		0.50	ug/L	14-JUN-18	100			
	Selenium (Se)-Dissolved	0.177		0.050	ug/L	14-JUN-18	10			
	Silver (Ag)-Dissolved	<0.050		0.050	ug/L	14-JUN-18	1.5			
	Thallium (Tl)-Dissolved	0.023		0.010	ug/L	14-JUN-18	2			
	Uranium (U)-Dissolved	1.31		0.010	ug/L	14-JUN-18	20			
	Vanadium (V)-Dissolved	<0.50		0.50	ug/L	14-JUN-18	6.2			
	Zinc (Zn)-Dissolved	1.2		1.0	ug/L	14-JUN-18	1100			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
OWP	Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
BTX-511-HS-WT	Water	BTEX by Headspace	SW846 8260 (511)

BTX is determined by analyzing by headspace-GC/MS.

F1-F4-511-CALC-WT	Water	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-L

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Water	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Water	F2-F4-O.Reg 153/04 (July 2011)	EPA 3511/CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, 2001.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MET-D-UG/L-MS-WT	Water	Diss. Metals in Water by ICPMS (ug/L)	EPA 200.8

The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT	Water	PAH-Calculated Parameters	SW846 8270
PAH-511-WT	Water	PAH-O. Reg 153/04 (July 2011)	SW846 3510/8270

Aqueous samples, fortified with surrogates, are extracted using liquid/liquid extraction technique. The sample extracts are concentrated and then analyzed using GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

Reference Information

17-624340

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: SPENCER BUCK

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Water**							
Batch R4082722								
WG2791858-4 DUP		**WG2791858-3**						
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	14-JUN-18
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	14-JUN-18
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	14-JUN-18
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	14-JUN-18
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	14-JUN-18
WG2791858-1 LCS								
Benzene			103.9		%		70-130	13-JUN-18
Ethylbenzene			94.3		%		70-130	13-JUN-18
m+p-Xylenes			101.7		%		70-130	13-JUN-18
o-Xylene			95.8		%		70-130	13-JUN-18
Toluene			99.1		%		70-130	13-JUN-18
WG2791858-2 MB								
Benzene			<0.50		ug/L		0.5	13-JUN-18
Ethylbenzene			<0.50		ug/L		0.5	13-JUN-18
m+p-Xylenes			<0.40		ug/L		0.4	13-JUN-18
o-Xylene			<0.30		ug/L		0.3	13-JUN-18
Toluene			<0.50		ug/L		0.5	13-JUN-18
Surrogate: 1,4-Difluorobenzene			100.9		%		70-130	13-JUN-18
Surrogate: 4-Bromofluorobenzene			100.2		%		70-130	13-JUN-18
WG2791858-5 MS		**WG2791858-3**						
Benzene			104.2		%		50-140	14-JUN-18
Ethylbenzene			93.0		%		50-140	14-JUN-18
m+p-Xylenes			101.2		%		50-140	14-JUN-18
o-Xylene			94.7		%		50-140	14-JUN-18
Toluene			98.4		%		50-140	14-JUN-18
Batch R4083775								
WG2795606-4 DUP		**WG2795606-3**						
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	15-JUN-18
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	15-JUN-18
m+p-Xylenes		1.16	1.20		ug/L	3.4	30	15-JUN-18
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	15-JUN-18
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	15-JUN-18
WG2795606-1 LCS								
Benzene			102.4		%		70-130	14-JUN-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: SPENCER BUCK

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Water**							
Batch R4083775								
WG2795606-1 LCS								
Ethylbenzene			93.2		%		70-130	14-JUN-18
m+p-Xylenes			102.3		%		70-130	14-JUN-18
o-Xylene			94.3		%		70-130	14-JUN-18
Toluene			97.9		%		70-130	14-JUN-18
WG2795606-2 MB								
Benzene			<0.50		ug/L		0.5	15-JUN-18
Ethylbenzene			<0.50		ug/L		0.5	15-JUN-18
m+p-Xylenes			<0.40		ug/L		0.4	15-JUN-18
o-Xylene			<0.30		ug/L		0.3	15-JUN-18
Toluene			<0.50		ug/L		0.5	15-JUN-18
Surrogate: 1,4-Difluorobenzene			98.4		%		70-130	15-JUN-18
Surrogate: 4-Bromofluorobenzene			94.5		%		70-130	15-JUN-18
WG2795606-5 MS		**WG2795606-3**						
Benzene			101.7		%		50-140	15-JUN-18
Ethylbenzene			92.9		%		50-140	15-JUN-18
m+p-Xylenes			103.4		%		50-140	15-JUN-18
o-Xylene			95.3		%		50-140	15-JUN-18
Toluene			96.0		%		50-140	15-JUN-18
F1-HS-511-WT	**Water**							
Batch R4082722								
WG2791858-4 DUP		**WG2791858-3**						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	14-JUN-18
WG2791858-1 LCS								
F1 (C6-C10)			101.6		%		80-120	13-JUN-18
WG2791858-2 MB								
F1 (C6-C10)			<25		ug/L		25	13-JUN-18
Surrogate: 3,4-Dichlorotoluene			99.1		%		60-140	13-JUN-18
WG2791858-5 MS		**WG2791858-3**						
F1 (C6-C10)			96.0		%		60-140	14-JUN-18
Batch R4083775								
WG2795606-4 DUP		**WG2795606-3**						
F1 (C6-C10)		37	36		ug/L	3.5	30	15-JUN-18
WG2795606-1 LCS								
F1 (C6-C10)			101.0		%		80-120	14-JUN-18
WG2795606-2 MB								

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: SPENCER BUCK

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Water**							
Batch R4083775								
WG2795606-2 MB								
F1 (C6-C10)			<25		ug/L		25	15-JUN-18
Surrogate: 3,4-Dichlorotoluene			109.4		%		60-140	15-JUN-18
WG2795606-5 MS		**WG2795606-3**						
F1 (C6-C10)			85.1		%		60-140	15-JUN-18
Batch R4085760								
WG2795612-1 LCS								
F1 (C6-C10)			97.3		%		80-120	15-JUN-18
WG2795612-2 MB								
F1 (C6-C10)			<25		ug/L		25	15-JUN-18
Surrogate: 3,4-Dichlorotoluene			102.9		%		60-140	15-JUN-18
F2-F4-511-WT	**Water**							
Batch R4089410								
WG2799656-2 LCS								
F2 (C10-C16)			103.0		%		70-130	19-JUN-18
F3 (C16-C34)			100.7		%		70-130	19-JUN-18
F4 (C34-C50)			112.1		%		70-130	19-JUN-18
WG2799656-3 LCSD		**WG2799656-2**						
F2 (C10-C16)		103.0	115.1		%	11	50	19-JUN-18
F3 (C16-C34)		100.7	109.4		%	8.3	50	19-JUN-18
F4 (C34-C50)		112.1	124.6		%	11	50	19-JUN-18
WG2799656-1 MB								
F2 (C10-C16)			<100		ug/L		100	19-JUN-18
F3 (C16-C34)			<250		ug/L		250	19-JUN-18
F4 (C34-C50)			<250		ug/L		250	19-JUN-18
Surrogate: 2-Bromobenzotrifluoride			105.2		%		60-140	19-JUN-18
MET-D-UG/L-MS-WT	**Water**							
Batch R4082443								
WG2795553-4 DUP		**WG2795553-3**						
Antimony (Sb)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	14-JUN-18
Arsenic (As)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	14-JUN-18
Barium (Ba)-Dissolved		198	201		ug/L	1.6	20	14-JUN-18
Beryllium (Be)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	14-JUN-18
Boron (B)-Dissolved		130	120		ug/L	1.9	20	14-JUN-18
Cadmium (Cd)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	14-JUN-18
Chromium (Cr)-Dissolved		<5.0	<5.0		ug/L			14-JUN-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: SPENCER BUCK

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R4082443								
WG2795553-4 DUP		**WG2795553-3**						
Chromium (Cr)-Dissolved		<5.0	<5.0	RPD-NA	ug/L	N/A	20	14-JUN-18
Cobalt (Co)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	14-JUN-18
Copper (Cu)-Dissolved		<2.0	<2.0	RPD-NA	ug/L	N/A	20	14-JUN-18
Lead (Pb)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	14-JUN-18
Molybdenum (Mo)-Dissolved		0.94	0.84		ug/L	10	20	14-JUN-18
Nickel (Ni)-Dissolved		<5.0	<5.0	RPD-NA	ug/L	N/A	20	14-JUN-18
Selenium (Se)-Dissolved		2.12	2.09		ug/L	1.6	20	14-JUN-18
Silver (Ag)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	14-JUN-18
Thallium (Tl)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	14-JUN-18
Uranium (U)-Dissolved		0.99	0.93		ug/L	6.2	20	14-JUN-18
Vanadium (V)-Dissolved		<5.0	<5.0	RPD-NA	ug/L	N/A	20	14-JUN-18
Zinc (Zn)-Dissolved		<10	<10	RPD-NA	ug/L	N/A	20	14-JUN-18
WG2795553-2 LCS								
Antimony (Sb)-Dissolved			97.9		%		80-120	14-JUN-18
Arsenic (As)-Dissolved			99.7		%		80-120	14-JUN-18
Barium (Ba)-Dissolved			103.7		%		80-120	14-JUN-18
Beryllium (Be)-Dissolved			100.2		%		80-120	14-JUN-18
Boron (B)-Dissolved			98.9		%		80-120	14-JUN-18
Cadmium (Cd)-Dissolved			97.7		%		80-120	14-JUN-18
Chromium (Cr)-Dissolved			99.1		%		80-120	14-JUN-18
Cobalt (Co)-Dissolved			101.2		%		80-120	14-JUN-18
Copper (Cu)-Dissolved			99.1		%		80-120	14-JUN-18
Lead (Pb)-Dissolved			102.2		%		80-120	14-JUN-18
Molybdenum (Mo)-Dissolved			104.7		%		80-120	14-JUN-18
Nickel (Ni)-Dissolved			100.5		%		80-120	14-JUN-18
Selenium (Se)-Dissolved			99.4		%		80-120	14-JUN-18
Silver (Ag)-Dissolved			98.0		%		80-120	14-JUN-18
Thallium (Tl)-Dissolved			102.0		%		80-120	14-JUN-18
Uranium (U)-Dissolved			99.2		%		80-120	14-JUN-18
Vanadium (V)-Dissolved			101.7		%		80-120	14-JUN-18
Zinc (Zn)-Dissolved			95.2		%		80-120	14-JUN-18
WG2795553-1 MB								
Antimony (Sb)-Dissolved			<0.10		ug/L		0.1	14-JUN-18
Arsenic (As)-Dissolved			<0.10				0.1	

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: SPENCER BUCK

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R4082443								
WG2795553-1 MB								
Arsenic (As)-Dissolved			<0.10		ug/L		0.1	14-JUN-18
Barium (Ba)-Dissolved			<0.10		ug/L		0.1	14-JUN-18
Beryllium (Be)-Dissolved			<0.10		ug/L		0.1	14-JUN-18
Boron (B)-Dissolved			<10		ug/L		10	14-JUN-18
Cadmium (Cd)-Dissolved			<0.0050		ug/L		0.005	14-JUN-18
Chromium (Cr)-Dissolved			<0.50		ug/L		0.5	14-JUN-18
Cobalt (Co)-Dissolved			<0.10		ug/L		0.1	14-JUN-18
Copper (Cu)-Dissolved			<0.20		ug/L		0.2	14-JUN-18
Lead (Pb)-Dissolved			<0.050		ug/L		0.05	14-JUN-18
Molybdenum (Mo)-Dissolved			<0.050		ug/L		0.05	14-JUN-18
Nickel (Ni)-Dissolved			<0.50		ug/L		0.5	14-JUN-18
Selenium (Se)-Dissolved			<0.050		ug/L		0.05	14-JUN-18
Silver (Ag)-Dissolved			<0.050		ug/L		0.05	14-JUN-18
Thallium (Tl)-Dissolved			<0.010		ug/L		0.01	14-JUN-18
Uranium (U)-Dissolved			<0.010		ug/L		0.01	14-JUN-18
Vanadium (V)-Dissolved			<0.50		ug/L		0.5	14-JUN-18
Zinc (Zn)-Dissolved			<1.0		ug/L		1	14-JUN-18
WG2795553-5 MS		**WG2795553-6**						
Antimony (Sb)-Dissolved			103.8		%		70-130	14-JUN-18
Arsenic (As)-Dissolved			98.1		%		70-130	14-JUN-18
Barium (Ba)-Dissolved			N/A	MS-B	%		-	14-JUN-18
Beryllium (Be)-Dissolved			103.5		%		70-130	14-JUN-18
Cadmium (Cd)-Dissolved			97.2		%		70-130	14-JUN-18
Chromium (Cr)-Dissolved			94.8		%		70-130	14-JUN-18
Cobalt (Co)-Dissolved			97.1		%		70-130	14-JUN-18
Copper (Cu)-Dissolved			89.2		%		70-130	14-JUN-18
Lead (Pb)-Dissolved			93.2		%		70-130	14-JUN-18
Molybdenum (Mo)-Dissolved			101.6		%		70-130	14-JUN-18
Nickel (Ni)-Dissolved			95.6		%		70-130	14-JUN-18
Selenium (Se)-Dissolved			95.4		%		70-130	14-JUN-18
Silver (Ag)-Dissolved			93.5		%		70-130	14-JUN-18
Thallium (Tl)-Dissolved			87.7		%		70-130	14-JUN-18
Uranium (U)-Dissolved			N/A	MS-B	%		-	14-JUN-18
Vanadium (V)-Dissolved			104.0		%		70-130	14-JUN-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: SPENCER BUCK

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R4082443								
WG2795553-5 MS		**WG2795553-6**						
Zinc (Zn)-Dissolved			73.7		%		70-130	14-JUN-18
PAH-511-WT	**Water**							
Batch R4089128								
WG2800166-2 LCS								
1-Methylnaphthalene			94.3		%		50-140	19-JUN-18
2-Methylnaphthalene			89.4		%		50-140	19-JUN-18
Acenaphthene			95.8		%		50-140	19-JUN-18
Acenaphthylene			97.6		%		50-140	19-JUN-18
Anthracene			108.1		%		50-140	19-JUN-18
Benzo(a)anthracene			108.3		%		50-140	19-JUN-18
Benzo(a)pyrene			98.2		%		50-140	19-JUN-18
Benzo(b)fluoranthene			93.4		%		50-140	19-JUN-18
Benzo(g,h,i)perylene			100.2		%		50-140	19-JUN-18
Benzo(k)fluoranthene			98.7		%		50-140	19-JUN-18
Chrysene			124.6		%		50-140	19-JUN-18
Dibenzo(ah)anthracene			105.6		%		50-140	19-JUN-18
Fluoranthene			104.6		%		50-140	19-JUN-18
Fluorene			102.4		%		50-140	19-JUN-18
Indeno(1,2,3-cd)pyrene			115.7		%		50-140	19-JUN-18
Naphthalene			96.2		%		50-140	19-JUN-18
Phenanthrene			106.0		%		50-140	19-JUN-18
Pyrene			104.3		%		50-140	19-JUN-18
WG2800166-3 LCSD		**WG2800166-2**						
1-Methylnaphthalene		94.3	101.4		%	7.3	50	19-JUN-18
2-Methylnaphthalene		89.4	96.4		%	7.6	50	19-JUN-18
Acenaphthene		95.8	101.8		%	6.1	50	19-JUN-18
Acenaphthylene		97.6	103.0		%	5.4	50	19-JUN-18
Anthracene		108.1	109.4		%	1.3	50	19-JUN-18
Benzo(a)anthracene		108.3	112.4		%	3.7	50	19-JUN-18
Benzo(a)pyrene		98.2	102.9		%	4.6	50	19-JUN-18
Benzo(b)fluoranthene		93.4	97.7		%	4.4	50	19-JUN-18
Benzo(g,h,i)perylene		100.2	106.8		%	6.3	50	19-JUN-18
Benzo(k)fluoranthene		98.7	106.2		%	7.3	50	19-JUN-18

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: SPENCER BUCK

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Water**							
Batch R4089128								
WG2800166-3 LCSD		**WG2800166-2**						
Chrysene		124.6	131.4		%	5.3	50	19-JUN-18
Dibenzo(ah)anthracene		105.6	112.3		%	6.2	50	19-JUN-18
Fluoranthene		104.6	109.9		%	4.9	50	19-JUN-18
Fluorene		102.4	107.1		%	4.5	50	19-JUN-18
Indeno(1,2,3-cd)pyrene		115.7	122.4		%	5.6	50	19-JUN-18
Naphthalene		96.2	103.0		%	6.9	50	19-JUN-18
Phenanthrene		106.0	111.2		%	4.8	50	19-JUN-18
Pyrene		104.3	109.4		%	4.7	50	19-JUN-18
WG2800166-1 MB								
1-Methylnaphthalene			<0.020		ug/L		0.02	19-JUN-18
2-Methylnaphthalene			<0.020		ug/L		0.02	19-JUN-18
Acenaphthene			<0.020		ug/L		0.02	19-JUN-18
Acenaphthylene			<0.020		ug/L		0.02	19-JUN-18
Anthracene			<0.020		ug/L		0.02	19-JUN-18
Benzo(a)anthracene			<0.020		ug/L		0.02	19-JUN-18
Benzo(a)pyrene			<0.010		ug/L		0.01	19-JUN-18
Benzo(b)fluoranthene			<0.020		ug/L		0.02	19-JUN-18
Benzo(g,h,i)perylene			<0.020		ug/L		0.02	19-JUN-18
Benzo(k)fluoranthene			<0.020		ug/L		0.02	19-JUN-18
Chrysene			<0.020		ug/L		0.02	19-JUN-18
Dibenzo(ah)anthracene			<0.020		ug/L		0.02	19-JUN-18
Fluoranthene			<0.020		ug/L		0.02	19-JUN-18
Fluorene			<0.020		ug/L		0.02	19-JUN-18
Indeno(1,2,3-cd)pyrene			<0.020		ug/L		0.02	19-JUN-18
Naphthalene			<0.050		ug/L		0.05	19-JUN-18
Phenanthrene			<0.020		ug/L		0.02	19-JUN-18
Pyrene			<0.020		ug/L		0.02	19-JUN-18
Surrogate: d8-Naphthalene			92.5		%		60-140	19-JUN-18
Surrogate: d10-Phenanthrene			98.7		%		60-140	19-JUN-18
Surrogate: d12-Chrysene			95.3		%		60-140	19-JUN-18
Surrogate: d10-Acenaphthene			90.4		%		60-140	19-JUN-18

Quality Control Report

Workorder: L2110762 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: SPENCER BUCK

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

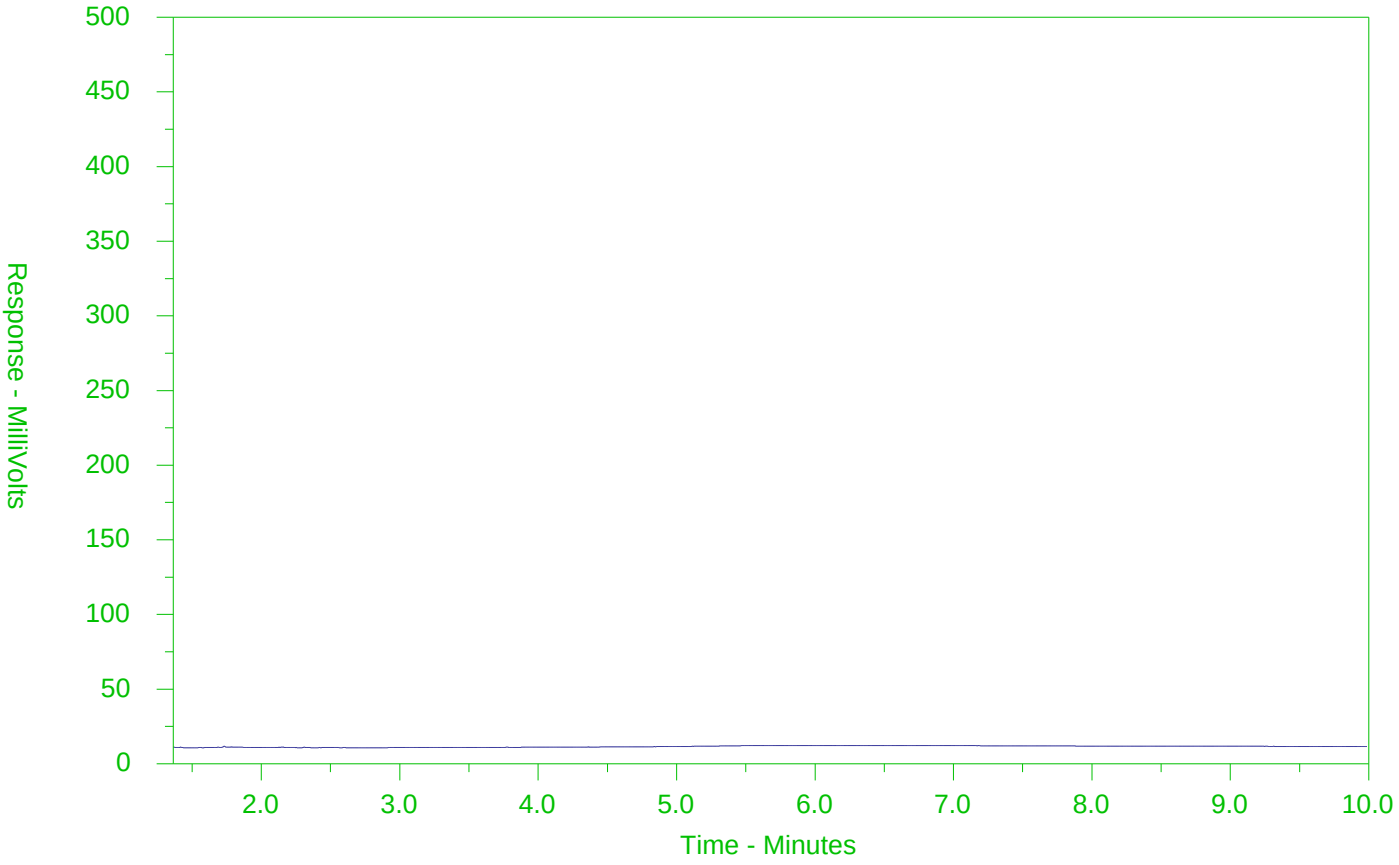
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2110762-1
Client Sample ID: BH6S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

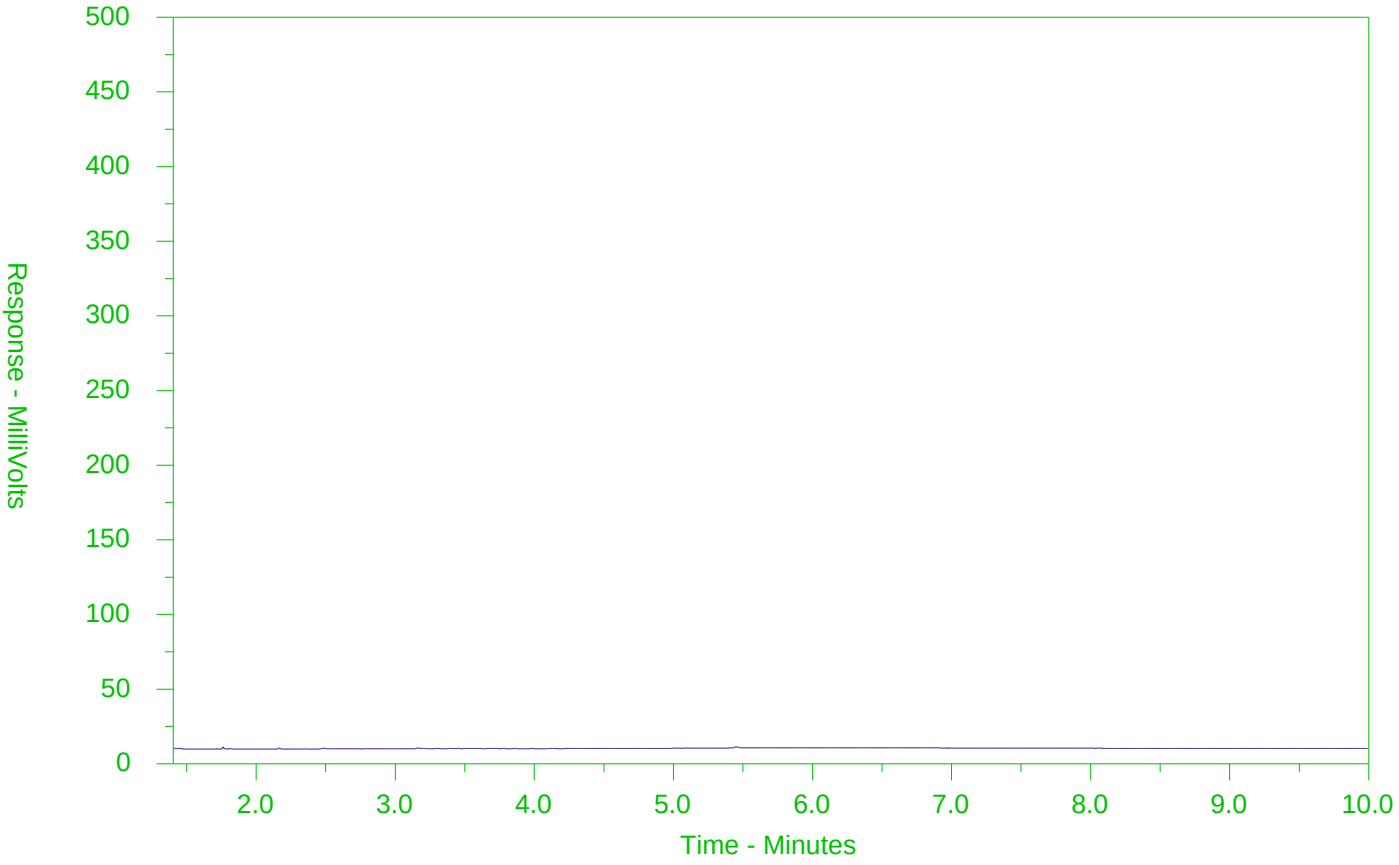
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2110762-2
Client Sample ID: BH12D



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

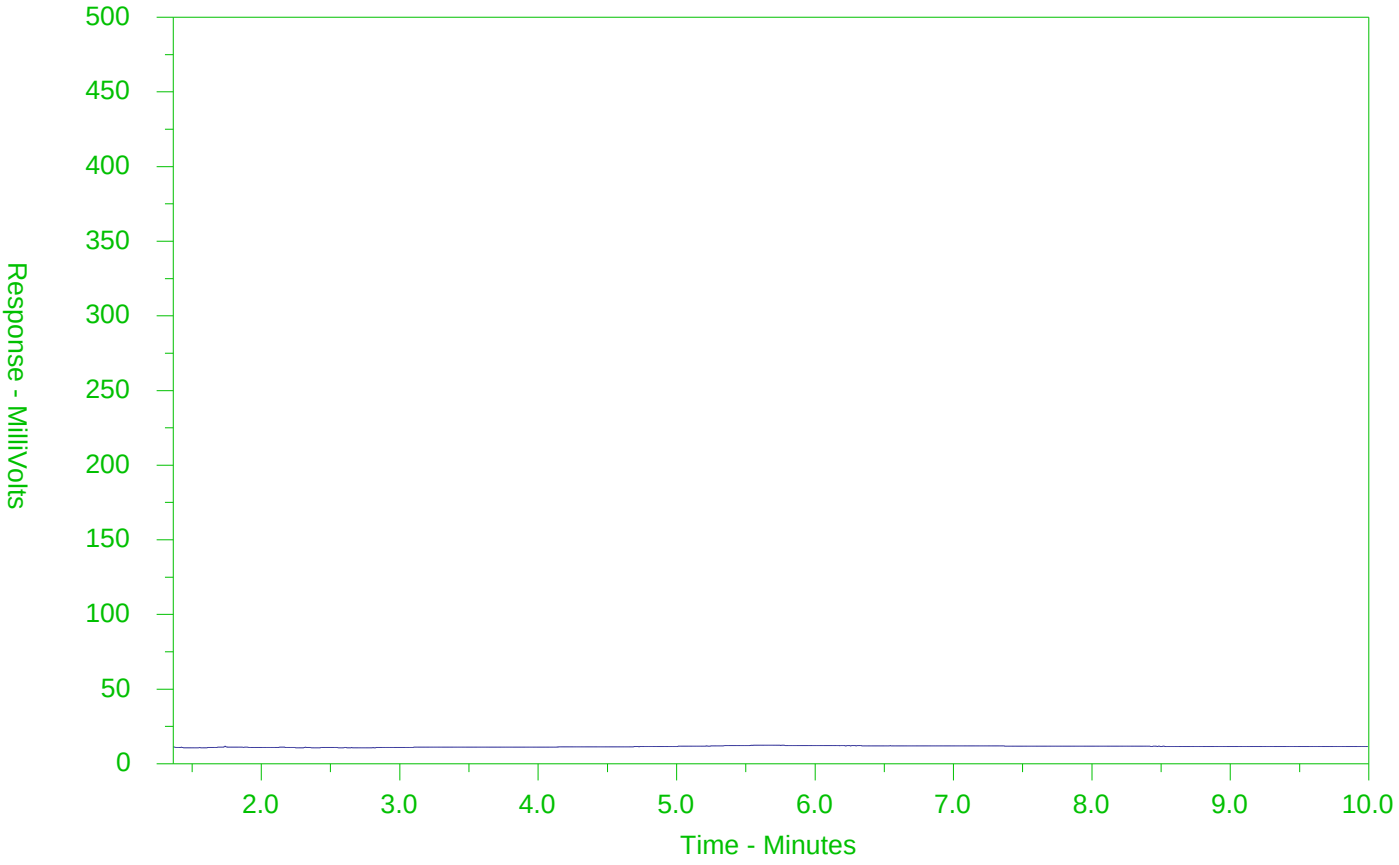
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2110762-3
Client Sample ID: BH13D



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2110762-COFC

COC Number: 17 - 624340

Page 1 of 1

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	MTE Consultants Inc.	Select Report Format: [X] PDF [X] EXCEL [ ] EDD (DIGITAL)	Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	S. Buck	Quality Control (QC) Report with Report [X] YES [ ] NO	PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]
Phone:	905 639 2552	[X] Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E-100%] [ ]; Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] [ ]
	Company address below will appear on the final report	Select Distribution: [X] EMAIL [ ] MAIL [ ] FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:	1016 SUTTON DR, UNIT A	Email 1 or Fax sbuck@mte85.com	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:	BURLINGTON, ON	Email 2 tjones@mte85.com	
Postal Code:	L7L 6B8	Email 3	
Invoice To	Same as Report To [X] YES [ ] NO	**Invoice Distribution**	
	Copy of Invoice with Report [ ] YES [X] NO	Select Invoice Distribution: [X] EMAIL [ ] MAIL [ ] FAX	
Company:		Email 1 or Fax	
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	38934-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): L2110762 RB

ALS Contact: MLP Sampler: SDB

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	P	F/P	P	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
					PHCs F1-F4	Metals	PAHs			
	BH6S	11-Jun-18	11:20	W	X					4
	BH12S		9:30	W	X					4
	BH13D		10:30	W	X					4
	BH101S		9:00	W			X			2
	BH104S		10:45	W		X				1
	BH113S		9:30	W		X				1
	BH120S		10:13	W				X		1

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	Compare to 153/04 Tbl 2 M/F
Are samples for human consumption/ use? [ ] YES [X] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen [ ] SIF Observations Yes [ ] No [X]
Ice Packs [ ] Ice Cubes [X] Custody seal intact Yes [ ] No [ ]
Cooling Initiated [X]

INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C
3.2°C	2.4°

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: S Buck	Date: 06/11/18	Time: 14:20	Received by: C.Kucharakka	Date: 11/JUNE/2018	Time: 14:20	Received by:	Date: June 12th	Time: 16:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

[1] If samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

MTE CONSULTANTS INC.
ATTN: Spencer Buck
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8

Date Received: 22-JUN-18
Report Date: 28-JUN-18 12:42 (MT)
Version: FINAL

Client Phone: 905-639-2552

Certificate of Analysis

Lab Work Order #: L2118439

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-100
C of C Numbers: 17-624665
Legal Site Desc:

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2118439-1 BH13D						
Sampled By: SDB on 22-JUN-18 @ 13:00						
Matrix: WATER						#1
Volatile Organic Compounds						
Benzene	<0.50		0.50	ug/L	27-JUN-18	5
Ethylbenzene	<0.50		0.50	ug/L	27-JUN-18	2.4
Toluene	0.53		0.50	ug/L	27-JUN-18	24
o-Xylene	<0.30		0.30	ug/L	27-JUN-18	
m+p-Xylenes	<0.40		0.40	ug/L	27-JUN-18	
Xylenes (Total)	<0.50		0.50	ug/L	27-JUN-18	300
Surrogate: 4-Bromofluorobenzene	100.6		70-130	%	27-JUN-18	
Surrogate: 1,4-Difluorobenzene	103.5		70-130	%	27-JUN-18	
Hydrocarbons						
F1 (C6-C10)	<25		25	ug/L	27-JUN-18	750
F1-BTEX	<25		25	ug/L	28-JUN-18	750
F2 (C10-C16)	<100		100	ug/L	27-JUN-18	150
F3 (C16-C34)	<250		250	ug/L	27-JUN-18	500
F4 (C34-C50)	<250		250	ug/L	27-JUN-18	500
Total Hydrocarbons (C6-C50)	<370		370	ug/L	28-JUN-18	
Chrom. to baseline at nC50	YES			No Unit	27-JUN-18	
Surrogate: 2-Bromobenzotrifluoride	85.5		60-140	%	27-JUN-18	
Surrogate: 3,4-Dichlorotoluene	86.9		60-140	%	27-JUN-18	
L2118439-3 BH213S						
Sampled By: SDB on 22-JUN-18 @ 12:00						
Matrix: WATER						#1
Volatile Organic Compounds						
Benzene	<0.50		0.50	ug/L	27-JUN-18	5
Ethylbenzene	<0.50		0.50	ug/L	27-JUN-18	2.4
Toluene	1.15		0.50	ug/L	27-JUN-18	24
o-Xylene	<0.30		0.30	ug/L	27-JUN-18	
m+p-Xylenes	<0.40		0.40	ug/L	27-JUN-18	
Xylenes (Total)	<0.50		0.50	ug/L	27-JUN-18	300
Surrogate: 4-Bromofluorobenzene	100.3		70-130	%	27-JUN-18	
Surrogate: 1,4-Difluorobenzene	104.6		70-130	%	27-JUN-18	
Hydrocarbons						
F1 (C6-C10)	<25		25	ug/L	27-JUN-18	750
F1-BTEX	<25		25	ug/L	28-JUN-18	750
F2 (C10-C16)	<100		100	ug/L	27-JUN-18	150
F3 (C16-C34)	<250		250	ug/L	27-JUN-18	500
F4 (C34-C50)	<250		250	ug/L	27-JUN-18	500
Total Hydrocarbons (C6-C50)	<370		370	ug/L	28-JUN-18	
Chrom. to baseline at nC50	YES			No Unit	27-JUN-18	
Surrogate: 2-Bromobenzotrifluoride	69.4		60-140	%	27-JUN-18	
Surrogate: 3,4-Dichlorotoluene	88.2		60-140	%	27-JUN-18	

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Ground Water (Fine Soil)-All Types of Property Use

#1: T2-Ground Water (Fine Soil)-All Types of Property Use

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
BTX-511-HS-WT	Water	BTEX by Headspace	SW846 8260 (511)

BTX is determined by analyzing by headspace-GC/MS.

