18, 20, 22, 24 and 28 Elizabeth Street North and 31 & 33 George Street North, Brampton

Interim

Phase Two Environmental Site Assessment

Project Location:

18, 20, 22, 24 and 28 Elizabeth Street North and 31 & 33 George Street North, Brampton, ON

Prepared for:

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MTE File No.: 46372-101

Engineers, Scientists, Surveyors.

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1.0 Executive Summary

MTE Consultants Inc. (MTE) was retained by Greenwin Corp. to conduct a Phase Two Environmental Site Assessment (ESA) for the property located at 18, 20, 22, 24 and 28 Elizabeth Street North and 31 & 33 George Street North in Brampton, 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 Phase One ESA (MTE, 2022).

The Phase Two ESA was conducted following the process and report format according to Ontario Regulation (O.Reg.) 153/04 and was prepared under the supervision of a Qualified Person (QP_{ESA}). The report was completed to support the future filing of a Record of Site Condition (RSC) for residential use.

The scope of work for the Phase Two ESA included the collection of soil samples from boreholes and groundwater samples from monitoring wells placed within each of the APECs. Soil and groundwater samples were submitted for analysis of the contaminants of potential concern (COPCs) identified by the Phase One ESA. The analytical results were compared to the applicable Ontario Ministry of the Environment, Conservation and Parks (MECP) Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for residential/parkland/institutional land use and coarse textured soils (2011 Table 3 RPI SCSs).

Summary of Phase Two ESA Results

The analytical results for soil identified metals, organocholorine pesticidies (OCs), polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons (PHCs), ethylbenzene and xylene as contaminants of concern (COCs) in soil on the Site. The COCs in soil were limited to the fill material in the western, central and northern portions of the Site. The source of the COCs in soil was concluded to be the importation of poor quality fill material during historical Site grading.

Salt-related parameters electrical conductivity (EC) and sodium adsorption ratio (SAR) were identified in soil at concentrations above the 2011 Table 3 RPI SCSs at multiple locations located in the eastern and northern portions of the Site, within parking areas and in proximity to surrounding roadways. The EC and SAR in soil was interpreted to be a result of salt application for de-icing. In accordance with Section 49.1 of O.Reg.153/04, the 2011 Table 3 RPI SCS for these parameters was deemed to not to be exceeded and EC and SAR were not considered to be COCs in soil at the Site.

Chloroform was identified in groundwater at a concentration above the 2011 Table 3 RPI SCSs at one sampling location located in the eastern portion of the Site, in proximity to George Street North. The chloroform in groundwater was interpreted to be a result of the discharge of drinking water within the meaning of the Safe Drinking Water Act, 2002 due to water main leaks beneath George Street North and the surrounding roadways. In accordance with Section 49.1 of O.Reg.153/04, the 2011 Table 3 RPI SCS for these parameters was deemed to not to be exceeded and chloroform was not considered to be a COC in groundwater at the Site.

The groundwater analytical results were interpreted to meet the 2011 Table 3 RPI SCSs for all of the analyzed parameters, and therefore, no COCs were identified in groundwater at the Site.

Based on the results of this Phase Two ESA, additional soil and groundwater sampling is required to sufficiently investigate each APEC and to further delineate the COCs identified in soil and groundwater at the Site.

2.0 Introduction

MTE Consultants Inc. (MTE) was retained by Greenwin Corp. to conduct a Phase Two Environmental Site Assessment (ESA) for the property located at 18, 20, 22, 24 and 28 Elizabeth Street North and 31 & 33 George Street North in Brampton, Ontario (the "Phase Two Property" or "Site"). The Site location is illustrated on **Figure 1**. The Phase Two ESA was completed by MTE between January 2022 and April 2022 according to Reference Number 46372-101.

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, 2022). The Phase Two ESA was conducted following the process and report format according to O.Reg.153/04, and was prepared under the supervision of a Qualified Person (QP_{ESA}). The report was completed to support 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.

For ease of discussion, all directions in this report are in reference to "Project North" as indicated on **Figure 2**.

(i) Site Description

The Phase One Property is approximately 0.61 hectares (1.50 acres) in area and is located on the south side of Nelson Street West between Elizabeth Street North and George Street North in a mixed residential and commercial area of Brampton. The Phase One Property consists of six adjoining properties, including: a multi-tenant residential dwelling with associated gravel parking areas and landscaped areas at 28 Elizabeth Street North; four single family residential dwelling properties at 18-24 (even) Elizabeth Street North; and a multi-tenant commercial building with associated asphalt parking area and second floor residential units at 31 & 33 George Street North. The eastern portion of the Site (east of the residential dwellings fronting Elizabeth Street) slopes downward approximately 3-4m from the western portion of the Site and includes matures trees and grassed area. The Site Layout and Features are illustrated on **Figure 2**.

The legal descriptions and Property Identification Numbers (PINs) for the Site are as follows:

Municipal Address	Property Identification Number (PIN):	Legal Description:
28 Elizabeth Street North and 31 & 33 George Street North	14123-0081(LT)	Lot 10, Block 2, Plan BR-4; Brampton South of Nelson Street; Lot 11, Block 2, Plan BR-4; Brampton South of Nelson Street; Part of Lot 7, Block 2, Plan BR-4; Brampton South of Nelson Street; Part of Lot 8, Block 2, Plan BR-4; Brampton South of Nelson Street; Part of Lot 9, Block 2, Plan BR-4; Brampton South of Nelson Street; Part of Lot 12, Plan BR-4; Brampton South of Nelson Street; As In VS296767; S/T VS171756; S/T RO794348; City of Brampton, Regional Municipality of Peel, Land Titles Division of the Peel Land Registry Office (No. 43)

Municipal Address	Property Identification Number (PIN):	Legal Description:
24 Elizabeth Street North	14123-0305(LT)	Part Lot 12, Block 2, Plan BR-4 Brampton, being Part 1, Plan 43R-11278, City of Brampton, Regional Municipality of Peel, Land Titles Division of the Peel Land Registry Office (No. 43)
22 Elizabeth Street North	14123-0306(LT)	Lot 13, Block 2, Plan BR-4 Brampton, being Part 2, Plan 43R-11278, City of Brampton, Regional Municipality of Peel, Land Titles Division of the Peel Land Registry Office (No. 43),
20 Elizabeth Street North	14123-0084(LT)	Part Lot 14, Block 2, Plan BR-4 Brampton East of Elizabeth Street as in RO736034, City of Brampton, Regional Municipality of Peel, Land Titles Division of the Peel Land Registry Office (No. 43)
18 Elizabeth Street North	14123-0085(LT)	Part Lot 15, Block 2, Plan BR-4 Brampton East of Elizabeth Street as in RO912833, Subject to easement over Part 6, Plan 43R-32143, in favour of Lots 23, 24, 25, and Part Lots 14, 15, 16, 17 and 26, Block 2, Plan BR 4, as in RO1127508, as in PR1491526, City of Brampton, Regional Municipality of Peel, Land Titles Division of the Peel Land Registry Office (No. 43),

The Phase Two Property boundaries were established using a preliminary topographic survey. A copy of the survey is provided in **Appendix A4**.

(ii) Property Ownership

The Phase One ESA was commissioned by Greenwin Corp. (Greenwin), who also owns the Site under Elizabeth/George Holdings Inc. The contact information for Greenwin and Elizabeth/George Street Holdings Inc. is as follows:

Greenwin Corp.
19 Lesmill Road
Toronto ON, M3B 2T3
Contact: Mr. Mark Zaky
Email: MZaky@greenwin.ca

(iii) Current and Proposed Future Uses

The Site includes five residential dwellings and a multi-tenant commercial building. The current or most recent land uses at the Site are defined as residential and commercial land use under O.Reg.153/04.

The proposed future use of the Site is a new residential condominium development, which would be a change to a more sensitive use. The filing of an RSC is therefore required in accordance with O. Reg. 153/04 and Section 168.3.1 of the Environmental Protection Act.

(iv) Applicable Site Conditions 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 and the Site is not a “shallow soil property”.
- There are no surface water bodies on or within 30 metres of the Site.
- The Site is not on or within 30m of an area of natural significance. The Site was not considered to be an “Environmentally Sensitive Area” as defined by O.Reg.153/04.
- The Site is municipally serviced for drinking water by the Regional Municipality of Peel (Region of Peel) and there are no drinking water wells on the property. A written Notification of Intent to use non-potable groundwater SCSs was sent to the Region of Peel on March 16, 2022. A response was received from the Region of Peel on April 1, 2022 indicating that there were no objections to the application of the non-potable site condition standards. The response from the Region of Peel is included in **Appendix A2.**
- The results for soil grain size analyses completed on four samples of native silty soil, as shown in **Appendix A3**, indicated this material would be classified as medium-fine textured. Although the native soil is interpreted to represent greater than 2/3 of the Site soil, the analytical results for soil and groundwater samples were conservatively compared to the 2011 Table 3 RPI SCSs for coarse textured soils to account for the coarse textured fill material where contamination was found.

Based on the above, the applicable SCSs were the Table 3 Full Depth Generic Site Condition Standards in a Non-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 coarse textured soil (the “2011 Table 3 RPI SCSs).

It is noted that the pH of one surface soil sample collected at borehole location MW319-22 (0.0-0.6m) was outside of the MECP acceptable range of 5.0-9.0. All other pH soil samples, both surface and subsurface, were within the MECP acceptable range and additional soil sampling will be completed within 2m radius of MW319-22 in the future to verify the pH value at this location. If the averaged value exceeded the acceptable range of 5-9, the shallow soil in this area with pH value higher than 9 will be remediated.

The groundwater table on the Site was measured at depths between 1.55m and 7.94m below ground surface (bgs) during this Phase Two ESA. It is recognized that the 2011 Table 3 RPI SCSs for some parameters (e.g., VOCs) may not be applicable where the depth to groundwater is less than 3.0m bgs. The potential impact of shallow groundwater was evaluated through a comparison of the analytical data to the 2011 Table 7 (shallow soil) SCSs, further described below.

3.0 Background Information

(i) Physical Setting

The Phase Two Property is located within the broad physiographic region known as the Peel Plain, which comprises approximately 777 km^2 (300 square miles) across the central portions of the Regional Municipalities of York, Peel, and Halton. The Plain consists of a level-to-undulating tract of clay soils, with a gradual and fairly uniform slope toward Lake Ontario (*Chapman and Putnam*, 1984). The underlying geological material consists of glaciolacustrine deposits including sand, gravelly sand with gravel, near-shore and beach deposits.

Ontario Base Map (OBM) 10 17 5950 48350 was reviewed for the Phase One Study Area. The geodetic ground surface elevation of the Site is approximately 211-215m above sea level (asl). The UTM coordinates for the approximate center of the Phase One Property are 17T 599,695 metres east and 4,837,680 metres north (MNR, 1980 National Topographic Map).

Borehole logs from previous reports (MTE, 2019; Sola, 2020) were reviewed as part of this Phase One ESA. The reports generally found the subsurface stratigraphy to consist of 0.3 to 2.4m of fill (silty sand and/or gravel) over native silty sand and silty sand till to depth of 3.7m to 7.0m bgs, underlain by clayey silt till to depths of 5.5 to 12.2m bgs. Shale bedrock was encountered at depths ranging from approximately 5.5 to 7.5m bgs in the eastern portion of the Site. Bedrock was not encountered in western portion of the Site to a maximum drilled depth of 12.2m bgs.

The measured depth to groundwater in the monitoring wells installed during the previous investigations ranged from approximately 2.97m to 7.93m bgs. Based on measured groundwater elevations, the groundwater flow direction at the Site was inferred to be easterly and southeasterly.

The regional groundwater flow direction is expected to be easterly following topography and a general decrease in surface elevation towards Etobicoke Creek.

(ii) Past Investigations

The following previous environmental reports were provided to MTE for review.

1. "***28 Elizabeth Street North and 31-33 George Street North, Brampton, ON, Phase I Environmental Site Assessment***". Prepared for The Six Real Estate Development Inc. by MTE Consultants Inc., August 23, 2019.

A Phase I ESA was completed for 28 Elizabeth Street North and 31 and 33 George Street, the northern portion of the Site. The following is a summary of the key findings of the report:

- Historical Records indicate that the Site was first developed by the 1870s with a dwelling in the residential dwelling in the northwestern portion of the Site (28 Elizabeth Street North). 31 and 33 George Street North was first developed in the 1960s with a multi-tenant commercial building and further developed with second floor residential apartments in the 1980s.
- A former coal chute was observed in the basement boiler room of the residential dwelling of 28 Elizabeth Street North.
- Historical records indicated that a coal gasification service was located at the northeast corner of George Street North and Nelson Street West (25m north of the Site), in operation from approximately 1888-1917.
- A machine shop was observed at 23 George Street North (30m south of the Site) in the 1940 FIP.
- A junk yard was observed on a 1940 FIP at 14 George Street North (75m southeast).
- Historical metal fabrication at 37 George Street North (40m north).
- An automotive garage with UST was observed on a 1940 FIP at 9 Nelson Street West (50m east).
- 50 Queen Street West (50m southeast) was observed on the 1971 FIP as an auto service station with one UST.
- Automotive garages with retail fuel outlets were located at 34 Queen Street West (110m southeast)
- Former retail fuel outlets were noted at 115-177 Main Street North (140m northeast) and 116-120 Main Street North (160m northeast).
- Former door manufacturing at 174-178 Park Street (200m west).
- Former ledger and loose leaf paper manufacturing at 56-60 Mill Street North (240m northwest).

- The report noted that, based on the age of the structures, there was a potential for designated substances or hazardous buildings to be present at the on-Site buildings. These materials included asbestos- and lead-containing materials, and mercury- and PCB-containing equipment.

The Phase I report did recommend a Phase II report based upon the above risks to the Site.

2. "***28 Elizabeth Street North and 31 and 33 George Street North, Brampton, ON, Phase II Environmental Site Assessment***". Prepared for The Six Real Estate Development Inc. by MTE Consultants Inc., October 3, 2019.

A Phase II ESA was completed for the 28 Elizabeth Street North and 31-33 George Street North portion of the Site by MTE. The following is a summary of the key findings of the report:

- Four boreholes (MW101-19 to MW104-19) were drilled to depths ranging from 5.5m to 9.1m below ground surface (bgs) between September 9 and 10, 2019. The boreholes were installed as permanent monitoring wells. The monitoring wells are shown on **Figure 2**.
- The general soil stratigraphy observed on the Site consisted of 1.2 to 2.4m of silty sand fill over silty sand to depths between approximately 3.7m to 6.1m bgs underlain by clayey silt to depths between 5.5 to 9.1m bgs. Shale bedrock was encountered in boreholes MW101-19, MW102-19 and MW104-19 between approximately 5.5 to 7.5m bgs.
- The measured depth to groundwater in the monitoring wells ranged from approximately 4.10m to 7.93m bgs. Water elevation measurements indicated that the groundwater flow direction was easterly.
- Soil samples were collected from the boreholes and submitted for laboratory analysis of one or more of the following parameters: metals, electrical conductivity (EC), sodium adsorption ratio (SAR), pH, polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene and xylene (BTEX) and volatile organic compounds (VOCs). Groundwater samples were collected from the monitoring wells and submitted for laboratory analysis of one or more of the following parameters: metals, PHCs, BTEX, and VOCs.
- The analytical results were compared to the MECP 2011 Table 3 Site Condition Standards (SCSs) for residential/parkland/institutional land use and coarse textured soil (2011 Table 3 SCSs).
- The groundwater analytical results were below the 2011 Table 3 SCSs for all analyzed parameters. No visual or olfactory evidence was observed during groundwater sampling activities.
- The soil analytical results were below the 2011 Table 3 SCSs for all analyzed parameters with the exception of lead from a shallow soil fill sample from borehole MW102-19 (0.2-0.6m). The vertical extent of lead in soil was determined at this borehole with the collection of a deeper soil sample at depth 1.5-2.1m.
- Salt related parameters EC and SAR were also above the 2011 Table 3 SCSs at MW101-19 and MW104-19. Both of the locations are located within the parking lot fronting George Street.

3. *"**Geotechnical Investigation, Proposed Midrise Development, 18 to 24 Elizabeth Street North, Brampton, Ontario**".* Report No. 2019-12862R. Prepared for 2560517 Ontario Inc. by Sola Engineering, July 20, 2020.

A geotechnical investigation was completed for the 18 to 24 Elizabeth Street North portion of the Site by Sola Engineering (Sola). The following is a summary of the environmentally significant findings of the report:

- Eight boreholes, BH1 to BH8, were drilled as part of the geotechnical investigation to depths ranging from 6.55m to 12.22m bgs.
- Five boreholes (BH1, BH3, BH4, BH6 and BH7) were completed as monitoring wells.
- The general soil stratigraphy observed on the Site consisted of 0.3 to 1.5m of sandy silt to clayey silt fill, underlain by native sandy silt till to clayey silt till. Seams/layers of sandy silt or clayey silt were observed within the native till. Bedrock was not encountered during drilling activities.
- The depth to groundwater ranged from 2.97m to 7.90m bgs.

No environmental concerns relating to the Site were noted in the report.

4. *"**Hydrogeological Assessment, 18-24 Elizabeth Street North, Brampton Ontario**".* REF. No.1913, Prepared for 2560517 Ontario Inc. by Harden Environmental Services Limited, August 9, 2020.

- A hydrogeological assessment was completed for the 18 to 24 Elizabeth Street North portion of the Site by Harden Environmental Services. The following is a summary of the environmentally significant findings of the report:
- Four shallow monitoring wells (BH1, BH3, BH6 and BH7) were installed by Sola Engineering at depths of 6.06m to 6.24m bgs.
- One deeper monitoring well (BH4) was installed by Sola Engineering at a depth of 12.22m bgs.
- Groundwater elevations were collected during multiple events between May 28, 2019 and July 15, 2020. The elevations ranged from 214.64m AMSL (above mean sea level) to 211.16m AMSL (1.20m to 5.29m bgs) at the shallow monitoring wells and 208.69m and 208.22m AMSL (7.57 to 8.04m bgs) at the deep monitoring well.
- Hydraulic conductivity tests were completed at four of the wells (BH1, BH3, BH4 and BH6) and conductivity values ranged from 1.5E-07 to 8.8E-07 m/s.
- The groundwater flow direction was determined to be southeasterly with probable discharge to the Etobicoke Creek located 800m to the east and south of the Site.

No environmental concerns relating to the Site were noted in the report.

5. *"**Phase One Environmental Site Assessment, Residential Properties 18-24 Elizabeth Street North, Brampton, Ontario**".* Rubicon Job Number R61087.1, Prepared for 2560517 Ontario Inc. by Rubicon Environmental (2008) Inc., May 11, 2020.

A Phase One ESA completed for the 18 to 24 Elizabeth Street North portion of the Site by Rubicon Environmental (2008) Inc. (Rubicon). The following is a summary of the environmentally significant findings of the report:

- The report notes that the subject properties have been used for residential purposes since the 1890s.
- The report did not identify PCAs on the subject properties.
- The report did identify multiple off-Site PCAs. However, it was the opinion of Rubicon

that PCAs do not represent an environmental concern to the subject properties.

- Based on the age of the buildings on the subject properties, the following items of concern were noted;
    - Fluorescent light fixtures were observed in a building. It is possible that PCB containing ballasts exist within the building;
    - Asbestos containing materials (ACMs) and/or urea formaldehyde foam insulation (UFFI) may be present within the subject properties' buildings; and
    - Lead based paints may have been historically used within the buildings.

MTE noted multiple environmental concerns to the Site within the report including;

- Fill material of unknown quality within the footprint of a historical building on present day 24 Elizabeth Street North that was demolished in 1960 according to the report. According to fire insurance plans (FIPs), the building was actually demolished before the 1940.
- A coal gasification plant is located at the northeast corner of Nelson Street and George Street (approximately 40m northeast to the Site).
- Multiple hazardous waste generator records within the Study Area.
- A National PCB Inventory record located at 8 Nelson Street West.
- Manufacturing listing record for various printing and graphic design services at 23 Nelson (east adjoining property).

Previously Collected Data Quality Review

The quality of the analytical data collected during the previous MTE Phase II ESA was evaluated through a review of the laboratory Certificates of Analysis, through the collection of additional groundwater samples from the existing wells and through the collection of additional soil samples from the Site in similar areas. Based on this review, the analytical data collected by MTE was considered to be suitable for use in this Phase Two ESA and no analytical data was rejected or excluded.

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:

- Review of previous analytical results collected at the Site by others;
- 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 the Phase Two ESA;
- Review of MTE Standard Operating Procedures for borehole drilling and monitoring well installation, equipment calibration, groundwater sampling, disposal of soil cuttings and development water and equipment decontamination;
- Completing a monitoring well survey of existing monitoring wells to assess their

condition and suitability for sampling;

- Drilling 20 boreholes at 19 location, seven of which were completed as monitoring wells, to investigate the APECs;
- Collecting soil samples from each borehole for field screening of organic vapours using a field instrument;
- Submitting selected soil samples from the boreholes under chain-of-custody for laboratory analysis of one or more of the COPCs, which included metals, hydride-forming metals (As, Sb, Se), cyanide (CN-), mercury (Hg), hot water soluble boron (B-HWS), polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons (PHCs), and benzene, ethylbenzene, toluene and xylenes (BTEX) . Selected soil samples were also submitted for analysis of electrical conductivity (EC), sodium adsorption ratio (SAR), volatile organic compounds (VOCs), organochlorine pesticides (OCs) and polychlorinated biphenyls (PCBs);
- Submitting shallow and deep soil samples for pH determination;
- Developing and purging the monitoring wells and monitoring field chemistry parameters during well development and prior to sampling;
- Collecting groundwater samples from the new and existing monitoring wells for laboratory analysis of one or more of the groundwater COPCs, which included metals, As, Sb, Se, CN-, Hg, acid-base-neutrals (ABNs), PAHs, PCBs, PHCs, BTEX and VOCs;
- Measurement of water levels and elevation surveying of each monitoring well to a geodetic datum to evaluate groundwater flow patterns and hydraulic gradients;
- Implementing Quality Assurance/Quality Control (QA/QC) procedures for the field activities;
- Field and analytical data evaluation and interpretation; and
- Preparing this Phase Two ESA report.

The Phase Two ESA Sampling and Analysis Plan, dated December 2021, is included in **Appendix A1**. The SAP describes the field sampling and 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 MTE SOPs, the SAPs and the documents "*Guidance on Sampling and Analytical Methods of Use at Contaminated Sites in Ontario, MOE, 1996"* and "*Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, MOE, 2004, amended July 1, 2011*".

(ii) Media Investigation

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

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

The borehole and monitoring well locations and depths were selected based on a review of the Phase One ESA (MTE, 2022) and the APECs that were identified, and considering underground utility locations and Site boundaries to assess the potential presence of Contaminants of Concern (COCs).

(iii) Phase One Conceptual Site Model

The Phase One Conceptual Site Model (CSM) was developed in accordance with Part V in Schedule D of O. Reg. 153/04. The CSM consisted of two parts; the following narrative description, which follows the sub-headings in Table 1 of Schedule D and supporting **Figure 1** through **Figure 5.**

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

(i) The Site is currently occupied by four residential dwellings, one multi-family residential dwelling and one multi-tenant commercial building with parking areas and landscaped areas. The Site layout is illustrated on **Figure 2**.

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

(iii) There are no areas of natural significance on 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 Nelson Street West to the north, George Street North to the east and Elizabeth Street North to the south. Other roads within the Study Area are indicated on **Figure 4a**.

(vi) The locations of the on-Site PCAs are illustrated on **Figure 3**. The PCAs in the Study Area are illustrated on **Figure 4a.**

(vii) The locations of APECs on the Phase One Property are illustrated on **Figure 5.**

Phase One Property Description

The Phase One Property is approximately 0.61 hectares (1.50 acres) in area and is located on the south side of Nelson Street West between Elizabeth Street North and George Street North in a mixed residential and commercial area of Brampton. The Phase One Property consists of six adjoining properties, including: a multi-tenant residential dwelling with associated gravel parking areas and landscaped areas at 28 Elizabeth Street North; four single family residential dwelling properties at 18-24 (even) Elizabeth Street North; and a multi-tenant commercial building with associated asphalt parking area and second floor residential units at 31 & 33 George Street North. The eastern portion of the Site (east of the residential dwellings fronting Elizabeth Street) slopes downward approximately 3-4m from the western portion of the Site and includes matures trees and grassed area.

Phase One Property History

Historical records indicated that the 31 & 33 George Street North and 24 Elizabeth Street North portions of the Site were developed with residential dwellings sometime prior to 1857. The dwellings at 31 & 33 George Street North were demolished sometime prior to 1894 and this portion of the Site remained vacant until the early 1960s when the current commercial building was built. The original dwelling at 24 Elizabeth Street North was demolished sometime between 1917 and 1940 when the current dwelling was constructed.

The properties at 18, 20, 22 and 28 Elizabeth Street North were vacant land until the current residential dwellings were constructed in the 1940s (18 and 22 Elizabeth), 1900s (20 Elizabeth) and 1890s (28 Elizabeth).

The Site has remained in its current configuration since the 1960s. The commercial building at 31 & 33 George Street has been occupied by a number of retail businesses and restaurants. The Elizabeth Street properties have remained residential with some converting to multi-tenant residential within the same dwelling.

Proposed Future Use

The proposed future use of the Phase One Property is a new residential condominium development.

Enhanced Investigation Property (EIP)

The Site is not classified as an Enhanced Investigation Property (EIP) according to O.Reg.153/04.

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

The on-Site PCA locations are illustrated on **Figure 3** and the off-Site PCA locations are illustrated on **Figure 4a**. The APEC locations are illustrated on **Figure 5**. The PCA Summary Table and the APEC Table are included in **Appendix A5**.

APEC Boundaries and Contaminants of Potential Concern (COPCs)

The boundaries of the APECs and the COPCs in each APEC were as follows:

- APEC 1 was defined as the entire Phase One Property where fill material of unknown quality may have been imported during historical Site grading, including following demolition of former structures (PCA #1). The COPCs in APEC 1 included metals, hydride-forming metals arsenic (As), antimony (Sb) and selenium (Se), mercury (Hg), cyanide (CN-) hot water soluble boron (B-HWS), petroleum hydrocarbons (PHCs) and benzene, ethylbenzene, toluene and xylene (BTEX) in soil.
- APEC 2 was defined as the areas around the dwellings at 18, 20, 22 and 24 Elizabeth Street North where fuel/heating oil was inferred to have been used for heat (PCA #2). An empty fuel oil tank was observed in the basement of 22 Elizabeth Street North. No other evidence of current of former heating infrastructure was observed. The COPCs in APEC 2 included PHCs and BTEX in soil and groundwater.
- APEC 3 was defined as the northwestern portion of the 28 Elizabeth Street North building where a coal chute (PCA #3) was observed. The COPCs within APEC 3 included metals, As, Sb, Se, Hg and PAHs in soil and groundwater.
- APEC 4a, 4b and 8 had the same boundary which was defined as the area adjacent to the eastern boundary of the Phase One Property based on the presence of a former printing and graphic design business (PCA #4a), machine shop (PCA #4b), and auto related business (PCA #8) on two adjacent properties to the east of the Site. The COPCs in APEC 4a, 4b and 8 included metals, As, Sb, Se, PHCs, BTEX and volatile organic compounds (VOCs) in groundwater.
- APEC 5a to 5d were defined as the area adjacent to the southeastern boundary of the Site based on the presence of a former eyewear manufacturer where hydrocarbon impacted soil was remediated (PCA #5a), where glass and metal products (eyewear) where manufactured (PCA #5b and #5c) and solvents may have been stored and used (PCA #5d). The COPCs in APEC 5 included metals, As, Sb, Se, PHCs, BTEX and VOCs in groundwater.
- APEC 6 was defined as the area adjacent to the southern boundary of the Site based on the historical and current presence of a hydroelectric station (PCA #6) on an adjoining property to the south. The COPCs in APEC 6 included metals, As, Sb, Se, PCBs, PHCs, BTEX and VOCs in groundwater.
- APEC 7a, 7b, 7c and APEC 9 had the same boundary which was defined as the area adjacent to the northeastern boundary of the Site based on the presence of a former coal gasification plant (PCA #7a), former equipment manufacturer (PCA #7b), former generation of photoprocessing wastes (PCA #7c) and a former prefabricated building and components manufacturer (PCA #9). The COPCs in APEC 7a, 7b, 7c and 9 included metals, As, Sb, Se, Hg, CN-, PAHs, ABNs, PHCs, BTEX and VOCs in groundwater.

Potential for Underground Utilities to Affect Contaminant Distribution

Based on a private utility locate completed during a previous Phase II ESA drilling program for the 28 Elizabeth and 31-33 George Street properties (MTE, 2019), underground utilities on this portion of the property included natural gas, hydro, municipal water, telecommunications and sewer services.

Observations made during the Site visit suggest that properties including 18, 20, 22 and 24 Elizabeth Street are serviced by underground natural gas, water and storm and sanitary sewers and aboveground hydro.

Regional or site specific geological and hydrogeological information

The Phase One Property is located within the broad physiographic region known as the Peel Plain, which comprises approximately 777 km^2 (300 square miles) across the central portions of the Regional Municipalities of York, Peel, and Halton. The Plain consists of a level-to-undulating tract of clay soils, with a gradual and fairly uniform slope toward Lake Ontario (Chapman and Putnam, 1984). The underlying geological material consists of glaciolacustrine deposits including sand, gravelly sand with gravel, near-shore and beach deposits.

Borehole logs from previous reports (MTE, 2019; Sola, 2020) were reviewed as part of this Phase One ESA. The reports generally found the subsurface stratigraphy to consist of 0.3 to 2.4m of fill (silty sand and/or gravel) over native silty sand and silty sand till to depth of 3.7m to 7.0m bgs, underlain by clayey silt till to depths of 5.5 to 12.2m bgs. Shale bedrock was encountered at depths ranging from approximately 5.5 to 7.5m bgs in the eastern portion of the Site. Bedrock was not encountered in western portion of the Site to a maximum drilled depth of 12.2m bgs.

The measured depth to groundwater in the monitoring wells installed during the previous investigations ranged from approximately 2.97m to 7.93m bgs. Based on measured groundwater elevations, the groundwater flow direction was inferred to be southeasterly.

The regional groundwater flow direction is expected to be easterly following topography and a general decrease in surface elevation towards Etobicoke Creek.

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

At the time of writing of the Phase One ESA report, responses to freedom of information requests from the MECP and Region of Peel have not been received. While the absence of this information is not expected to alter the conclusion of the Phase One ESA, if additional PCAs/APECs are identified as a result of the outstanding responses an Update Phase One ESA will be required.

Subsequently Acquired Information

There was no subsequently acquired information during this Phase Two ESA that affected the Phase One CSM.

(iv) Deviations from Sampling and Analysis Plan

A borehole completed as a monitoring well (MW303-22) was planned to be drilled in the western portion of the 31 & 33 George Street property that could not be completed due to utility locate restrictions. There were no other deviations from the Sampling and Analysis Plan during the Phase Two ESA.

It is noted that additional soil and groundwater sampling (i.e. Hg in groundwater in APECs 3 and 7a) will be needed within APECs on the Site to fulfill the investigative requirements of O.Reg. 153/04. A confirmatory soil sampling program will also be required upon completion of the future remediation program. These additional investigations will be documented in a future Phase Two ESA report.

(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:

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

(ii) Drilling and Excavating

(i) Borehole Drilling

The Phase Two ESA borehole drilling work was completed between January 4, 2022 and January 19, 2022. 20 Boreholes were advanced in 19 locations across the Site. Four boreholes were completed as water table monitoring wells and three additional deeper monitoring wells (MW309-22, MW310A-22 and MW319-22) were installed in bedrock for hydrogeological assessment purposes. It is noted that the information collected from the 12 boreholes, 9 completed as monitoring wells, advanced during previous investigations, is also incorporated in this Phase Two ESA.

The borehole locations were located in the exterior areas of the Site and depths ranged from 2.1m to 14.3m bgs. The Phase Two ESA sampling locations are illustrated on **Figure 5**.

MTE retained Geo-Environmental Drilling Inc. (GEDI) of Halton Hills, Ontario, an MECP licensed well contractor, to complete the borehole drilling on the Site.

(iii) Soil Sampling

(i) Soil Sampling Equipment

The soil sampling method included the advancement of split spoons to collect semi-continuous samples from each borehole. 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. Sampling equipment (i.e. split spoons, trowels) were cleaned between

locations using soapy water and a tap water rinse to minimize the potential for cross contamination between boreholes.

Soil samples were collected from the spilt spoons 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^{TM} sampling device and placing the sample in a laboratory supplied glass vials containing 5mL 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 tap 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 encountered at the Site was similar to previous investigations and generally consisted of fill (sand and gravel and silt) underlain by native silt/clayey silt till and silty sand soil. Bedrock consisting of shale was encountered at depths ranging from 4.6 to 10.7m bgs.