F1-F4-511-CALC-WT	Water	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-L

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Water	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Water	F2-F4-O.Reg 153/04 (July 2011)	EPA 3511/CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, 2001.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

17-624665

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2118439 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Water**							
Batch R4098184								
WG2807412-4 DUP		**WG2807412-3**						
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-JUN-18
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-JUN-18
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	27-JUN-18
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	27-JUN-18
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	27-JUN-18
WG2807412-1 LCS								
Benzene			102.8		%		70-130	27-JUN-18
Ethylbenzene			89.5		%		70-130	27-JUN-18
m+p-Xylenes			101.4		%		70-130	27-JUN-18
o-Xylene			98.6		%		70-130	27-JUN-18
Toluene			96.2		%		70-130	27-JUN-18
WG2807412-2 MB								
Benzene			<0.50		ug/L		0.5	27-JUN-18
Ethylbenzene			<0.50		ug/L		0.5	27-JUN-18
m+p-Xylenes			<0.40		ug/L		0.4	27-JUN-18
o-Xylene			<0.30		ug/L		0.3	27-JUN-18
Toluene			<0.50		ug/L		0.5	27-JUN-18
Surrogate: 1,4-Difluorobenzene			104.4		%		70-130	27-JUN-18
Surrogate: 4-Bromofluorobenzene			104.0		%		70-130	27-JUN-18
WG2807412-5 MS		**WG2807412-3**						
Benzene			103.2		%		50-140	27-JUN-18
Ethylbenzene			86.8		%		50-140	27-JUN-18
m+p-Xylenes			99.9		%		50-140	27-JUN-18
o-Xylene			96.0		%		50-140	27-JUN-18
Toluene			94.8		%		50-140	27-JUN-18
F1-HS-511-WT	**Water**							
Batch R4098184								
WG2807412-4 DUP		**WG2807412-3**						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	27-JUN-18
WG2807412-1 LCS								
F1 (C6-C10)			100.6		%		80-120	27-JUN-18
WG2807412-2 MB								
F1 (C6-C10)			<25		ug/L		25	27-JUN-18
Surrogate: 3,4-Dichlorotoluene			102.4		%		60-140	27-JUN-18
WG2807412-5 MS		**WG2807412-3**						

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Water**							
Batch R4098184								
WG2807412-5 MS		**WG2807412-3**						
F1 (C6-C10)			94.2		%		60-140	27-JUN-18
F2-F4-511-WT	**Water**							
Batch R4098524								
WG2808010-2 LCS								
F2 (C10-C16)			89.5		%		70-130	27-JUN-18
F3 (C16-C34)			93.5		%		70-130	27-JUN-18
F4 (C34-C50)			102.1		%		70-130	27-JUN-18
WG2808010-3 LCSD		**WG2808010-2**						
F2 (C10-C16)		89.5	98.1		%	9.2	50	27-JUN-18
F3 (C16-C34)		93.5	96.4		%	3.1	50	27-JUN-18
F4 (C34-C50)		102.1	106.9		%	4.6	50	27-JUN-18
WG2808010-1 MB								
F2 (C10-C16)			<100		ug/L		100	27-JUN-18
F3 (C16-C34)			<250		ug/L		250	27-JUN-18
F4 (C34-C50)			<250		ug/L		250	27-JUN-18
Surrogate: 2-Bromobenzotrifluoride			77.5		%		60-140	27-JUN-18

Quality Control Report

Workorder: L2118439 Report Date: 02-MAY-19

Client: MTE CONSULTANTS INC.
1016 Sutton Drive, Unit A
Burlington ON L7L 6B8
Contact: Spencer Buck

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

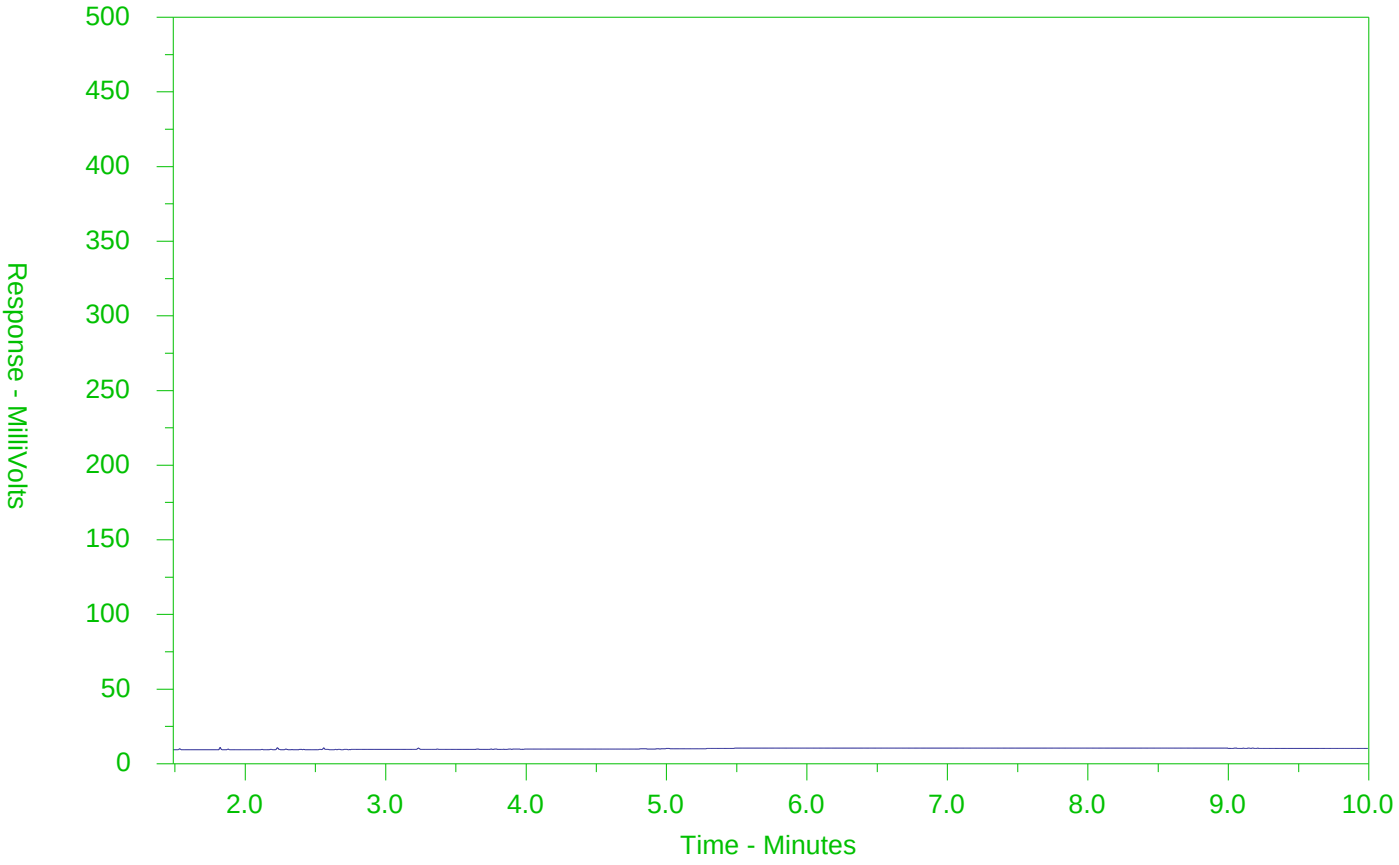
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

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Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2118439-1
Client Sample ID: BH13D



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

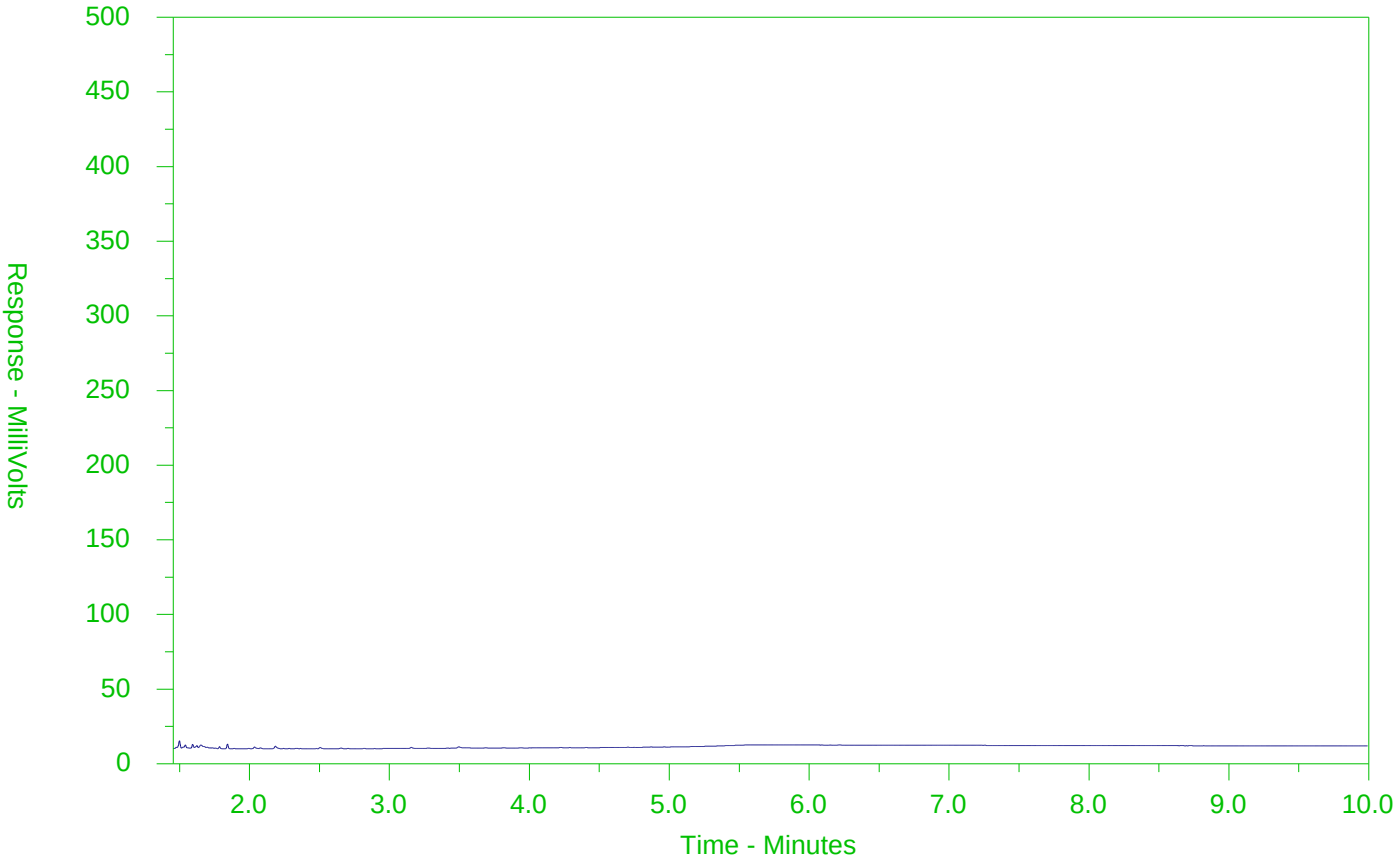
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2118439-3
Client Sample ID: BH213S



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
←Diesel/Jet Fuels→			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2118439-COFC

COC Number: 17 - 624665

Page 1 of 1

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	MIE Consultants Inc.	Select Report Format: [X] PDF [X] EXCEL [X] EDD (DIGITAL)	Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	S. Buck	Quality Control (QC) Report with Report [X] YES [ ] NO	PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]
Phone:	905 639 2552	[X] Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E-100%] [ ]; Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] [ ]
	Company address below will appear on the final report	Select Distribution: [X] EMAIL [ ] MAIL [ ] FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:	1016 Sutton Dr, Unit A	Email 1 or Fax sbuck@mie85.com	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:	Burlington, ON	Email 2 tjones@mie85.com	
Postal Code:	L7L 6B8	Email 3	

Invoice To		Invoice Distribution
	Same as Report To [X] YES [ ] NO	Select Invoice Distribution: [X] EMAIL [ ] MAIL [ ] FAX
	Copy of Invoice with Report [ ] YES [X] NO	
Company:		Email 1 or Fax
Contact:		Email 2

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	38934-100	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): L2118439 — ALS Contact: MLP — Sampler: SDB

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	PHC F1 (include F1-BTEX)	PHC F2-F4	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
	BH13D	22-Jun-18	13:00	W	X	X			4
	BH11BD	"	11:30	W			X		4
	BH2135	"	12:00	W	X	X			4

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? [ ] YES [X] NO	Compare to O.Reg 153/04 Tbl 2 M/F
Are samples for human consumption/ use? [ ] YES [X] NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	[ ]	SIF Observations	Yes [ ]	No	[X]
Ice Packs [ ] Ice Cubes [X]		Custody seal intact	Yes [ ]	No	[ ]
Cooling Initiated [X]					

INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C
3.5°C	-0.7

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date: 06/22/18	Time: 13:45	Received by: C.Kachorakka	Date: 22-Jun-2018	Time: 13:45	Received by: AP	Date: 25-6-18	Time: 15:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Your Project #: 38934-100
Your C.O.C. #: 762543-01-01

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2020/03/12
Report #: R6107881
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C060962
Received: 2020/03/05, 17:10

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
1,3-Dichloropropene Sum	3	N/A	2020/03/10		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1)	2	2020/03/11	2020/03/12	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	1	N/A	2020/03/09	CAM SOP-00447	EPA 6020B m
Volatile Organic Compounds and F1 PHCs	2	N/A	2020/03/09	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds in Water	1	N/A	2020/03/10	CAM SOP-00228	EPA 8260C m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Your Project #: 38934-100
Your C.O.C. #: 762543-01-01

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2020/03/12
Report #: R6107881
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C060962
Received: 2020/03/05, 17:10

Encryption Key



Deepthi Shaji
Project Manager
12 Mar 2020 17:02:55

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bvlabs.com
Phone# (905)817-5752

==========

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: C060962
Report Date: 2020/03/12

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: ADP

O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (WATER)

BV Labs ID			MEI622		
Sampling Date			2020/03/05 10:30		
COC Number			762543-01-01		
	UNITS	**Criteria**	**BH211S**	**RDL**	**QC Batch**
Metals					
Dissolved Antimony (Sb)	ug/L	6.0	<0.50	0.50	6624526
Dissolved Arsenic (As)	ug/L	25	3.0	1.0	6624526
Dissolved Barium (Ba)	ug/L	1000	19	2.0	6624526
Dissolved Beryllium (Be)	ug/L	4.0	<0.50	0.50	6624526
Dissolved Boron (B)	ug/L	5000	270	10	6624526
Dissolved Cadmium (Cd)	ug/L	2.7	<0.10	0.10	6624526
Dissolved Chromium (Cr)	ug/L	50	<5.0	5.0	6624526
Dissolved Cobalt (Co)	ug/L	3.8	<0.50	0.50	6624526
Dissolved Copper (Cu)	ug/L	87	2.6	1.0	6624526
Dissolved Lead (Pb)	ug/L	10	<0.50	0.50	6624526
Dissolved Molybdenum (Mo)	ug/L	70	1.4	0.50	6624526
Dissolved Nickel (Ni)	ug/L	100	<1.0	1.0	6624526
Dissolved Selenium (Se)	ug/L	10	<2.0	2.0	6624526
Dissolved Silver (Ag)	ug/L	1.5	<0.10	0.10	6624526
Dissolved Thallium (Tl)	ug/L	2.0	<0.050	0.050	6624526
Dissolved Uranium (U)	ug/L	20	7.1	0.10	6624526
Dissolved Vanadium (V)	ug/L	6.2	0.57	0.50	6624526
Dissolved Zinc (Zn)	ug/L	1100	<5.0	5.0	6624526

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS & F1-F4 (WATER)

BV Labs ID			MEI620	MEI621			MEI621		
Sampling Date			2020/03/05 11:30	2020/03/05 11:30			2020/03/05 11:30		
COC Number			762543-01-01	762543-01-01			762543-01-01		
	UNITS	**Criteria**	**MW302S**	**MW1302S**	**RDL**	**QC Batch**	**MW1302S Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	<0.50	0.50	6622564			
Volatile Organics									
Acetone (2-Propanone)	ug/L	2700	<10	<10	10	6623653			
Benzene	ug/L	5.0	<0.20	<0.20	0.20	6623653			
Bromodichloromethane	ug/L	16.0	<0.50	<0.50	0.50	6623653			
Bromoform	ug/L	25.0	<1.0	<1.0	1.0	6623653			
Bromomethane	ug/L	0.89	<0.50	<0.50	0.50	6623653			
Carbon Tetrachloride	ug/L	5.0	<0.20	<0.20	0.20	6623653			
Chlorobenzene	ug/L	30	<0.20	<0.20	0.20	6623653			
Chloroform	ug/L	22	<0.20	<0.20	0.20	6623653			
Dibromochloromethane	ug/L	25.0	<0.50	<0.50	0.50	6623653			
1,2-Dichlorobenzene	ug/L	3.0	<0.50	<0.50	0.50	6623653			
1,3-Dichlorobenzene	ug/L	59	<0.50	<0.50	0.50	6623653			
1,4-Dichlorobenzene	ug/L	1.0	<0.50	<0.50	0.50	6623653			
Dichlorodifluoromethane (FREON 12)	ug/L	590	<1.0	<1.0	1.0	6623653			
1,1-Dichloroethane	ug/L	5	<0.20	<0.20	0.20	6623653			
1,2-Dichloroethane	ug/L	5	<0.50	<0.50	0.50	6623653			
1,1-Dichloroethylene	ug/L	14	<0.20	<0.20	0.20	6623653			
cis-1,2-Dichloroethylene	ug/L	17	<0.50	<0.50	0.50	6623653			
trans-1,2-Dichloroethylene	ug/L	17	<0.50	<0.50	0.50	6623653			
1,2-Dichloropropane	ug/L	5.0	<0.20	<0.20	0.20	6623653			
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	<0.30	0.30	6623653			
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	<0.40	0.40	6623653			
Ethylbenzene	ug/L	2.4	<0.20	<0.20	0.20	6623653			
Ethylene Dibromide	ug/L	0.2	<0.20	<0.20	0.20	6623653			
Hexane	ug/L	520	<1.0	<1.0	1.0	6623653			
Methylene Chloride(Dichloromethane)	ug/L	50	<2.0	<2.0	2.0	6623653			
Methyl Ethyl Ketone (2-Butanone)	ug/L	1800	<10	<10	10	6623653			

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS & F1-F4 (WATER)

BV Labs ID			MEI620	MEI621			MEI621		
Sampling Date			2020/03/05 11:30	2020/03/05 11:30			2020/03/05 11:30		
COC Number			762543-01-01	762543-01-01			762543-01-01		
	UNITS	**Criteria**	**MW302S**	**MW1302S**	**RDL**	**QC Batch**	**MW1302S Lab-Dup**	**RDL**	**QC Batch**
Methyl Isobutyl Ketone	ug/L	640	<5.0	<5.0	5.0	6623653			
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	<0.50	0.50	6623653			
Styrene	ug/L	5.4	<0.50	<0.50	0.50	6623653			
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	<0.50	0.50	6623653			
1,1,2,2-Tetrachloroethane	ug/L	1.0	<0.50	<0.50	0.50	6623653			
Tetrachloroethylene	ug/L	17	<0.20	<0.20	0.20	6623653			
Toluene	ug/L	24	0.39	0.33	0.20	6623653			
1,1,1-Trichloroethane	ug/L	200	<0.20	<0.20	0.20	6623653			
1,1,2-Trichloroethane	ug/L	5	<0.50	<0.50	0.50	6623653			
Trichloroethylene	ug/L	5	<0.20	<0.20	0.20	6623653			
Trichlorofluoromethane (FREON 11)	ug/L	150	<0.50	<0.50	0.50	6623653			
Vinyl Chloride	ug/L	1.7	<0.20	<0.20	0.20	6623653			
p+m-Xylene	ug/L	-	<0.20	<0.20	0.20	6623653			
o-Xylene	ug/L	-	<0.20	<0.20	0.20	6623653			
Total Xylenes	ug/L	300	<0.20	<0.20	0.20	6623653			
F1 (C6-C10)	ug/L	750	<25	<25	25	6623653			
F1 (C6-C10) - BTEX	ug/L	750	<25	<25	25	6623653			
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	150	<100	<100	100	6630877	<100	100	6630877
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	<200	200	6630877	<200	200	6630877
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	<200	200	6630877	<200	200	6630877
Reached Baseline at C50	ug/L	-	Yes	Yes		6630877	Yes		6630877
Surrogate Recovery (%)									
o-Terphenyl	%	-	109	110		6630877	110		6630877
4-Bromofluorobenzene	%	-	90	90		6623653			
D4-1,2-Dichloroethane	%	-	97	97		6623653			
D8-Toluene	%	-	101	102		6623653			

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS (WATER)

BV Labs ID			MEI623		
Sampling Date			2020/03/05		
COC Number			762543-01-01		
	UNITS	**Criteria**	**TRIP BLANK**	**RDL**	**QC Batch**
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	0.50	6622564
Volatile Organics					
Acetone (2-Propanone)	ug/L	2700	<10	10	6623014
Benzene	ug/L	5.0	<0.20	0.20	6623014
Bromodichloromethane	ug/L	16.0	<0.50	0.50	6623014
Bromoform	ug/L	25.0	<1.0	1.0	6623014
Bromomethane	ug/L	0.89	<0.50	0.50	6623014
Carbon Tetrachloride	ug/L	5.0	<0.20	0.20	6623014
Chlorobenzene	ug/L	30	<0.20	0.20	6623014
Chloroform	ug/L	22	<0.20	0.20	6623014
Dibromochloromethane	ug/L	25.0	<0.50	0.50	6623014
1,2-Dichlorobenzene	ug/L	3.0	<0.50	0.50	6623014
1,3-Dichlorobenzene	ug/L	59	<0.50	0.50	6623014
1,4-Dichlorobenzene	ug/L	1.0	<0.50	0.50	6623014
Dichlorodifluoromethane (FREON 12)	ug/L	590	<1.0	1.0	6623014
1,1-Dichloroethane	ug/L	5	<0.20	0.20	6623014
1,2-Dichloroethane	ug/L	5	<0.50	0.50	6623014
1,1-Dichloroethylene	ug/L	14	<0.20	0.20	6623014
cis-1,2-Dichloroethylene	ug/L	17	<0.50	0.50	6623014
trans-1,2-Dichloroethylene	ug/L	17	<0.50	0.50	6623014
1,2-Dichloropropane	ug/L	5.0	<0.20	0.20	6623014
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	0.30	6623014
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	0.40	6623014
Ethylbenzene	ug/L	2.4	<0.20	0.20	6623014
Ethylene Dibromide	ug/L	0.2	<0.20	0.20	6623014
Hexane	ug/L	520	<1.0	1.0	6623014
Methylene Chloride(Dichloromethane)	ug/L	50	<2.0	2.0	6623014
Methyl Ethyl Ketone (2-Butanone)	ug/L	1800	<10	10	6623014

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: C060962
Report Date: 2020/03/12

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS (WATER)

BV Labs ID			MEI623		
Sampling Date			2020/03/05		
COC Number			762543-01-01		
	UNITS	**Criteria**	**TRIP BLANK**	**RDL**	**QC Batch**
Methyl Isobutyl Ketone	ug/L	640	<5.0	5.0	6623014
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	0.50	6623014
Styrene	ug/L	5.4	<0.50	0.50	6623014
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	0.50	6623014
1,1,2,2-Tetrachloroethane	ug/L	1.0	<0.50	0.50	6623014
Tetrachloroethylene	ug/L	17	<0.20	0.20	6623014
Toluene	ug/L	24	<0.20	0.20	6623014
1,1,1-Trichloroethane	ug/L	200	<0.20	0.20	6623014
1,1,2-Trichloroethane	ug/L	5	<0.50	0.50	6623014
Trichloroethylene	ug/L	5	<0.20	0.20	6623014
Trichlorofluoromethane (FREON 11)	ug/L	150	<0.50	0.50	6623014
Vinyl Chloride	ug/L	1.7	<0.20	0.20	6623014
p+m-Xylene	ug/L	-	<0.20	0.20	6623014
o-Xylene	ug/L	-	<0.20	0.20	6623014
Total Xylenes	ug/L	300	<0.20	0.20	6623014
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	-	95		6623014
D4-1,2-Dichloroethane	%	-	112		6623014
D8-Toluene	%	-	90		6623014

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

BV Labs ID: MEI620
Sample ID: MW302S
Matrix: Water

Collected: 2020/03/05
Shipped:
Received: 2020/03/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6622564	N/A	2020/03/10	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6630877	2020/03/11	2020/03/12	Prabhjot Gulati
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6623653	N/A	2020/03/09	Xueming Jiang

BV Labs ID: MEI621
Sample ID: MW1302S
Matrix: Water

Collected: 2020/03/05
Shipped:
Received: 2020/03/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6622564	N/A	2020/03/10	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6630877	2020/03/11	2020/03/12	Prabhjot Gulati
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6623653	N/A	2020/03/09	Xueming Jiang

BV Labs ID: MEI621 Dup
Sample ID: MW1302S
Matrix: Water

Collected: 2020/03/05
Shipped:
Received: 2020/03/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6630877	2020/03/11	2020/03/12	Prabhjot Gulati

BV Labs ID: MEI622
Sample ID: BH211S
Matrix: Water

Collected: 2020/03/05
Shipped:
Received: 2020/03/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	6624526	N/A	2020/03/09	Arefa Dabhad

BV Labs ID: MEI623
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2020/03/05
Shipped:
Received: 2020/03/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6622564	N/A	2020/03/10	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	6623014	N/A	2020/03/10	Blair Gannon

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.3°C

Results relate only to the items tested.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: C060962
Report Date: 2020/03/12

QUALITY ASSURANCE REPORT

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: ADP

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
6623014	4-Bromofluorobenzene	2020/03/09	104	70 - 130	103	70 - 130	99	%		
6623014	D4-1,2-Dichloroethane	2020/03/09	101	70 - 130	95	70 - 130	107	%		
6623014	D8-Toluene	2020/03/09	102	70 - 130	105	70 - 130	90	%		
6623653	4-Bromofluorobenzene	2020/03/09	98	70 - 130	97	70 - 130	91	%		
6623653	D4-1,2-Dichloroethane	2020/03/09	100	70 - 130	100	70 - 130	97	%		
6623653	D8-Toluene	2020/03/09	102	70 - 130	101	70 - 130	102	%		
6630877	o-Terphenyl	2020/03/12	112	60 - 130	114	60 - 130	106	%		
6623014	1,1,1,2-Tetrachloroethane	2020/03/09	101	70 - 130	103	70 - 130	<0.50	ug/L		
6623014	1,1,1-Trichloroethane	2020/03/09	90	70 - 130	97	70 - 130	<0.20	ug/L		
6623014	1,1,2,2-Tetrachloroethane	2020/03/09	103	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
6623014	1,1,2-Trichloroethane	2020/03/09	100	70 - 130	97	70 - 130	<0.50	ug/L		
6623014	1,1-Dichloroethane	2020/03/09	90	70 - 130	94	70 - 130	<0.20	ug/L		
6623014	1,1-Dichloroethylene	2020/03/09	92	70 - 130	100	70 - 130	<0.20	ug/L		
6623014	1,2-Dichlorobenzene	2020/03/09	89	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
6623014	1,2-Dichloroethane	2020/03/09	98	70 - 130	96	70 - 130	<0.50	ug/L		
6623014	1,2-Dichloropropane	2020/03/09	89	70 - 130	90	70 - 130	<0.20	ug/L		
6623014	1,3-Dichlorobenzene	2020/03/09	87	70 - 130	94	70 - 130	<0.50	ug/L		
6623014	1,4-Dichlorobenzene	2020/03/09	93	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
6623014	Acetone (2-Propanone)	2020/03/09	103	60 - 140	92	60 - 140	<10	ug/L		
6623014	Benzene	2020/03/09	92	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
6623014	Bromodichloromethane	2020/03/09	94	70 - 130	94	70 - 130	<0.50	ug/L		
6623014	Bromoform	2020/03/09	104	70 - 130	99	70 - 130	<1.0	ug/L		
6623014	Bromomethane	2020/03/09	88	60 - 140	91	60 - 140	<0.50	ug/L		
6623014	Carbon Tetrachloride	2020/03/09	88	70 - 130	96	70 - 130	<0.20	ug/L		
6623014	Chlorobenzene	2020/03/09	91	70 - 130	95	70 - 130	<0.20	ug/L		
6623014	Chloroform	2020/03/09	86	70 - 130	89	70 - 130	<0.20	ug/L	NC	30
6623014	cis-1,2-Dichloroethylene	2020/03/09	88	70 - 130	91	70 - 130	<0.50	ug/L	NC	30
6623014	cis-1,3-Dichloropropene	2020/03/09	92	70 - 130	87	70 - 130	<0.30	ug/L		
6623014	Dibromochloromethane	2020/03/09	102	70 - 130	100	70 - 130	<0.50	ug/L		
6623014	Dichlorodifluoromethane (FREON 12)	2020/03/09	91	60 - 140	99	60 - 140	<1.0	ug/L		
6623014	Ethylbenzene	2020/03/09	88	70 - 130	95	70 - 130	<0.20	ug/L	NC	30

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
6623014	Ethylene Dibromide	2020/03/09	101	70 - 130	97	70 - 130	<0.20	ug/L		
6623014	Hexane	2020/03/09	96	70 - 130	105	70 - 130	<1.0	ug/L		
6623014	Methyl Ethyl Ketone (2-Butanone)	2020/03/09	108	60 - 140	95	60 - 140	<10	ug/L		
6623014	Methyl Isobutyl Ketone	2020/03/09	110	70 - 130	98	70 - 130	<5.0	ug/L		
6623014	Methyl t-butyl ether (MTBE)	2020/03/09	87	70 - 130	87	70 - 130	<0.50	ug/L		
6623014	Methylene Chloride(Dichloromethane)	2020/03/09	88	70 - 130	90	70 - 130	<2.0	ug/L	NC	30
6623014	o-Xylene	2020/03/09	88	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
6623014	p+m-Xylene	2020/03/09	98	70 - 130	106	70 - 130	<0.20	ug/L	NC	30
6623014	Styrene	2020/03/09	97	70 - 130	104	70 - 130	<0.50	ug/L		
6623014	Tetrachloroethylene	2020/03/09	84	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
6623014	Toluene	2020/03/09	90	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
6623014	Total Xylenes	2020/03/09					<0.20	ug/L	NC	30
6623014	trans-1,2-Dichloroethylene	2020/03/09	89	70 - 130	97	70 - 130	<0.50	ug/L		
6623014	trans-1,3-Dichloropropene	2020/03/09	98	70 - 130	89	70 - 130	<0.40	ug/L	NC	30
6623014	Trichloroethylene	2020/03/09	93	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
6623014	Trichlorofluoromethane (FREON 11)	2020/03/09	91	70 - 130	100	70 - 130	<0.50	ug/L		
6623014	Vinyl Chloride	2020/03/09	88	70 - 130	96	70 - 130	<0.20	ug/L		
6623653	1,1,1,2-Tetrachloroethane	2020/03/09	100	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
6623653	1,1,1-Trichloroethane	2020/03/09	98	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
6623653	1,1,2,2-Tetrachloroethane	2020/03/09	99	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
6623653	1,1,2-Trichloroethane	2020/03/09	98	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
6623653	1,1-Dichloroethane	2020/03/09	99	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
6623653	1,1-Dichloroethylene	2020/03/09	108	70 - 130	112	70 - 130	<0.20	ug/L	NC	30
6623653	1,2-Dichlorobenzene	2020/03/09	97	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
6623653	1,2-Dichloroethane	2020/03/09	99	70 - 130	104	70 - 130	<0.50	ug/L	NC	30
6623653	1,2-Dichloropropane	2020/03/09	91	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
6623653	1,3-Dichlorobenzene	2020/03/09	100	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
6623653	1,4-Dichlorobenzene	2020/03/09	109	70 - 130	112	70 - 130	<0.50	ug/L	NC	30
6623653	Acetone (2-Propanone)	2020/03/09	99	60 - 140	105	60 - 140	<10	ug/L	NC	30
6623653	Benzene	2020/03/09	96	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
6623653	Bromodichloromethane	2020/03/09	96	70 - 130	100	70 - 130	<0.50	ug/L	NC	30

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
6623653	Bromoform	2020/03/09	93	70 - 130	100	70 - 130	<1.0	ug/L	NC	30
6623653	Bromomethane	2020/03/09	91	60 - 140	100	60 - 140	<0.50	ug/L	NC	30
6623653	Carbon Tetrachloride	2020/03/09	98	70 - 130	101	70 - 130	<0.20	ug/L	NC	30
6623653	Chlorobenzene	2020/03/09	94	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
6623653	Chloroform	2020/03/09	93	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
6623653	cis-1,2-Dichloroethylene	2020/03/09	93	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
6623653	cis-1,3-Dichloropropene	2020/03/09	85	70 - 130	94	70 - 130	<0.30	ug/L	NC	30
6623653	Dibromochloromethane	2020/03/09	100	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
6623653	Dichlorodifluoromethane (FREON 12)	2020/03/09	117	60 - 140	120	60 - 140	<1.0	ug/L	NC	30
6623653	Ethylbenzene	2020/03/09	96	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
6623653	Ethylene Dibromide	2020/03/09	97	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
6623653	F1 (C6-C10) - BTEX	2020/03/09					<25	ug/L	NC	30
6623653	F1 (C6-C10)	2020/03/09	97	60 - 140	97	60 - 140	<25	ug/L	NC	30
6623653	Hexane	2020/03/09	107	70 - 130	110	70 - 130	<1.0	ug/L	NC	30
6623653	Methyl Ethyl Ketone (2-Butanone)	2020/03/09	94	60 - 140	101	60 - 140	<10	ug/L	NC	30
6623653	Methyl Isobutyl Ketone	2020/03/09	87	70 - 130	94	70 - 130	<5.0	ug/L	NC	30
6623653	Methyl t-butyl ether (MTBE)	2020/03/09	89	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
6623653	Methylene Chloride(Dichloromethane)	2020/03/09	97	70 - 130	102	70 - 130	<2.0	ug/L	NC	30
6623653	o-Xylene	2020/03/09	97	70 - 130	101	70 - 130	<0.20	ug/L	NC	30
6623653	p+m-Xylene	2020/03/09	102	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
6623653	Styrene	2020/03/09	96	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
6623653	Tetrachloroethylene	2020/03/09	94	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
6623653	Toluene	2020/03/09	97	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
6623653	Total Xylenes	2020/03/09					<0.20	ug/L	NC	30
6623653	trans-1,2-Dichloroethylene	2020/03/09	99	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
6623653	trans-1,3-Dichloropropene	2020/03/09	84	70 - 130	97	70 - 130	<0.40	ug/L	NC	30
6623653	Trichloroethylene	2020/03/09	100	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
6623653	Trichlorofluoromethane (FREON 11)	2020/03/09	111	70 - 130	114	70 - 130	<0.50	ug/L	NC	30
6623653	Vinyl Chloride	2020/03/09	105	70 - 130	108	70 - 130	<0.20	ug/L	NC	30
6624526	Dissolved Antimony (Sb)	2020/03/09	109	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
6624526	Dissolved Arsenic (As)	2020/03/09	104	80 - 120	101	80 - 120	<1.0	ug/L	NC	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
6624526	Dissolved Barium (Ba)	2020/03/09	104	80 - 120	99	80 - 120	<2.0	ug/L	1.7	20
6624526	Dissolved Beryllium (Be)	2020/03/09	99	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
6624526	Dissolved Boron (B)	2020/03/09	96	80 - 120	91	80 - 120	<10	ug/L	2.0	20
6624526	Dissolved Cadmium (Cd)	2020/03/09	101	80 - 120	96	80 - 120	<0.10	ug/L	NC	20
6624526	Dissolved Chromium (Cr)	2020/03/09	97	80 - 120	95	80 - 120	<5.0	ug/L	NC	20
6624526	Dissolved Cobalt (Co)	2020/03/09	100	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
6624526	Dissolved Copper (Cu)	2020/03/09	99	80 - 120	96	80 - 120	<1.0	ug/L	1.5	20
6624526	Dissolved Lead (Pb)	2020/03/09	94	80 - 120	94	80 - 120	<0.50	ug/L	NC	20
6624526	Dissolved Molybdenum (Mo)	2020/03/09	101	80 - 120	92	80 - 120	<0.50	ug/L	1.5	20
6624526	Dissolved Nickel (Ni)	2020/03/09	94	80 - 120	95	80 - 120	<1.0	ug/L	9.8	20
6624526	Dissolved Selenium (Se)	2020/03/09	98	80 - 120	99	80 - 120	<2.0	ug/L	2.6	20
6624526	Dissolved Silver (Ag)	2020/03/09	96	80 - 120	95	80 - 120	<0.10	ug/L	NC	20
6624526	Dissolved Thallium (Tl)	2020/03/09	91	80 - 120	95	80 - 120	<0.050	ug/L	NC	20
6624526	Dissolved Uranium (U)	2020/03/09	96	80 - 120	96	80 - 120	<0.10	ug/L	NC	20
6624526	Dissolved Vanadium (V)	2020/03/09	103	80 - 120	96	80 - 120	<0.50	ug/L	2.9	20
6624526	Dissolved Zinc (Zn)	2020/03/09	99	80 - 120	100	80 - 120	<5.0	ug/L	NC	20
6630877	F2 (C10-C16 Hydrocarbons)	2020/03/12	122	50 - 130	116	60 - 130	<100	ug/L	NC	30
6630877	F3 (C16-C34 Hydrocarbons)	2020/03/12	119	50 - 130	111	60 - 130	<200	ug/L	NC	30
6630877	F4 (C34-C50 Hydrocarbons)	2020/03/12	115	50 - 130	108	60 - 130	<200	ug/L	NC	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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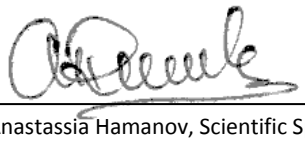
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: C060962
Report Date: 2020/03/12