Borehole logs describing and illustrating the soil stratigraphy at each investigated location are included in **Appendix A2**. Geologic cross sections illustrating the soil stratigraphy will be completed for the final Phase Two ESA report.

(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 hydrocarbons and VOC vapours 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 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

Monitoring wells were installed in seven locations by GEDI between January 4th and January 19th, 2022.

The monitoring wells were installed in accordance with Ontario Regulation 903/90 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.

Monitoring well construction details are as follows:

Monitoring Well ID	Construction
MW302-22 MW320-22	3.0m long, 51mm diameter, No. 10 slotted PVC
MW309-22 MW310B-22 MW314-22 MW319-22	1.5m long, 51mm diameter, No. 10 slotted PVC
MW310A-22	1.0m long, 51mm diameter, No. 10 slotted PVC

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 approximately 0.3m 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.

All monitoring wells were completed with either a flushmount or 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 903/90. 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) or high density polyethylene (HDPE) tubing and a foot valve device to remove standing water and foreign material that may have been introduced during drilling. Well development included the removal of three well volumes and/or purging the well dry on three occasions.

(vi) Groundwater Field Measurements of Water Quality Parameters

Prior to the collection of groundwater samples, each of the new 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 completed using dedicated high or low density polyethylene (HDPE or LDPE) tubing and a foot valve.

Field chemistry parameters including: specific conductance, pH, and temperature 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 the Spectra FieldPro peristaltic pump or Geotech bladder pump (for well screen depths greater than 6m bgs). Groundwater samples were collected from the monitoring wells as outlined in the SAP and placed directly into laboratory-supplied sample bottles, sealed, labeled and stored in a cooler with ice for transportation under chain-of-custody to Bureau Veritas Laboratories of Mississauga, Ontario.

Groundwater samples were collected from select monitoring wells and submitted for analysis of the COPCs on February 15th, February 23rd and March 15th, 2022.

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 samples collected by MTE during this Phase Two ESA were submitted to ALS Laboratories (ALS) of Waterloo, Ontario. ALS is accredited by the Standards Council of Canada (SCC) in accordance with ISO/IEC 17025:2005 for the analyses 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. Emily Hansen at 60 Northland Road, Unit 1, Waterloo, Ontario. Ms. Hansen can be reached at 519-886-6910.

The groundwater samples collected by MTE during this Phase Two ESA were submitted to Bureau Veritas Laboratories of Mississauga, Ontario. Bureau Veritas is 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 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 northern portion of the Phase Two Property. The investigative derived wastes will be removed at a later date using a licensed contractor and documentation will be included in the final Phase Two ESA report.

(xi) Elevation Survey

A location and elevation survey of the new and existing monitoring wells and new boreholes was completed by MTE using a Trimble total station. The elevations and locations were measured to a geodetic datum. The geodetic monitoring well and groundwater 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 samples were placed into new laboratory supplied containers, which were clearly labeled with a unique sample identifier and project number. 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 120ml or 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 clear glass vials	Methanol
PHC F2-F4, PAHs, OCs, PCBs, metals, As, Sb, Se, Hg, EC, SAR, CN-, B-HWS, pH	1 – 250mL clear glass jar	None

Groundwater samples analyzed for PHC F1, BTEX and VOCs 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	None
PCBs	2 – 500ml Amber Glass Bottle	None
Metals, As, Sb, Se, CN-	1 – 125ml Plastic Bottle (Field Filtered)	HNO_3

The samples were stored in insulated coolers with bags of ice to initiate cooling after sample collection and during transportation to the laboratory under Chain-of-Custody.

Equipment Cleaning

Equipment decontamination and sampling procedures were completed in accordance with industry standard procedures, MTE SOPs and the document "*Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario,* MOE, 1996". The sampling tools (e.g., trowel or knife) were decontaminated between each sample by cleaning equipment with an Alconox detergent solution and distilled 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/or analysis of QC samples including blind duplicate samples.

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.

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:

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

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 encountered at the Site was similar to previous investigations and generally consisted of fill (sand and gravel and silt) underlain by native silt/clayey silt till and silty sand soil. Bedrock consisting of shale was encountered at depths ranging from 4.6 to 10.7m bgs. Some non-soil materials including brick and concrete fragments and metal and wood pieces were observed in the upper fill unit across the Site. No visual or olfactory indicators of contamination such as staining and odours were observed.

Borehole logs describing and illustrating the soil stratigraphy at each investigation location are included in **Appendix A2**.

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

Stratigraphic Unit	Elevation Range (masl)*	
	Upper	Lower
Fill (granular fill/sand and gravel/ silty sand)	217.8	208.3
Silt Till	216.1	210.3
Clayey Silt Till	212.0	205.3
Silty Sand/Sandy Silt	207.3	206.3
Shale	207.7	201.7**

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

(ii) Groundwater Elevations and Flow Direction

Water table monitoring wells were installed in four locations on the Site by MTE (MW302-22, MW310B-22, MW314-22 and MW320-22) during this investigation. Water table monitoring wells were installed by MTE (2019) and Harden/Sola (2020) in eight locations (MW101-19 to MW104-19, BH1, BH3, BH6 and BH7). Additionally, MTE and Harden/Sola installed deeper monitoring wells in four locations (MW309-22, MW310A-22, MW319-22 and BH4). The monitoring well construction details are summarized in **Table 1**.

Groundwater levels were measured by MTE during two events on February 16th and March 25th, 2022. The depth to the water table at the Site was measured between 1.55m and 7.94m bgs in the shallow screened wells during this Phase Two ESA. The measured groundwater levels and their representative geodetic elevations are summarized in **Table 2**.

Groundwater flow contours were developed based on the March 25th, 2022 groundwater elevations in the water table monitoring wells and are illustrated on **Figure 6**. The inferred groundwater flow direction was easterly/southeasterly.

The results of the borehole drilling, monitoring well installations and groundwater level monitoring indicate that there is one continuous aquifer at the Site that extends from the water table, which occurs in the native silty soil, into the shale bedrock. No unsaturated zones were encountered to the maximum drilling depth.

(iii) Groundwater Hydraulic Gradients

(i) Horizontal Hydraulic Gradients

Based on the March 25th, 2022 measurements, the geodetic groundwater elevations in the shallow screened wells ranged from approximately 210.15m asl at MW103-19 in the northwestern portion of the Site to 209.27m asl at MW101-19 in the northeastern portion of the Site. These wells are located approximately 95m apart. This represents a horizontal hydraulic gradient of approximately 0.009m/m at the water table.

Hydraulic conductivity tests were completed by Harden in three monitoring wells screened within the native silt till/clayey silt soil (BH1, BH3 and BH6). The results were as follows:

Well Location	Estimated Hydraulic Conductivity (m/s)
BH1	1.5×10^{-7}
BH3	3.1×10^{-7}
BH6	2.9×10^{-7}

The average calculated hydraulic conductivity (geometric mean) of the silt till/clayey silt unit was 2.4×10^{-7}. 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 (0.35-0.50 for silt, Freeze and Cherry, 1979)

The average linear groundwater velocity in the sand unit was estimated to be approximately 0.14m to 0.20m/year.

(ii) Vertical Hydraulic Gradients

A vertical hydraulic gradient was determined based on the measured depth to groundwater between adjacent overburden and deep bedrock screened wells and the vertical distance between the mid-point of the shallow and deep well screens. The vertical hydraulic gradient between the overburden wells and bedrock wells as measured at one location (MW310A-22 and MW310B-22) was calculated to be 0.76m/m, suggesting a potential for the downward movement of groundwater.

(iv) Fine Medium Soil Texture

The soil stratigraphy consists predominately of coarse grained fill material overlying native silty and clayey silt soil. The results for soil grain size analyses completed on four samples of native silty soil indicated this material would be classified as medium-fine textured. Although the native soil is interpreted to represent greater than 2/3 of the Site soil, the analytical results for soil and groundwater samples were conservatively compared to the 2011 Table 3 RPI SCSs for coarse textured soils to account for the coarse textured fill material where contamination was found. A copy of the soil grain size analysis is included in **Appendix A3**.

(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 hydrocarbons and VOCs vapours in the soil sample headspace. The field screening measurements are included on the borehole logs in **Appendix A2**.

The results of the field screening were generally 0ppm or within expected background concentrations (i.e. less than 30ppm) with the exception of one soil sample from MW320-22 (11.3-11.6m). The headspace reading for hydrocarbons vapours was elevated in this sample (220ppm). It is noted that this sample was from shale material and no visual or olfactory indicators of contamination were noted. A soil sample was collected from this interval and submitted for analysis of PHCs and VOCs. No detections of these parameters were reported. Based on this, it is inferred that this elevated headspace reading was anamolous and not representative of actual soil headspace at this location.

(vi) Soil Quality

The COPCs for soil identified in the Phase One ESA included metals, As, Sb, Se, CN-, Hg, B-HWS, PAHs, PHCs and BTEX. The soil samples submitted for analysis (which also included EC, SAR, OCs, PCBs and VOCs) are summarized in **Table 3**. The analytical results for soil are summarized in **Table 4** through **Table 9**, along with a comparison to the 2011 Table 3 RPI SCSs. The Laboratory Certificates of Analysis for all samples relied upon in this Phase Two ESA are provided in **Appendix A3**.

The following sections summarize the analytical results for soil.

(i) <u>Metals and Hydride-Forming Metals (As, Sb, Se)</u>

Samples of soil fill and native soil were collected from across the Site and submitted for analysis of metals and hydride-forming metals As, Sb and Se. The analytical results are summarized in **Table 4**.

The analytical results for samples of shallow soil fill (0-0.6m) collected from seven boreholes in the western portion of the Site were above the 2011 Table 3 RPI SCSs for one or more metals (barium, copper, lead, zinc).

The vertical extent of metals contamination in soil was delineated at each of the borehole locations based on the analysis of a deeper sample from the same borehole. The analytical results are illustrated in plan view on **Figure 7**.

(ii) <u>B-HWS, CN- and Hg</u>

Samples of soil fill and native soil were collected from across the Site and submitted for analysis of B-HWS, CN- and Hg. The analytical results are summarized in **Table 4**.

The analytical results for CN- and Hg were all below the 2011 Table 3 RPI SCSs in the soil samples submitted for analysis.

The concentration of B-HWS at sample location MW320-22 (11.3-11.6m bgs) is not considered to be above the applicable 2011 Table 3 RPI SCCs, given that the standards for B-HWS are applicable for surface soils only (i.e. within 1.5m of ground surface). For subsurface soils, total boron is the applicable standard. The depth of the soil sample from MW320-22 was greater than 1.5m bgs and the concentration of total boron in this sample was below the 2011 Table 3 RPI SCSs. Therefore, the analytical result for B-HWS in this sample as been qualified (designated ‘Q’ in the analytical data tables) and B-HWS is not considered a COC at the Site.

(iii) <u>Electrical Conductivity (EC) and Sodium Adsorption Ratio (SAR)</u>

Samples of soil fill and native soil were collected from boreholes across the Site and submitted for analysis of EC and SAR. The analytical results were above the 2011 Table 3 RPI SCSs in multiple surface and subsurface samples, from sampling locations in the northern portion of the

Site in proximity to municipal roadways, and areas adjacent to driveways. The analytical results for EC and SAR are summarized on **Table 4**.

The Site is adjacent to three roadways Elizabeth Street North, George Street North and Nelson Street West. The exterior areas of the Phase Two Property include a commercial and residential parking and driveway areas, and the EC and SAR in soil were interpreted to be a result of the application of road salt. The Phase One ESA did not identify the bulk storage of salt on the Site.

In accordance with Section 49.1 of O.Reg.153/04, the QP_{ESA} can deem that an applicable site condition standard has not been exceeded at a property if has been determined that a substance has been applied to surfaces for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both. The analytical results for soil samples collected from the Site indicate that the presence of EC and SAR is a result of salt application for de-icing, and therefore, the 2011 Table 3 RPI SCSs for EC and SAR were deemed to not to be exceeded and EC and SAR were not considered to be COCs in soil.

(iv) Organochlorine Pesticides (OCs)

Samples of soil fill were collected from four boreholes (MW308-22, BH312-22, BH313-22 and BH318-22) located in the western portion of the Site and submitted for analysis of OCs. The analytical results are summarized in **Table 5**. The analytical results were below the 2011 Table 3 RPI SCSs with the exception of one sample from BH313-22 (0.0-0.6m bgs).

The vertical extent of OCs in soil was not delineated and additional sampling will be required to determine the vertical extent of contamination. The analytical results are illustrated in plan view on **Figure 8**.

(v) Polychlorinated Biphenyls (PCBs)

Samples of shallow soil were collected from four boreholes (BH301-22, BH302-22, MW309-22 and MW314-22) and submitted for analysis of PCBs. The analytical results were below the 2011 Table 3 RPI SCSs and are summarized in **Table 6**.

(vi) Polycyclic Aromatic Hydrocarbons (PAHs)

Samples of soil fill and native soil were collected from across the Site and submitted for analysis of PAHs. The analytical results are summarized in **Table 7**.

The analytical results were above the 2011 Table 3 RPI SCSs for one or more PAHs in multiple soil fill samples collected from boreholes in the central and western areas of the Site including: BH306-22, BH308-22 and BH316-22. Samples of native soil submitted from multiple boreholes were below the 2011 Table 3 RPI SCSs for PAHs and the PAH contamination is inferred to be limited to the fill material. The analytical results are illustrated in plan view on **Figure 9**.

(vii) Petroleum Hydrocarbons (PHCs) and Benzene, Toluene, Ethylene and Xylenes (BTEX)

Samples of soil fill and native soil were collected from across the Site and submitted for analysis of PHCs and BTEX. The analytical results are summarized in **Table 8** and **Table 9**.

The analytical results for PHCs (F1-F4) were above the 2011 Table 3 RPI SCSs at four sampling locations located in the southwestern (MW319-22), central (BH306-22) and northern (MW302-22 and BH305-22) portions of the Site. In addition, ethylbenzene and xylene were measured at concentrations about the 2011 Table 3 RPI SCSs at BH306-22, coincident with PHC contamination at this location. The analytical results for all other PHC and BTEX samples were below the 2011 Table 3 RPI SCSs, suggesting this contamination is localized to these areas of the Site and limited to the fill material.

The vertical extent of PHCs F1-F4, ethylbenzene and xylene in soil was delineated at each of the borehole locations based on the analysis of a deeper soil sample with the exception of MW306-22, which was inferred to be delineated through the submission of deeper soil samples

from nearby) borehole MW102-19 (approximately 3m south). The analytical results are illustrated in plan view on **Figure 10**.

(viii) Volatile Organic Compounds (VOCs)

Samples of soil fill and native soil were collected from across the Site and submitted for analysis of VOCs . The analytical results were below the 2011 Table 3 RPI SCSs for all samples submitted and are summarized in **Table 9**.

(ix) Summary of Soil Analytical Results

The results of the soil analysis completed during this Phase Two ESA identified the following as COCs in soil:

- metals (barium, copper, lead, zinc);
- multiple OCs parameters;
- multiple PAHs parameters;
- PHCs (F1, F2, F3 and F4); and
- ethylbenzene and xylene.

The following describes what is known about these COCs:

- Metals (barium, copper, lead, zinc), PAHs, PHCs (F1-F4) and BTEX were identified as COCs in samples collected from the soil fill unit across the Site. The primary source of these COCs was inferred to be the importation of poor quality fill material (PCA #1) during historical Site grading.
- The source of OCs in soil at borehole location BH313-22 is not specifically known, but could be related to the historical importation of poor quality fill material (PCA #1).
- Additional soil sampling would be required to further delineate the horizontal and vertical extent of some COCs and to fully investigate some APECs on the Site.

Contaminants Related to Chemical or Biological Transformations

None of the COCs measured in soil were interpreted to have resulted from chemical or biological transformations from other compounds.

Soil as a Source of Contaminant Mass to Groundwater

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

Potential Presence of Light or Dense Non-Aqueous Phase Liquids

No evidence of separate-phase liquids was observed on the Site and the soil analytical results do not suggest the presence or potential presence of light or dense non-aqueous phase liquids.

(vii) Groundwater Quality

The COPCs for groundwater identified in the Phase One ESA included metals, As, Sb, Se, CN-, Hg, ABNs, PAHs, PCBs, PHCs, BTEX and VOCs. The groundwater samples submitted for analysis are summarized in **Table 10**. The groundwater analytical results are summarized in **Table 11** through **Table 16**, along with a comparison to the 2011 Table 3 RPI SCSs. Laboratory Certificates of Analysis for all samples relied upon in this Phase Two ESA are included in **Appendix A3**. It is noted that the concentration of Hg will be accessed during the supplemental investigation.

The analytical results for groundwater were below the 2011 Table 3 RPI SCSs for all of the analyzed parameters with the exception of chloroform at MW104-19, located in the eastern

portion of the Site in proximity to George Street North. Groundwater samples have been collected from MW104-19 for VOCs, including chloroform, on two occasions: once in September 2019 with a result of <0.20µg/L and again in February 2022 with a result of 12µg/L, as compared to the 2011 Table 3 RPI SCS of 2.4µg/L. Chloroform was not detected in any other monitoring wells at levels above the laboratory detection limit during this Phase Two ESA.

In accordance with Section 49.1(2) of O.Reg.153/04, the QP_{ESA} can deem that an applicable site condition standard has not been exceeded at a property if has been determined that there has been a discharge of drinking water within the meaning of the Safe Drinking Water Act, 2002. In regards to chloroform:

- There is no known use or source of chloroform on the Site;
- Chloroform was not identified as a specific COPC during the Phase One ESA;
- Cloroform was not detected in any other groundwater samples from across the Site and was not previously detected in a groundwater sample from MW104-19. There has been no change in Site use since the initial sample was collected; and
- The Region of Peel was contacted and confirmed that there have been water main breaks in the vicinity of the Site and the measured concentration of chloroform in municipal water in this area was between approximately 9 and 11µg/L.

Based on the above, the source of chloroform was concluded to be the discharge of treated drinking water (i.e., from one or more leaking water mains); and therefore, chloroform was not considered to be a COC in groundwater at the Site and the analytical result was qualified 'Q' in the analytical data tables.

Comparison to 2011 Table 7 SCSs

As discussed above, the measured depth to groundwater in some monitoring wells at the Site was less than 3m bgs, which may invalidate some of the assumptions built into the derivation of the 2011 Table 3 RPI SCSs. The soil and groundwater analytical results were also compared to the 2011 Table 7 (shallow soil) SCSs to determine if any additional COCs would be identified. There was no change in the location or number of COCs based on this comparison and therefore the 2011 Table 3 RPI SCSs were deemed to be appropriate for the Site.

Potential for Light or Dense Non-Aqueous Phase Liquids (LNAPL or DNAPL)

No evidence of light or dense non-aqueous liquids (LNAPL or DNAPL) was observed during the soil or groundwater sampling activities. No COCs were identified in groundwater and groundwater concentrations on the Site were all 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 LNALP or DNAPL formation. MTE measured water levels in all wells on the Site using an interface probe and no separate-phase liquids were detected.

(viii) Quality Assurance 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 3 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 a trip blank).

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 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 have 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

A trip blank sample of ultra-pure water was prepared by the laboratory and submitted by MTE with the groundwater samples collected on February 15, 2022. The trip blank remained with the sample containers prior to and after sampling, was pre-labeled “TRIP BLANK” and submitted for analysis of VOCs and BTEX. There were no detections of VOCs or BTEX in the sample suggesting no outside influences by VOCs or BTEX 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	Field Duplicate	Media	Analysis
BH301-22 SS1 0-2	BH301-22 SS101 0-2	Soil	EC, SAR, PHCs, BTEX
MW302-22 SS1 0-2	MW302-22 SS101 0-2	Soil	PCBs

Sample	Field Duplicate	Media	Analysis
BH304 SS1 0-2'	BH304 SS101 0-2'	Soil	metals, As, Sb, Se, B-HWS, Hg, CN, EC, SAR, PHCs, BTEX
BH305 SS1 0-2'	BH305 SS101 0-2'	Soil	metals, As, Sb, Se, PAHs, PHCs, BTEX
MW 306-22 SS1 0-2	MW 306-22 SS101 0-2	Soil	PAHs, PHCs, BTEX
MW 307-22 SS1 0-2	MW 307-22 SS101 0-2	Soil	metals, As, Sb, Se
MW 308-22 SS1 0-2	MW 308-22 SS101 0-2	Soil	metals, As, Sb, Se
MW309 SS1 0-2'	MW309 SS101 0-2'	Soil	metals, As, Sb, Se
BH313-22 SS1 0-2'	BH313-22 SS101 0-2'	Soil	metals, As, Sb, Se, OCs
BH315-22 SS1 0-2	BH315-22 SS101 0-2	Soil	metals, As, Sb, Se
BH316-22 SS1 0-2'	BH316-22 SS101 0-2'	Soil	PHCs, BTEX
BH317-22 SS1 0-2	BH317-22 SS101 0-2	Soil	PHCs, BTEX
BH318-22 SS1 0-2	BH318-22 SS101 0-2	Soil	PHCs, BTEX
MW319-22 SS1 0-2	MW319-22 SS101 0-2	Soil	PHCs, BTEX
MW104-19	MW1104-19	Groundwater	metals, As, Sb, Se, PHCs, VOCs
MW309-22	MW1309-22	Groundwater	metals, As, Sb, Se, PHCs, VOCs

Field duplicate RPD control limits were set at 50% for soil and 30% for groundwater. 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 for all analyzed parameters where a calculation could be completed, with the exception of the following samples:

Sample	Field Duplicate	Media	Analysis
MW 306-22 SS1 0-2	MW 306-22 SS101 0-2	Soil	multiple PAHs
BH313-22 SS1 0-2'	BH313-22 SS101 0-2'	Soil	Multiple OCs

The concentration of PAHs (anthracene, benz(a)anthracene, benzo(a)pyrene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene and phenanthrene) at MW306-22 SS1 0-2' were above the Table 3 RPI SCSs in the original sample but below the 2011 Table 3 RPI SCSs in the field duplicate. The concentrations of the remaining PAHs were below the 2011 Table 3 RPI SCSs in both the sample and field duplicate at MW306-22.

The original and duplicate sample submitted from BH313-22 for OC analysis had the same parameters either above or below the 2011 Table 3 RPI SCSs. There was no change in the interpretation of the analytical data based on the elevated RPDs.

In both cases, the elevated RPDs are attributed to the heterogeneity of the fill material at the Site. To be conservative, the higher of the two concentrations between the original and duplicate samples were considered in the Phase Two ESA.

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 analytical results are

considered to be suitable for comparison to the 2011 Table 3 RPI SCSs based on the following:

- The sampling program design was appropriate to characterize the subsurface media in each APEC.
- 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, temperature, 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 and Rejected Data

The data validation process also included a detailed review of the analytical data set by the QP_{ESA}. The results of the review identified the following:

- The RDL for PHCs (F2) at soil sample MW 319-22 SS1 0-2 were adjusted to account for sample dilution prior to analysis due to the sample matrix interferences. The adjusted RDL was above the 2011 Table 3 RPI SCSs for PHCs (F2). The elevated RDL for PHC (F2) was due to interference of PHCs F3 and F4 concentrations of the sample, with both PHCs F3 and F4 concentrations above the 2011 Table RPI SCSs; therefore the elevated RDL did not affect the interpretation of the analytical data.

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.

(ix) Phase Two Conceptual Site Model

A Phase Two Conceptual Site Model (CSM), completed in accordance with Schedule E, Part V, Table 1, S6(x) of O.Reg.153/04 will be included in final Phase Two ESA report.

7.0 Conclusions

The analytical results for soil identified metals (barium, copper, lead, zinc), OCs, PAHs, PHCs (F1-F4), ethylbenzene and xylene as COCs in soil on the Site. The COCs in soil were limited to the fill material in the western, central and northern portions of the Site. The source of the COCs in soil was concluded to be the importation of poor quality fill material during historical Site grading.

EC and SAR were identified in soil at concentrations above the 2011 Table 3 RPI SCSs at multiple sampling locations located in the eastern and northern portions of the Site, within parking areas and in proximity to surrounding roadways. The EC and SAR in soil was interpreted to be a result of salt application for de-icing. In accordance with Section 49.1 of O.Reg.153/04, the 2011 Table 3 RPI SCS for these parameters was deemed to not to be exceeded and EC and SAR were not considered to be COCs in soil at the Site.

Chloroform was identified in groundwater at a concentration above the 2011 Table 3 RPI SCSs at one sampling location located in the eastern portion of the Site, in proximity to George Street North. The chloroform in groundwater was interpreted to be a result of the discharge of drinking water within the meaning of the Safe Drinking Water Act, 2002 due to water main leaks beneath George Street North. In accordance with Section 49.1 of O.Reg.153/04, the 2011 Table 3 RPI SCS for these parameters was deemed to not to be exceeded and chloroform was not considered to be a COC in groundwater at the Site.

The groundwater analytical results were interpreted to meet the 2011 Table 7 RPI SCSs for all of the analyzed parameters, and therefore, no COCs were identified in groundwater at the Site.

Based on the results of this Phase Two ESA, additional soil and groundwater sampling is required to sufficiently investigate each APEC and to further delineate the COCs identified in soil and groundwater at 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 Greenwin Corp. 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.

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9.0 References

"Applied Hydrology, 4th Edition", Fetter, C.W., Prentice Hall Inc., 2001.

"Bedrock Geology of Southern Ontario, Southern Sheet", Ministry of Northern Development and Mines, 1991.

"*18, 20, 22, 24 and 28 Elizabeth Street North and 31 & 33 George Street North, Brampton ON, Phase One Environmental Site Assessment".* Prepared for Greenwin Corp. by MTE Constultants Inc., March 31, 2022.

"*28 Elizabeth Street North and 31-33 George Street North, Brampton, ON, Phase I Environmental Site Assessment*". Prepared for The Six Real Estate Development Inc. by MTE Consultants Inc., August 23, 2019.

"*28 Elizabeth Street North and 31-33 George Street North, Brampton, ON, Phase II Environmental Site Assessment*". Prepared for The Six Real Estate Development Inc. by MTE Consultants Inc., October 3, 2019.

"*Geotechnical Investigation, Proposed Midrise Development, 18 to 24 Elizabeth Street North, Brampton, Ontario*". Report No. 2019-12862R. Prepared for 2560517 Ontario Inc. by Sola Engineering, July 20, 2020.

"*Hydrogeological Assessment, 18-24 Elizabeth Street North, Brampton Ontario*". REF. No.1913, Prepared for 2560517 Ontario Inc. by Harden Environmental Services Limited, August 9, 2020.

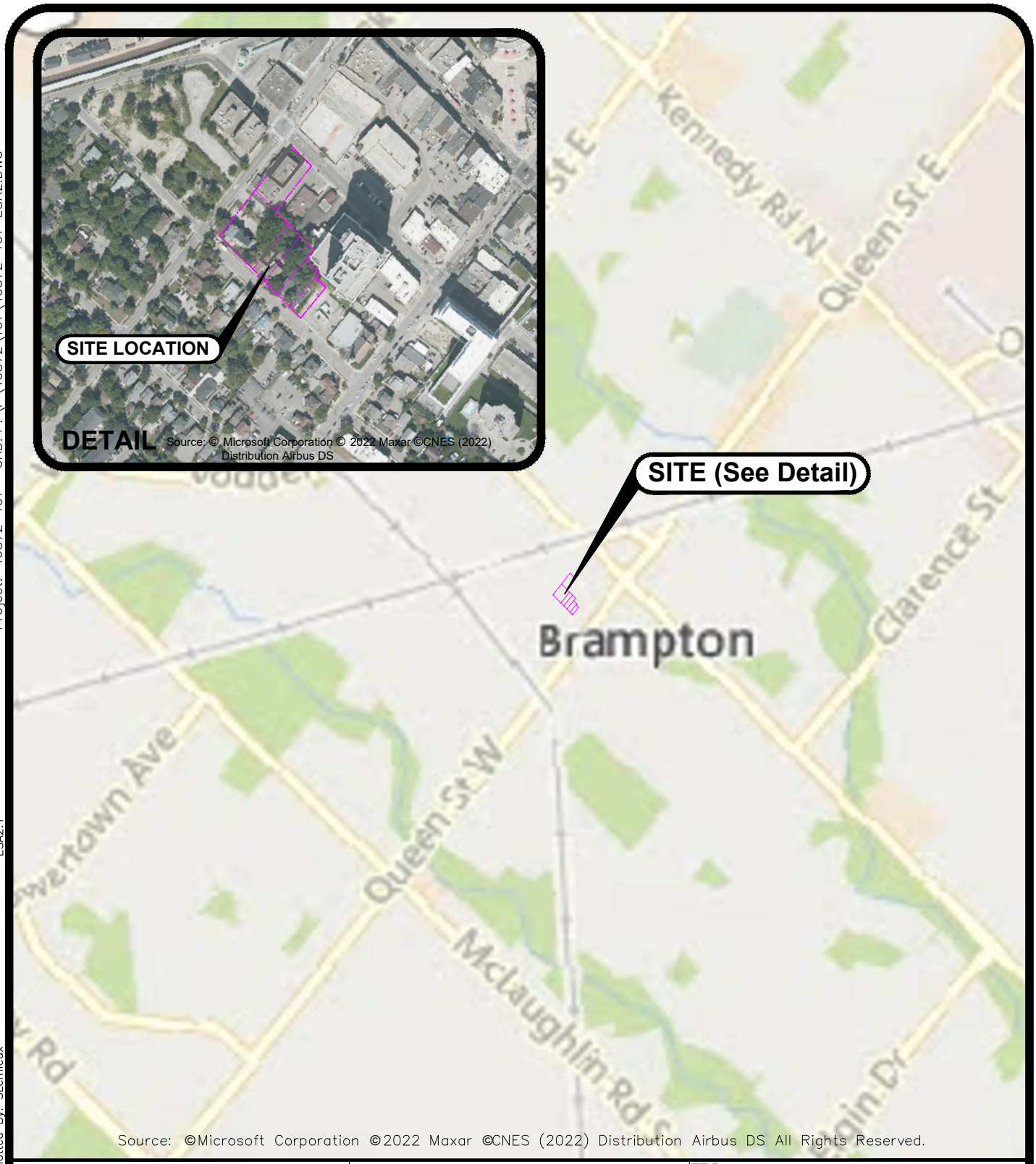
"Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004", Ontario Ministry of the Environment, *amended as of July 1, 2011*.

"Protocol of Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act – March 9, 2004", Ontario Ministry of the Environment, *amended as of July 1, 2011*.

"Rationale for the Development of Soil and Ground Water Standards for Use at Contaminated Sites in Ontario", Standards Development Branch, Ontario Ministry of the Environment, April 15, 2011.

"Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", Ontario Ministry of the Environment. April 15, 2011.