MTE Consultants Inc
Client Project #: 38934-100
Sampler Initials: ADP

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Anastassia Hamanov, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Laboratories
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Page 1 of 1

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#6868 MTE Consultants Inc	Company Name:	#10921 MTE Consultants Inc	Quotation #:	B90004	BV Labs Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Anthony Puntillo, Spencer Buck	P.O. #:			762543
Address:	520 Bingemans Centre Dr	Address:	1016 Sutton Drive Unit A	Project:	38934-100	COC #:	Project Manager:
	Kitchener ON N2B 3X9		Burlington ON L7L 6B8	Project Name:		C#762543-01-01	Ronklin Gracian
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	(905) 639-2552 Ext: 2416 Fax:	Site #:			
Email:	accounting@mte85.com	Email:	APuntillo@mte85.com	Sampled By:	ADP		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- [ ] Table 1 [ ] Res/Park [X] Medium/Fine
- [X] Table 2 [ ] Ind/Comm [ ] Coarse
- [ ] Table 3 [ ] Agri/Other [X] For RSC
- [ ] Table ___

Other Regulations
- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] Reg 558 [ ] Storm Sewer Bylaw
- [ ] MISA Municipality ___
- [ ] PWQO
- [ ] Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: [X]
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ [ ]
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 PHCs+VOCs	O.Reg 153 Metals Groups 1,2,2 & 1,2,3	VOCs						# of Bottles	Comments
1		MW302S	Mar 5/20	11:30	GW	N	X								5	
2		MW1302S	↓	11:30	↓	N	X								5	
3		BH211S	↓	10:30	↓	Y		X							1	
4		Trip Blank	—	—	W	—			X						2	
5																
6																
7																
8																
9																
10																

05-Mar-20 17:10
Ronklin Gracian
C060962
FCN ENV-902

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
A. Puntillo	20/03/05	17:10		20/03/06	17:10	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	21.2	Present		
		Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

Exceedance Summary Table – Reg153/04 T2-GW-F/M

Result Exceedances

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	UNITS
No Exceedances						

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Appendix A4

Residue Management

MTE CONSULTANTS INC.
ATTN: ANTHONY PUNTILLO
1016 SUTTON DRIVE
UNIT A
BURLINGTON ON L7L 6B8

Date Received: 24-MAY-18
Report Date: 01-JUN-18 15:28 (MT)
Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2100042

Project P.O. #: NOT SUBMITTED
Job Reference: 38934-60
C of C Numbers: 17-619283
Legal Site Desc:

Mary-Lynn Pike
Client Services Supervisor

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2100042-1 TCLP Sampled By: CLIENT on 23-MAY-18 @ 13:15 Matrix: SOIL							
Sample Preparation							
Initial pH	9.60		0.10	pH units		31-MAY-18	R4062856
Final pH	5.83		0.10	pH units		31-MAY-18	R4062856
TCLP Extractables							
Aroclor 1242	<0.00020		0.00020	mg/L	01-JUN-18	01-JUN-18	R4064006
Aroclor 1248	<0.00020		0.00020	mg/L	01-JUN-18	01-JUN-18	R4064006
Aroclor 1254	<0.00020		0.00020	mg/L	01-JUN-18	01-JUN-18	R4064006
Aroclor 1260	<0.00020		0.00020	mg/L	01-JUN-18	01-JUN-18	R4064006
Total PCBs	<0.00040		0.00040	mg/L	01-JUN-18	01-JUN-18	R4064006
Surrogate: 2-Fluorobiphenyl	86.8		40-160	%	01-JUN-18	01-JUN-18	R4064006
TCLP Metals							
Arsenic (As)	<0.050		0.050	mg/L		31-MAY-18	R4063103
Barium (Ba)	1.39		0.50	mg/L		31-MAY-18	R4063103
Boron (B)	<2.5		2.5	mg/L		31-MAY-18	R4063103
Cadmium (Cd)	<0.0050		0.0050	mg/L		31-MAY-18	R4063103
Chromium (Cr)	<0.050		0.050	mg/L		31-MAY-18	R4063103
Lead (Pb)	<0.050		0.050	mg/L		31-MAY-18	R4063103
Mercury (Hg)	<0.00010		0.00010	mg/L		31-MAY-18	R4062938
Selenium (Se)	<0.025		0.025	mg/L		31-MAY-18	R4063103
Silver (Ag)	<0.0050		0.0050	mg/L		31-MAY-18	R4063103
Uranium (U)	<0.25		0.25	mg/L		31-MAY-18	R4063103
TCLP VOCs							
1,1-Dichloroethylene	<0.025		0.025	mg/L		31-MAY-18	R4062968
1,2-Dichlorobenzene	<0.025		0.025	mg/L		31-MAY-18	R4062968
1,2-Dichloroethane	<0.025		0.025	mg/L		31-MAY-18	R4062968
1,4-Dichlorobenzene	<0.025		0.025	mg/L		31-MAY-18	R4062968
Benzene	<0.025		0.025	mg/L		31-MAY-18	R4062968
Carbon tetrachloride	<0.025		0.025	mg/L		31-MAY-18	R4062968
Chlorobenzene	<0.025		0.025	mg/L		31-MAY-18	R4062968
Chloroform	<0.10		0.10	mg/L		31-MAY-18	R4062968
Dichloromethane	<0.50		0.50	mg/L		31-MAY-18	R4062968
Methyl Ethyl Ketone	<1.0		1.0	mg/L		31-MAY-18	R4062968
Tetrachloroethylene	<0.025		0.025	mg/L		31-MAY-18	R4062968
Trichloroethylene	<0.025		0.025	mg/L		31-MAY-18	R4062968
Vinyl chloride	<0.050		0.050	mg/L		31-MAY-18	R4062968
Surrogate: 4-Bromofluorobenzene	98.3		70-130	%		31-MAY-18	R4062968
Volatile Organic Compounds							
Surrogate: 1,4-Difluorobenzene	101.2		70-130	%		31-MAY-18	R4062968

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	1,2-Dichlorobenzene	MS-B	L2100042-1
Matrix Spike	1,4-Dichlorobenzene	MS-B	L2100042-1
Matrix Spike	Chlorobenzene	MS-B	L2100042-1
Matrix Spike	Methyl Ethyl Ketone	MS-B	L2100042-1

Sample Parameter Qualifier key listed:

Qualifier	Description
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
HG-TCLP-WT	Waste	Mercury (CVAA) for O.Reg 347	SW846 7470A
LEACH-TCLP-WT	Waste	Leachate Procedure for Reg 347	EPA 1311
Inorganic and Semi-Volatile Organic contaminants are leached from waste samples in strict accordance with US EPA Method 1311, "Toxicity Characteristic Leaching Procedure" (TCLP). Test results are reported in leachate concentration units (normally mg/L).			
MET-TCLP-WT	Waste	O.Reg 347 TCLP Leachable Metals	EPA 200.8
PCB-TCLP-WT	Waste	PCBs for O. Reg 347	SW846 8270
VOC-TCLP-WT	Waste	VOC for O. Reg 347	SW846 8260
A sample of waste is leached in a zero headspace extractor at 30–2 rpm for 18–2.0 hours with the appropriate leaching solution. After tumbling the leachate is analyzed directly by headspace technology, followed by GC/MS using internal standard quantitation.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

17-619283

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: MTE CONSULTANTS INC.
1016 SUTTON DRIVE UNIT A
BURLINGTON ON L7L 6B8
Contact: ANTHONY PUNTILLO

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-TCLP-WT	**Waste**							
Batch R4062938								
WG2785092-2 LCS								
Mercury (Hg)			96.2		%		70-130	31-MAY-18
WG2785092-1 MB								
Mercury (Hg)			<0.00010		mg/L		0.0001	31-MAY-18
MET-TCLP-WT	**Waste**							
Batch R4063103								
WG2785068-2 LCS								
Silver (Ag)			98.4		%		70-130	31-MAY-18
Arsenic (As)			91.8		%		70-130	31-MAY-18
Boron (B)			90.2		%		70-130	31-MAY-18
Barium (Ba)			95.5		%		70-130	31-MAY-18
Cadmium (Cd)			96.3		%		70-130	31-MAY-18
Chromium (Cr)			93.2		%		70-130	31-MAY-18
Lead (Pb)			92.7		%		70-130	31-MAY-18
Selenium (Se)			91.5		%		70-130	31-MAY-18
Uranium (U)			91.3		%		70-130	31-MAY-18
WG2785068-1 MB								
Silver (Ag)			<0.0050		mg/L		0.005	31-MAY-18
Arsenic (As)			<0.050		mg/L		0.05	31-MAY-18
Boron (B)			<2.5		mg/L		2.5	31-MAY-18
Barium (Ba)			<0.50		mg/L		0.5	31-MAY-18
Cadmium (Cd)			<0.0050		mg/L		0.005	31-MAY-18
Chromium (Cr)			<0.050		mg/L		0.05	31-MAY-18
Lead (Pb)			<0.050		mg/L		0.05	31-MAY-18
Selenium (Se)			<0.025		mg/L		0.025	31-MAY-18
Uranium (U)			<0.25		mg/L		0.25	31-MAY-18
PCB-TCLP-WT	**Waste**							
Batch R4064006								
WG2785527-3 DUP		**L2100042-1**						
Aroclor 1242		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	01-JUN-18
Aroclor 1248		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	01-JUN-18
Aroclor 1254		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	01-JUN-18
Aroclor 1260		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	01-JUN-18
WG2785527-2 LCS								
Aroclor 1242			88.0		%		65-130	01-JUN-18
Aroclor 1248			100.9		%		65-130	01-JUN-18

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-TCLP-WT	**Waste**							
Batch R4064006								
WG2785527-2 LCS								
Aroclor 1254			104.3		%		65-130	01-JUN-18
Aroclor 1260			113.5		%		65-130	01-JUN-18
WG2785527-1 MB								
Aroclor 1242			<0.00020		mg/L		0.0002	01-JUN-18
Aroclor 1248			<0.00020		mg/L		0.0002	01-JUN-18
Aroclor 1254			<0.00020		mg/L		0.0002	01-JUN-18
Aroclor 1260			<0.00020		mg/L		0.0002	01-JUN-18
Surrogate: 2-Fluorobiphenyl			101.6		%		40-160	01-JUN-18
WG2785527-4 MS		**L2100042-1**						
Aroclor 1242			91.9		%		50-150	01-JUN-18
Aroclor 1254			99.6		%		50-150	01-JUN-18
Aroclor 1260			107.8		%		50-150	01-JUN-18
VOC-TCLP-WT	**Waste**							
Batch R4062968								
WG2781894-1 LCS								
1,1-Dichloroethylene			99.3		%		70-130	31-MAY-18
1,2-Dichlorobenzene			99.0		%		70-130	31-MAY-18
1,2-Dichloroethane			102.4		%		70-130	31-MAY-18
1,4-Dichlorobenzene			100.7		%		70-130	31-MAY-18
Benzene			104.2		%		70-130	31-MAY-18
Carbon tetrachloride			105.7		%		60-140	31-MAY-18
Chlorobenzene			100.4		%		70-130	31-MAY-18
Chloroform			103.5		%		70-130	31-MAY-18
Dichloromethane			104.8		%		70-130	31-MAY-18
Methyl Ethyl Ketone			92.7		%		50-150	31-MAY-18
Tetrachloroethylene			101.4		%		70-130	31-MAY-18
Trichloroethylene			105.9		%		70-130	31-MAY-18
Vinyl chloride			98.1		%		60-130	31-MAY-18
WG2781894-2 MB								
1,1-Dichloroethylene			<0.025		mg/L		0.025	31-MAY-18
1,2-Dichlorobenzene			<0.025		mg/L		0.025	31-MAY-18
1,2-Dichloroethane			<0.025		mg/L		0.025	31-MAY-18
1,4-Dichlorobenzene			<0.025		mg/L		0.025	31-MAY-18
Benzene			<0.025		mg/L		0.025	31-MAY-18
Carbon tetrachloride			<0.025		mg/L		0.025	31-MAY-18

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-TCLP-WT	**Waste**							
Batch R4062968								
WG2781894-2 MB								
Chlorobenzene			<0.025		mg/L		0.025	31-MAY-18
Chloroform			<0.10		mg/L		0.1	31-MAY-18
Dichloromethane			<0.50		mg/L		0.5	31-MAY-18
Methyl Ethyl Ketone			<1.0		mg/L		1	31-MAY-18
Tetrachloroethylene			<0.025		mg/L		0.025	31-MAY-18
Trichloroethylene			<0.025		mg/L		0.025	31-MAY-18
Vinyl chloride			<0.050		mg/L		0.05	31-MAY-18
Surrogate: 1,4-Difluorobenzene			101.5		%		70-130	31-MAY-18
Surrogate: 4-Bromofluorobenzene			98.5		%		70-130	31-MAY-18

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2100042-COFC

COC Number: 17 - 619283

Page 1 of 1

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants
Contact:	Nathan Puntillo
Phone:	905 634 3552
	Company address below will appear on the final report
Street:	1011 Sutton Drive, Unit A
City/Province:	Burlington
Postal Code:	L7L 6B8
Invoice To	Same as Report To ☐ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	Accounts Payable

Report Format / Distribution

Select Report Format: ☒ PDF ☒ EXCEL | | EDD (DIGITAL)
Quality Control (QC) Report with Report ☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☒ EMAIL | | MAIL ☐ FAX
Email 1 or Fax: apuntillo@mtels.com
Email 2: sbuck@mtels.com
Email 3:

Invoice Distribution

Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: accountingmtels.com
Email 2:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☒ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐
EMERGENCY: 1 Business day [E-100%] ☐ | Same Day, Weekend or Statutory holiday [E2-200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs: dd-mmm-yy

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information

ALS Account # / Quote #:
Job #: 38932-100
PO / AFE:
LSD:

Oil and Gas Required Fields (client use)

AFE/Cost Center: | PO#:
Major/Minor Code: | Routing Code:
Requisitioner:
Location:

ALS Lab Work Order # (lab use only): L2100042 ni 24B

ALS Contact: ML | Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	PHCs F1-F4	TCLP Metals	TCLP VOCs	TCLP PCBs	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
1	BH35	23-05-18	13:30	GW	X						4
2	BH2135	23-05-18	13:00	GW	X						4
3											
4	TCLP	23-05-18	13:15	Soil		X	X	X			2
5											
6											
7											
8											
9											
10											

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO
Are samples for human consumption/ use? | | YES | | NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

TCLP results on seperate CoA

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations ☐ Yes ☐ No ☒
Ice Packs ☐ Ice Cubes ☒ | Custody seal intact ☐ Yes ☐ No
Cooling Initiated ☒

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
14.8°C				15.2°C			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date: May 23/18	Time: 14:15	Received by: C-Kocharackal	Date: 23-May-2018	Time: 14:20pm	Received by:	Date: May 24/18	Time: 15:05

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

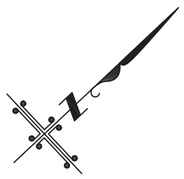
1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

JULY 2017 FRONT

Appendix A5

Survey of Phase Two Property

PLAN BEING PART 1
MUST BE READ IN CONJUNCTION WITH
SURVEY REPORT BEING PART 2



SURVEYOR'S REAL PROPERTY REPORT WITH TOPOGRAPHICAL FEATURES

PLAN OF SURVEY OF

PART OF LOTS 13 & 14 REGISTERED PLAN 203

BEING IN THE

CITY OF BURLINGTON

REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 500

0 5 10 15 20 30 40 metres

MacKAY, MacKAY & PETERS LIMITED – ONTARIO LAND SURVEYORS

© 2018

KNOWN AS MUNICIPAL No. 2362 FAIRVIEW STREET

REPORT SUMMARY BEING PART 2 to be read in conjunction with Part 1

LAND REGISTRY OFFICE TITLE INFORMATION ON SUBJECT PROPERTY INCLUDING BOUNDARIES, EASEMENTS AND RIGHT OF WAYS – DECEMBER 1, 2017

REGISTERED EASEMENTS AND/OR RIGHTS-OF-WAY:

SUBJECT TO AN EASEMENT AS IN INSTRUMENT No. 149878
SUBJECT TO AN EASEMENT AS IN INSTRUMENT No. 149880
SUBJECT TO AN EASEMENT AS IN INSTRUMENT No. 437322e

ADDITIONAL REMARKS:

REFER TO PART 1 OF SURVEY REPORT FOR THE LOCATION OF BUILDINGS, STRUCTURES, FENCES, AND UTILITIES

Note :

MacKAY, MacKAY & PETERS LIMITED grants MTE CONSULTANTS INC. ["The Client(s)"], their solicitor and other related parties permission to use "Original Copies" of the Surveyor's Real Property Report in transactions involving "The Client(s)".

"METRIC" DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

	COORDINATES		ELEVATIONS (Z)	
WELL ID	NORTH (Y)	EAST (X)	PVC	GS
BH1D	4799774.07	597216.34	98.73	97.95
BH1S	4799773.80	597213.93	98.74	98.07
BH3S	4799716.27	597262.95	98.02	97.90
BH4S	4799740.06	597282.29	97.79	97.74
BH5S	4799760.89	597281.96	97.92	97.89
BH6S	4799745.37	597295.76	98.80	97.84
BH7S	4799731.08	597281.98	98.90	98.02
BH8S	4799716.88	597268.84	98.81	97.85
BH9S	4799706.33	597259.04	98.82	97.80
BH10S	4799694.09	597247.44	98.65	97.91
BH12D	4799741.39	597291.57	98.82	97.81
BH13D	4799719.91	597269.17	99.00	97.82
BH14D	4799699.79	597251.84	98.80	97.86
BH15D	4799751.44	597239.49	98.67	98.05
BH17D	4799800.02	597184.96	97.91	98.04
BH17S	4799795.02	597192.79	98.34	98.42
BH18D	4799720.72	597326.56	96.88	97.05
BH18S	4799721.21	597325.90	97.04	97.05
BH19D	4799705.99	597311.67	96.73	96.77
BH19S	4799705.40	597312.43	96.67	96.77
BH20D	4799695.07	597300.99	96.61	96.73
BH20S	4799694.06	597301.66	96.64	96.61
BH21D	4799680.66	597287.04	96.38	96.52
BH21S	4799679.92	597287.73	96.45	96.52
BH22S	4799749.67	597241.83	99.00	98.05
BH23D	4799666.99	597273.02	96.40	96.55
BH23S	4799665.89	597274.08	96.35	96.42
BH24D	4799650.70	597258.91	96.41	96.42
BH24S	4799650.05	597258.42	96.31	96.42
BH27D	4799735.32	597340.03	97.03	97.03
BH28D	4799749.84	597352.32	97.02	97.19
BH28S	4799748.83	597353.33	96.86	97.11
BH31D	4799685.69	597314.41	96.34	96.43
BH31S	4799685.65	597314.35	96.36	96.43
BH32D	4799613.12	597343.74	95.71	95.80
BH32S	4799613.15	597343.68	95.66	95.80
BH33D	4799663.86	597414.02	96.15	96.25
BH33S	4799663.79	597413.99	96.11	96.25
BH41D	4799744.98	597232.49	98.89	98.04
BH41S	4799745.01	597232.54	98.95	98.04
BH41U	4799744.20	597232.33	99.09	98.04
BH42D	4799758.47	597245.37	97.97	98.07
BH42S	4799758.44	597245.40	97.95	98.07
BH42U	4799758.47	597245.43	97.98	98.07
BH43D	4799736.00	597255.40	98.62	98.12
BH43S	4799736.04	597255.37	98.60	98.12
BH43U	4799735.99	597255.37	98.62	98.12
BH45	4799732.73	597259.08	99.05	98.10
BH46D	4799789.19	597227.59	98.94	97.97
BH46S	4799790.03	597228.45	98.94	98.03
BH47D	4799774.46	597212.87	99.06	98.12
BH47S	4799775.67	597213.63	99.02	98.05
BH48D	4799762.91	597202.61	99.06	98.17
BH48S	4799764.16	597203.90	99.21	98.15
BH101S	4799766.45	597227.91	98.51	97.92
BH102S	4799750.73	597247.22	98.95	98.09
BH103S	4799735.07	597205.13	99.10	98.10
BH104S	4799720.80	597234.48	98.68	97.98
BH105S	4799739.34	597242.67	98.91	98.07
BH106S	4799744.21	597189.99	98.84	98.13
BH107S	4799690.25	597234.26	98.78	97.89
BH108D	4799751.89	597240.46	N/A	98.05
BH109D	4799770.89	597215.43	98.74	97.99
BH110S	4799730.77	597189.16	99.11	98.26
BH111S	4799748.48	597211.27	N/A	98.00
BH112S	4799727.37	597218.53	98.70	98.00
BH113S	4799757.99	597234.46	98.83	97.97
BH114D	4799712.55	597208.20	98.94	98.07
BH115S	4799736.37	597243.60	N/A	98.04
BH116S	4799767.16	597264.55	N/A	98.07
BH117S	4799743.99	597272.22	98.80	98.00
BH118S	4799722.52	597268.88	98.78	97.86
BH120S	4799776.77	597254.11	98.78	98.04
BH121S	4799736.29	597285.96	N/A	97.76
N/A (PIPE BROKEN)	4799758.37	597231.90	N/A	97.96

Legend :

■ DENOTES A SURVEY MONUMENT FOUND
SIB DENOTES STANDARD IRON BAR
WIT DENOTES WITNESS MONUMENT
PIN DENOTES PROPERTY IDENTIFICATION NUMBER
(OU) DENOTES ORIGIN UNKNOWN
ULS DENOTES UTILITY LIGHT STANDARD
UGW DENOTES UTILITY GUY WIRE
CB DENOTES CATCH BASIN
BLPED DENOTES BELL PEDESTAL
BF DENOTES BOARD FENCE
CLF DENOTES CHAIN LINK FENCE
P1 DENOTES PLAN 20R-2584
P2 DENOTES PLAN BY MACKAY, MACKAY & PETERS LIMITED, DATED JUNE 24, 2010 (FILE 10-046)
ALL BUILDING TIES ARE TO FOUNDATION, UNLESS OTHERWISE NOTED.

Benchmark Note:

CITY OF BURLINGTON BENCHMARK No. 256 ELEVATION = 97.791 METRES (CGVD-1928: 1978 ADJUSTMENT)
BRASS CAP SET IN TOP OF SIDEWALK ON SOUTHEAST CORNER OF INTERSECTION OF FAIRVIEW STREET AND DRURY LANE, 0.67m FROM THE EDGE OF PAVEMENT, 24.6m NORTHWEST OF THE NORTHWEST CORNER OF HALTON HONDA, 16.38m SOUTH OF THE SOUTHWEST BOLT ON BASE OF LIGHT STANDARD ON CENTRE LINE ISLAND EAST OF INTERSECTION.

Bearing Reference :

BEARINGS ARE GRID AND ARE REFERRED TO THE SOUTHEASTERLY LIMIT OF FAIRVIEW STREET, AS SHOWN ON P2, HAVING A BEARING OF N43°15'45"E.

Surveyor's Certificate :

I CERTIFY THAT :

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 11th DAY OF DECEMBER, 2017.

MACKAY, MACKAY & PETERS LIMITED

JANUARY 11, 2018
DATE

PER: ROSS A. CLARKE OLS

CAD FILE: E:\(20) HALTON\REGISTERED PLANS\RP0203\LOT 13-14\17-376\17-376.DWG

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
2040536

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR
In accordance with Regulation 1026, Section 29(3)

MACKAY, MACKAY & PETERS LIMITED
Established 1906
ONTARIO LAND SURVEYORS
3380 SOUTH SERVICE ROAD
BURLINGTON, ONTARIO L7N 3J5
PHONE: (905) 639-1375
FAX: (905) 333-9544
e-mail: halton@mmplimited.com
Records of Sewell & Sewell and Yates & Yates LTD.

DRAWN BY:	E.L.
PARTY CHIEF:	C.M.
CHECKED BY:	K.J.D.
PROJECT NO.:	17-376

Appendix A6

Phase Two Conceptual Site Model

PHASE TWO CONCEPTUAL SITE MODEL
2362 FAIRVIEW STREET, BURLINGTON, ONTARIO

A Phase Two Conceptual Site Model (CSM) was prepared in accordance with Schedule E, Part V, Table 1, S6(x) of Ontario Regulation (O.Reg.) 153/04 (as amended). The Phase Two Conceptual Site Model consists of this text and the following figures.

FIGURE 1a Site Location Map
FIGURE 1b Aerial Photograph
FIGURE 2a Current Site Layout
FIGURE 2b Historical Site Layout
FIGURE 3 Potentially Contaminating Activities
FIGURE 4 APECs and Sampling Locations
FIGURE 5 Cross Section Locations
FIGURE 6 Overburden Groundwater Contours (MAY 14, 2018)
FIGURE 7a Metals (including As, Sb, Se) in Soil – Plan View
FIGURE 7b Metals (including As, Sb, Se) in Soil – Cross Section A-A'
FIGURE 7c Metals (including As, Sb, Se) in Soil – Cross Section B-B'
FIGURE 7d Metals (including As, Sb, Se) in Soil – Cross Section D-D'
FIGURE 7e Metals (including As, Sb, Se) in Soil – Cross Section E-E'
FIGURE 7f Metals (including As, Sb, Se) in Soil – Cross Section F-F'
FIGURE 8a PAHs in Soil – Plan View
FIGURE 8b PAHs in Soil – Cross Section A-A'
FIGURE 8c PAHs in Soil – Cross Section B-B'
FIGURE 8d PAHs in Soil – Cross Section D-D'
FIGURE 8e PAHs in Soil – Cross Section G-G'
FIGURE 9a PHCs in Soil – Plan View
FIGURE 9b PHCs in Soil – Cross Section A-A'
FIGURE 9c PHCs in Soil – Cross Section B-B'
FIGURE 9d PHCs in Soil – Cross Section H-H'
FIGURE 10a VOCs in Soil – Plan View
FIGURE 10b VOCs in Soil – Cross Section A-A'
FIGURE 10c VOCs in Soil – Cross Section B-B'
FIGURE 11a Metals (including As, Sb, Se) in Groundwater – Plan View
FIGURE 11b Metals (including As, Sb, Se) in Groundwater – Cross Section A-A'
FIGURE 11c Metals (including As, Sb, Se) in Groundwater – Cross Section B-B'
FIGURE 11d Metals (including As, Sb, Se) in Groundwater – Cross Section G-G'
FIGURE 12a VOCs in Groundwater – Plan View
FIGURE 12b VOCs in Groundwater – Cross Section A-A'
FIGURE 12c VOCs in Groundwater – Cross Section B-B'
FIGURE 12d VOCs in Groundwater – Cross Section C-C'
FIGURE 13 Human Health Conceptual Site Model
FIGURE 14 Ecological Conceptual Site Model

General Description

The Phase Two Property or "Site" is a commercial property located at municipal address 2362 Fairview Street in Burlington, Ontario. The Site is located on the south side of Fairview Street, between Guelph Line and Drury Lane in a mixed commercial and residential area. The Site is bounded by Fairview Street to the north, commercial properties to the east and west, and a

residential subdivision to the south. The Site location is illustrated on **Figure 1a** and an aerial photograph of the Site is shown on **Figure 1b**.

The Site is rectangular in shape, 0.76 hectares (1.87 acres) in area and consists of a vacant, gravel surfaced lot, surrounded by a chain link fence. There is a small wood-sided shed in the southeastern corner of the Site that houses a groundwater pump and treat system. The Site layout is illustrated on **Figure 2a**.

The legal description for the Phase Two Property is: *PT LTS 13 & 14, PL 203, PTS 2, 3, 6 & 7, 20R2584; S/T 149878, 149880, 437322E Burlington*.

Site History

Historical records indicated that the Phase Two Property was agricultural or vacant land until 1960 when the property was developed with an industrial building by Wiens Screw Products Ltd. An additional structure (Quonset building) was added to the Site in 1963. Wiens Screw Products operated a machine shop on the Site from 1960 to 1976. Historical records suggest that Wiens Screw Products may have also conducted some diesel truck repairs during this period. In 1976 the Site was purchased by Parker-Hannifin Limited who also operated a machine shop, primarily for the manufacturing of fluid injectors, screw fittings, hose connectors and adaptors until 1989. The locations of historical buildings and other Site features are illustrated on **Figure 2b**.

In 1989 and 1990 the Site was decommissioned, which included the removal of the buildings and one or more waste oil underground storage tanks (USTs). The USTs were found to have leaked and soil remedial projects (excavation and off-Site disposal) were completed on the Site in four stages between 1990 and 1997. The initial soil remediation project was completed to remove petroleum hydrocarbon (PHC) impacted soil in the waste oil UST area and subsequent remediation projects were focused on the removal of soil impacted by trichloroethylene (TCE). The reported boundaries of these remediation areas, as obtained from previous environmental reports, are shown on **Figure 2b**.

Subsequent environmental investigations conducted on the Site in the 1990s identified the presence of chlorinated volatile organic compounds (VOCs) in groundwater. The VOCs primarily consisted of TCE and TCE degradation products, and the extent of VOCs in groundwater was found to extend laterally across the Site from north to south and vertically into bedrock. Previous environmental reports also indicated the likelihood that VOC impacted groundwater was migrating onto the Site from up-gradient properties to the north.

The Site has been a gravel surfaced lot since 1989 and is currently being leased to a local automobile dealer for use as an overflow parking lot. A recovery well and a groundwater pump and treat system was installed on the Site in 1992 to remediate and control the migration of impacted groundwater to the south of the Site. The pump and treat system continues to operate.

1.(i) Potentially Contaminating Activities

The results of the Phase One ESA (MTE, 2018), identified seven Potentially Contaminating Activities (PCAs) listed in Table 2 of Schedule D of O.Reg.153/04 on the Site. The PCA locations are indicated on **Figure 4** and included:

Potentially Contaminating Activity	Basis
8. Chemical Manufacturing, Processing and Bulk Storage	Historical records indicated kerosene and Varsol was stored in drums on the Site. A 1971 FIP shows a drum storage area along the east of side of the main building. Drum storage was also reported in the former Quonset building.
27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Historical records suggested that some diesel truck repairs may have been completed on the Site; however, the specific locations of these activities are not known.
28. Gasoline and Associated Products Storage in Fixed Tanks	One or more former waste oil USTs (size unknown) were located between main building and Quonset building. A 250-gallon fuel AST was formerly located along the east exterior wall of the main building.
30. Importation of Fill Material of Unknown Quality	Previous environmental investigations identified fill materials as the upper soil unit in several boreholes drilled on the Site. The source and quality of fill materials used to backfill four remedial excavations completed on the Site between 1990 and 1997 is not known.
34. Metal Fabrication	The Site was formerly occupied by two machine shops operated as Wiens Screw Products Ltd. and Parker-Hannifin (Canada) Ltd. between 1960 and 1989.
51. Solvent Manufacturing, Processing and Bulk Storage	Historical records indicated a former TCE degreasing AST was located in the former machine shop building on-Site. The size and specific location of the AST within the building is not known.
55. Transformer Manufacturing, Processing and Use	FIPs and a historical Site plan show that a transformer was previously located west of the main building.

The Phase One ESA also identified one other potential environmental concern on the Phase One Property that is not a PCA listed in Table 2 of Schedule D of O.Reg.153/04, but was considered to result in an APEC; previous environmental investigations identified groundwater contamination by VOCs across the Site. Each of the PCAs and the other environmental concern identified on the Site resulted in an APEC.

The Phase One ESA identified multiple PCAs listed in Table 2 of Schedule D of O.Reg.153/04 in the Phase One Study Area that resulted in APECs on the Site. In general, the following PCAs, which were identified on adjoining properties or properties located north and up-gradient of Phase One Property based on the groundwater flow direction (southerly), as determined by previous on and off-Site investigations, were considered to result in APECs. These PCA locations are indicated in yellow on **Figure 3** and included:

Potentially Contaminating Activity	Location and Basis
27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	2339-2345 Fairview Street – Records indicate auto repairs have been conducted on this property (Fairview Tire and Auto). 2377 Fairview Street – Historical and current auto repair facilities at this property.
28. Gasoline and Associated Products Storage in Fixed Tanks	2321 Fairview Street – FIPs indicated the historical presence of one gasoline UST. 2377 Fairview St – TSSA record for an expired private fuel outlet with a UST.
34. Metal Fabrication	2349 Fairview Street - Former metal and industrial machinery & equipment manufacturing.
37. Operation of Dry Cleaning Equipment (where chemicals are used)	2388 Fairview Street - Former carpet retailer from 1975-2011 where carpet cleaning using chemicals may have been completed.
43. Plastics (including Fibreglass) Manufacturing and Processing	2360/2380 McDowell Road (Hood Packaging) - Plastic packaging manufacturing.
51. Solvent Manufacturing, Processing and Bulk Storage	2360/2380 McDowell Road (Hood Packaging) – Three former TCE USTs that were documented to have leaked and resulted in a significant release of TCE to the subsurface.

Other PCAs were identified in the Phase One Study Area, but were not considered to result in APECs on the Site based on details of the PCA or the distance and location with respect to the Site and the groundwater flow direction (southerly). These PCAs are illustrated in white on **Figure 3** and included:

- 8. Chemical Manufacturing, Processing and Bulk Storage
- 10. Commercial Autobody Shops
- 27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
- 28. Gasoline and Associated Products Storage in Fixed Tanks
- 34. Metal Fabrication
- 46. Rail Yards, Tracks and Spurs
- 51. Solvent Manufacturing, Processing and Bulk Storage
- 55. Transformer Manufacturing, Processing and Use
- 59. Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products

1.(ii) Areas of Potential Environmental Concern

The APECs were assessed through an evaluation of historical data and the collection and analysis of soil samples from 54 boreholes and groundwater samples collected from 20 newly installed monitoring wells and 28 existing monitoring wells. The APEC and sampling locations are illustrated on **Figure 4**. The boundaries of the APECs and the Contaminants of Potential Concern (COPCs) analyzed in each APEC were as follows:

- APEC 1 was the former on-Site drum storage area (PCA 8), and included the area along the northern half of the east wall of the former main building and the interior of the former Quonset Hut. Soil and/or groundwater samples were collected from the following sampling locations: BH42(U,S), BH101S, BH108S, BH113S, BH202S, BH210S, BH301S, BH302S, BH303S and BH304S that were submitted for analysis of the COPCs within APEC 1, which included petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene, xylenes (BTEX) and volatile organic compounds (VOCs).
- APEC 2 was the former on-Site waste oil UST area (PCA 28) located in the central portion of the Site, between the former main building and the former Quonset Hut. Soil and/or groundwater samples were collected from the following sampling locations: BH102S, BH210S, BH305S, BH306S and BH314S that were submitted for analysis of the COPCs within APEC 2, which included PHCs, BTEX, VOCs, metals, arsenic (As), antimony (Sb), selenium (Se), mercury (Hg) and polychlorinated biphenyls (PCBs). The depth of the former USTs was not known; however, samples were collected at multiple locations and intervals between 1.5m and 4.5m bgs, including from between 2.7m and 3.0m, the expected depth below the former USTs.
- APEC 3 was the former on-Site gasoline AST area (PCA 28), which was reported to have been located along the northern half of east wall of the former main building. Soil and/or groundwater samples were collected from the following sampling locations: BH42(U,S), BH101S, BH108S, BH113S, BH202S, BH210S, BH304S and BH305S that were submitted for analysis of the COPCs within APEC 3, which included PHCs, BTEX and VOCs.
- APEC 4 included the entire Site where fill material of unknown quality (PCA 30) was observed during previous investigations. Soil fill samples were collected from the majority of borehole locations across the Site and submitted for analysis of the COPCs within APEC 4, which included PHCs, VOCs, metals, As, Sb, Se, Hg, hexavalent chromium (Cr (VI)), boron hot water soluble (B-HWS), cyanide (CN^-), electrical conductivity (EC), sodium adsorption ratio (SAR), low or high pH, and polycyclic aromatic hydrocarbons (PAHs).
- APEC 5 was defined as the former soil remediation areas, located in the central, eastern and southern portions of the Site, where fill material of unknown quality (PCA 30) was imported to backfill the excavations. APEC 5 was evaluated through over 30 sampling locations, and analysis of soil fill samples for analysis of the COPCs within APEC 5, which included PHCs, metals, As, Sb, Se, Hg, Cr (VI), B-HWS, CN^-, EC, SAR, low or high pH, and PAHs.
- APEC 6 and APEC 7 had the same boundary that was defined as the footprint of the former main building, which was occupied by two machine shops (PCA 34), and where historical records indicated a TCE degreasing AST was located (PCA 51). APEC 7 was defined as the building footprint as the specific location of the AST was not known. The COPCs within APEC 6 included PHCs, BTEX, VOCs, metals, As, Sb, Se, Hg, Cr (VI), B-HWS, CN^- and acid-base-neutral compounds (ABNs). The COPCs in APEC 7 included

VOCs. Soil and/or groundwater samples were collected from the following boreholes/water table monitoring wells for analysis of one or more of the COPCs: BH22S, BH40(U,S), BH41(U,S), BH43(U,S), BH101S, BH102S, BH104S, BH108S, BH111S, BH113S, BH115S, BH204S, BH205S, BH209S, BH210S, BH308S, BH314S, BH315S and BH316S.