Figures



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0 200 400 600 800 1000m
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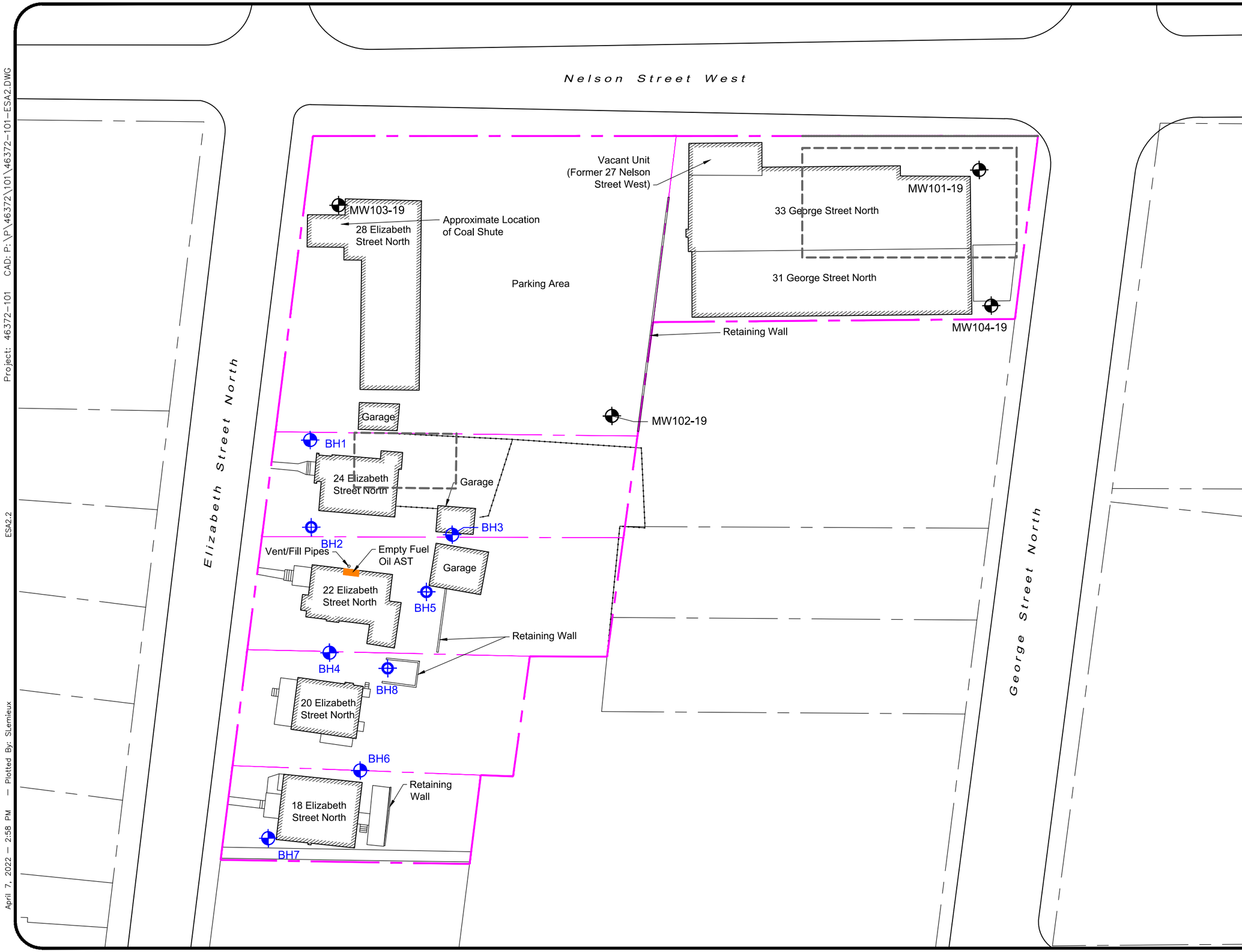
CLIENT	Greenwin Corp.
PROJECT	Phase Two ESA
SITE	18, 20, 22, 24, 28 Elizabeth Street North and 31-33 George Street North, Brampton, ON
TITLE	Site Location Map
Reviewed By	SDB
Prepared By	ZXT
Drawn By	SGL
Date	April 2022
Project No.	46372–101
Figure No.	1

N
NORTH

Project: 46372–101 CAD: P:\P\46372\101\46372–101–ESA2.DWG ESA2.1 April 7, 2022 – 2:47 PM – Plotted By: SLemieux



NORTH

PROJECT NORTH

LEGEND

- Property Line
- Adjoining Property Line
- Fence
- Existing Building
- Former Building
- Monitoring Well (MTE)
- Monitoring Well (Harden)
- Borehole (MTE)
- Borehole (Harden)

0 5 10 15 20 25m

Scale(11x17): 1:500

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CLIENT

Greenwin Corp.

PROJECT

Phase Two ESA

SITE

18, 20, 22, 24, 28 Elizabeth Street North and 31-33 George Street North, Brampton, ON

TITLE

Site Layout and Features

Reviewed By	SDB		
Prepared By	ZXT	Project No.	46372-101
Drawn By	SGL	Figure No.	2
Date	April 2022		

Project: 46372-101 CAD: P:\P\46372\101\46372-101-ESA2.DWG

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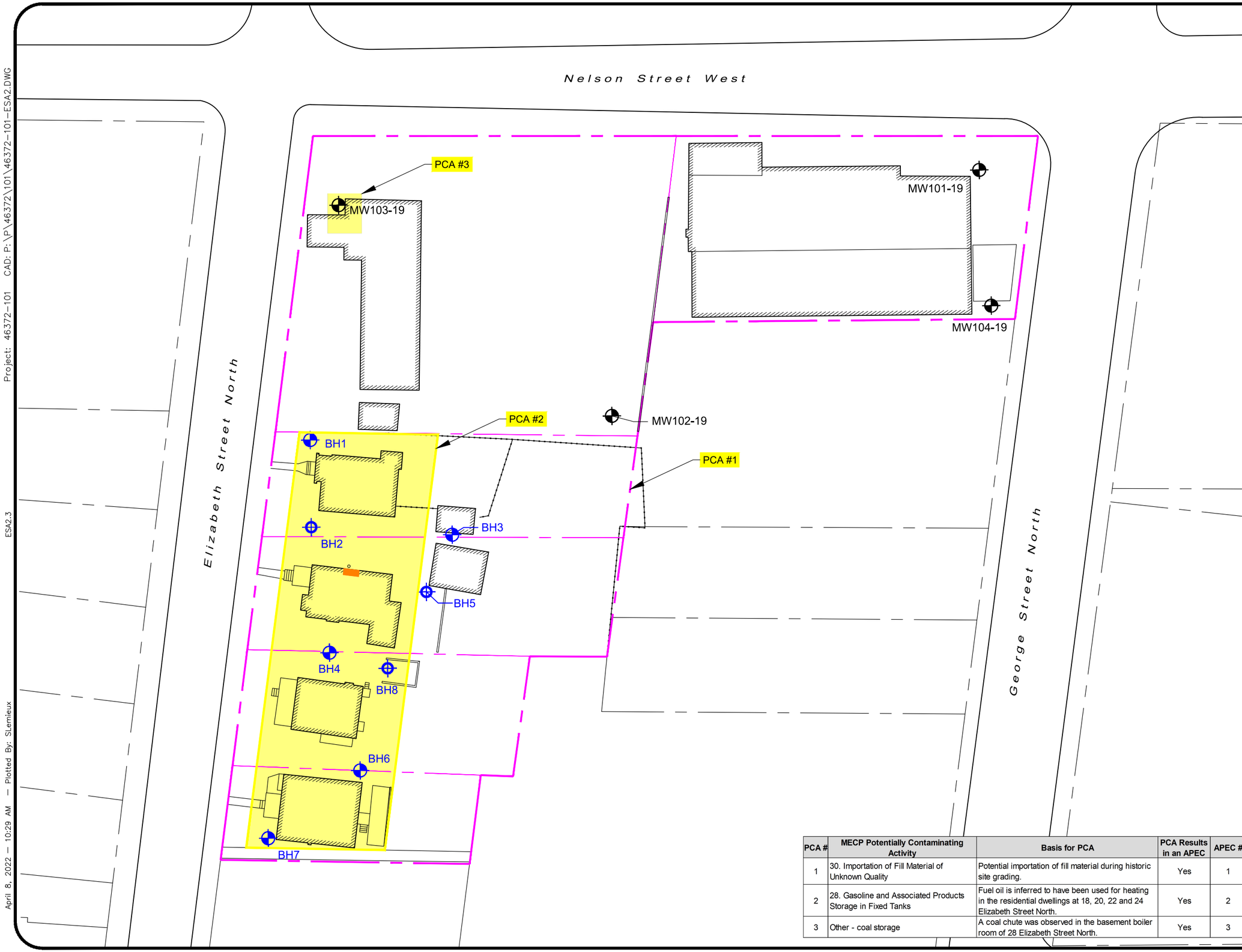

PCA #	MECP Potentially Contaminating Activity	Basis for PCA	PCA Results in an APEC	APEC #
1	30. Importation of Fill Material of Unknown Quality	Potential importation of fill material during historic site grading.	Yes	1
2	28. Gasoline and Associated Products Storage in Fixed Tanks	Fuel oil is inferred to have been used for heating in the residential dwellings at 18, 20, 22 and 24 Elizabeth Street North.	Yes	2
3	Other - coal storage	A coal chute was observed in the basement boiler room of 28 Elizabeth Street North.	Yes	3

NORTH

PROJECT NORTH

LEGEND

- Property Line
- Adjoining Property Line
- Fence
- Existing Building
- Monitoring Well (MTE)
- Monitoring Well (Harden)
- Borehole (MTE)
- Borehole (Harden)

0 5 10 15 20 25m

Scale(11x17): 1:500

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CLIENT
Greenwin Corp.

PROJECT
Phase Two ESA

SITE
18, 20, 22, 24, 28 Elizabeth Street North and 31-33 George Street North, Brampton, ON

TITLE
On-Site PCAs

Reviewed By	SDB		
Prepared By	ZXT	Project No.	46372-101
Drawn By	SGL	Figure No.	3
Date	April 2022		

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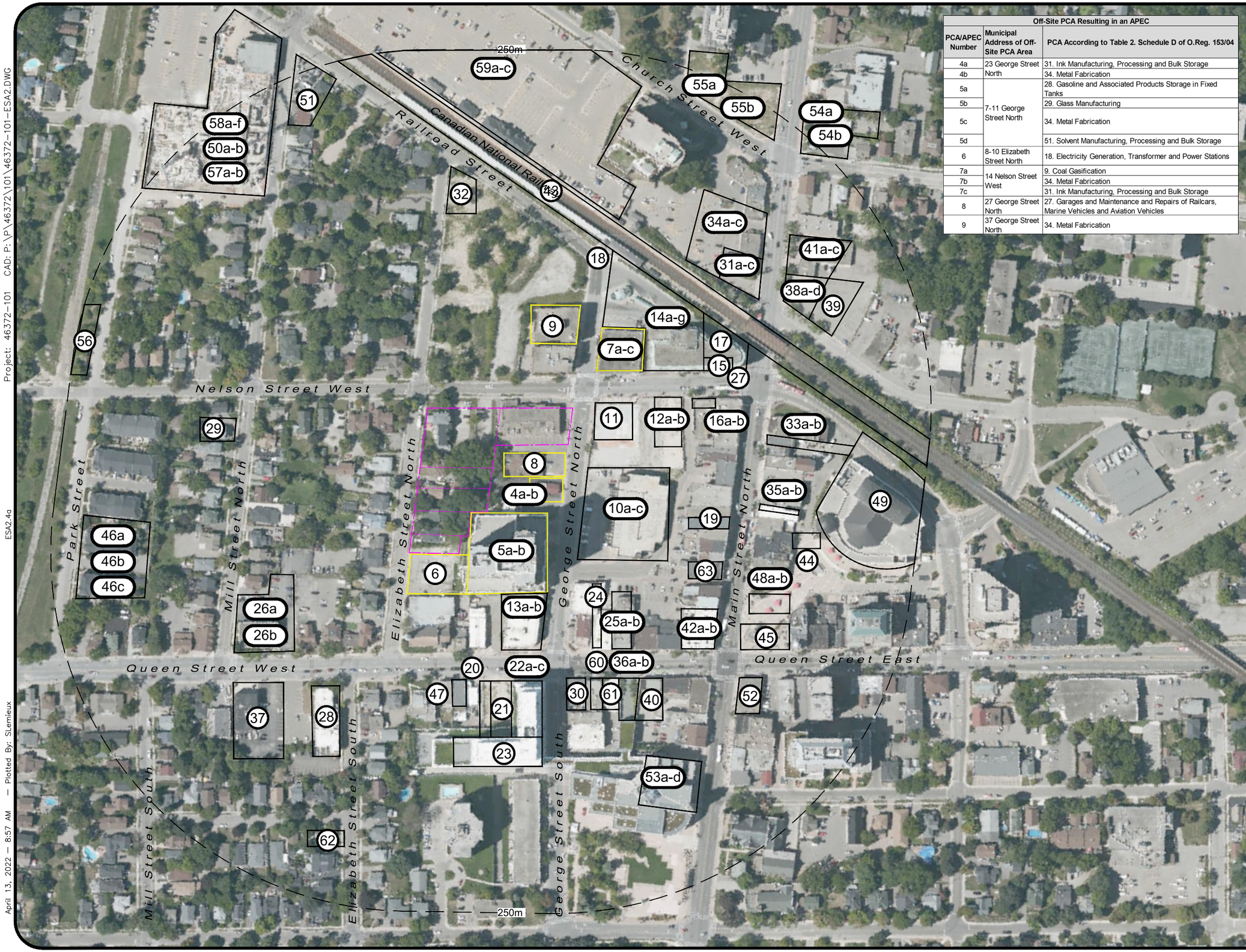

Off-Site PCA Resulting in an APEC		
PCA/APEC Number	Municipal Address of Off-Site PCA Area	PCA According to Table 2. Schedule D of O.Reg. 153/04
4a	23 George Street North	31. Ink Manufacturing, Processing and Bulk Storage
4b		34. Metal Fabrication
5a	7-11 George Street North	28. Gasoline and Associated Products Storage in Fixed Tanks
5b		29. Glass Manufacturing
5c		34. Metal Fabrication
5d		51. Solvent Manufacturing, Processing and Bulk Storage
6	8-10 Elizabeth Street North	18. Electricity Generation, Transformer and Power Stations
7a	14 Nelson Street West	9. Coal Gasification
7b		34. Metal Fabrication
7c		31. Ink Manufacturing, Processing and Bulk Storage
8	27 George Street North	27. Garages and Maintenance and Repairs of Railcars, Marine Vehicles and Aviation Vehicles
9	37 George Street North	34. Metal Fabrication

NORTH

PROJECT NORTH

LEGEND

- Property Line
- 250m Study Area
- Off-Site PCA Not Resulting in an APEC
- Off-Site PCA Resulting in an APEC
- Fuel Storage Tank

Note:
Refer to Figure 4b for table of PCAs not resulting in APEC.

0 25 50 75 100 125m

Scale(11x17): 1:2500

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CLIENT
Greenwin Corp.

PROJECT
Phase Two ESA

SITE
18, 20, 22, 24, 28 Elizabeth Street North and 31-33 George Street North, Brampton, ON

TITLE
Off Site PCAs

Reviewed By	SDB		
Prepared By	ZXT	Project No.	46372-101
Drawn By	SGL	Figure No.	4a
Date	April 2022		

Project: 46372-101 CAD: P:\P\46372\101\46372-101-ESA2.DWG

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Off-Site PCA Not Resulting in an APEC

PCA/APEC Number	Municipal Address of Off-Site PCA Area	PCA According to Table 2. Schedule D of O.Reg. 153/04
PCA#10a	1 Diplock Lane	49. Salvage Yard, including automobile wrecking
PCA#10b		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#10c		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#11	23 Nelson Street West	31.Ink Manufacturing, Processing and Bulk Storage
PCA#12a	9 Nelson Street West	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
PCA#12b		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#13a	50 Queen Street West	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
PCA#13b		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#14a	8-12 Nelson Street West and 32, 36 George Street North	59. Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products
PCA#14b		Other – Former coal use and storage
PCA#14c	8 Nelson Street West	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#14d		31.Ink Manufacturing, Processing and Bulk Storage
PCA#14e		43. Plastics (including Fibreglass) Manufacturing and Processing
PCA#14f		55. Transformer Manufacturing, Processing and Use
PCA#14g		37. Operation of Dry Cleaning Equipment (where chemicals are used)
PCA#15	1 Nelson Street West	34. Metal Fabrication
PCA#16a	2 Nelson Street West	47. Rubber Manufacturing and Processing
PCA#16b		Other – Former coal use and storage
PCA#17	10 Nelson Street West	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
PCA#18	Rail Road Street and George Street	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#19	53 Main Street North	31.Ink Manufacturing, Processing and Bulk Storage
PCA#20	69 Queen Street West	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#21	65 Queen Street West	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#22a	41 George Street South	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
PCA#22b		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#22c		47. Rubber Manufacturing and Processing
PCA#23		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#24	38 Queen Street West	37. Operation of Dry Cleaning Equipment (where chemicals are used)
PCA#25a	32 Queen Street West	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
PCA#25b		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#26a	118 Queen Street West	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#26b		47. Rubber Manufacturing and Processing
PCA#27	Nelson & Queen Go Transit Station	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#28	103 Queen Street West	31.Ink Manufacturing, Processing and Bulk Storage
PCA#29	27 Mill Street North	49. Salvage Yard, including automobile wrecking
PCA#30	49 Queen Street West	37. Operation of Dry Cleaning Equipment (where chemicals are used)
PCA#31a	131 Main Street North	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
PCA#31b		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#31c		47. Rubber Manufacturing and Processing
PCA#32	58 Elizabeth Street North	45. Pulp, Paper and Paperboard Manufacturing and Processing
PCA#33a	80 Main Street North	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#33b		37. Operation of Dry Cleaning Equipment (where chemicals are used)