- APEC 8 included the entire Site where historical diesel truck repairs may have been completed. The location of these activities on the Site was not known. The COPCs within APEC 8 included PHCs, BTEX, VOCs, metals, As, Sb and Se. Shallow soil samples, fill samples and groundwater samples were collected from boreholes and water table monitoring wells across the Site for analysis of these COPCs.
- APEC 9 was defined as the former on-Site transformer area (PCA 55) located in the northwestern portion of the Site. Shallow soil samples (0.3-0.6m) were collected from two boreholes, BH214S and BH215S, and submitted for analysis of the COPCs within APEC 9, which included PHCs, BTEX and PCBs.
- APEC 10 was defined as the entire Site based on the detections of VOCs in groundwater during previous environmental investigations. The COPCs within APEC 10 included VOCs. Groundwater samples were collected from all monitoring wells on the Site and submitted for analysis of VOCs.
- APECs 11, 12 and 13 had the same boundary defined as the southwestern portion of the Site based on the presence of a former fuel UST to the west (PCA 28), industrial machinery manufacturing to the west (PCA 34), and auto repairs to west (PCA 27). Groundwater samples were collected from the following water table monitoring wells: BH2S, BH106S, BH107S and BH110S and submitted for analysis of the COPCs within these APECs, which included one or all of PHCs, BTEX, VOCS, metals, As, Sb, Se, Hg and Cr (VI).
- APEC 14 was defined as the northeastern portion of the Site based on the historical presence of a carpet retailer (where cleaning with chemicals may have been conducted) on the adjoining property to the east (PCA 37). Groundwater samples were collected from water table monitoring wells BH5S, BH6S, BH105S and BH120S for analysis of the COPCs within APEC 14, which included VOCs.
- APECs 15, 16, 17 and 18 had the same boundary defined as the northwestern portion of the Site based on the presence of a former off-Site retail fuel outlet with USTs (PCA 28), an off-Site plastics products manufacturer with TCE USTs that were documented to have leaked (PCA 43 and PCA 51), and the presence of an off-Site auto repair business (PCA 27) north of the Site. Groundwater samples were collected from monitoring wells BH1S, BH1D, BH46S, BH46D, BH47S, BH47D, BH48S, BH48D, BH105S, BH106S, BH109D, and BH110S and submitted for analysis of the COPCs within these APECs, which included PHCs, BTEX, VOCs, metals, As, Sb and Se. Groundwater samples were collected for analysis of VOCs from all overburden and bedrock monitoring wells in this APEC to evaluate the migration of impacted groundwater onto the Site as a result of off-Site PCA 51 (leaking TCE USTs).

1.(iii) Subsurface Structures and Utilities

Underground utilities on the Site include an underground hydro line servicing the treatment shed in the southeastern corner of the Site, an abandoned water line in the western portion of the Site and two storm sewers lines located in the northern and central portions of the Site. The approximate locations are shown on **Figure 2a**. The depths of these utilities are not known.

Given the shallow depth to groundwater the presence of the underground utilities on the Phase Two Property may have the potential to promote contaminant distribution or transport. This is discussed in more detail in **Section 3.(vii)**.

2.(i) Physical Setting and Stratigraphy

The Site is located within the Iroquois Plain physiographic region, which is situated in the low lying area between Lake Ontario and the Niagara Escarpment extending from the Niagara River to the Trent River (Chapman and Putnam, 1984). Quaternary geology mapping (MNDM, 1986) indicated the regional shallow soil conditions in the area of the Phase One Property consist of lacustrine deposits of sand.

The geodetic ground surface elevation of the Site is approximately 98m to 99m above mean sea level and the UTM coordinates for the approximate center of the Phase Two Property are 597,237m east and 4,799,747m north. The topography of the Site is relatively flat and the regional topography decreases in elevation towards Lake Ontario, approximately 2,000m southeast.

The soil stratigraphy observed on the Site was consistent with the results of previous investigations with the upper unit at all borehole locations consisting of sand and gravel fill. The fill thickness on the Site was typically between approximately 1m and 2m with deeper areas observed in the central portion of the Site within the former soil remediation excavation areas. Native soils below the fill consisted of silty clay till to depths between approximately 2m and 6m, overlying silty sand with intermittent sand and gravel seams. The silty sand/sand and gravel was found to extend to the shale bedrock surface encountered at depths of 4.0m to 6.7m. The shale bedrock extended to the maximum depth investigated of 22.87m bgs. The subsurface stratigraphy is illustrated on geologic cross sections **Figure 7b** though **Figure 7f**.

2.(ii) Hydrogeological Characteristics

One continuous aquifer was identified below the Site, which extends from the water table, which occurs in the overburden, into the shale bedrock. There were no unsaturated zones or aquitards identified on the Site during the Phase Two ESA and the measured depth to groundwater between overburden and upper bedrock wells was generally similar. Groundwater was investigated through the sampling of 28 existing monitoring wells and the installation of 20 additional monitoring wells on the Site with well screens placed at four general depth intervals, including:

- Shallow overburden monitoring wells were installed within the silty clay till (or deeper fill) and with screens that cross the water table;
- Deeper overburden wells were installed within silty sand and/or sand and gravel unit above the bedrock;
- Shallow bedrock wells were installed within the upper more fractured bedrock; and
- Deeper bedrock monitoring wells were installed with well screens at depths between approximately 16.77m and 22.87m to further delineate the vertical extent of VOCs in groundwater.

The depth to the water table was measured between 0.08m and 2.83m bgs and the inferred groundwater flow direction was southerly in the overburden based on groundwater level measurements on May 14th, 2018 (as shown on **Figure 6**). It is noted that the shallowest

groundwater levels were measured in wells installed within the former remediation excavation areas and may be influenced by the presence of deeper fill.

The horizontal hydraulic gradient in overburden across the Site was estimated to be 0.007 m/m in the shallow screened wells, and based on an average measured hydraulic conductivity of 1.40×10^{-7} m/s; the average linear groundwater velocity was estimated to be between 0.06 and 0.09 m/year in the native silty clay unit. The horizontal hydraulic gradient in shallow bedrock across the Site was estimated to be 0.02 m/m, and based on an average measured hydraulic conductivity of 1.25×10^{-6} m/s, the average linear groundwater velocity was estimated to be 7.8 m/year.

During the Phase Two ESA, the average vertical hydraulic gradient between the shallow screens (those screened within the overburden) and deeper screens (those screened in the upper shale bedrock) was calculated to be 0.04 m/m, which suggested a potential for the downward movement of groundwater. It is noted that historically, periodic upward gradients have also been observed.

Surface drainage on the Site is directed towards catch basins located in the central and northern portions of the Site and low lying areas for infiltration into the subsurface.

2.(iii) Approximate Depth to Bedrock

The shale bedrock surface on the Site was encountered at depths ranging from 4.0m to 6.7m bgs.

2.(iv) Approximate Depth to Water Table

The depth to groundwater was measured between 0.08m and 2.83m bgs in the shallow screened overburden wells on the Site, which was interpreted to represent the water table.

2.(v) Section 41 and Section 43.1 of O.Reg.153/04

The Phase Two Property is not on or within an area of natural significance and soil pH was within the acceptable range and therefore the Site is not considered to be environmentally sensitive. The Phase Two Property is not a shallow soil property. The Site does not include all or part of a water body, and is not located within 30 metres of a water body.

2.(vi) Soil Brought to the Phase Two Property

The results of the Phase Two ESA identified existing soil fill on the Site, which consisted of sand and gravel. The fill thickness was typically between approximately 1m and 2m with deeper areas of fill observed in the central portion of the Site, within former soil remediation areas. The source of the historically placed fill is not known and the quality of the fill was assessed during the Phase Two ESA (PCA 30 in APEC 4 and APEC 5).

No soil was brought to the Site during this Phase Two ESA.

2.(vii) Proposed Buildings and Other Structures

There are currently no specific redevelopment plans for the Site. The proposed future use concept includes a multi-story condominium building with first floor commercial units, upper floor residential units and an underground parking garage.

3.(i-v) Areas of Impact

Media Tested

The media investigated during the Phase Two ESA included soil and groundwater. There is no surface water or sediment on the Phase Two Property and therefore no surface water or sediment samples were collected.

Applicable Site Condition Standards

The analytical results for soil and groundwater samples were compared to the Table 2 - Full Depth Generic Site Condition Standards in a Potable Groundwater Condition from "*Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act,* April 15, 2011, and those for Residential/Parkland/Institutional (RPI) property use and medium-fine textured soil (2011 Table 2 RPI SCSs). The Table 2 RPI SCSs were determined to be applicable based on the following:

- Subsurface investigations on the Site determined there is more than 2 metres of overburden above bedrock and the Site does not have a shallow soil condition;
- There are no surface water bodies on or within 30 metres of the property;
- The Site is not on or within an area of natural significance and soil pH was within the acceptable range. The Site was not considered to be an "Environmentally Sensitive Area" as defined by O.Reg.153/04;
- A written Notification of Intent to use non-potable groundwater SCSs was sent to the Region of Halton who responded that they objected to the application of non-potable groundwater condition standards to the Site due to presence of a highly vulnerable aquifer in the vicinity of the Site; and
- The results of the borehole drilling identified the native soil conditions to primarily consist of silty clay till over silty fine sand, which represent more than 2/3 of the Site soil by volume. The results of soil grain size analyses indicated that both of these soil units are characterized as medium and fine texture soil.

Contaminants of Potential Concern

Soil and groundwater samples were collected from the Phase Two Property for analysis of the COPCs identified by the Phase One ESA, which included metals, hydride-forming metals (As, Sb, Se), Hg, Cr (VI), HWS-B, CN^-, electrical conductivity, SAR, ABNs, PAHs, PCBs, PHCs, BTEX and VOCs.

Historical Analytical Data Quality Review

1990-early 2000s

MTE completed a data quality evaluation for historical analytical data collected by others during previous investigations and soil remediation activities at the Site. Analytical data collected from the Site in the 1990s and early 2000s was used for information purposes only for one or more of the following reasons:

- Laboratory Certificates of Analysis were not available;
- Field methods were not appropriate (e.g., composite soil sampling for VOCs);

- The figures in these reports were not sufficiently accurate to determine sampling locations;
- The analytical methods were not in accordance with current MECP requirements; or
- Because Site conditions have significantly changed since that time period (e.g., significant changes in groundwater quality).

The results of the review of historical reports from the 1990s to the early 2000s identified the following areas or locations where COCs may be present above the applicable 2011 Table 2 RPI SCSs.

1. High concentrations of TCE, cis-1,2-dichloroethylene and vinyl chloride (above current 2011 Table 2 RPI SCSs) were historically measured in groundwater samples collected from monitoring wells through the central portion of the property (from the north boundary to the south boundary). The highest historical concentrations were measured at monitoring wells BH1S and BH3S as illustrated on **Figure 2**.
2. There was a potential for soil containing TCE, TCE degradation products or PHCs at concentrations above the 2011 Table 2 RPI SCSs to remain in the former remediation areas as illustrated on **Figure 2**. The confirmatory samples collected following the remediation were not collected using appropriate field methods (composite sampling) and not using current MECP approved analytical methods (e.g., “oil and grease” analysis). In addition, the current MECP Site Condition Standards are lower than the former MOE Guideline Values in place at that time.

This analytical data from these areas was evaluated in the Phase One ESA and used to design the Phase Two ESA sampling program including:

- The identification of appropriate APEC boundaries;
- The installation of new boreholes in locations where historical data identified COCs but the analytical data could not be relied upon;
- The collection of new groundwater samples from existing monitoring wells on the Site that were suitable for sampling (e.g., BH1S and BH3S); and
- The replacement of former or damaged monitoring wells and the collection of new groundwater samples from these wells.

2002 – 2020 Groundwater Monitoring Data

A semi-annual groundwater monitoring program has been completed at the Site by others since 2002, and included the collection of groundwater samples for analysis of VOCs. To evaluate the representativeness of this analytical data set, trend graphs (concentration vs time) were created for wells where sufficient data had been collected. The trend graphs showed that significant changes to groundwater quality have occurred over the monitoring period. Based on the results of the trend evaluation, the historical analytical results for VOCs in groundwater collected since 2016 were relied upon during the Phase Two ESA. This analytical data was considered to be most representative of current conditions and also incorporated the expected current maximum concentrations of the COCs in groundwater.

Historical groundwater analytical data collected in and prior to 2015 were not relied upon in the Phase Two ESA based on the following:

- The pump and treat system has been operating on the Site since the 1990s. This system has generally lowered the concentrations of VOCs on the Site over this time period;

- Natural processes (e.g., reductive dechlorination) in groundwater have altered the concentrations of VOC parameters and the ratios of TCE and TCE degradation products over time (some higher, some lower);
- VOC contaminated groundwater is interpreted to have continued to migrate onto the Site from an off-Site source to the north over this time period; and
- The analytical results for recent groundwater samples collected by MTE from the existing monitoring wells during the Phase Two ESA were in some cases not consistent with much older historical results (e.g., prior to 2015).

The historical groundwater analytical data collected during the monitoring period of 2016 to 2020, together with the additional groundwater analytical data collected by MTE during this Phase Two ESA in 2017, 2018 and 2020 were considered sufficient and appropriate by the QP_{ESA} to evaluate the current environmental condition of the Site. This data set includes the collection of multiple samples where the maximum concentrations of COCs were currently or historically detected at the Site.

2010 – 2015 Soil Analytical Data

Concurrent with the semi-annual groundwater monitoring programs, some soil analytical data was also previously collected by others. This included soil samples submitted for analysis of metals, EC, pH and VOCs between 2010 and 2015. The quality and representativeness of the soil analytical data collected from 2010 to 2015 was evaluated through a review of the laboratory Certificates of Analysis, the results of QC samples submitted during this period, and the analytical results as compared to soil sample results collected by MTE in the same areas. Based on this review, the historical soil analytical data was considered suitably precise and was included in the Phase Two ESA.

Soil Analytical Results

The results of the soil analyses were compared to the 2011 Table 2 RPI SCSs and the following Contaminants of Concern (COCs) were identified:

Method Group	COCs	Plan View Figure	Cross Section Figures
metals	cadmium copper zinc	Figure 7a	Figures 7b, 7c, 7d, 7e, 7f
As, Sb, Se	arsenic	Figure 7a	Figures 7b, 7c, 7d, 7e, 7f
PAHs	benzo(a)pyrene fluoranthene	Figure 8a	Figures 8b, 8c, 8d, 8e
PHCs	PHC F1 PHC F2 PHC F3	Figure 9a	Figures 9b, 9c, 9d
VOCs	tetrachloroethylene (PCE) trichloroethylene (TCE) 1,1-dichloroethylene (1,1-DCE) cis-1,2-dichloroethylene (c-1,2-DCE) vinyl chloride (VC) 1,1,2-trichloroethane (1,1,2-TCA)	Figure 10a	Figures 10b, 10c

The results of the soil sampling completed during the Phase Two ESA indicated the following with respect to the extent and potential sources of the COCs in soil:

- Soil samples that exceeded the 2011 Table 2 RPI SCSs for metals, arsenic and PAHs were limited to the fill unit and have been laterally and vertically delineated. The source of these COCs was inferred to most probably be related to on-Site PCA 30 – Importation of fill material of unknown quality (APEC 4 and APEC 5). The three sampling locations where these parameters exceeded the Table 2 RPI SCSs (BH115S and BH120S for metals, BH111S for PAHs) were located within the footprint of the former soil remediation areas (central, eastern and northwestern portions of the Site) and the impacts were identified to depths of 1.2m bgs. There is also a potential for contribution of these parameters from the former machine shop activities (PCA 34, APEC 6).
- PHCs in soil were identified above the 2011 Table 2 RPI SCSs at three borehole locations (BH102S, BH108S and BH113S) in areas where petroleum products and petroleum wastes were historically stored, and where soil remediation for PHCs was previously completed. Specific sources may have included one or more of the drum storage area (PCA 8, APEC 1), the former waste oil USTs (PCA 28, APEC 2) or the former gasoline AST (PCA 28, APEC 3). The depth of PHC contamination ranged from 2.44 to 3.05m bgs and the analytical results for PHCs in all other samples on the Site, including from shallower and deeper intervals in the PHC area, were below the 2011 Table 2 RPI SCSs and therefore these impacts have been laterally and vertically delineated.
- The lateral extent of VOCs in soil above the 2011 Table 2 RPI SCSs was interpreted to extend from the northern to the southern Site boundaries within the central portion of the Site. Based on the analytical results, the lateral extent has also been delineated to the east and west. VOCs were identified in some samples of shallow fill, but were primarily above the 2011 Table 2 RPI SCSs in native soils at or below the water table. The vertical limit is the shale bedrock surface, encountered between 4.0 and 6.7m bgs.
- The VOCs in soil were interpreted to be a result of multiple sources including the use and storage of TCE (i.e., spills) by the former on-Site machine shop operations (PCA 34, APEC 6 and PCA 51, APEC 7) and as a result of VOC impacted groundwater migrating onto the Site from an off-Site source, specifically from multiple leaking TCE USTs at 2360/2380 McDowell Road (PCA 43, APEC 15 and PCA 51, APEC 16) (i.e., heavily contaminated groundwater acted as a source of VOC mass to soil).
- The soil analytical results indicate that the lateral and vertical extent of the COCs in soil on the Site has been delineated as illustrated in **Figures 7a** through **10c**.

Groundwater Analytical Results

Groundwater samples were collected from permanent monitoring wells on the Phase Two Property and submitted for laboratory analysis of the COPCs. The Phase Two ESA and historical analytical results were compared to the 2011 Table 2 RPI SCSs and the following Contaminants of Concern (COCs) were identified:

Method Group	COCs	Plan View Figure	Cross Section Figures
metals	uranium	Figure 11a	Figures 11b, 11c, 11d

Method Group	COCs	Plan View Figure	Cross Section Figures
VOCs	PCE TCE 1,1-dichloroethane (1,1-DCA) 1,1-DCE c-1,2-DCE trans-1,2-dichloroethylene (t-1,2-DCE) VC 1,1,2-TCA	Figure 12a	Figures 12b, 12c, 12d

The results of the groundwater sampling indicated the following with respect to the potential sources and extent of the COCs in groundwater:

- Uranium was detected in groundwater at concentrations above the 2011 Table 2 RPI SCSs at one location (BH104S) located in the southwestern portion of the Site. The analytical results in groundwater for uranium were below the 2011 Table 2 RPI SCSs in all other analyzed samples and uranium was not detected in the soil samples submitted for analysis. The lateral and vertical extent has been delineated. The specific source of uranium in groundwater is not known but may be related to the former machine shop activities (PCA 34, APEC 6).
- Eight chlorinated VOCs were detected in groundwater at concentrations above the Table 2 RPI SCSs; PCE, TCE, 1,1-DCA, 1,1-DCE, c-1,2-DCE, t-1,2-DCE, VC and 1,1,2-TCA.
- The lateral extent of VOCs in groundwater was inferred to extend across the entire Site, with the exception of the northeast and northwest corners. The vertical extent of VOCs in groundwater has been delineated based on the analytical results for groundwater samples collected from the two deepest bedrock wells BH118D and BH216D, both screened at depths of 21.35 to 22.87m bgs.
- The VOCs in groundwater were interpreted to be a result of both on-Site sources, including the use and storage of TCE (i.e., spills) by the former on-Site machine shop (PCA 34, APEC 6 and PCA 51, APEC 7), and an off-Site source, specifically VOC impacted groundwater migrating onto the Site and originating from multiple leaking TCE USTs at 2360/2380 McDowell Road (PCA 43, APEC 15 and PCA 51, APEC 16).
- The lateral and vertical extent of groundwater contamination is interpreted to have been delineated as illustrated in **Figures 11a** through **12d**.

Contaminants Related to Chemical or Biological Transformations

The presence of 1,1-DCE, c-1,2-DCE, t-1,2-DCE and VC in soil and groundwater on the Site were interpreted to be a result of the reductive dechlorination of TCE (i.e., breakdown of TCE by naturally occurring bacteria), as well as the migration of these parameters to the Site in groundwater from up-gradient sources to the north.

Soil as a Source of Contaminant Mass to Groundwater

The results of the groundwater sampling did not find that metals (including As, Sb, Se), PAHs and PHCs in soil were acting as a source of contaminant mass to groundwater.

The VOCs in soil on the Site have the potential to be acting as a source of VOC mass to groundwater. VOCs mass in groundwater on the Site is also interpreted to be a result of the migration of VOC-impacted groundwater to the Site.

VOCs in soil at concentrations above the Table 2 RPI SCSs at the northern Site boundary and at depths below the water table were also interpreted to be a result of highly contaminated groundwater migrating onto the Site (i.e., groundwater acting as a source of contaminant mass to soil).

Separate-Phase Product

The dissolved concentrations of the COCs in groundwater on the Site were all below the ½ solubility values as provided in the document *Rationale for the Development of Soil and Ground Water Standards for Use at Contaminated Sites in Ontario, MOE, April 2011* and do not suggest the potential for LNAPL or DNAPL formation. Water levels were measured in all wells on the Site using an interface probe during multiple monitoring events and no separate-phase liquids were detected. No evidence of LNAPL or DNAPL was observed during the Phase Two ESA soil or groundwater sampling activities.

Groundwater Concentration Trends

The Phase Two ESA analytical data suggests that the concentrations of TCE and TCE degradation products are declining in the majority of wells on the Site; however, there are some wells where concentrations show an increasing trend. In particular:

- Bedrock wells BH1D (up-gradient property boundary), BH15D (central portion of the property) and BH45D (down-gradient end of the property); and
- Overburden wells BH3S and BH8S at the southern end of the Site.

The increasing concentrations in bedrock groundwater are interpreted to be a result of VOC impacted groundwater continuing to migrate onto the Site from properties to the north as a result of the subsurface release of TCE from the leaking USTs at 2360/2380 McDowell Road. The reason for the recent localized increases in TCE concentrations in monitoring wells BH3S and BH8S is not known as there have been no Site activities since prior to 1989 that have used TCE. The Site has only been used for car dealer overflow parking.

The QP_{ESA} is satisfied that the Phase Two ESA scope of work that was completed has identified the current maximum concentrations of the COCs on the Site.

3. (vi) Reason for Discharge of Contaminants into the Natural Environment

The reasons for the discharge of the contaminants in soil and groundwater on the Site were inferred to be as follows:

- The metals, arsenic and PAHs in soil were inferred to be a result of the historical placement of poor quality fill at the Site (PCA 30) during development or following historical soil remediation activities. There is also a potential for contributions of these contaminants from the former machine shop activities (PCA 34).
- The source of PHCs in soil was interpreted to a result of spills or releases during petroleum products and petroleum wastes handling and storage, including drum storage (PCA 8), the former waste oil USTs (PCA 28) and/or the former gasoline AST (PCA 28).
- The source of the uranium in groundwater in one well on the Site is not known but may be related to the former machine shop activities (PCA 34).

- The VOCs in soil and groundwater were interpreted to be a result of spills during the use and storage of solvents by the former on-Site machine shop operations (PCA 34 and PCA 51), and as a result of contaminated groundwater migrating onto the Site from up-gradient properties to the north.

3. (vii) Migration of Contaminants and Preferential Pathways

The lateral extent of VOC contamination in groundwater extends across the Site, from the north property boundary (up-gradient) to the south property boundary (down-gradient) as illustrated on **Figure 12a**. VOCs at concentrations greater than the applicable 2011 Table 2 RPI SCSs have migrated onto the Site in groundwater from properties to the north and have migrated off of the Site in groundwater to properties to the south.

Concurrent with the Phase Two ESA, an evaluation of potential off-Site sources of VOCs in groundwater to the Site was completed. The evaluation included a historical document review, preparing a numerical groundwater flow model, compiling historical off-Site analytical results, evaluating trends for VOCs in overburden and bedrock groundwater on and off-Site, and compound-specific isotope analysis (CSIA) on samples of on and off-Site groundwater. The results of this evaluation concluded that VOC contaminated groundwater originating from multiple leaking TCE USTs at 2360/2380 McDowell Road migrated to the 2362 Fairview Site and impacted both overburden and bedrock groundwater quality. The results of more recent off-Site groundwater sampling indicates that VOC contamination continues to migrate onto the Site from the north.

A groundwater pump and treat system has been operating at the Site since approximately 1992 to recover impacted groundwater and hydraulically control the further migration of VOC impacted groundwater in the overburden to the south. A recent evaluation of this system concluded it is no longer effective in controlling migration across the entire property boundary, and that further measures are needed. Supplemental boundary control measures were evaluated concurrent with a risk assessment for the Site.

Off-Site investigations to the south of the Site have been completed included semi-annually groundwater monitoring since 2007, indoor air sampling in 2016 and 2017 in residential buildings that adjoin the Site (reviewed by MECP), and off-Site soil vapour sampling in 2018.

The presence of preferential pathways such as below ground utilities were not observed to promote contaminant distribution or transport on the Site. The lateral extent of the COCs in groundwater extends across the Site and evidence to suggest that underground utilities are affecting contaminant distribution or transport was not identified based on contaminant distribution or groundwater flow contours. The results of the Phase Two ESA suggest that contaminant migration is primarily occurring in the sand/sand and gravel overburden unit and the underlying upper fractured bedrock, which is expected to be below the depth of on-Site utilities. Groundwater contours in the southeastern portion of the Site show the drawdown effects from the operating pump and treat system.

3. (viii) Climatic and Meteorological Conditions

The results of the Phase Two ESA did not identify significant temporal fluctuations in groundwater levels collected in different years or seasons. Climactic or meteorological conditions were not expected to have a significant influence on the migration of contaminants.

3. (ix) Potential for Vapour Intrusion

The results of the Phase Two ESA identified volatile PHCs, VOCs and PAHs in soil and VOCs in groundwater on the Site that are a potential concern for vapour intrusion to future buildings, including:

i. To a subsurface level of a future building such as a basement or parking garage;

ii. As a result of future heating and cooling systems, that could promote vapour intrusion; and

iii. Along subsurface utilities that may enter the current building or a future building.

The potential for vapour intrusion and the need for risk management measures to prevent vapour intrusion will be evaluated in a risk assessment.

4. CROSS SECTIONS

The following cross section figures are provided to illustrate:

i. The lateral and vertical distribution of a contaminant in each area where the contaminant is present at a concentration greater than the applicable SCS standard in soil and groundwater;
ii. The approximate depth to water table; and
iii. The stratigraphy from ground surface to the deepest aquifer or aquitard investigated.

Method Group	Media	COCs	Cross Section Figures
metals	soil	cadmium copper zinc	Figures 7b, 7c, 7d, 7e, 7f
As, Sb, Se	soil	arsenic	Figures 7b, 7c, 7d, 7e, 7f
PAHs	soil	benzo(a)pyrene fluoranthene	Figures 8b, 8c, 8d, 8e
PHCs	soil	PHC F1 PHC F2 PHC F3	Figures 9b, 9c, 9d
VOCs	soil	PCE TCE 1,1-DCE c-1,2-DCE vinyl chloride 1,1,2-TCA	Figures 10b, 10c
metals	groundwater	uranium	Figures 11b, 11c, 11d
VOCs	groundwater	PCE TCE 1,1-DCA 1,1-DCE c-1,2-DCE t-1,2-DCE VC 1,1,2-TCA	Figures 12b, 12c, 12d

The depths of the utilities on the Site are not known and they are only illustrated in plan view (**Figure 2**); however, utilities were considered to have a low potential to affect contaminant distribution or transport as discussed in **Section 3.(vii)**.

5. (i) Release Mechanisms

COCs exist in soil and groundwater at the Site through historical property use as well as the historical use of other nearby properties. The relevant release mechanisms for each medium of concern that can have an impact on how receptors will come in contact with potential chemicals on the property have been identified in the human health CSM (**Figure 13**) and ecological health CSM (**Figure 14**). Generally, the chemicals can be stable in the media, volatilize, erode, or leach from contaminated media, and contribute to various fractions of contaminant matrices (i.e. outdoor air, soil pore waters and bulk groundwater).

5. (ii) Contaminant Transport Pathways

As identified in **Figures 13** and **14**, the contaminant transport pathways associated with the Phase Two Property include vapour migration to indoor/outdoor air from soil and/or groundwater, as well as soil erosion, leaching or wind-blown particulate.

5. (iii) Human and Ecological Receptors

Based on the likely future use (i.e., mixed commercial and residential) for the Phase Two Property, the following human and ecological receptors are identified:

- Construction/utility workers (adults) involved in subsurface construction or utility repair at the Site;
- Outdoor landscape workers (teenagers and adults) who are involved in property maintenance;
- Indoor long-term workers (teenagers and adults) who are employed at the property;
- Residential occupants (toddlers, children, teenagers and adults) living at the property;
- Trespassers (teenagers and adults) of the property;
- Site-visitors (toddlers, children, teenagers and adults) to the property;
- Terrestrial plants typical of an urban property;
- Soil organisms; and
- Birds and small mammals typical of an urban environment.

All of these receptors could also be present off-Site with the addition of recreational site visitors that could be present at parks or along trails/sidewalks.

5. (iv) Receptor Exposure Points

Exposure points relevant to human and ecological receptors at the Phase Two Property include:

- Soil – direct contact by construction/utility workers, landscape workers, residents, trespassers, Site-visitors, terrestrial plants, soil organisms, birds and mammals;
- Soil – ingestion of garden produce by residents;

- Groundwater – direct contact by residents, indoor workers and construction/utility workers (in a trench) at the property; and
- Soil and groundwater vapour contact by all receptors at the property.

5. (v) Routes of Exposure

Relevant routes of exposure for human receptors at the Phase Two Property are depicted in **Figure 13** and are summarized below:

- Direct contact to soil, including dermal contact, ingestion and inhalation of dust;
- Ingestion of garden produce;
- Soil vapour inhalation and skin contact in indoor and outdoor air;
- Soil leaching to groundwater and subsequent direct contact;
- Direct contact to groundwater, including dermal contact and ingestion; and
- Groundwater vapour inhalation and skin contact in indoor and outdoor air.

Relevant routes of exposure for ecological and aquatic receptors at the Phase Two Property are depicted in **Figure 14** and are summarized below:

- Direct contact to surface soil by terrestrial plants by root uptake/contact;
- Direct contact to surface soil by soil organisms, including ingestion, dermal contact and ingestion of prey/food;
- Direct contact to surface soil by mammals and birds, including ingestion, dermal contact, inhalation of dust and ingestion of prey/food;
- Direct contact with groundwater by terrestrial plants;
- Ingestion of prey/food (sourced from groundwater) by soil organisms;
- Ingestion of prey/food (sourced from groundwater) by mammals and birds;
- Direct contact to surface water by off-Site aquatic plants and animals by ingestion and root uptake.

Appendix A7

APEC Table

"Table of areas of potential environmental concern"
(Refer to clause 16(2)(a), Schedule D, O. Reg. 153/04)

Area of Potential Environmental Concern [1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity [2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern [3]	Media potentially Impacted (ground water, soil and/or sediment)
APEC 1 Former on-Site drum storage area	Central portion of Phase One Property – East of the former main building and within the former Quonset hut building	8. Chemical Manufacturing Processing and Bulk Storage	On-Site	PHCs BTEX VOCs	Soil Groundwater
APEC 2 Former on-Site waste oil UST area	Central portion of Phase One Property – Between the former main and Quonset hut building	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX VOCs Metals As, Sb, Se Hg PCBs	Soil Groundwater
APEC 3 Former on-Site gasoline AST	Central portion of Phase One Property – East of the former main building	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX VOCs	Soil Groundwater
APEC 4 Fill material identified across the Phase One Property during previous investigations	Entire Phase One Property	30. Importation of fill of unknown quality	On-Site	PHCs VOCs PAHs Metals Sb, As, Se Hg, Cr (VI) B-HWS CN- SAR and EC Low or high pH	Soil

Area of Potential Environmental Concern [1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity [2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern [3]	Media potentially Impacted (ground water, soil and/or sediment)
APEC 5 Importation of fill material as backfill for a former soil remediation excavation	Former Soil Remediation Areas	30. Importation of fill of unknown quality	On-Site	PHCs PAHs Metals Sb, As, Se Hg, Cr (VI) B-HWS CN- SAR and EC Low or high pH	Soil
APEC 6 Former on-Site machine shop	Footprint of former main building	34. Metal Fabrication	On-Site	PHCs BTEX VOCs Metals Sb, As, Se Hg Cr (VI) B-HWS CN- ABNs	Soil Groundwater
APEC 7 Former trichloroethylene degreasing AST	Footprint of former main building	51. Solvent manufacturing, Processing and Bulk Storage	On-Site	VOCs	Soil Groundwater
APEC 8 Potential historical on-Site diesel truck repairs	Entire Phase One Property	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	On-Site	PHCs BTEX VOCs Metals Sb, As, Se	Soil Groundwater
APEC 9 Former on-Site transformer	Northwest of the former main building	55. Transformer Manufacturing, Processing and Use	On-Site	PHCs BTEX PCBs	Soil

Area of Potential Environmental Concern [1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity [2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern [3]	Media potentially Impacted (ground water, soil and/or sediment)
APEC 10 VOCs detected in soil and groundwater across the Site	Entire Phase One Property	Not applicable	On-Site	VOCs	Soil Groundwater
APEC 11 Auto repairs conducted at 2345 Fairview Street	Southwestern portion of the Phase One Property	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Off-Site	PHCs BTEX VOCs Metals Sb, As, Se	Groundwater
APEC 12 Former fuel UST at 2321 Fairview Street		28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	PHCs BTEX VOCs	Groundwater
APEC 13 Industrial machinery manufacturing at 2349 Fairview Street		34. Metal Fabrication	Off-Site	VOCs PHCs BTEX Metals Sb, As, Se Hg Cr (VI)	Groundwater
APEC 14 Former carpet retailer where cleaning chemicals may have been used at 2388 Fairview Street	Northeastern portion of the Phase One Property	37. Operation of Dry Cleaning Equipment (where chemicals are used)	Off-Site	VOCs	Groundwater

Area of Potential Environmental Concern [1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity [2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern [3]	Media potentially Impacted (ground water, soil and/or sediment)
APEC 15 Plastic packaging manufacturer at 2360/2380 McDowell Road	Northwestern portion of the Phase One Property	43. Plastics (including Fibreglass) Manufacturing and Processing	Off-Site	VOCs	Groundwater
APEC 16 Four TCE USTs formerly located at 2360/2380 McDowell Road		51. Solvent manufacturing, Processing and Bulk Storage	Off-Site	VOCs	Groundwater
APEC 17 Auto repairs conducted at 2377 Fairview Street		27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Off-Site	PHCs BTEX VOCs Metals Sb, As, Se	Groundwater
APEC 18 Former retail fuel outlet at 2377 Fairview Street with USTs		28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	PHCs BTEX VOCs	Groundwater

Notes:

1 - Areas of potential environmental concern means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through,

(a) identification of past or present uses on, in or under the phase one property, and

(b) identification of potentially contaminating activity.