Off-Site PCA Not Resulting in an APEC

PCA/APEC Number	Municipal Address of Off-Site PCA Area	PCA According to Table 2. Schedule D of O.Reg. 153/04
PCA#34a	131-135 Main Street North	12. Concrete, Cement and Lime Manufacturing
PCA#34b		27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
PCA#34c		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#35a	54 Main Street North	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#35b		59. Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products
PCA#36a	33 Queen Street West	31. Ink Manufacturing, Processing and Bulk Storage
PCA#36b		51. Solvent Manufacturing, Processing and Bulk Storage
PCA#37	111 Queen Street West	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#38a	2 Nelson Street East	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#38b		34. Metal Fabrication
PCA#38c		59. Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products
PCA#38d		31. Ink Manufacturing, Processing and Bulk Storage
PCA#39	6 Nelson Street East	59. Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products
PCA#40	25-27 Queen Street West	31. Ink Manufacturing, Processing and Bulk Storage
PCA#41a	130 Main Street North	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
PCA#41b		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#42a	1 Main Street North	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#42b		51. Solvent Manufacturing, Processing and Bulk Storage
PCA#43	Railway	46. Rail Yards, Tracks and Spurs
PCA#44	1 Theatre Lane	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#45	2 Queen Street West	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#46a	1-11 Flowering Vine Lane	59. Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products
PCA#46b		Other – Former coal use and storage
PCA#46c		27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
PCA#47	79 Queen Street West	34. Metal Fabrication
PCA#48a	14 Main Street North	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#48a		39. Paints Manufacturing, Processing and Bulk Storage
PCA#49	1 Theatre Lane	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#50a	45 Railroad Street	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#50b		34. Metals Fabrication
PCA#51	35 Railroad Street	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#52a	1 Main Street South	37. Operation of Dry Cleaning Equipment (where chemicals are
PCA#52b		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#53a	2 Wellington Street West	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
PCA#53b		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#53c		31. Ink Manufacturing, Processing and Bulk Storage
PCA#53d		39. Paints Manufacturing, Processing and Bulk Storage
PCA#54a	151 Main Street North	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
PCA#54b		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#55a	150 Main Street North	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
PCA#55b		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#56	62 Park Street	Other – Former coal use and storage
PCA#57a	56-60 Mill Street North	45. Pulp, Paper and Paperboard Manufacturing and Processing
PCA#57b		Other – Former coal use and storage

Off-Site PCA Not Resulting in an APEC

PCA/APEC Number	Municipal Address of Off-Site PCA Area	PCA According to Table 2. Schedule D of O.Reg. 153/04
PCA#58a	41-53 Railroad Street and 49 Mill Street North	8. Chemical Manufacturing, Processing and Bulk Storage
PCA#58b		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#58c		33. Metal Treatment, Coating, Plating and Finishing
PCA#58d		34. Metal Fabrication
PCA#58e		45. Pulp, Paper and Paperboard Manufacturing and Processing
PCA#58f		Other – Former coal use and storage
PCA#59a	11 Church Street West	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles
PCA#59b		28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#59c		Other – Former coal use and storage
PCA#60	39 Queen Street West	37. Operation of Dry Cleaning Equipment (where chemicals are used)
PCA#61	37 Queen Street West	31. Ink Manufacturing, Processing and Bulk Storage
PCA#62	13 Elizabeth Street South	28. Gasoline and Associated Products Storage in Fixed Tanks
PCA#63	27 Main Street North	34. Metal Fabrication

NORTH

N

PROJECT NORTH

LEGEND

0 5 10 15 20 25m

Scale(11x17): 1:500

MTE

Engineers, Scientists, Surveyors

Ph. (519) 743-6500

CLIENT

Greenwin Corp.

PROJECT

Phase Two ESA

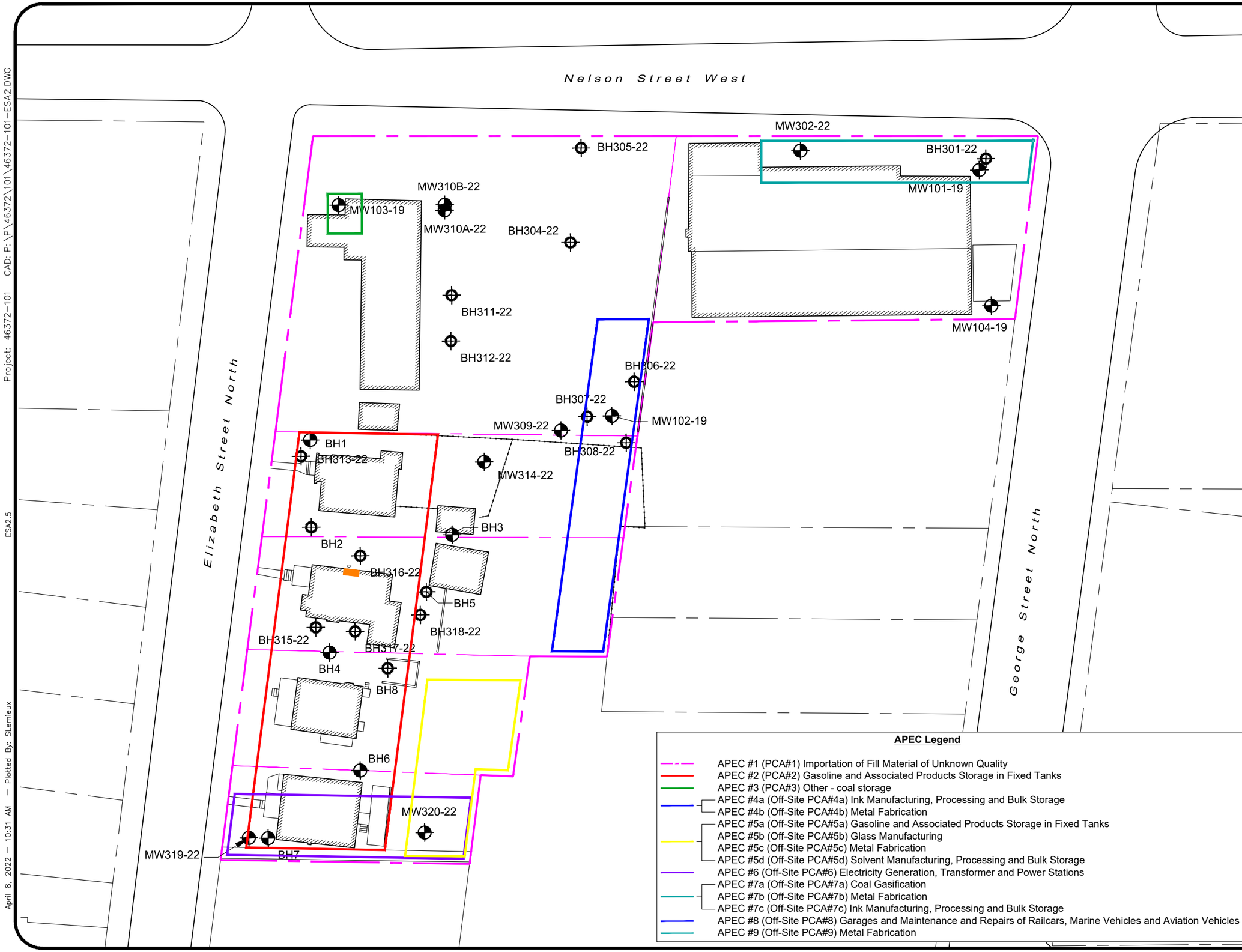
SITE

18, 20, 22, 24, 28 Elizabeth Street North and 31-33 George Street North, Brampton, ON

TITLE

Off Site PCAs

Reviewed By	SDB		
Prepared By	ZXT	Project No.	46372-101
Drawn By	SGL	Figure No.	4b
Date	April 2022		



APEC Legend

- APEC #1 (PCA#1) Importation of Fill Material of Unknown Quality
- APEC #2 (PCA#2) Gasoline and Associated Products Storage in Fixed Tanks
- APEC #3 (PCA#3) Other - coal storage
- APEC #4a (Off-Site PCA#4a) Ink Manufacturing, Processing and Bulk Storage
- APEC #4b (Off-Site PCA#4b) Metal Fabrication
- APEC #5a (Off-Site PCA#5a) Gasoline and Associated Products Storage in Fixed Tanks
- APEC #5b (Off-Site PCA#5b) Glass Manufacturing
- APEC #5c (Off-Site PCA#5c) Metal Fabrication
- APEC #5d (Off-Site PCA#5d) Solvent Manufacturing, Processing and Bulk Storage
- APEC #6 (Off-Site PCA#6) Electricity Generation, Transformer and Power Stations
- APEC #7a (Off-Site PCA#7a) Coal Gasification
- APEC #7b (Off-Site PCA#7b) Metal Fabrication
- APEC #7c (Off-Site PCA#7c) Ink Manufacturing, Processing and Bulk Storage
- APEC #8 (Off-Site PCA#8) Garages and Maintenance and Repairs of Railcars, Marine Vehicles and Aviation Vehicles
- APEC #9 (Off-Site PCA#9) Metal Fabrication

NORTH

PROJECT NORTH

LEGEND

- Property Line
- Adjoining Property Line
- Fence
- Existing Building
- Monitoring Well
- Borehole

0 5 10 15 20 25m

Scale(11x17): 1:500

MTE
Engineers, Scientists, Surveyors
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CLIENT: Greenwin Corp.

PROJECT: Phase Two ESA

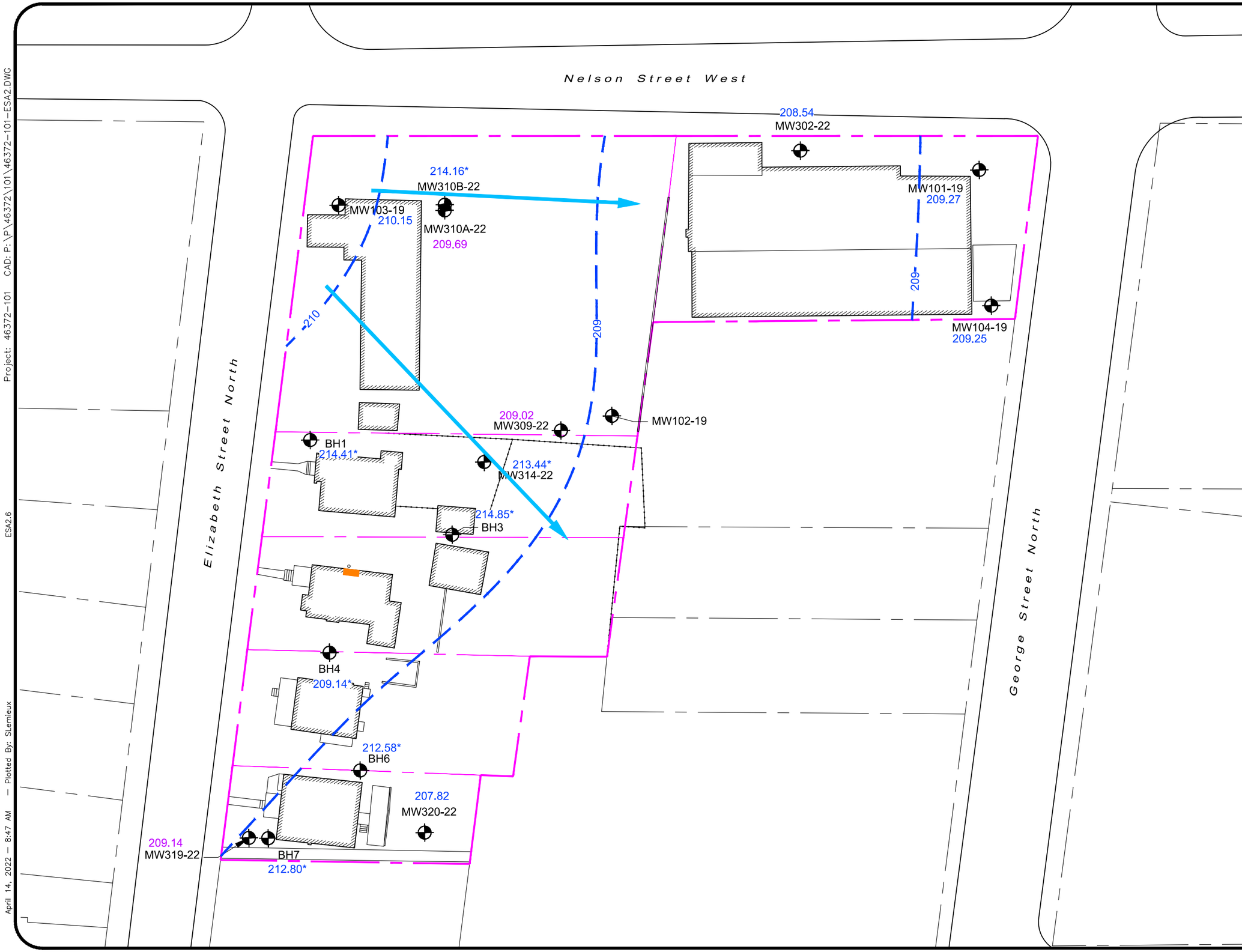
SITE: 18, 20, 22, 24, 28 Elizabeth Street North and 31-33 George Street North, Brampton, ON

TITLE: APECs and Sampling Locations

Reviewed By	SDB		
Prepared By	ZXT	Project No.	46372-101
Drawn By	SGL	Figure No.	5
Date	April 2022		

Project: 46372-101 CAD: P:\P\46372\101\46372-101-ESA2.DWG ESA2.5

April 8, 2022 – 10:31 AM – Plotted By: SLemieux



NORTH

PROJECT NORTH

LEGEND

- Property Line
- Adjoining Property Line
- Fence
- Existing Building
- Monitoring Well (MTE)
- Borehole (MTE)
- Groundwater Contours
- 209.25 Groundwater Elevation (March 25, 2022)
- Groundwater Flow Direction
- 213.44* Overburden Groundwater Elevation not Considered in Development of Contours
- 209.14 Bedrock Groundwater Elevation

0 5 10 15 20 25m

Scale(11x17): 1:500

MTE

Engineers, Scientists, Surveyors

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CLIENT

Greenwin Corp.

PROJECT

Phase Two ESA

SITE

18, 20, 22, 24, 28 Elizabeth Street North and 31-33 George Street North, Brampton, ON

TITLE

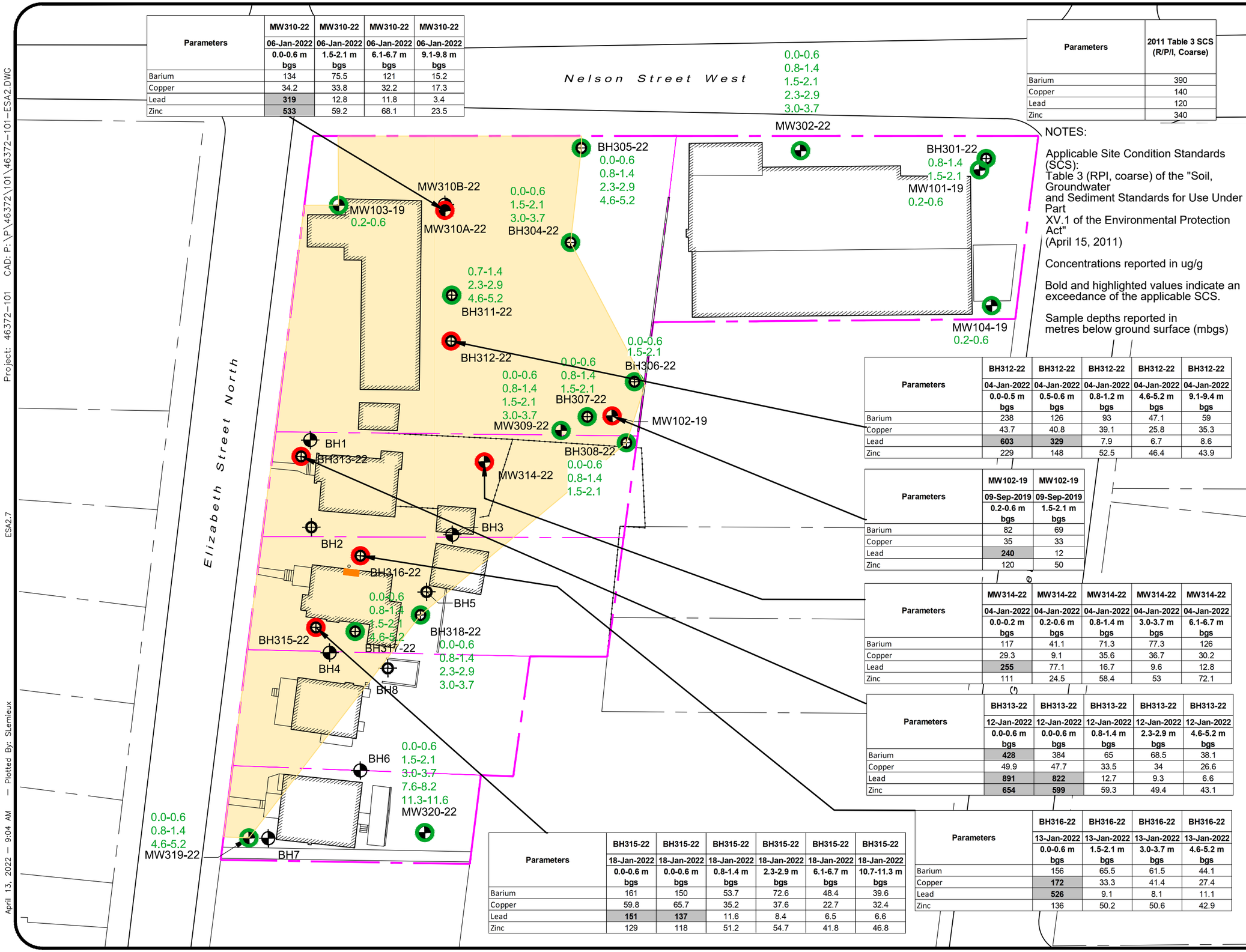
Groundwater Flow Map

Reviewed By	SDB		
Prepared By	ZXT	Project No.	46372-101
Drawn By	SGL	Figure No.	6
Date	April 2022		

Project: 46372-101 CAD: P:\P\46372\101\46372-101-ESA2.DWG

ESA2.6

April 14, 2022 – 8:47 AM – Plotted By: SLemieux



Parameters	MW310-22	MW310-22	MW310-22	MW310-22
	06-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022
	0.0-0.6 m bgs	1.5-2.1 m bgs	6.1-6.7 m bgs	9.1-9.8 m bgs
Barium	134	75.5	121	15.2
Copper	34.2	33.8	32.2	17.3
Lead	**319**	12.8	11.8	3.4
Zinc	**533**	59.2	68.1	23.5

Parameters	2011 Table 3 SCS (R/P/I, Coarse)
Barium	390
Copper	140
Lead	120
Zinc	340

NOTES:

Applicable Site Condition Standards (SCS):
Table 3 (RPI, coarse) of the "Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act"
(April 15, 2011)

Concentrations reported in ug/g

Bold and highlighted values indicate an exceedance of the applicable SCS.