2 - Potentially contaminating activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area

3 - When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the "Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011, as specified below:

List of Method Groups:

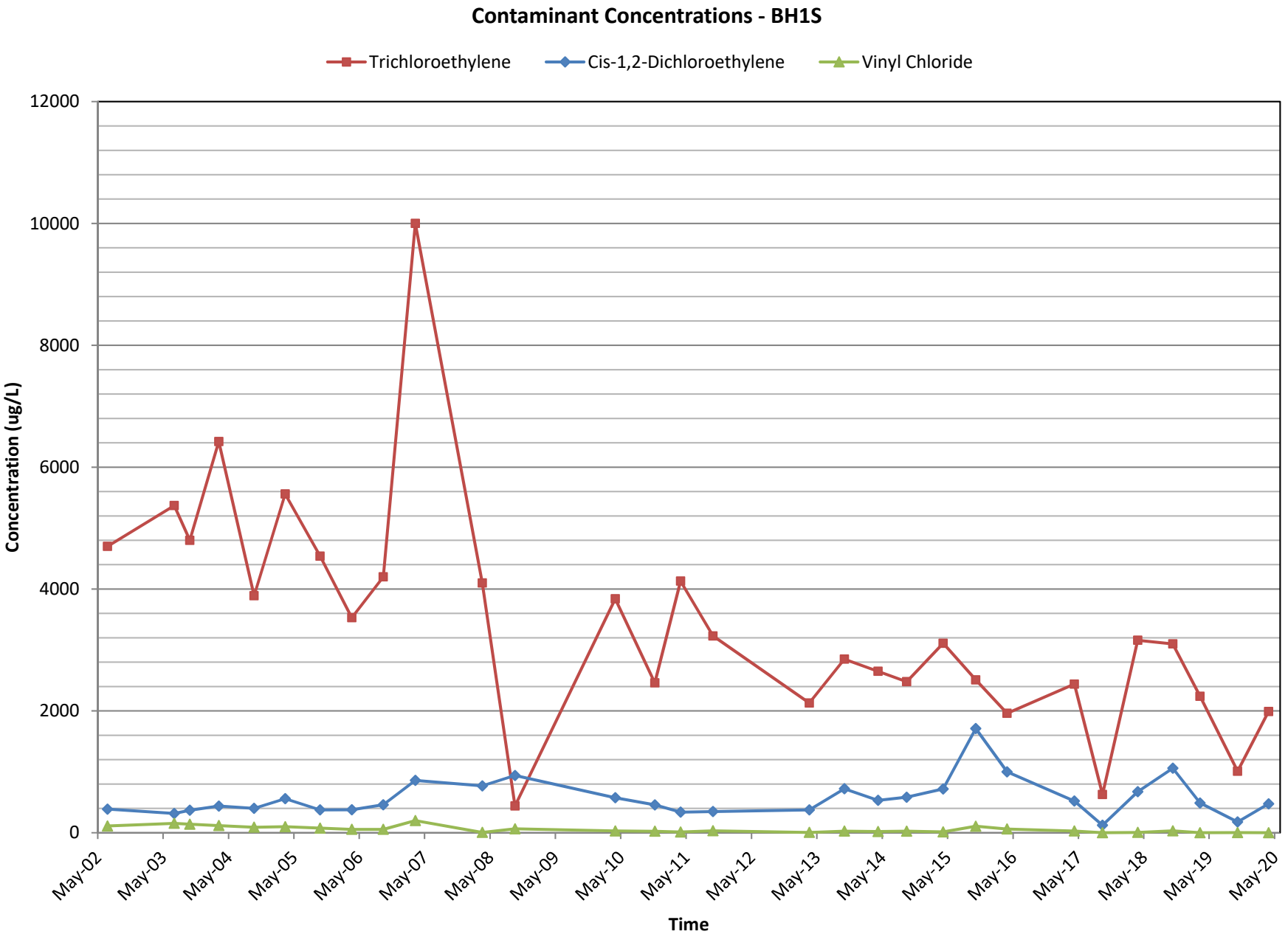
ABNs	PCBs	Metals	Electrical Conductivity
CPs	PAHs	As, Sb, Se	Cr (VI)
1,4-Dioxane	THMs	Na	Hg
Dioxins/Furans, PCDDs/PCDFs	VOCs	B-HWS	Methyl Mercury
OCs	BTEX	Cl-	Low or high pH,
PHCs	Ca, Mg	CN-	SAR

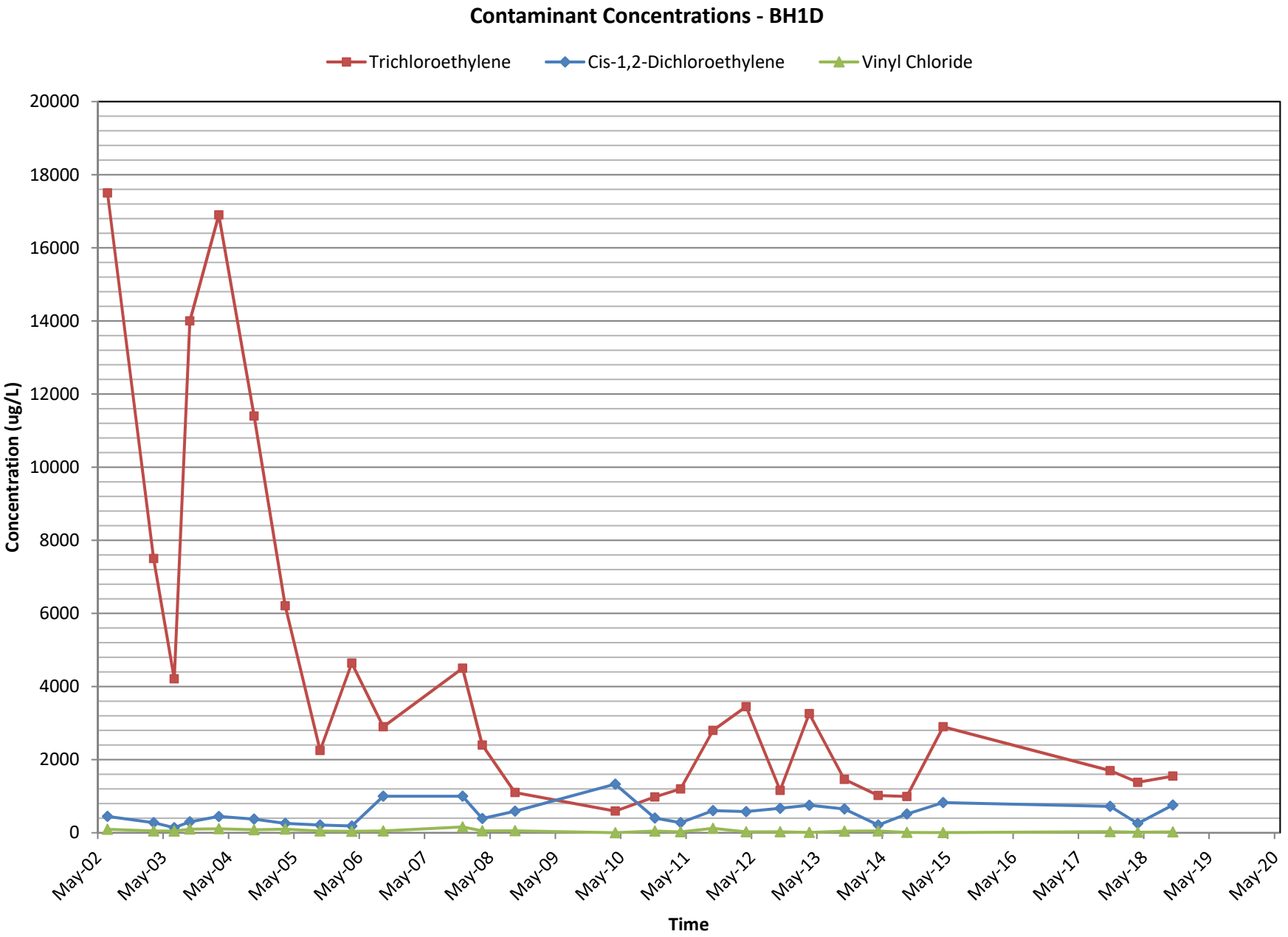
4 - When submitting a record of site condition for filing, a copy of this table must be attached

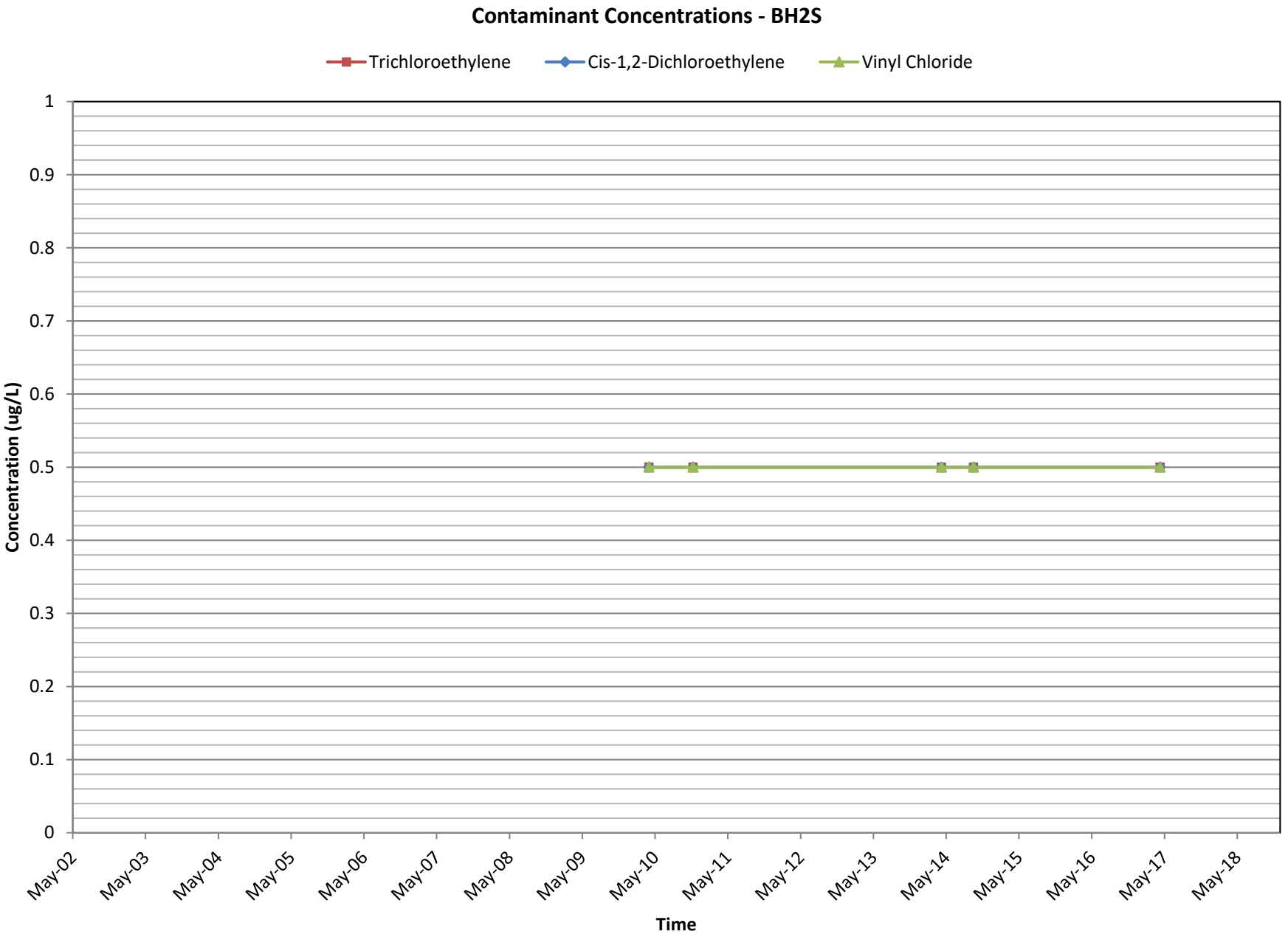
Cette publication hautement spécialisée n'est disponible qu'en anglais en vertu du règlement 671/92, qui en exempte l'application de la Loi sur les services en français. Pour obtenir de l'aide en francais, veuillez communiquer avec le ministère de l'Environnement et de l'Action en matière de changement climatique au 1-800-461-6290

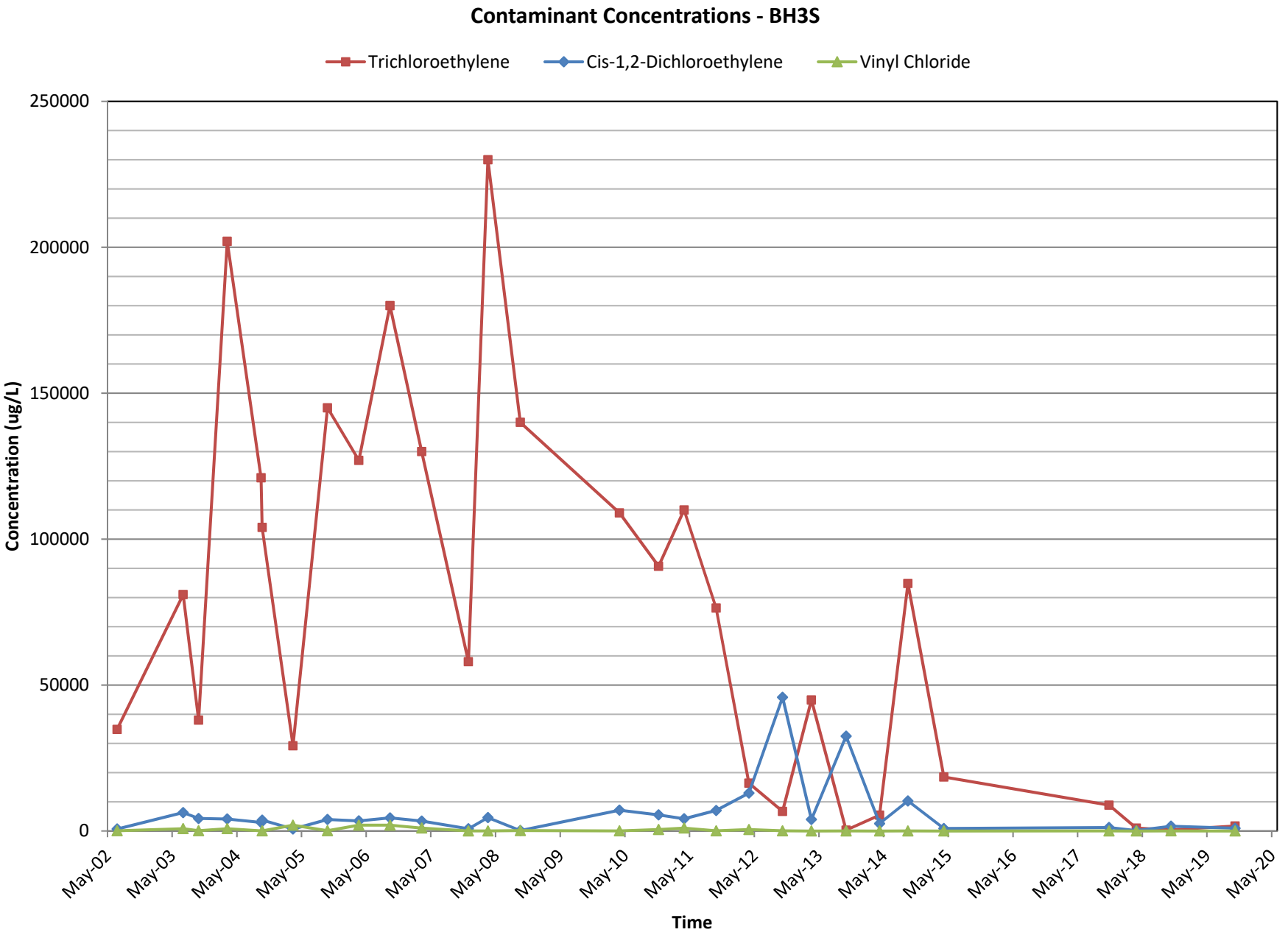
Appendix A8

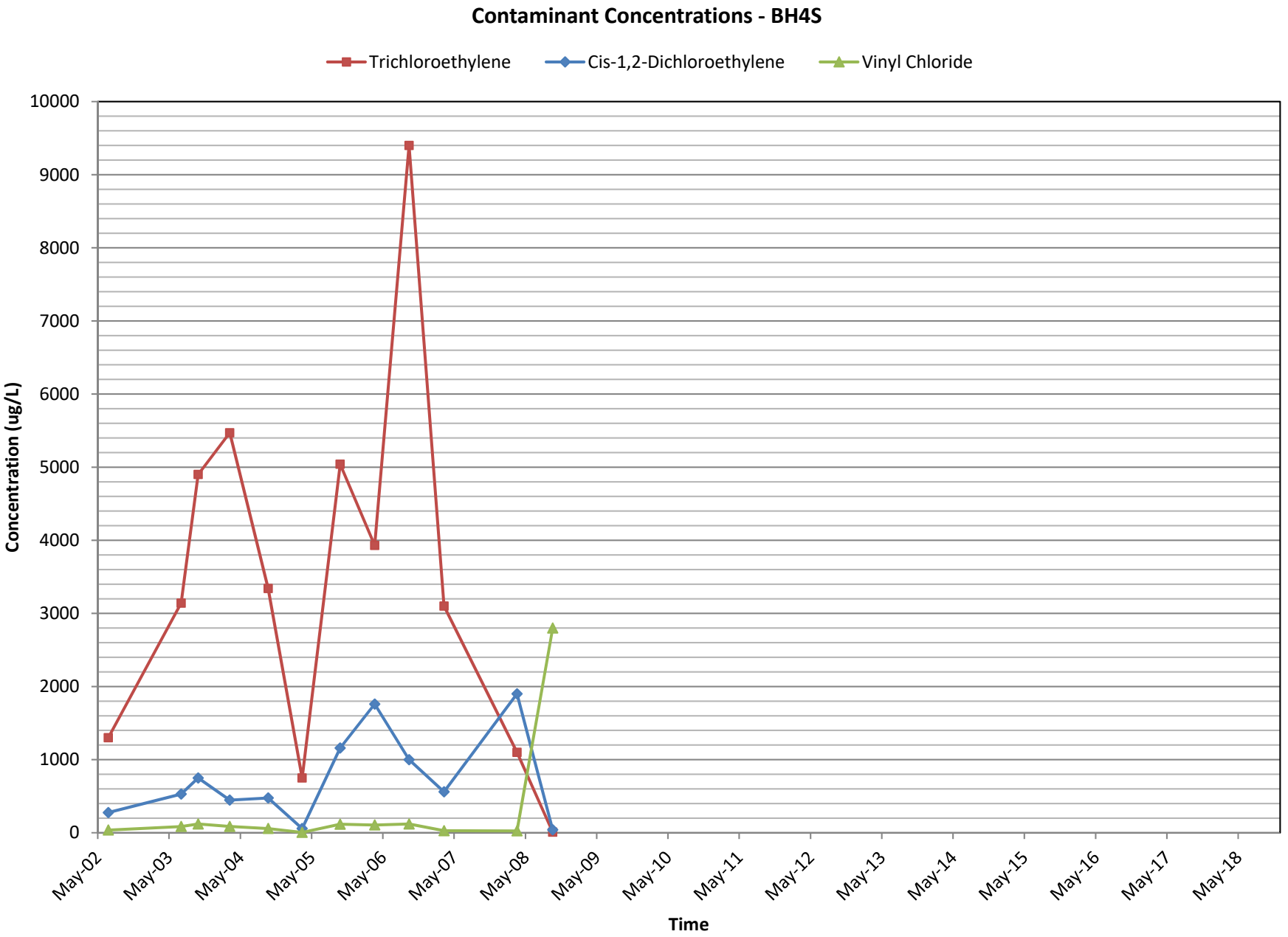
Trend Graphs

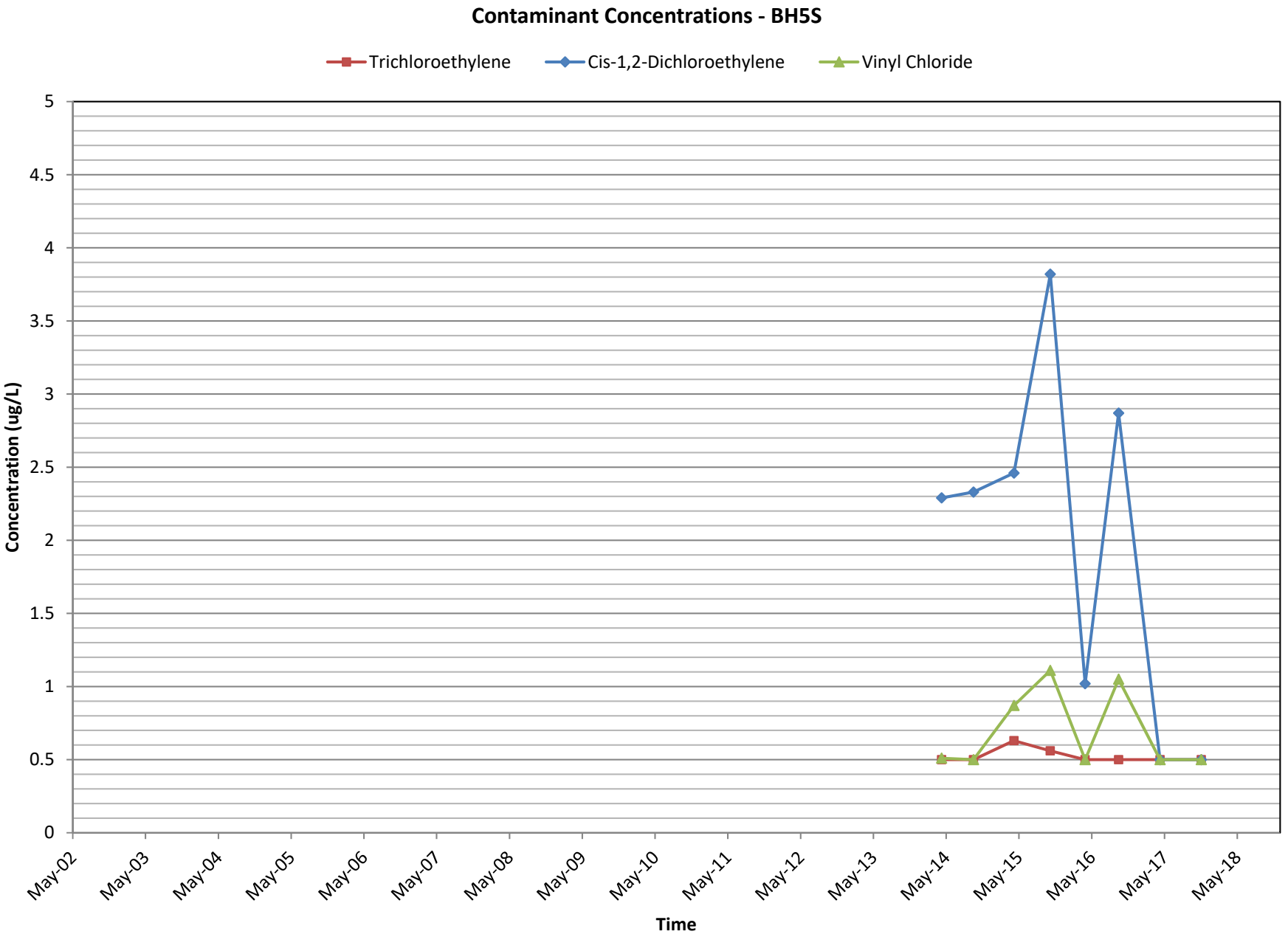

Contaminant Concentrations - BH1S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
12000
10000
8000
6000
4000
2000
0
Concentration (ug/L)
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

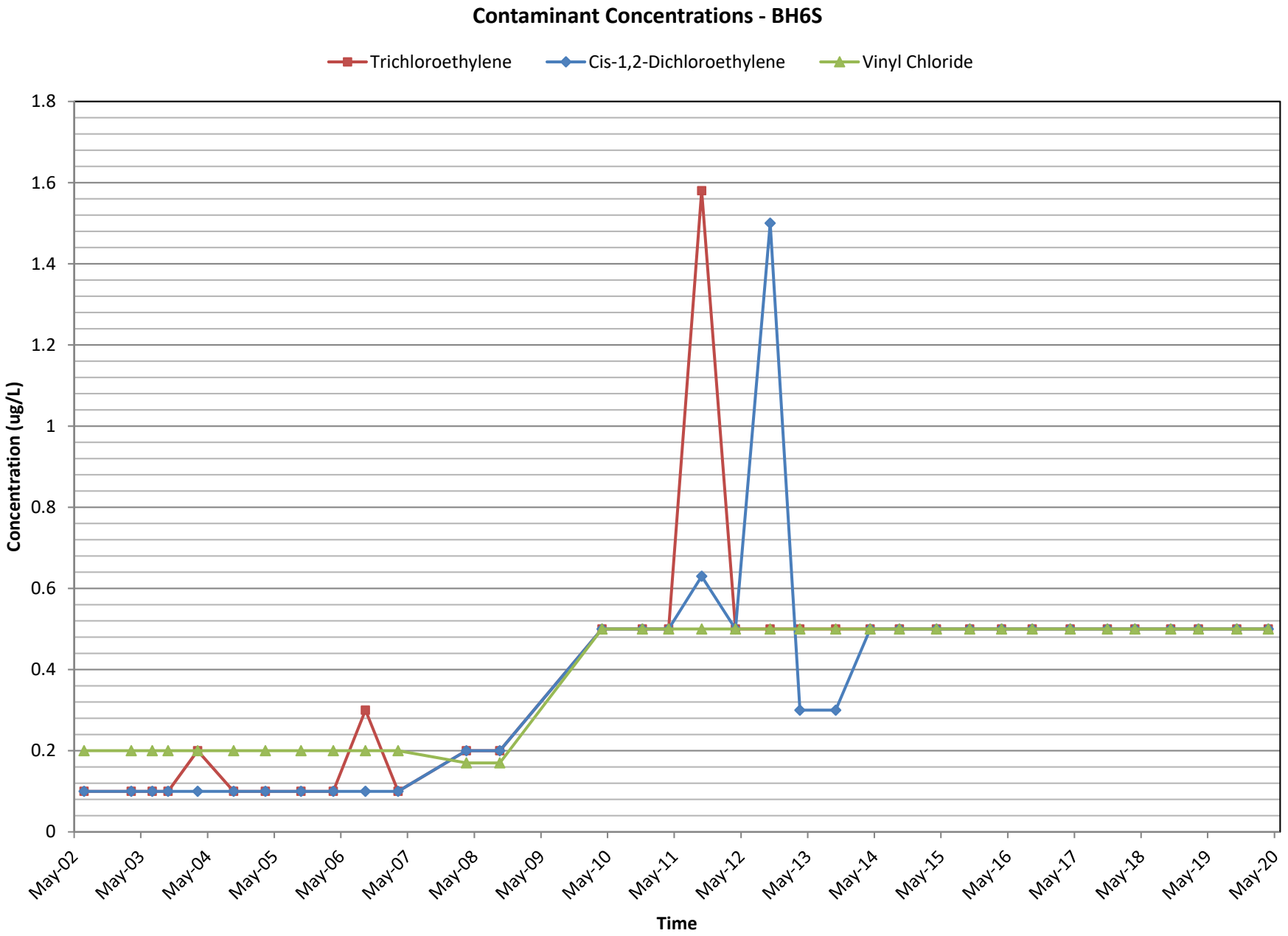

Contaminant Concentrations - BH1D
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

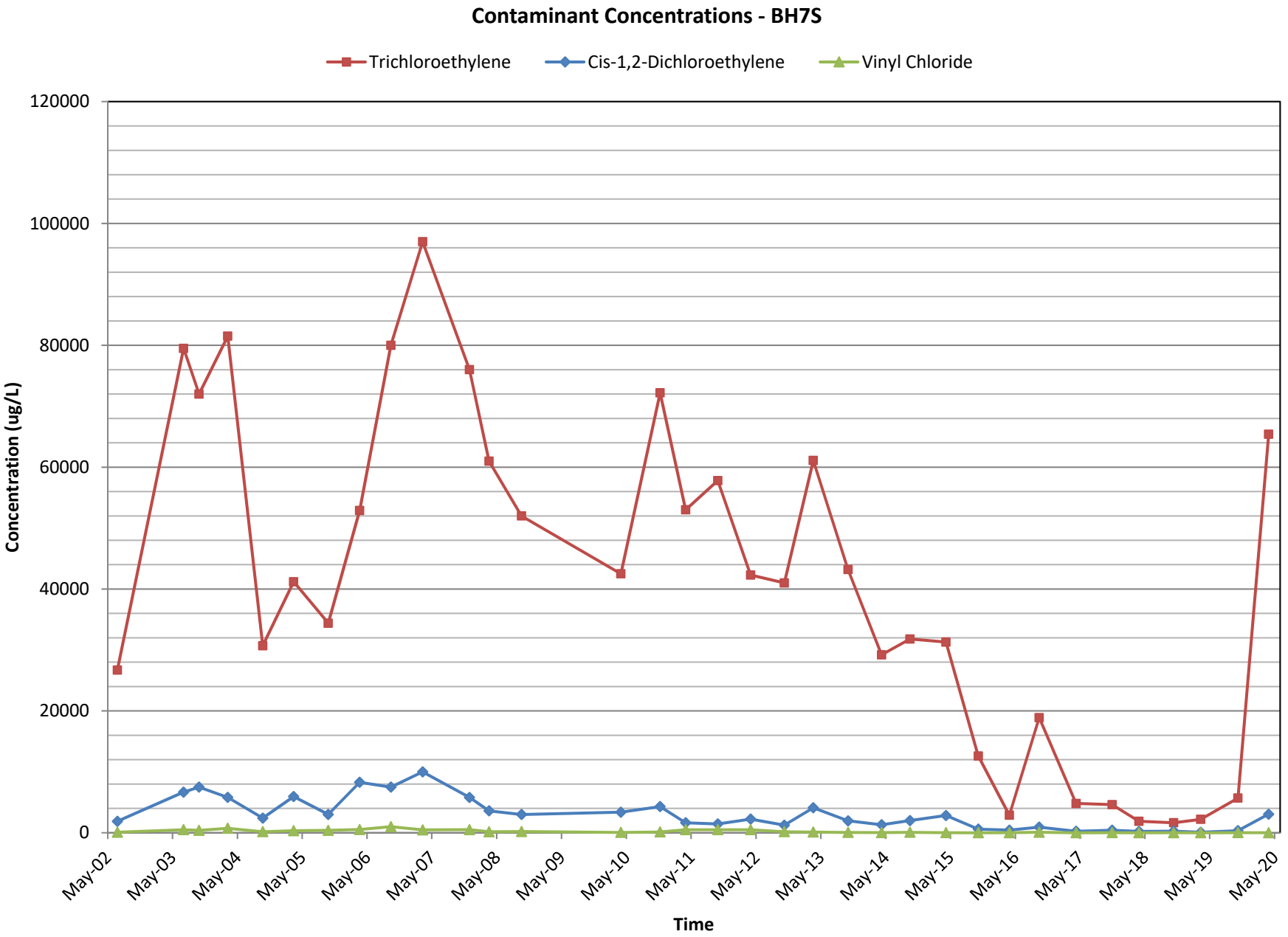

Contaminant Concentrations - BH2S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
Time

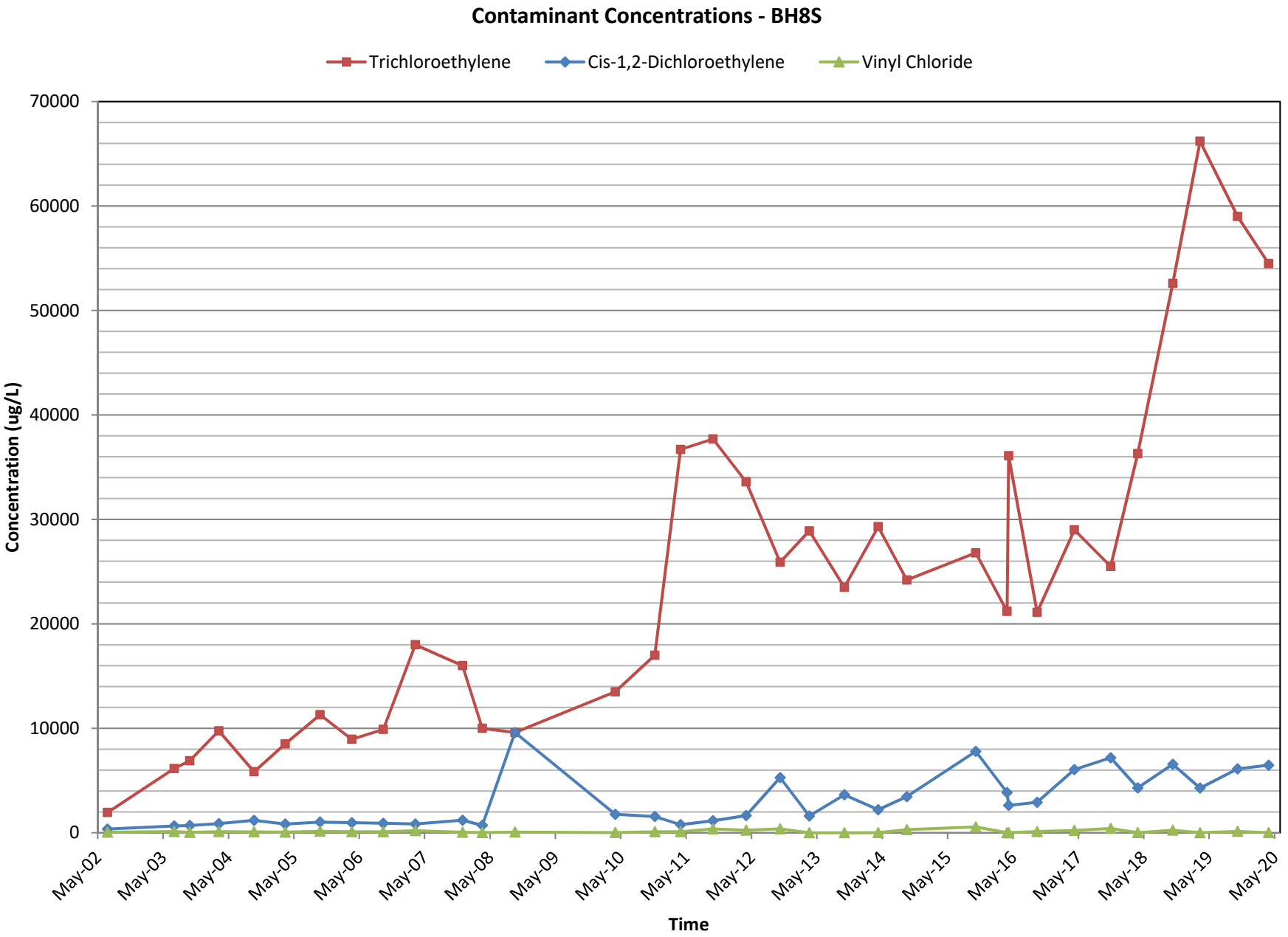

Contaminant Concentrations - BH3S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
250000
200000
150000
100000
50000
0
Concentration (ug/L)
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

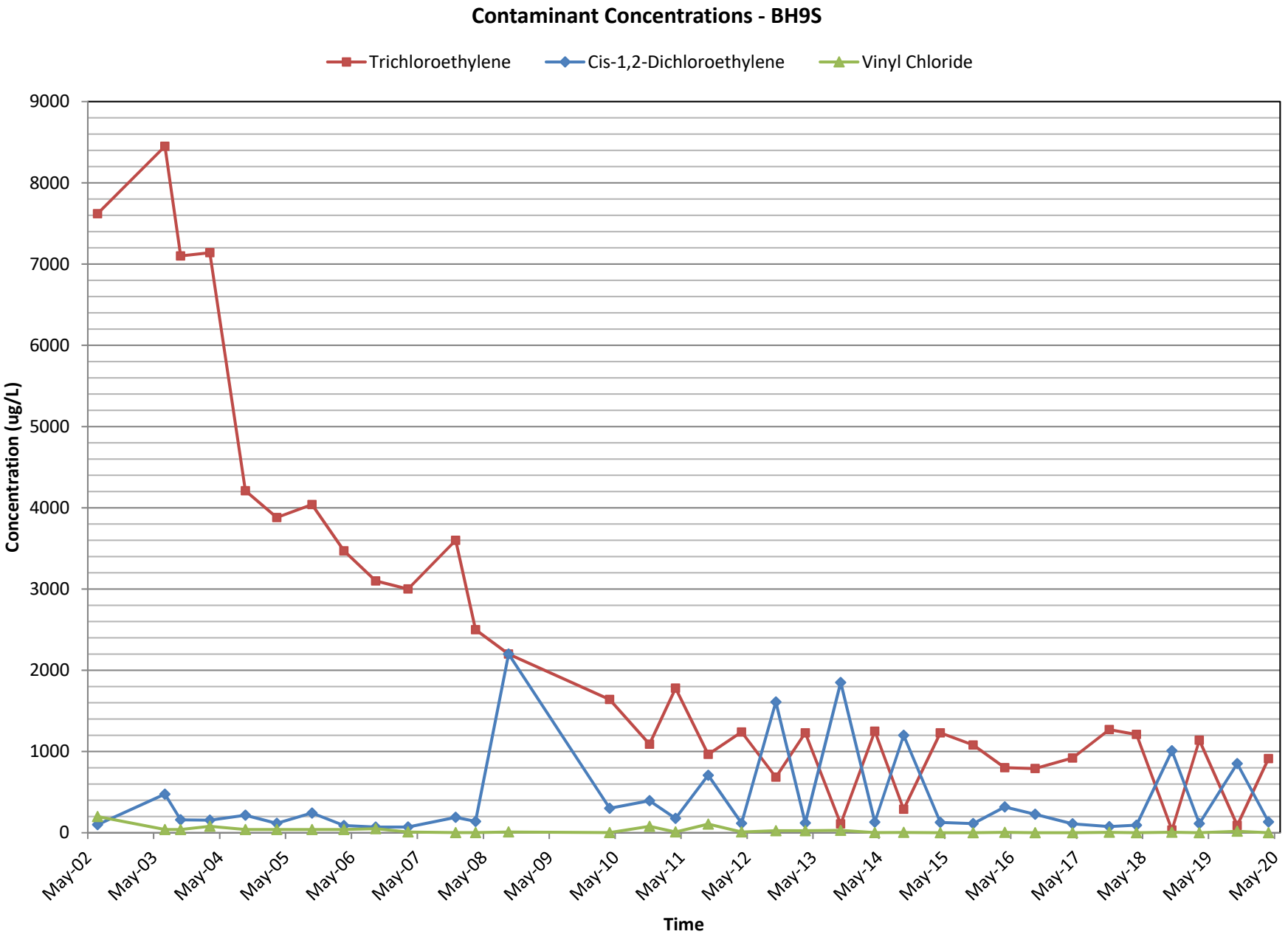

Contaminant Concentrations - BH4S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
Time

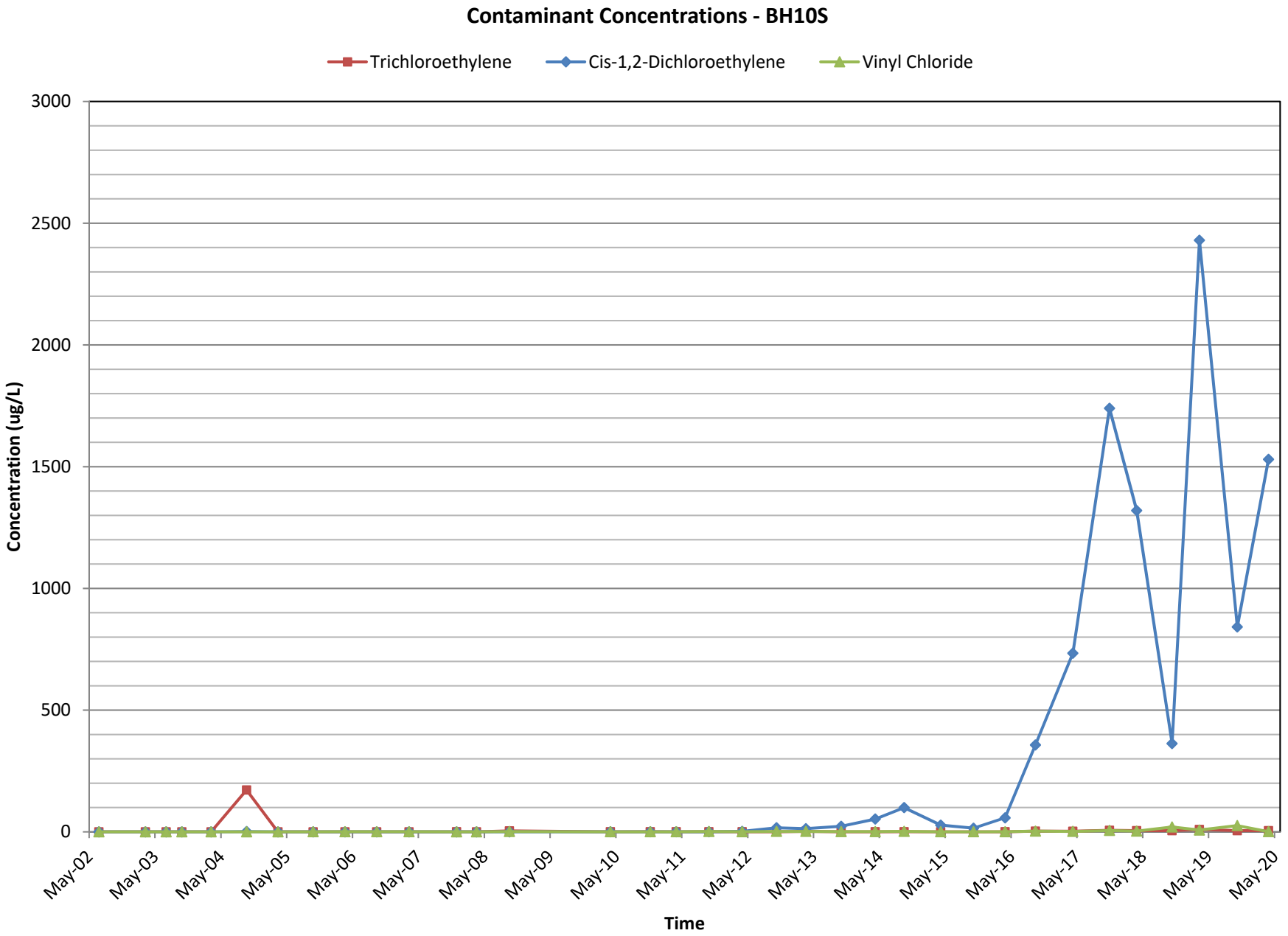

Contaminant Concentrations - BH5S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
Time

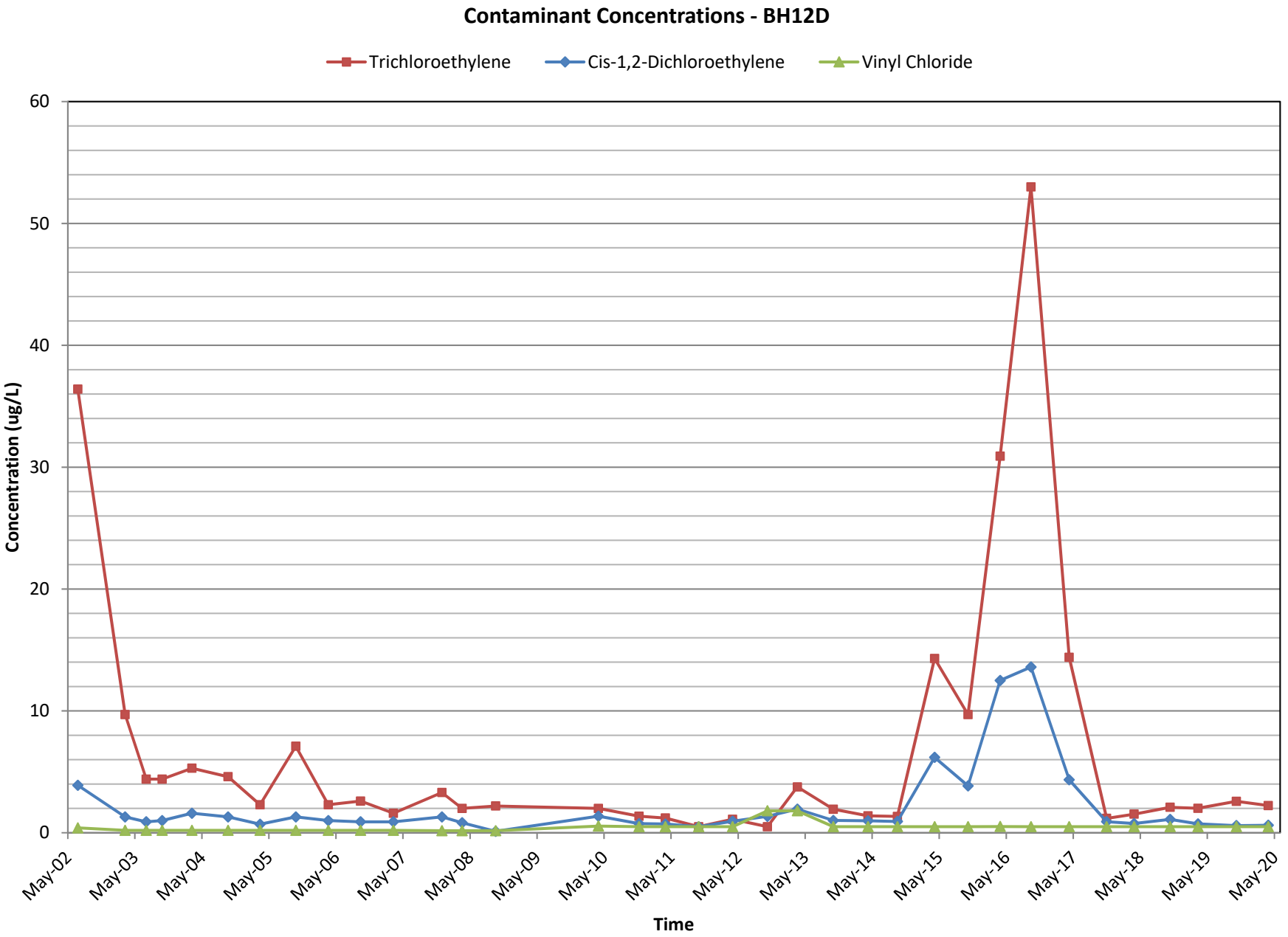

Contaminant Concentrations - BH6S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

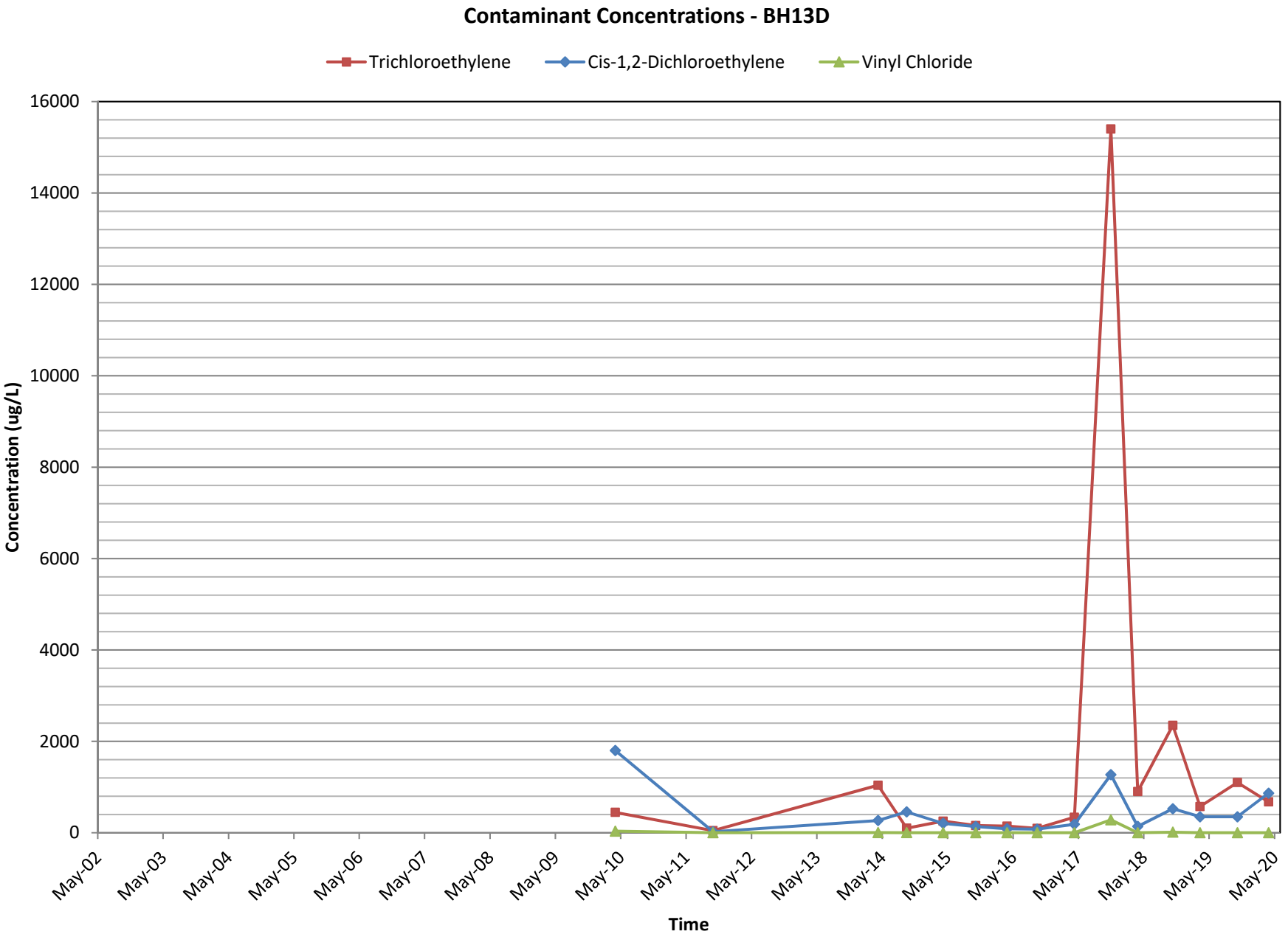

Contaminant Concentrations - BH7S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
120000
100000
80000
60000
40000
20000
0
Concentration (ug/L)
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

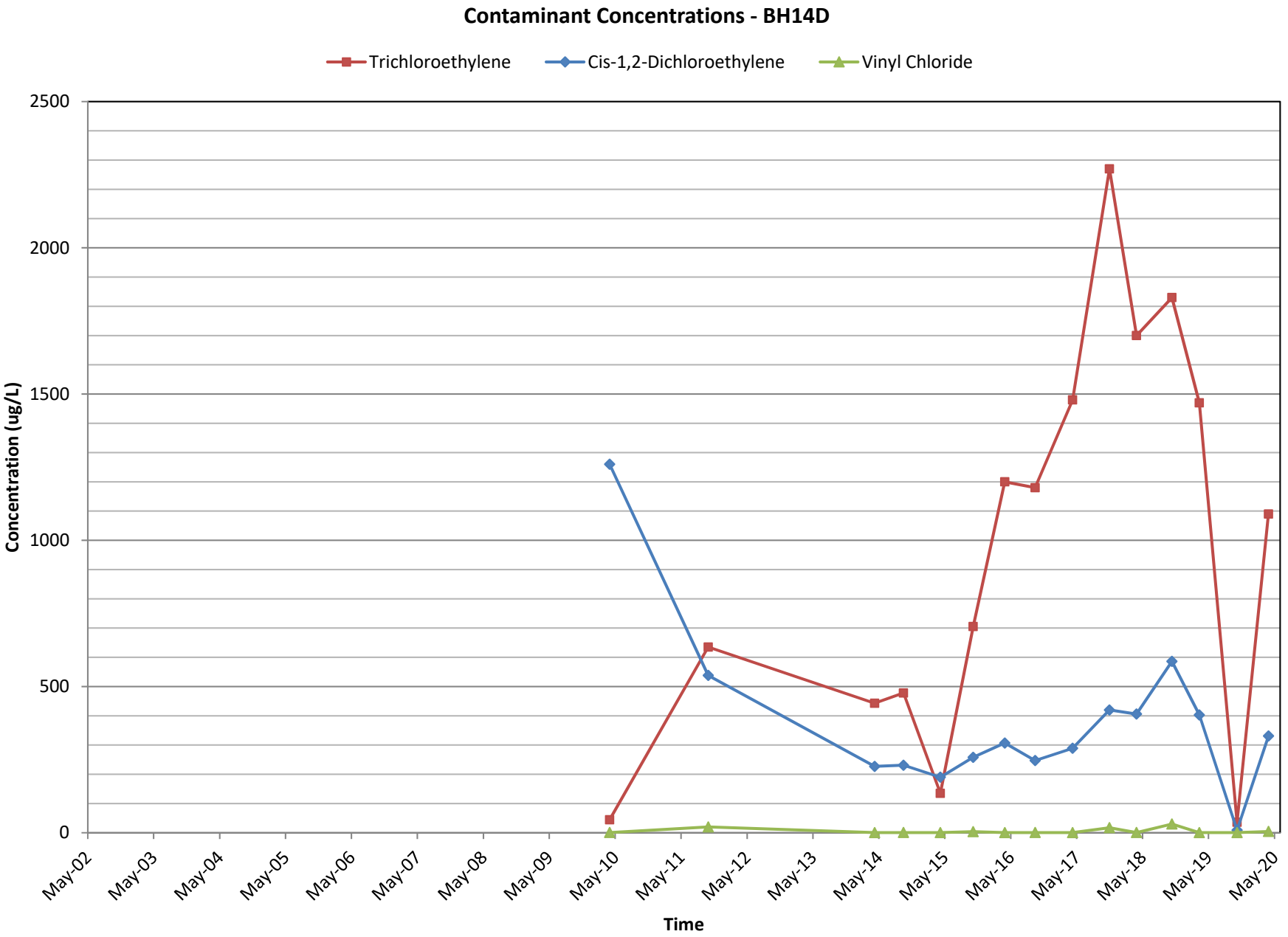

Contaminant Concentrations - BH8S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
70000
60000
50000
40000
30000
20000
10000
0
Concentration (ug/L)
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

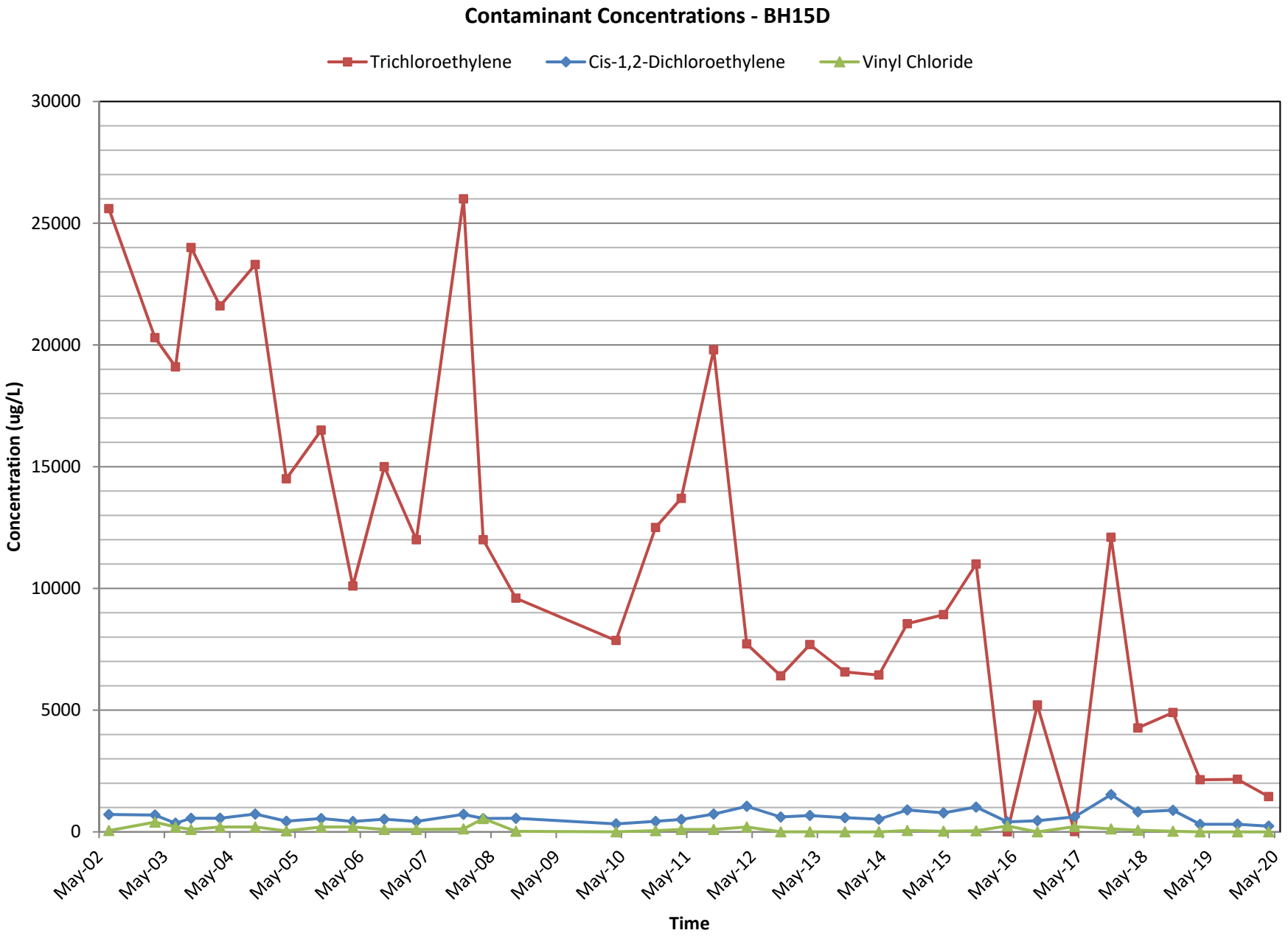

Contaminant Concentrations - BH9S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

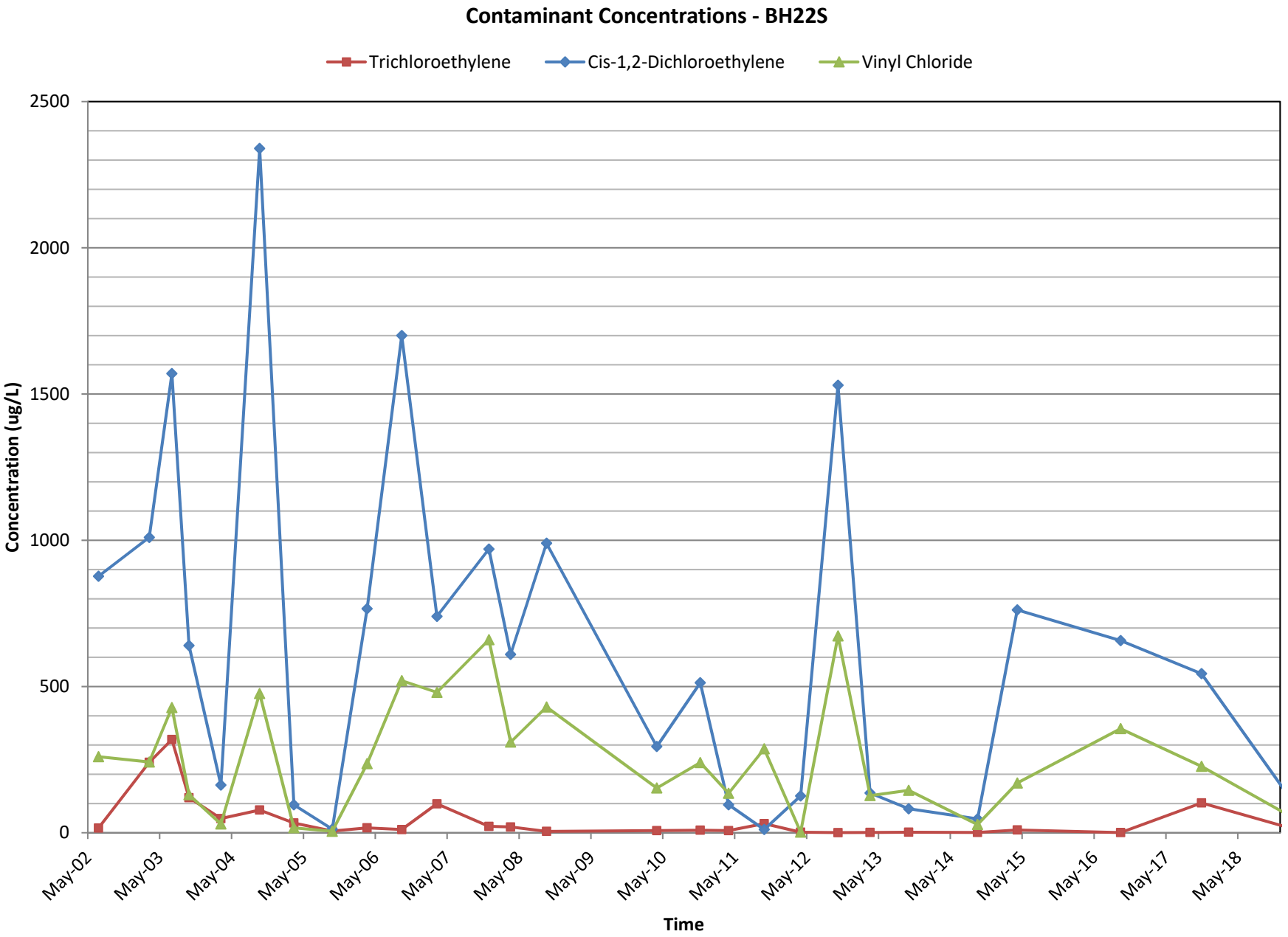

Contaminant Concentrations - BH10S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
3000
2500
2000
1500
1000
500
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

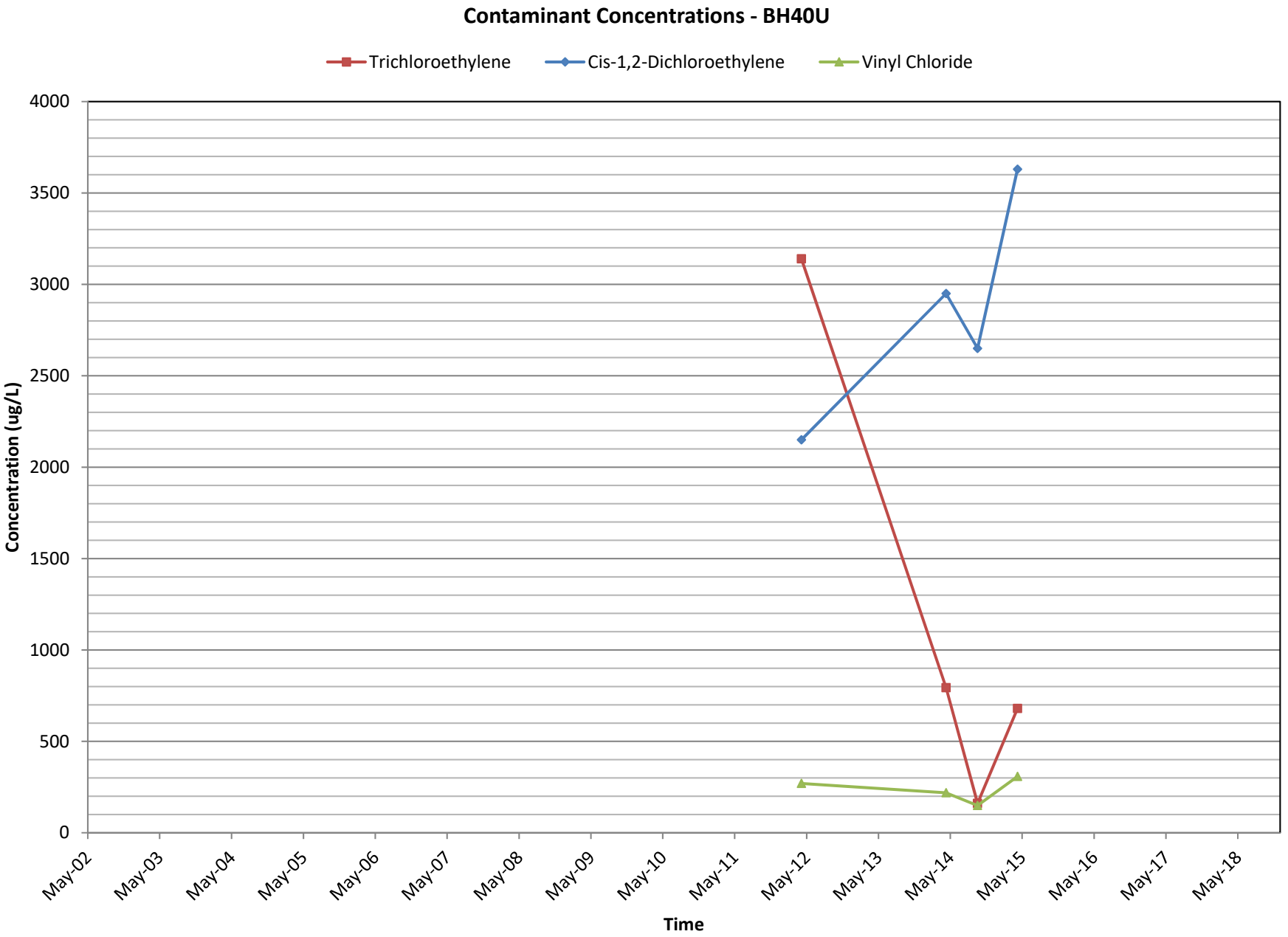

Contaminant Concentrations - BH12D
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
60
50
40
30
20
10
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

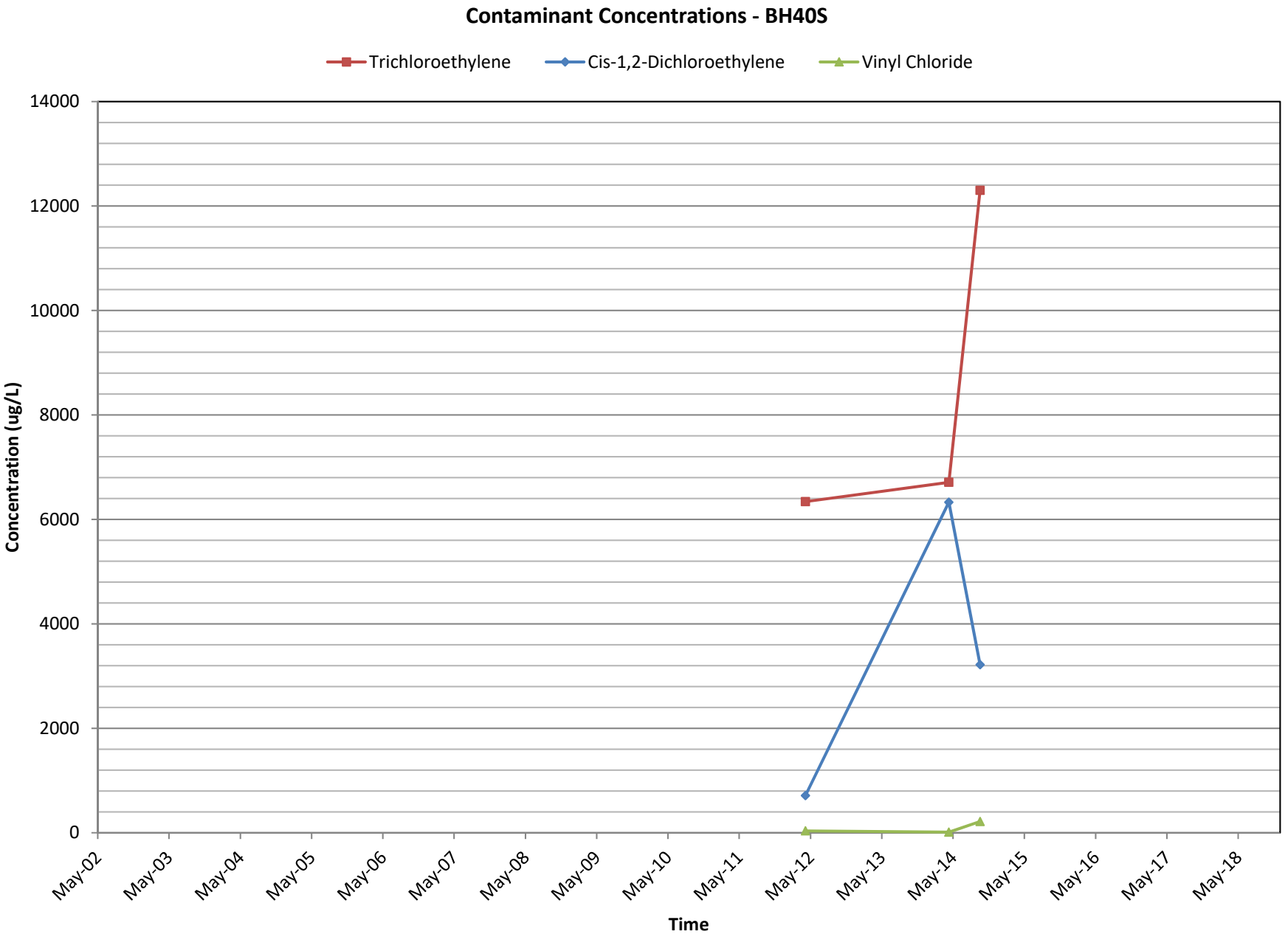

Contaminant Concentrations - BH13D
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
16000
14000
12000
10000
8000
6000
4000
2000
0
Concentration (ug/L)
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

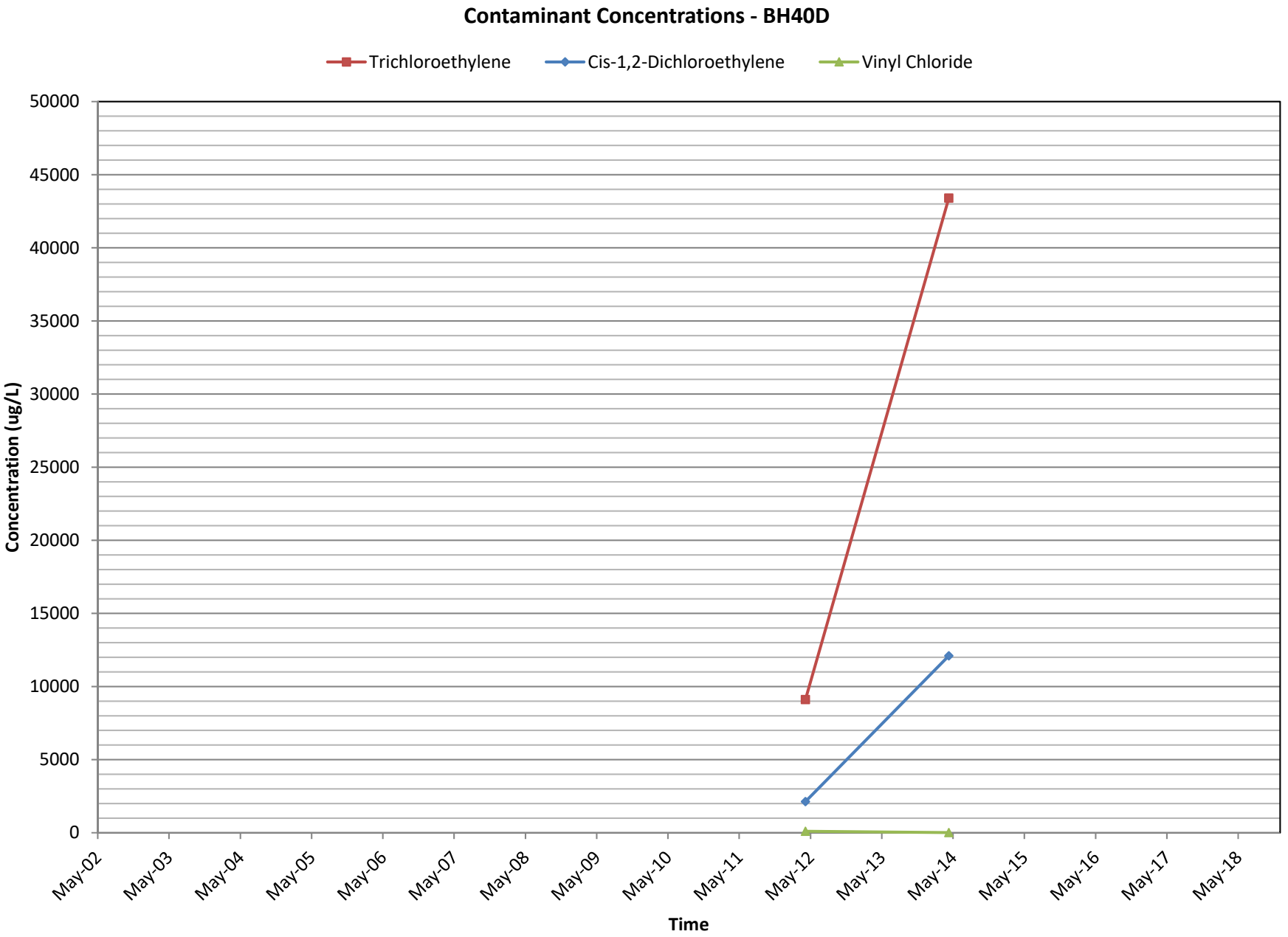

Contaminant Concentrations - BH14D
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
2500
2000
1500
1000
500
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