Sample depths reported in metres below ground surface (mbgs)

Parameters	BH312-22	BH312-22	BH312-22	BH312-22	BH312-22
	04-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022
	0.0-0.5 m bgs	0.5-0.6 m bgs	0.8-1.2 m bgs	4.6-5.2 m bgs	9.1-9.4 m bgs
Barium	238	126	93	47.1	59
Copper	43.7	40.8	39.1	25.8	35.3
Lead	**603**	**329**	7.9	6.7	8.6
Zinc	229	148	52.5	46.4	43.9

Parameters	MW102-19	MW102-19
	09-Sep-2019	09-Sep-2019
	0.2-0.6 m bgs	1.5-2.1 m bgs
Barium	82	69
Copper	35	33
Lead	**240**	12
Zinc	120	50

Parameters	MW314-22	MW314-22	MW314-22	MW314-22	MW314-22
	04-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022
	0.0-0.2 m bgs	0.2-0.6 m bgs	0.8-1.4 m bgs	3.0-3.7 m bgs	6.1-6.7 m bgs
Barium	117	41.1	71.3	77.3	126
Copper	29.3	9.1	35.6	36.7	30.2
Lead	**255**	77.1	16.7	9.6	12.8
Zinc	111	24.5	58.4	53	72.1

Parameters	BH313-22	BH313-22	BH313-22	BH313-22	BH313-22
	12-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022
	0.0-0.6 m bgs	0.0-0.6 m bgs	0.8-1.4 m bgs	2.3-2.9 m bgs	4.6-5.2 m bgs
Barium	**428**	384	65	68.5	38.1
Copper	49.9	47.7	33.5	34	26.6
Lead	**891**	**822**	12.7	9.3	6.6
Zinc	**654**	**599**	59.3	49.4	43.1

Parameters	BH315-22	BH315-22	BH315-22	BH315-22	BH315-22	BH315-22
	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022
	0.0-0.6 m bgs	0.0-0.6 m bgs	0.8-1.4 m bgs	2.3-2.9 m bgs	6.1-6.7 m bgs	10.7-11.3 m bgs
Barium	161	150	53.7	72.6	48.4	39.6
Copper	59.8	65.7	35.2	37.6	22.7	32.4
Lead	**151**	**137**	11.6	8.4	6.5	6.6
Zinc	129	118	51.2	54.7	41.8	46.8

Parameters	BH316-22	BH316-22	BH316-22	BH316-22
	13-Jan-2022	13-Jan-2022	13-Jan-2022	13-Jan-2022
	0.0-0.6 m bgs	1.5-2.1 m bgs	3.0-3.7 m bgs	4.6-5.2 m bgs
Barium	156	65.5	61.5	44.1
Copper	**172**	33.3	41.4	27.4
Lead	**526**	9.1	8.1	11.1
Zinc	136	50.2	50.6	42.9

NORTH

PROJECT NORTH

LEGEND

- Property Line
- Adjoining Property Line
- Fence
- Existing Building
- Monitoring Well
- Borehole
- Soil Sample Meets Applicable SCS
- Soil Sample Exceeds Applicable SCS
- 0.0-5.2 Sample Depth (m bgs)
- Inferred Limits of Impacts as Defined by Schedule E, Part III, Section 7(4) of O. Reg. 153/04

0 5 10 15 20 25m

Scale(11x17): 1:500

MTE
Engineers, Scientists, Surveyors
Ph. (519) 743-6500

CLIENT: Greenwin Corp.

PROJECT: Phase Two ESA

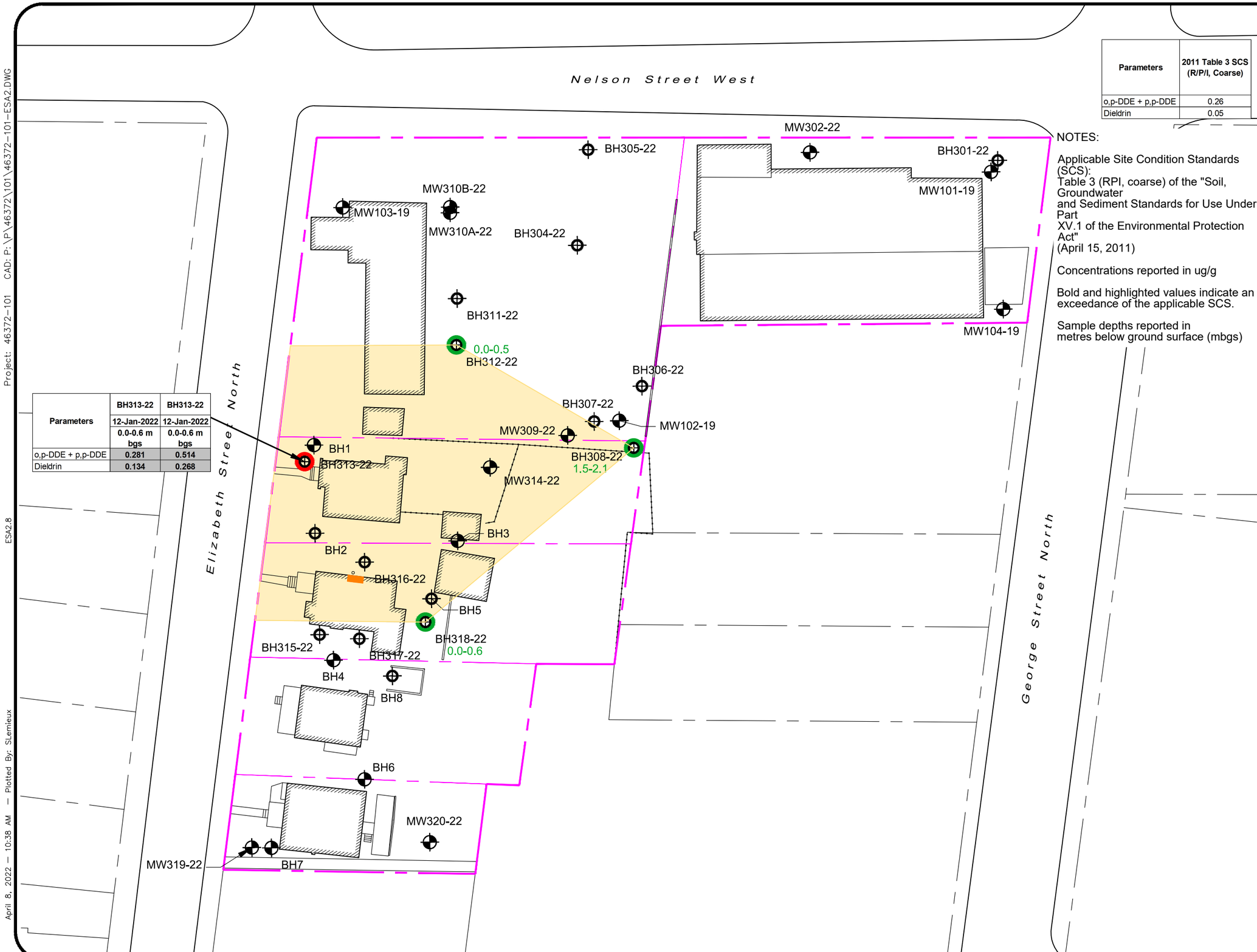
SITE: 18, 20, 22, 24, 28 Elizabeth Street North and 31-33 George Street North, Brampton, ON

TITLE: Metals, As, Sb, Se in Soil - Plan View

Reviewed By: SDB
Prepared By: ZXT
Drawn By: SGL
Date: April 2022
Project No. 46372-101
Figure No. 7

Project: 46372-101 CAD: P:\P\46372\101\46372-101-ESA2.DWG
ESA2.7
April 13, 2022 — 9:04 AM — Plotted By: SLemieux

Project: 46372-101 CAD: P:\P\46372\101\46372-101-ESA2.DWG
ESA2.8
April 8, 2022 – 10:38 AM – Plotted By: SLemieux



Parameters	BH313-22	BH313-22
	12-Jan-2022	12-Jan-2022
	0.0-0.6 m bgs	0.0-0.6 m bgs
o,p-DDE + p,p-DDE	0.281	0.514
Dieldrin	0.134	0.268

Parameters	2011 Table 3 SCS (R/P/I, Coarse)
o,p-DDE + p,p-DDE	0.26
Dieldrin	0.05

NOTES:

Applicable Site Condition Standards (SCS):
Table 3 (RPI, coarse) of the "Soil, Groundwater
and Sediment Standards for Use Under Part
XV.1 of the Environmental Protection Act"
(April 15, 2011)

Concentrations reported in ug/g

Bold and highlighted values indicate an exceedance of the applicable SCS.

Sample depths reported in metres below ground surface (mbgs)

NORTH

PROJECT NORTH

LEGEND

- Property Line
- Adjoining Property Line
- Fence
- Existing Building
- Monitoring Well
- Borehole
- Soil Sample Meets Applicable SCS
- Soil Sample Exceeds Applicable SCS
- 0.0-5.2 Sample Depth (m bgs)
- Inferred Limits of Impacts as Defined by Schedule E, Part III, Section 7(4) of O. Reg. 153/04

0 5 10 15 20 25m

Scale(11x17): 1:500

MTE
Engineers, Scientists, Surveyors
Ph. (519) 743-6500

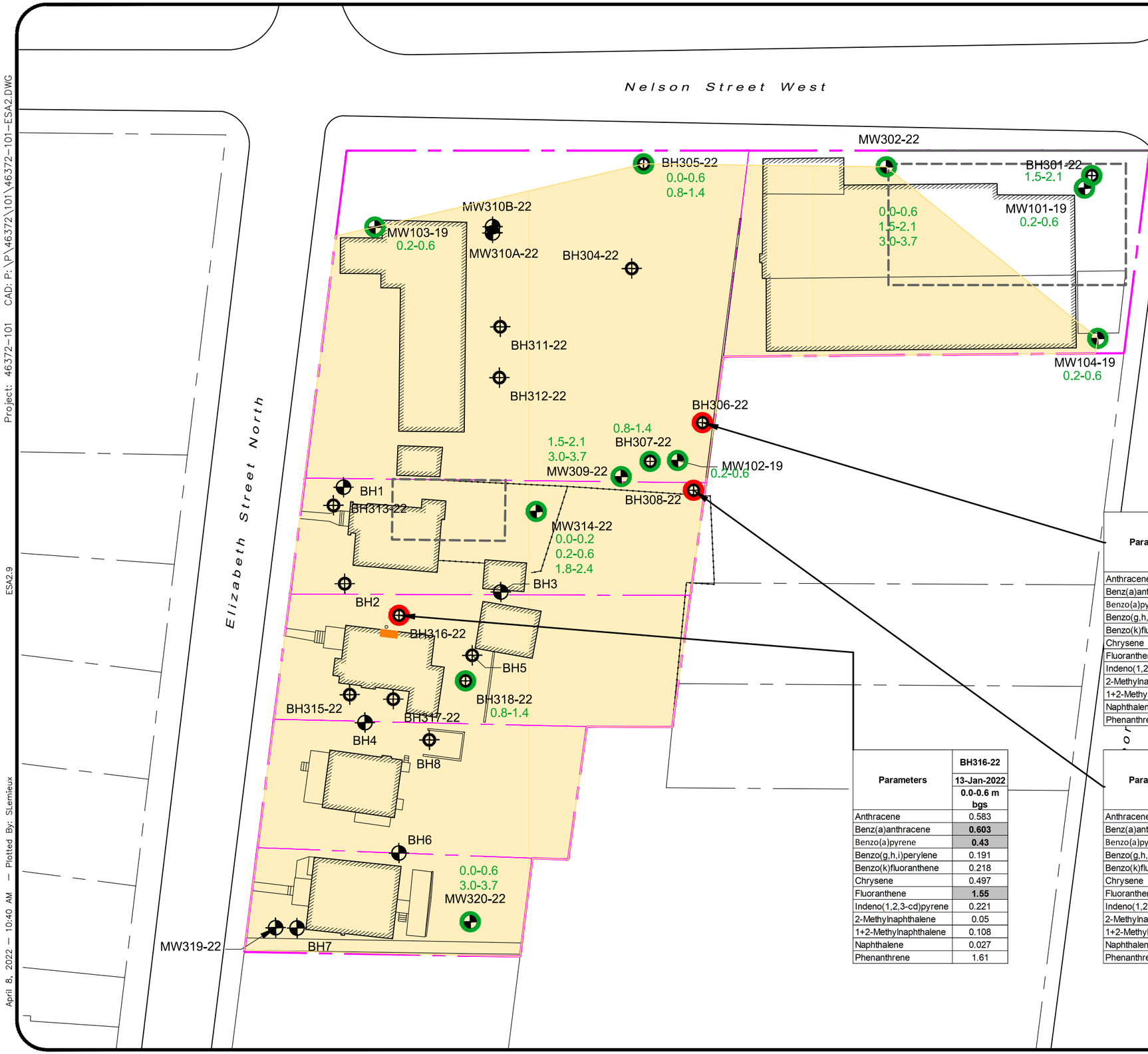
CLIENT
Greenwin Corp.

PROJECT
Phase Two ESA

SITE
18, 20, 22, 24, 28 Elizabeth Street North and 31-33 George Street North, Brampton, ON

TITLE
OCs in Soil - Plan View

Reviewed By	SDB		
Prepared By	ZXT	Project No.	46372-101
Drawn By	SGL	Figure No.	8
Date	April 2022		



Parameters	2011 Table 3 SCS (R/P/I, Coarse)
Anthracene	0.67
Benz(a)anthracene	0.5
Benzo(a)pyrene	0.3
Benzo(g,h,i)perylene	6.6
Benzo(k)fluoranthene	0.78
Chrysene	7
Fluoranthene	0.69
Indeno(1,2,3-cd)pyrene	0.38
2-Methylnaphthalene	0.99
1+2-Methylnaphthalene	0.99
Naphthalene	0.6
Phenanthrene	6.2

NOTES:

Applicable Site Condition Standards (SCS):
Table 3 (RPI, coarse) of the "Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act"
(April 15, 2011)

Concentrations reported in ug/g

Bold and highlighted values indicate an exceedance of the applicable SCS.