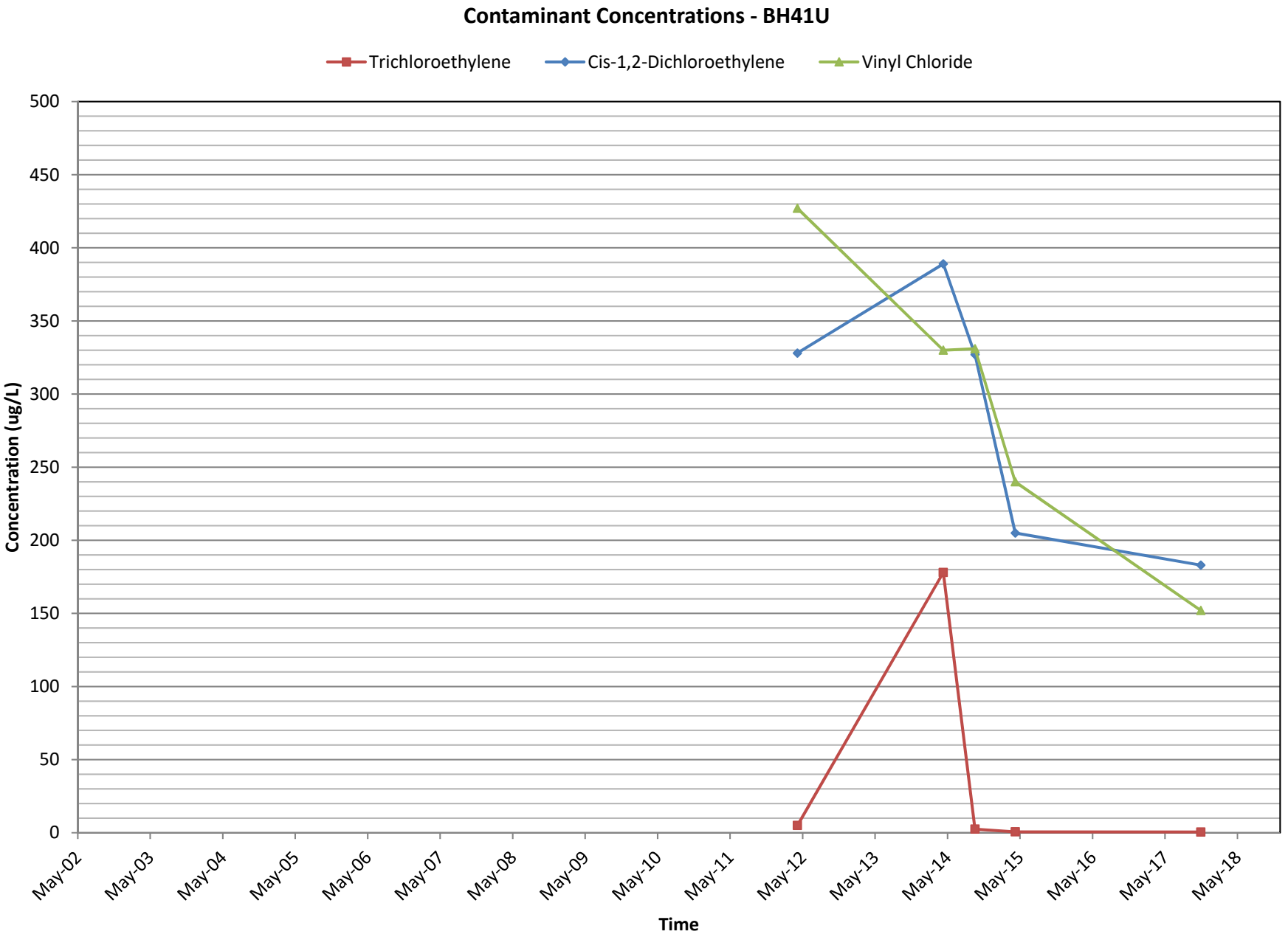

Contaminant Concentrations - BH15D
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
30000
25000
20000
15000
10000
5000
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
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May-18
May-19
May-20
Time

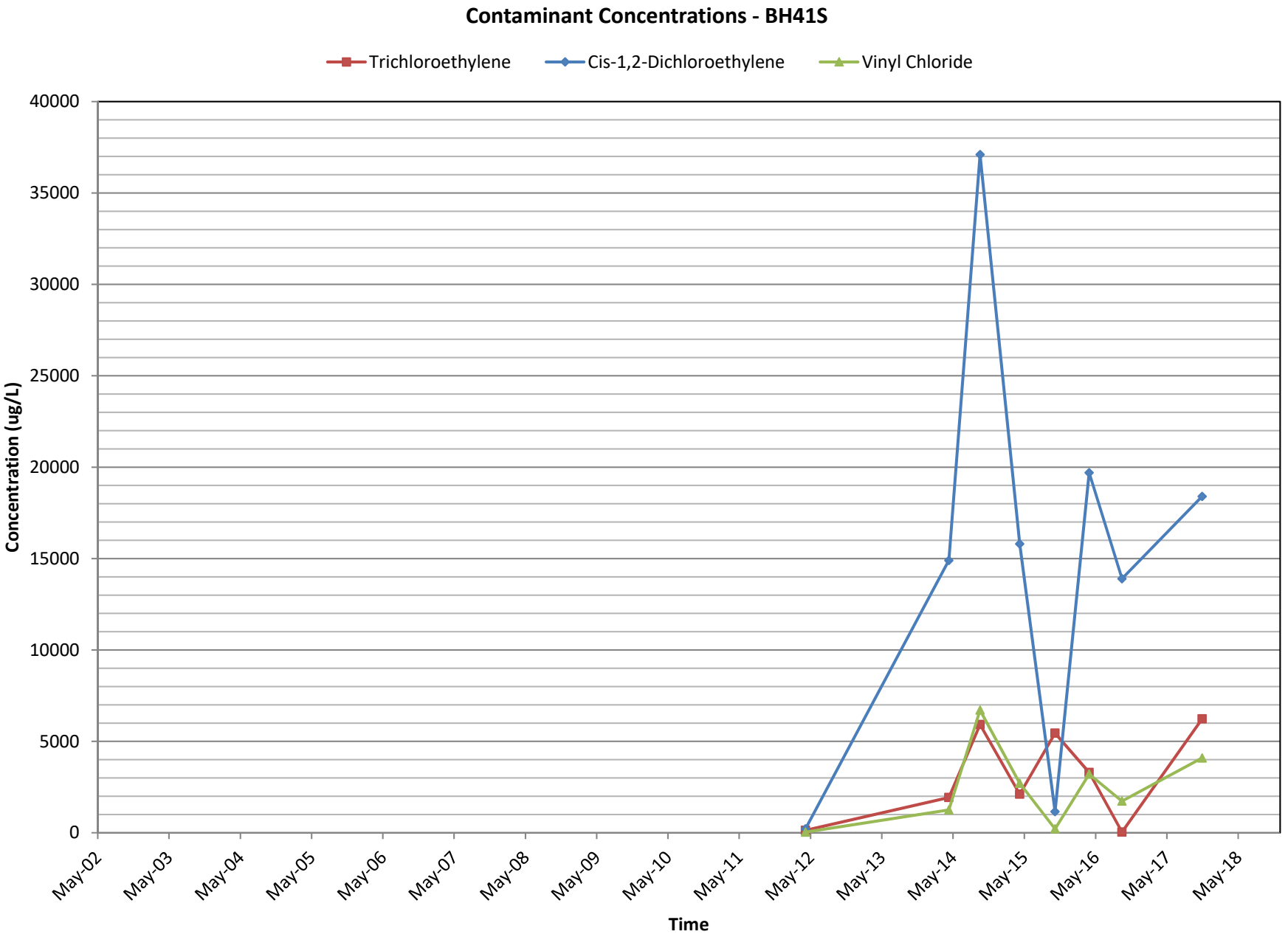

Contaminant Concentrations - BH22S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
2500
2000
1500
1000
500
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
Time

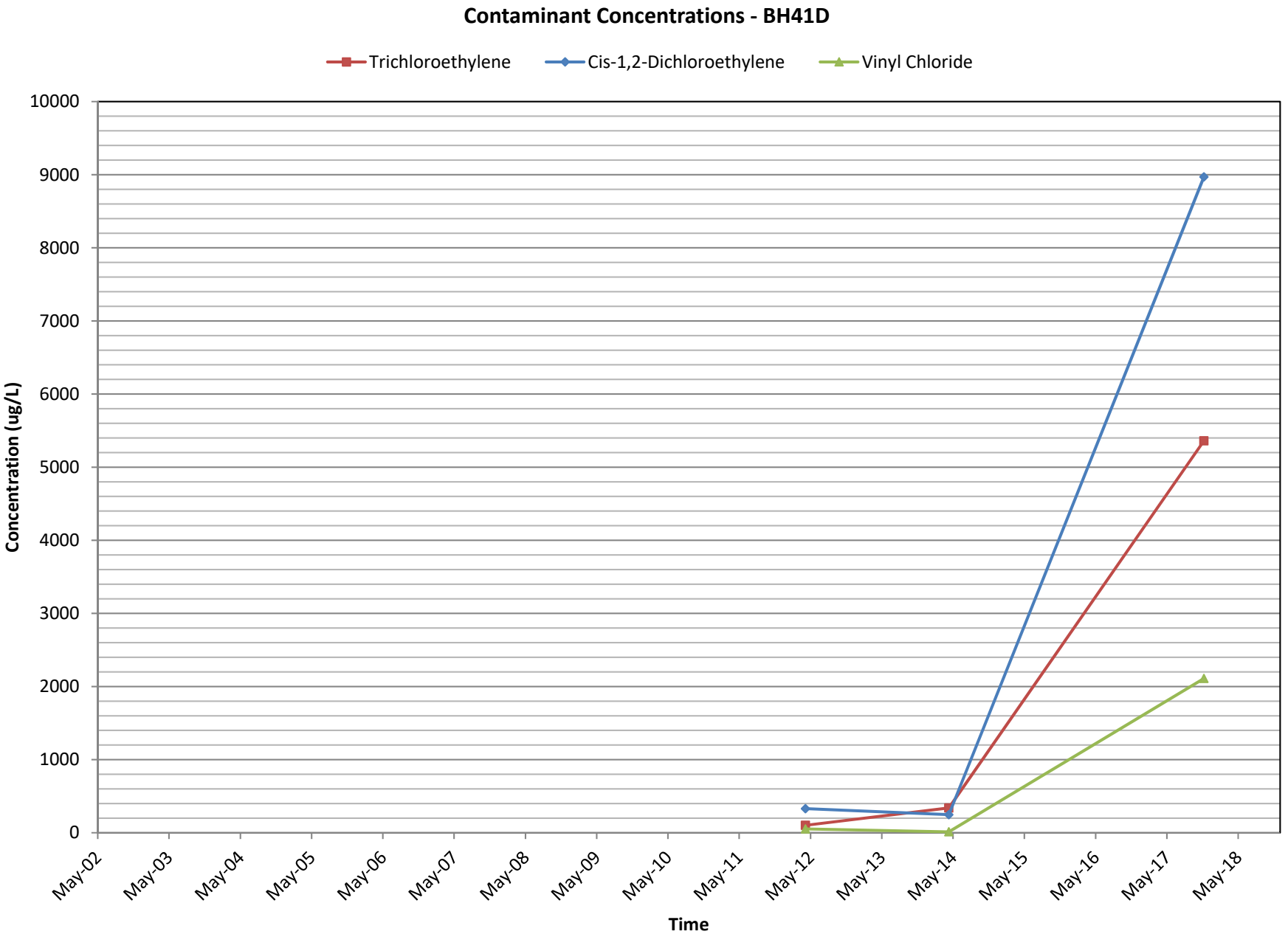

Contaminant Concentrations - BH40U
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
4000
3500
3000
2500
2000
1500
1000
500
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
Time

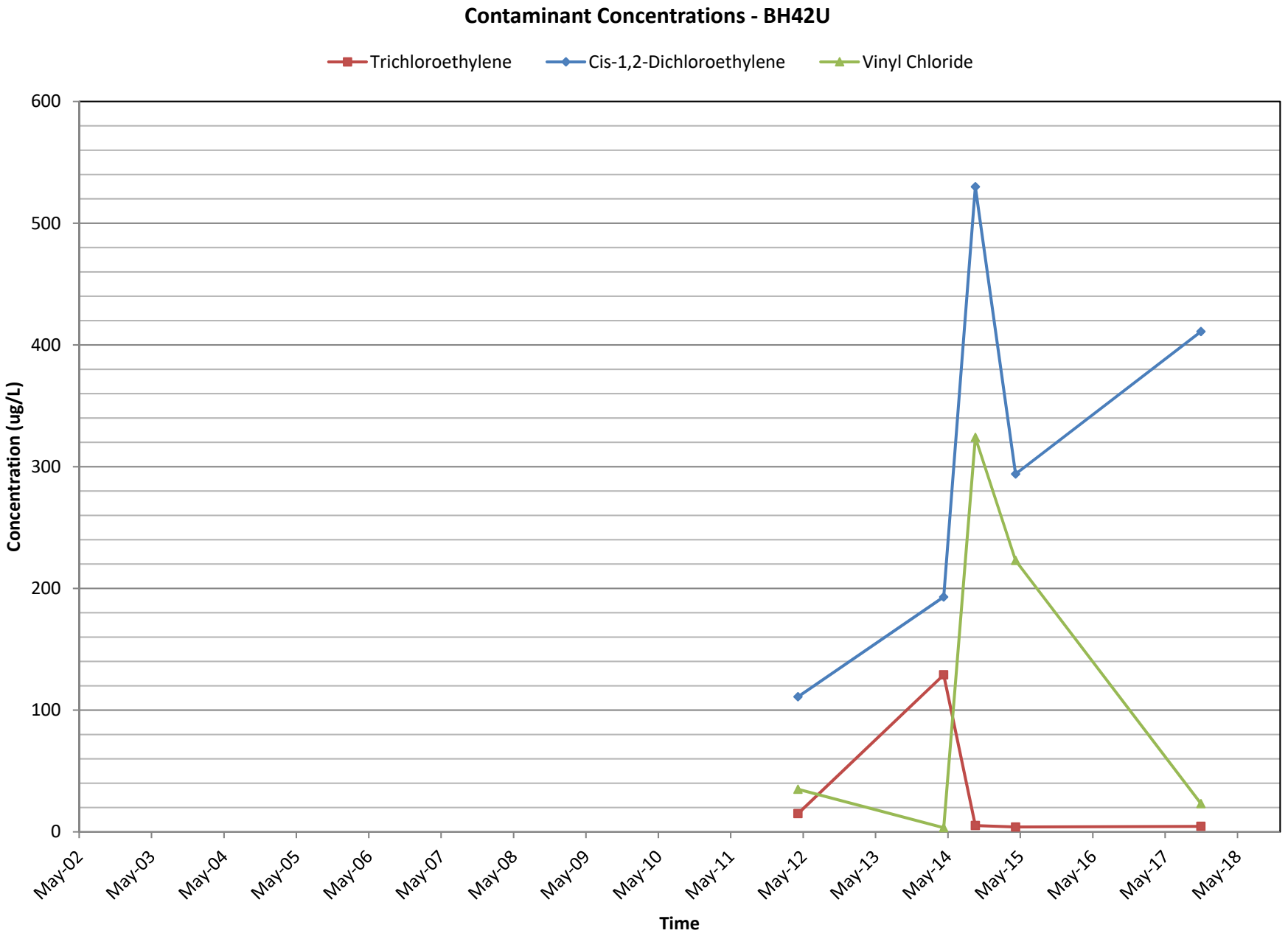

Contaminant Concentrations - BH40S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
14000
12000
10000
8000
6000
4000
2000
0
Concentration (ug/L)
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
Time

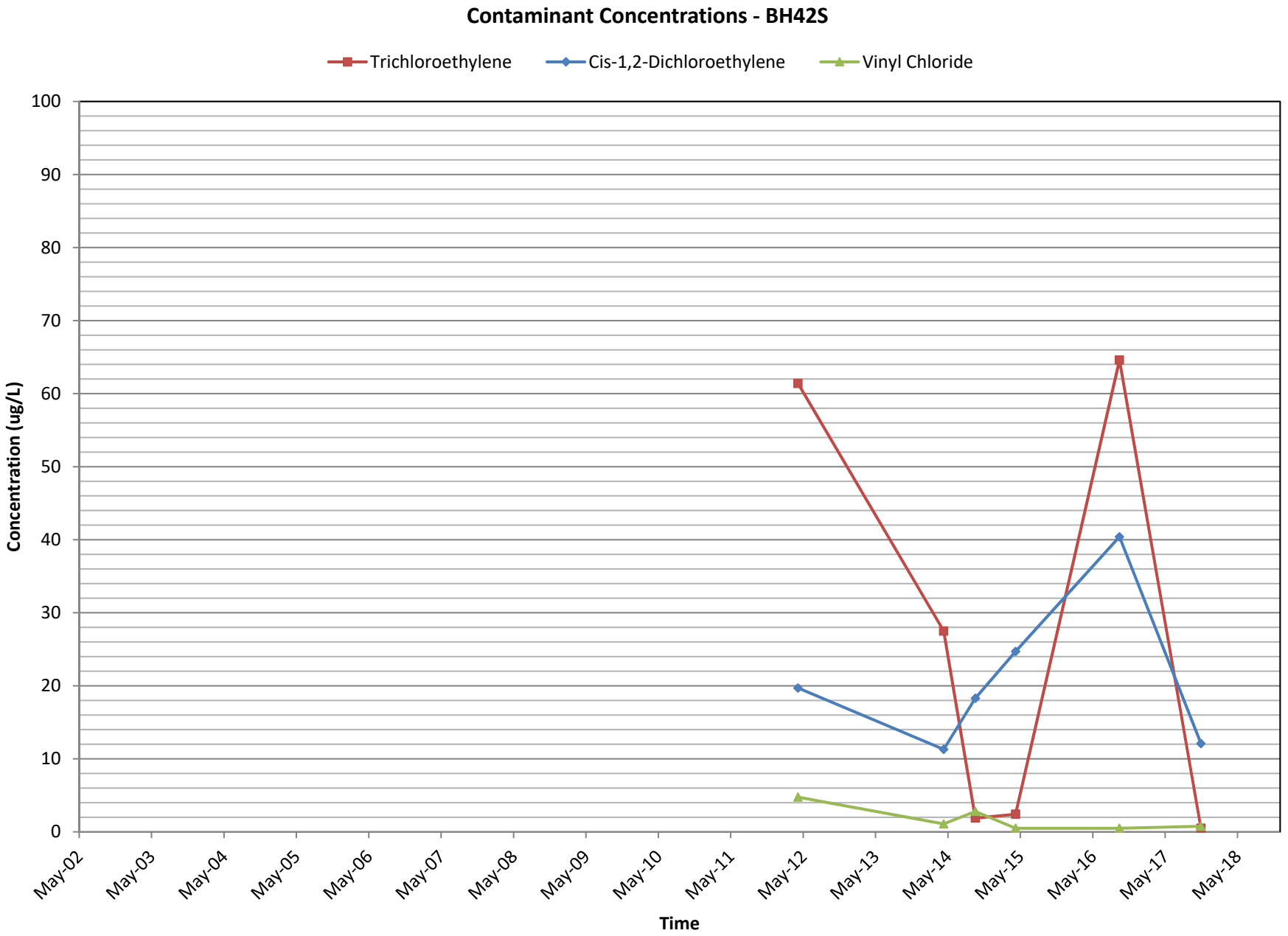

Contaminant Concentrations - BH40D
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
Time

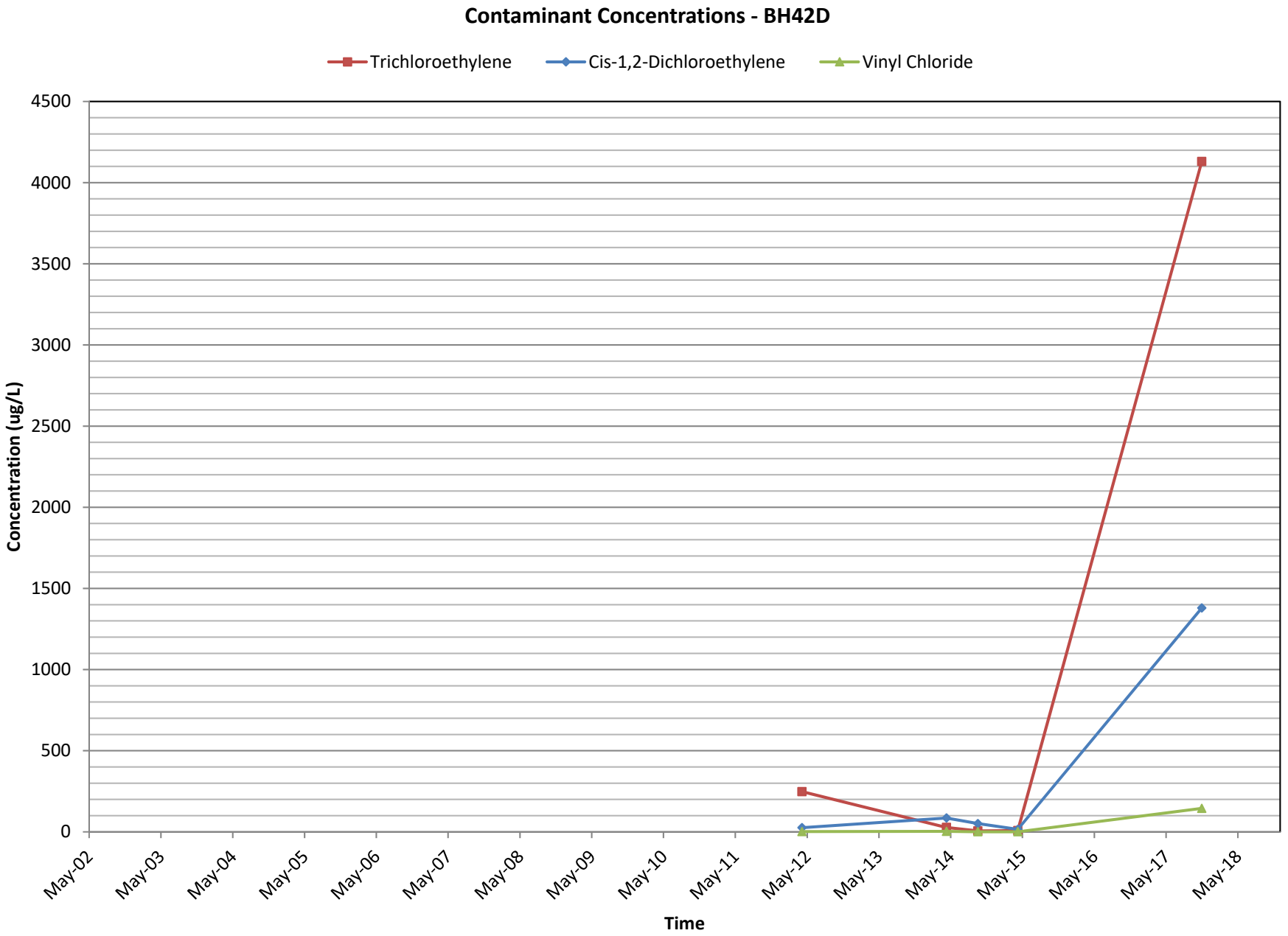

Contaminant Concentrations - BH41U
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
500
450
400
350
300
250
200
150
100
50
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
Time

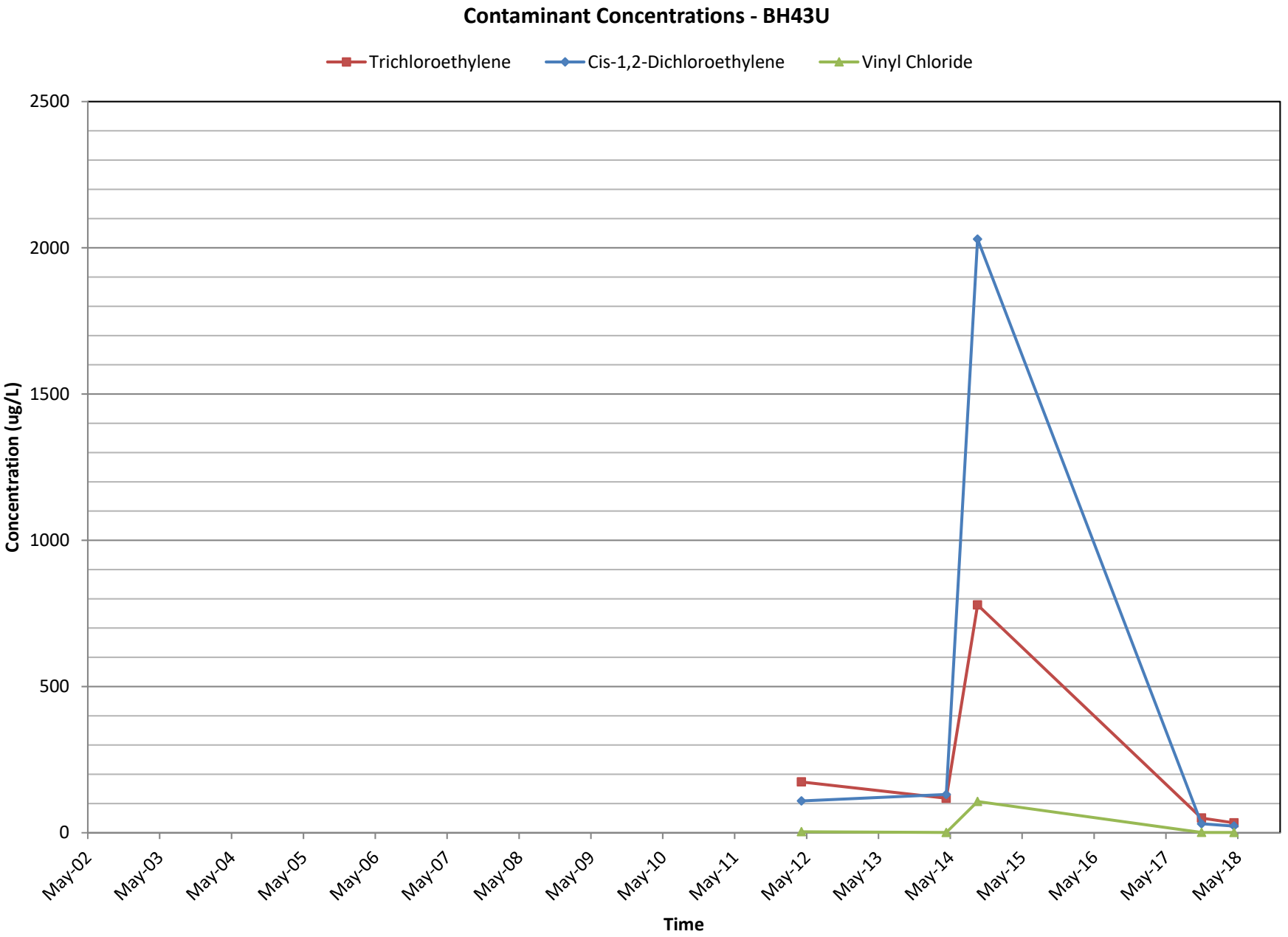

Contaminant Concentrations - BH41S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
40000
35000
30000
25000
20000
15000
10000
5000
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
Time

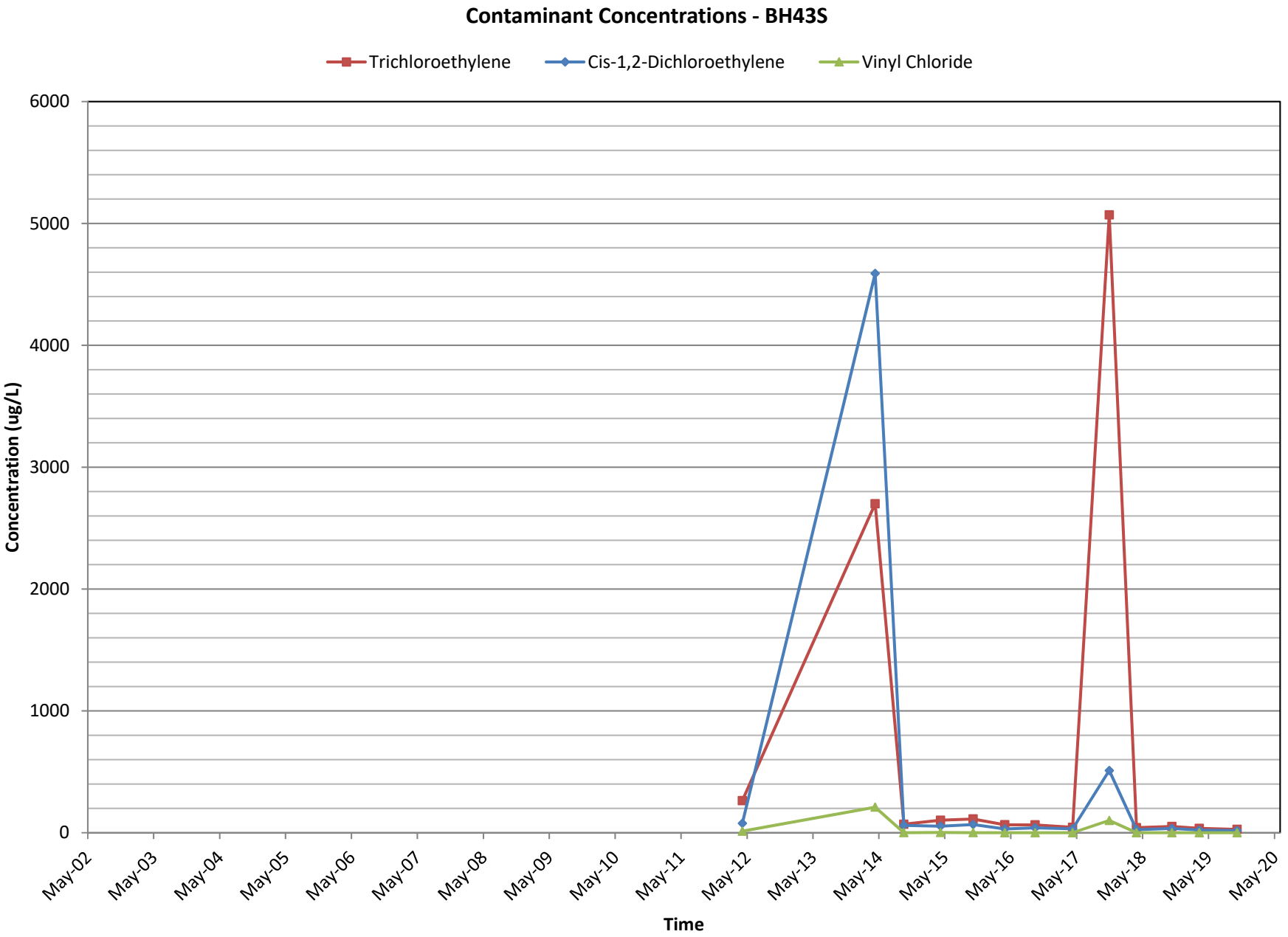

Contaminant Concentrations - BH41D
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
Concentration (ug/L)
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
Time

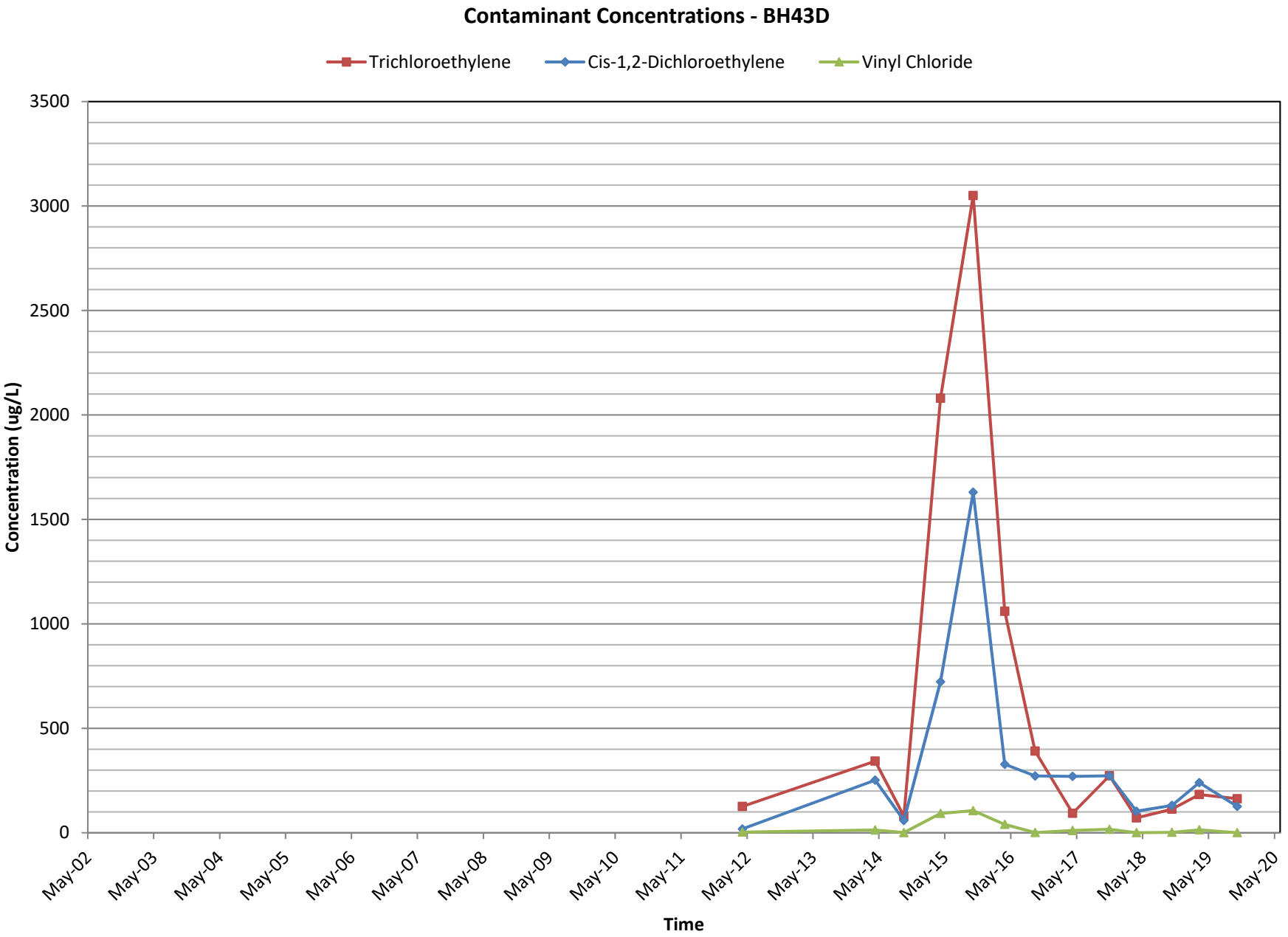

Contaminant Concentrations - BH42U
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
600
500
400
300
200
100
0
Concentration (ug/L)
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
Time

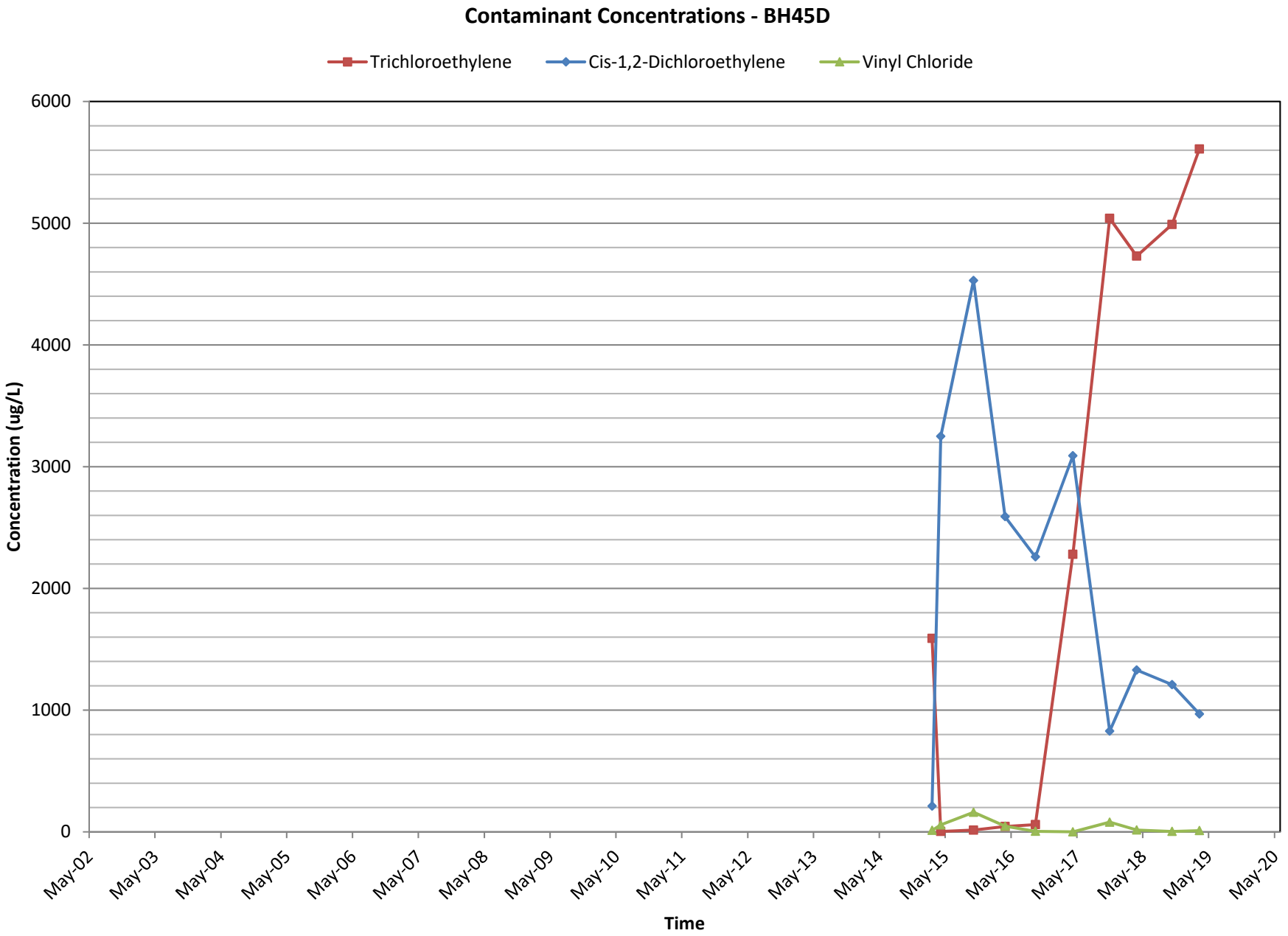

Contaminant Concentrations - BH42S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
100
90
80
70
60
50
40
30
20
10
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
Time

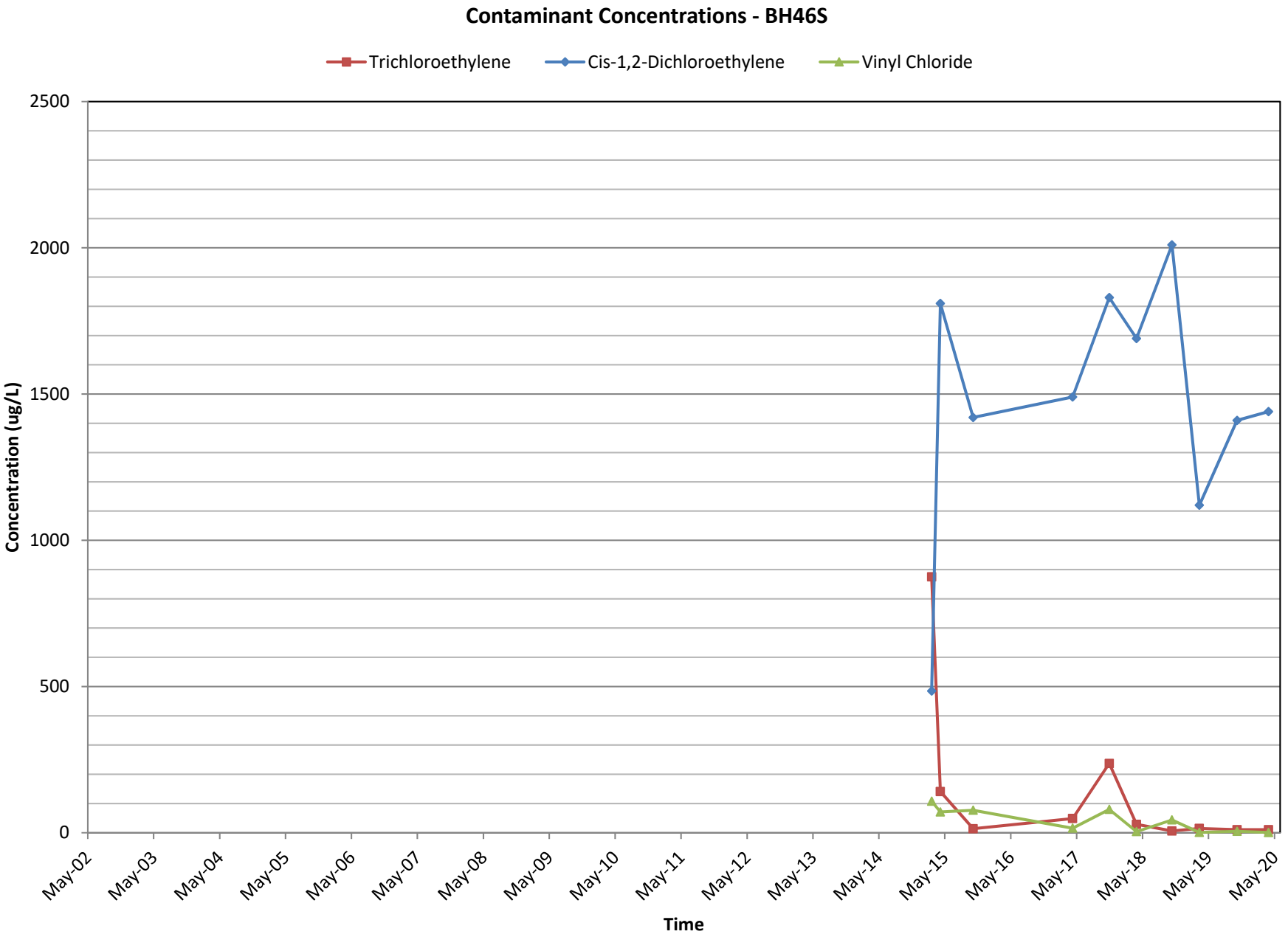

Contaminant Concentrations - BH42D
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
Time

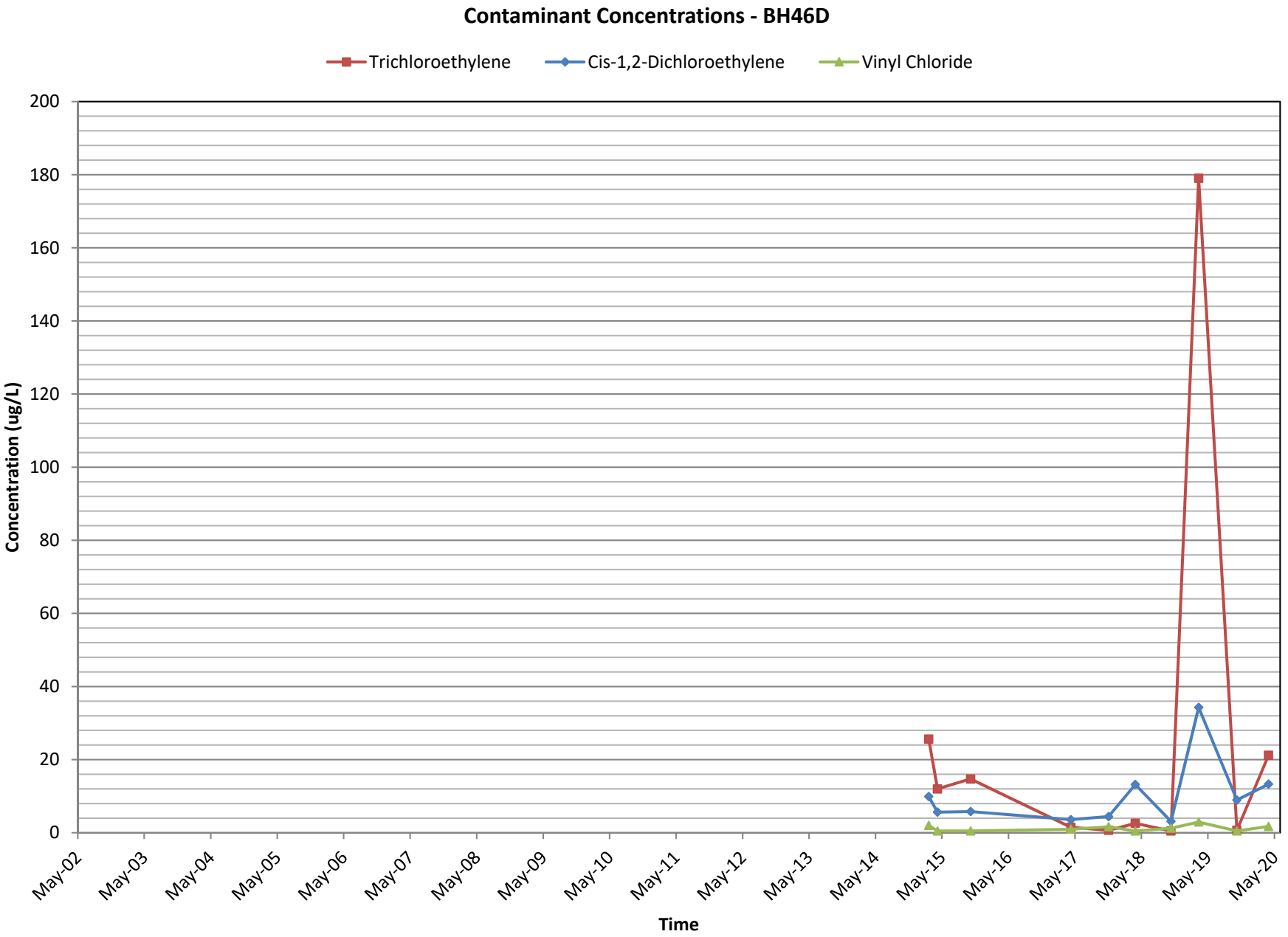

Contaminant Concentrations - BH43U
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
2500
2000
1500
1000
500
0
Concentration (ug/L)
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
Time

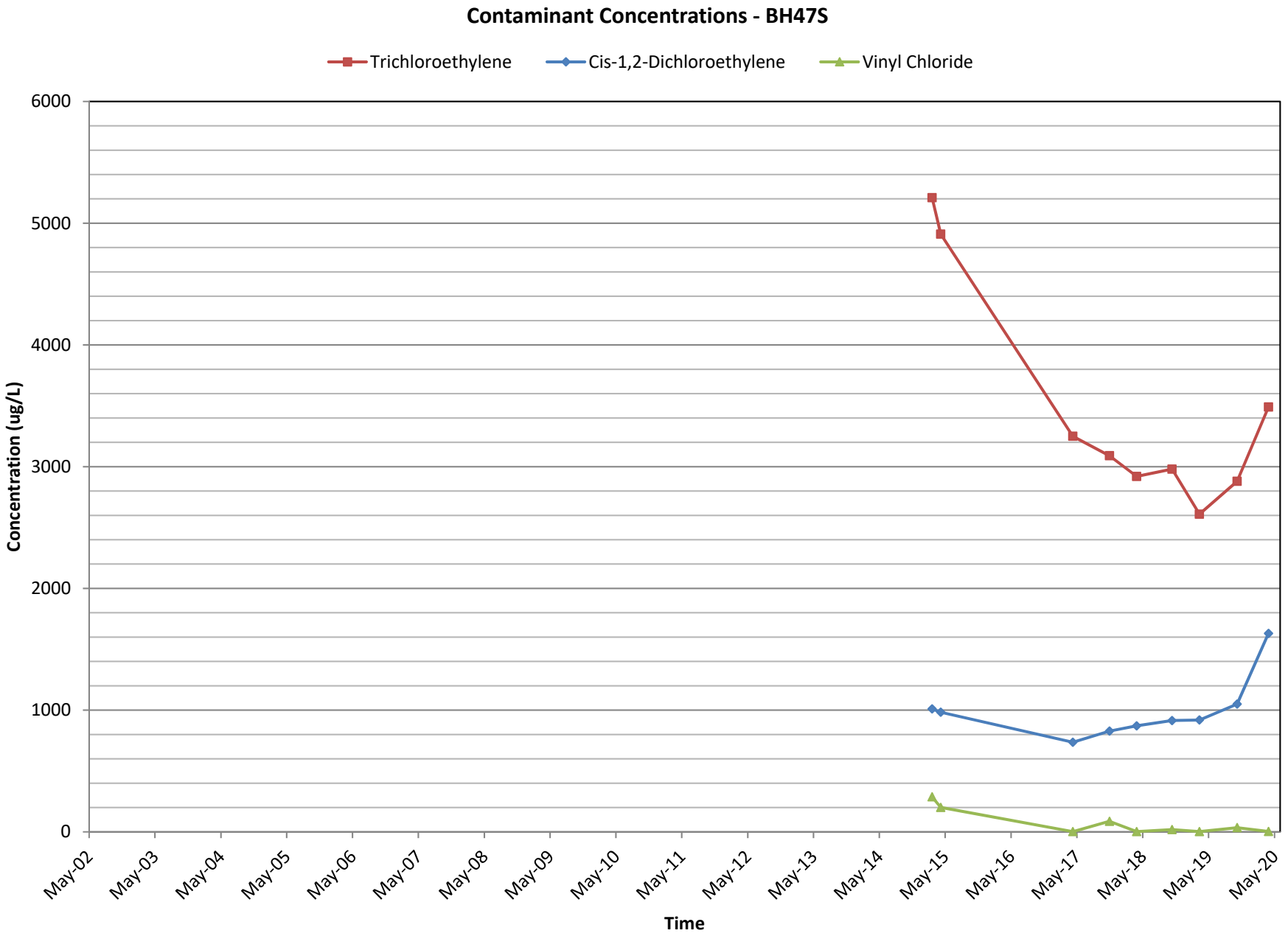

Contaminant Concentrations - BH43S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
6000
5000
4000
3000
2000
1000
0
Concentration (ug/L)
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

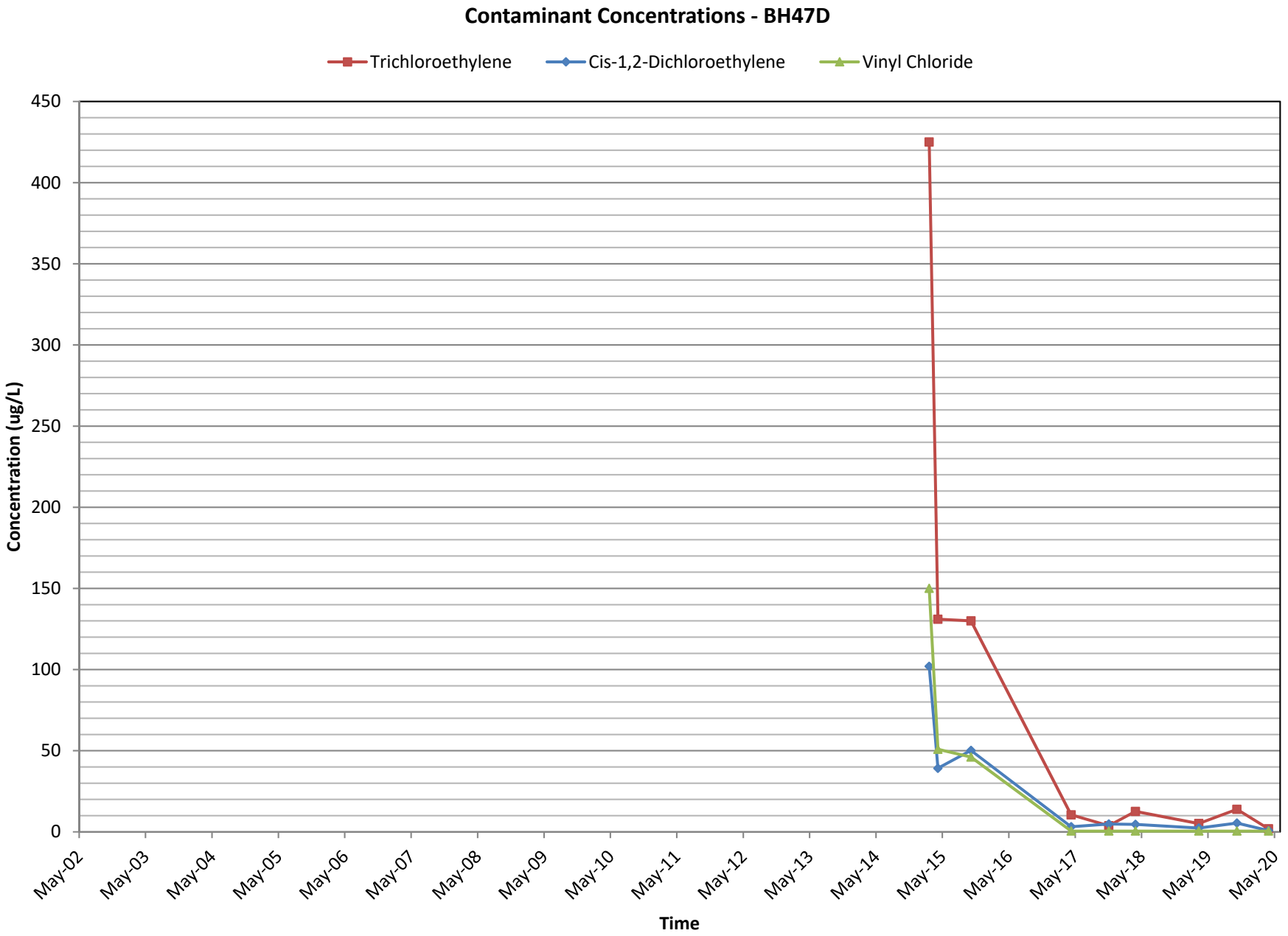

Contaminant Concentrations - BH43D
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
3500
3000
2500
2000
1500
1000
500
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

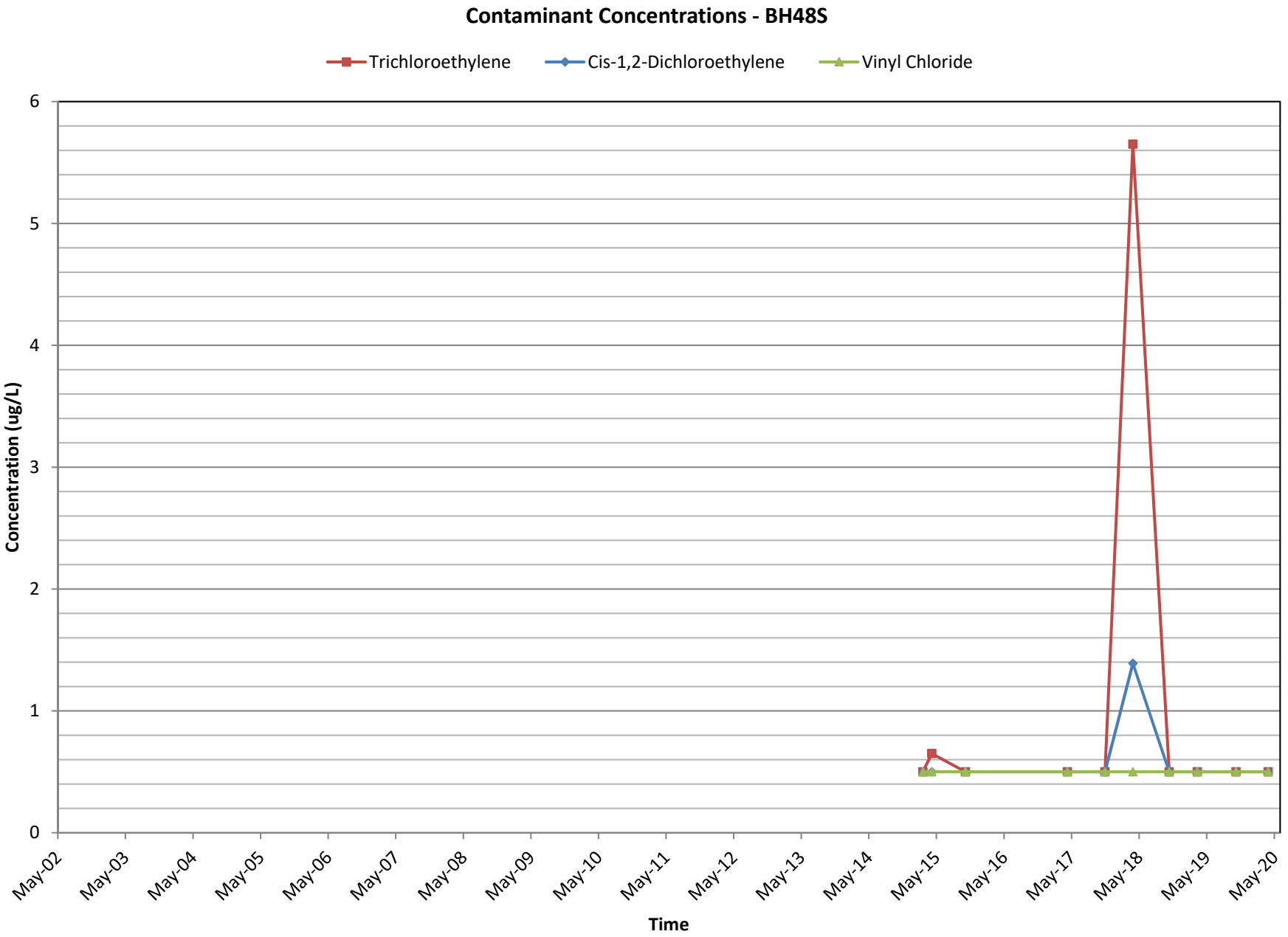

Contaminant Concentrations - BH45D
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
6000
5000
4000
3000
2000
1000
0
Concentration (ug/L)
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

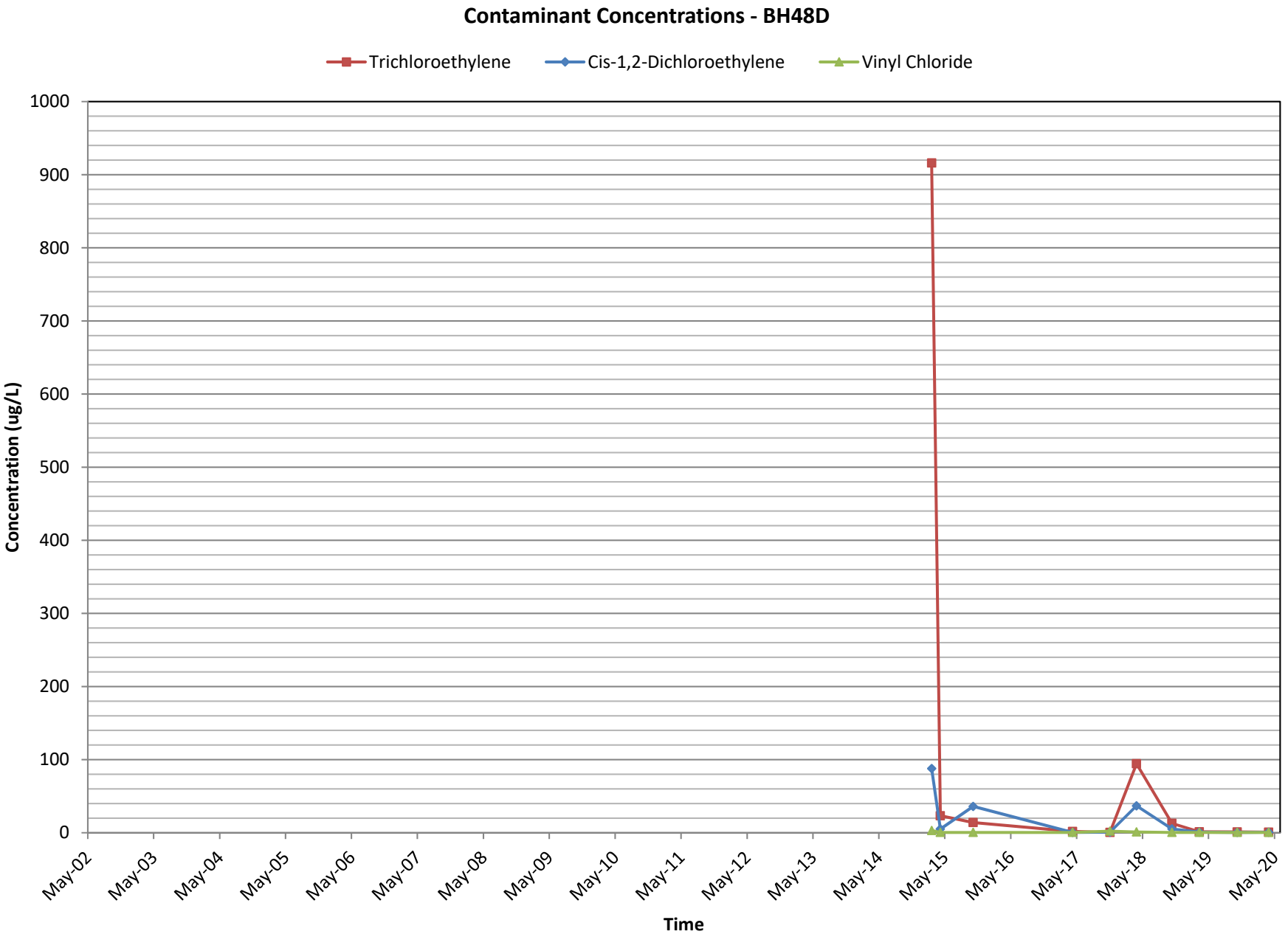

Contaminant Concentrations - BH46S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
2500
2000
1500
1000
500
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

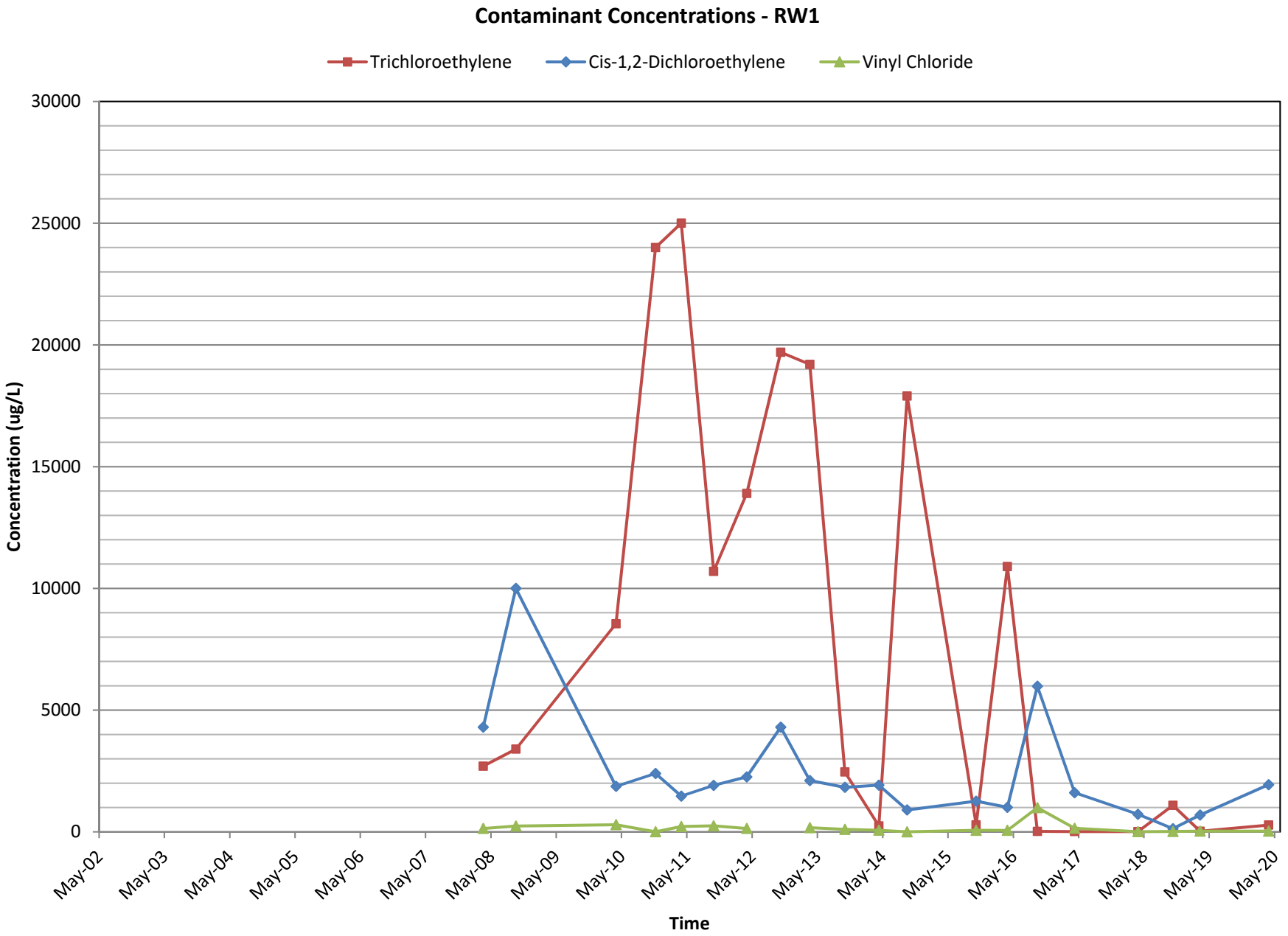

Contaminant Concentrations - BH46D
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
200
180
160
140
120
100
80
60
40
20
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time

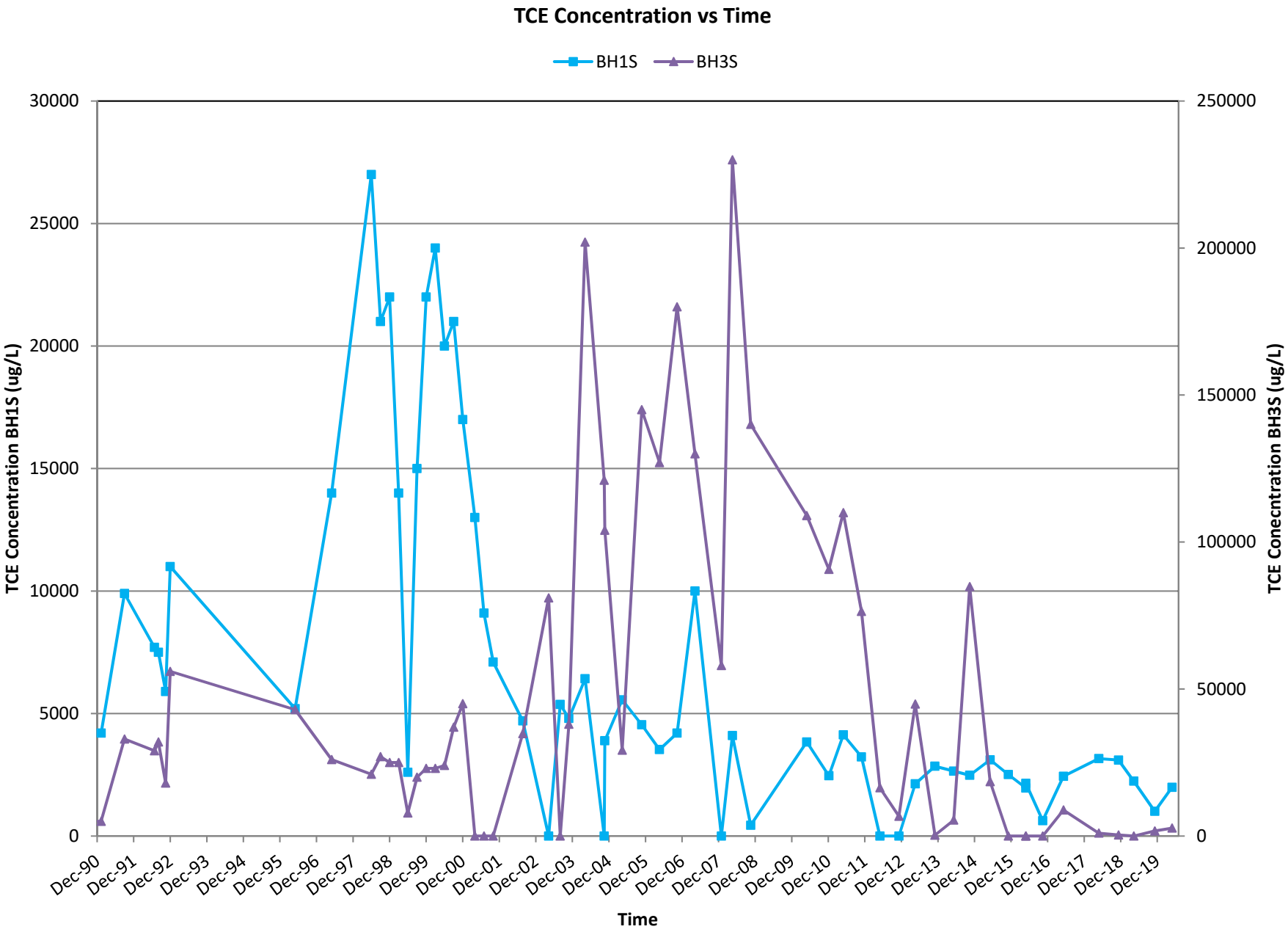

Contaminant Concentrations - BH47S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
6000
5000
4000
3000
2000
1000
0
Concentration (ug/L)
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time


Contaminant Concentrations - BH47D
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
450
400
350
300
250
200
150
100
50
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time


Contaminant Concentrations - BH48S
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
0
1
2
3
4
5
6
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time


Contaminant Concentrations - BH48D
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
Concentration (ug/L)
1000
900
800
700
600
500
400
300
200
100
0
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time


Contaminant Concentrations - RW1
Trichloroethylene
Cis-1,2-Dichloroethylene
Vinyl Chloride
30000
25000
20000
15000
10000
5000
0
Concentration (ug/L)
May-02
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
May-12
May-13
May-14
May-15
May-16
May-17
May-18
May-19
May-20
Time


TCE Concentration vs Time
BH1S
BH3S
TCE Concentration BH1S (ug/L)
TCE Conecntration BH3S (ug/L)
30000
25000
20000
15000
10000
5000
0
250000
200000
150000
100000
50000
0
Dec-90
Dec-91
Dec-92
Dec-93
Dec-94
Dec-95
Dec-96
Dec-97
Dec-98
Dec-99
Dec-00
Dec-01
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Time