Sample depths reported in metres below ground surface (mbgs)

Parameters	BH306-22	BH306-22	MW306-22
	11-Jan-2022	11-Jan-2022	11-Jan-2022
	0.0-0.6 m bgs	0.0-0.6 m bgs	1.5-2.1 m bgs
Anthracene	**2.31**	<0.050	**6.11**
Benz(a)anthracene	**6.83**	0.064	**17.8**
Benzo(a)pyrene	**7.33**	0.074	**20.6**
Benzo(g,h,i)perylene	4.18	<0.050	**10.5**
Benzo(k)fluoranthene	**3.58**	<0.050	**7.94**
Chrysene	**7.11**	0.072	**18.4**
Fluoranthene	**19.4**	0.163	**49.9**
Indeno(1,2,3-cd)pyrene	**3.89**	<0.050	**10.3**
2-Methylnaphthalene	0.333	<0.030	**1.01**
1+2-Methylnaphthalene	0.578	<0.042	**1.7**
Naphthalene	**0.952**	<0.013	**3.03**
Phenanthrene	**14.1**	0.108	**37.9**

Parameters	BH316-22
	13-Jan-2022
	0.0-0.6 m bgs
Anthracene	0.583
Benz(a)anthracene	**0.603**
Benzo(a)pyrene	**0.43**
Benzo(g,h,i)perylene	0.191
Benzo(k)fluoranthene	0.218
Chrysene	0.497
Fluoranthene	**1.55**
Indeno(1,2,3-cd)pyrene	0.221
2-Methylnaphthalene	0.05
1+2-Methylnaphthalene	0.108
Naphthalene	0.027
Phenanthrene	1.61

Parameters	BH308-22	BH308-22	BH308-22
	11-Jan-2022	11-Jan-2022	11-Jan-2022
	0.0-0.6 m bgs	0.0-0.6 m bgs	1.5-2.1 m bgs
Anthracene	0.189	0.189	<0.050
Benz(a)anthracene	**0.589**	**0.589**	<0.050
Benzo(a)pyrene	**0.684**	**0.684**	<0.050
Benzo(g,h,i)perylene	0.436	0.436	<0.050
Benzo(k)fluoranthene	0.281	0.281	<0.050
Chrysene	0.622	0.622	<0.050
Fluoranthene	**1.65**	**1.65**	<0.050
Indeno(1,2,3-cd)pyrene	0.345	0.345	<0.050
2-Methylnaphthalene	0.031	0.031	<0.030
1+2-Methylnaphthalene	<0.042	<0.042	<0.042
Naphthalene	0.074	0.074	<0.013
Phenanthrene	1.14	1.14	<0.046

NORTH

PROJECT NORTH

LEGEND

- Property Line
- Adjoining Property Line
- Fence
- Existing Building
- Monitoring Well
- Borehole
- Soil Sample Meets Applicable SCS
- Soil Sample Exceeds Applicable SCS
- 0.0-5.2 Sample Depth (m bgs)
- Inferred Limits of Impacts as Defined by Schedule E, Part III, Section 7(4) of O. Reg. 153/04

0 5 10 15 20 25m

Scale(11x17): 1:500

MTE
Engineers, Scientists, Surveyors
Ph. (519) 743-6500

CLIENT: Greenwin Corp.

PROJECT: Phase Two ESA

SITE: 18, 20, 22, 24, 28 Elizabeth Street North and 31-33 George Street North, Brampton, ON

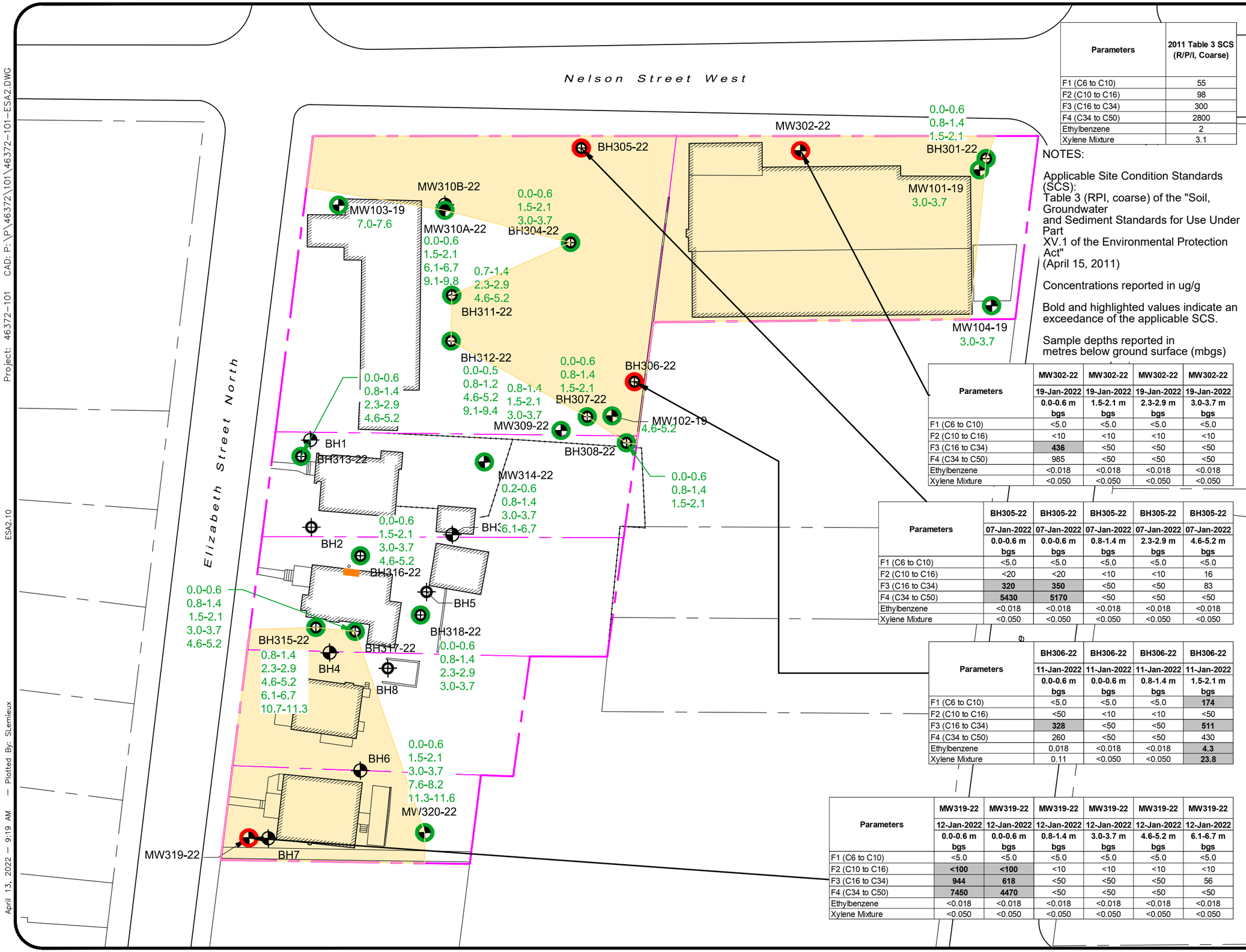
TITLE: PAHs in Soil - Plan View

Reviewed By	SDB		
Prepared By	ZXT	Project No.	46372-101
Drawn By	SGL	Figure No.	9
Date	April 2022		

Project: 46372-101 CAD: P:\P\46372\101\46372-101-ESA2.DWG

ESA2.9

April 8, 2022 – 10:40 AM – Plotted By: SLemieux



Parameters	2011 Table 3 SCS (R/P/I, Coarse)
F1 (C6 to C10)	55
F2 (C10 to C16)	98
F3 (C16 to C34)	300
F4 (C34 to C50)	2800
Ethylbenzene	2
Xylene Mixture	3.1

NOTES:

Applicable Site Condition Standards (SCS):
Table 3 (RPI, coarse) of the "Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act"
(April 15, 2011)

Concentrations reported in ug/g

Bold and highlighted values indicate an exceedance of the applicable SCS.

Sample depths reported in metres below ground surface (mbgs)

Parameters	MW302-22	MW302-22	MW302-22	MW302-22
	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022
	0.0-0.6 m bgs	1.5-2.1 m bgs	2.3-2.9 m bgs	3.0-3.7 m bgs
F1 (C6 to C10)	<5.0	<5.0	<5.0	<5.0
F2 (C10 to C16)	<10	<10	<10	<10
F3 (C16 to C34)	**436**	<50	<50	<50
F4 (C34 to C50)	985	<50	<50	<50
Ethylbenzene	<0.018	<0.018	<0.018	<0.018
Xylene Mixture	<0.050	<0.050	<0.050	<0.050

Parameters	BH305-22	BH305-22	BH305-22	BH305-22	BH305-22
	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022
	0.0-0.6 m bgs	0.0-0.6 m bgs	0.8-1.4 m bgs	2.3-2.9 m bgs	4.6-5.2 m bgs
F1 (C6 to C10)	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10 to C16)	<20	<20	<10	<10	16
F3 (C16 to C34)	**320**	**350**	<50	<50	83
F4 (C34 to C50)	**5430**	**5170**	<50	<50	<50
Ethylbenzene	<0.018	<0.018	<0.018	<0.018	<0.018
Xylene Mixture	<0.050	<0.050	<0.050	<0.050	<0.050

Parameters	BH306-22	BH306-22	BH306-22	BH306-22
	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022
	0.0-0.6 m bgs	0.0-0.6 m bgs	0.8-1.4 m bgs	1.5-2.1 m bgs
F1 (C6 to C10)	<5.0	<5.0	<5.0	**174**
F2 (C10 to C16)	<50	<10	<10	<50
F3 (C16 to C34)	**328**	<50	<50	**511**
F4 (C34 to C50)	260	<50	<50	430
Ethylbenzene	0.018	<0.018	<0.018	**4.3**
Xylene Mixture	0.11	<0.050	<0.050	**23.8**

Parameters	MW319-22	MW319-22	MW319-22	MW319-22	MW319-22	MW319-22
	12-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022
	0.0-0.6 m bgs	0.0-0.6 m bgs	0.8-1.4 m bgs	3.0-3.7 m bgs	4.6-5.2 m bgs	6.1-6.7 m bgs
F1 (C6 to C10)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10 to C16)	**<100**	**<100**	<10	<10	<10	<10
F3 (C16 to C34)	**944**	**618**	<50	<50	<50	56
F4 (C34 to C50)	**7450**	**4470**	<50	<50	<50	<50
Ethylbenzene	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
Xylene Mixture	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

NORTH

PROJECT NORTH

LEGEND

- Property Line
- Adjoining Property Line
- Fence
- Existing Building
- Monitoring Well
- Borehole
- Soil Sample Meets Applicable SCS
- Soil Sample Exceeds Applicable SCS
- 0.0-5.2 Sample Depth (m bgs)
- Inferred Limits of Impacts as Defined by Schedule E, Part III, Section 7(4) of O. Reg. 153/04

0 5 10 15 20 25m

Scale(11x17): 1:500

MTE
Engineers, Scientists, Surveyors
Ph. (519) 743-6500

CLIENT
Greenwin Corp.

PROJECT
Phase Two ESA

SITE
18, 20, 22, 24, 28 Elizabeth Street North and 31-33 George Street North, Brampton, ON

TITLE
PHCs and BTEX in Soil - Plan View

Reviewed By	SDB		
Prepared By	ZXT	Project No.	46372-101
Drawn By	SGL	Figure No.	10
Date	April 2022		

Project: 46372-101 CAD: P:\P\46372\101\46372-101-ESA2.DWG

ESA2.10

April 13, 2022 - 9:19 AM - Plotted By: SLemieux

Tables

Table 1: Monitoring Well Construction Details

Well ID	Completed By	Ground Surface Elevation (masl)	Top of Pipe Elevation (masl)	Well Depth (mbgs)	Screen Length (m)	Well Construction Details						Type of Casing
						Depth of Screen (m)		Sand Pack (m)		Bentonite (m)		
						Top	Bottom	Top	Bottom	Top	Bottom	
MW101-19	MTE	211.98	211.84	5.5	3.0	2.5	5.5	2.2	5.5	0.3	2.2	Flushmount
MW102-19	MTE	213.99	213.89	7.5	3.0	4.5	7.5	4.2	7.5	0.3	4.2	Flushmount
MW103-19	MTE	216.73	216.63	9.1	3.0	6.1	9.1	5.8	9.1	0.3	5.8	Flushmount
MW104-19	MTE	211.73	211.63	5.5	3.0	2.5	5.5	2.2	5.5	0.3	2.2	Flushmount
BH1	Harden	216.75	216.62	6.2	1.5	4.7	6.2	4.4	6.2	0.0	4.4	Flushmount
BH3	Harden	216.40	216.24	6.1	1.5	4.6	6.1	4.3	6.1	0.0	4.3	Flushmount
BH4	Harden	216.26	216.15	12.2	3.0	9.2	12.2	8.9	12.2	0.0	8.9	Flushmount
BH6	Harden	215.12	214.99	6.1	1.5	4.5	6.1	4.2	6.1	0.0	4.2	Flushmount
BH7	Harden	215.84	215.70	6.1	1.5	4.6	6.1	4.3	6.1	0.0	4.3	Flushmount
MW302-22	MTE	212.90	212.71	6.1	3.0	3.1	6.1	2.8	6.1	0.3	2.8	Flushmount
MW309-22	MTE	214.06	215.15	9.3	1.5	7.8	9.3	7.5	9.3	0.3	7.5	Monument
MW310A-22	MTE	216.14	215.98	9.8	1.0	8.8	9.8	8.8	9.8	0.3	8.8	Flushmount
MW310B-22	MTE	216.14	215.93	4.2	1.5	2.7	4.2	2.4	4.2	0.3	2.4	Flushmount
MW314-22	MTE	216.02	217.01	6.1	1.5	4.6	6.1	4.3	6.1	0.3	4.3	Monument
MW319-22	MTE	216.01	215.84	14.3	1.5	12.8	14.3	12.5	14.3	0.3	12.5	Flushmount
MW320-22	MTE	215.21	216.17	11.8	3.0	8.7	11.8	8.4	11.8	0.3	8.4	Monument

Notes:
Date of elevation survey: March 24, 2022
"m" - meters
"masl" - meters above sea level
"mbgs" - meters below ground surface

Table 2: Summary of Groundwater Elevations

Well ID	Ground Surface Elevation (masl)	Top of Pipe Elevation (masl)	16-Feb-22			25-Mar-22		
			Water Level (mbtop)	Water Level (mbgs)	Elevation (masl)	Water Level (mbtop)	Water Level (mbgs)	Elevation (masl)
MW101-19	211.98	211.84	2.74	2.88	209.10	2.57	2.71	209.27
MW102-19	213.99	213.89	-	-	-	-	-	-
MW103-19	216.73	216.63	7.54	7.64	209.09	6.48	6.58	210.15
MW104-19	211.73	211.63	2.45	2.55	209.18	2.38	2.48	209.25
BH1	216.75	216.62	2.20	2.33	214.42	2.21	2.34	214.41
BH3	216.40	216.24	-	-	-	1.39	1.55	214.85
BH4	216.26	216.15	-	-	-	7.01	7.12	209.14
BH6	215.12	214.99	-	-	-	2.41	2.54	212.58
BH7	215.84	215.70	5.13	5.26	210.58	2.90	3.04	212.80
MW302-22	212.90	212.71	4.80	4.99	207.91	4.17	4.36	208.54
MW309-22	214.06	215.15	6.90	5.80	208.25	6.13	5.04	209.02
MW310A-22	216.14	215.98	-	-	-	6.29	6.45	209.69
MW310B-22	216.14	215.93	-	-	-	1.77	1.98	214.16
MW314-22	216.02	217.01	-	-	-	3.57	2.58	213.44
MW319-22	216.01	215.84	-	-	-	6.70	6.87	209.14
MW320-22	215.21	216.17	8.90	7.94	207.27	8.35	7.39	207.82

Notes:
Date of elevation survey: March 24, 2022
"m" - meters
"masl" - meters above sea level
"mbgs" - meters below ground surface
"-" not measured or not applicable

Table 3: Summary of Soil Samples Submitted for Analysis

Sample Location	Laboratory Sample ID	Sample Depth (m bgs)	Metals	As, Sb, Se	B-HWS	CN-	Hg	EC	SAR	pH	OCs	PCBs	PAHs	PHCs	VOCs	BTEX
MW101-19	MW101-19 0.5-2	0.2-0.6	X	X				X	X				X			
MW101-19	MW1101-19 0.5-2	0.2-0.6	X	X									X			
MW101-19	MW101-19 10-12	3.0-3.7												X	X	X
MW102-19	MW102-19 0.5-2	0.2-0.6	X	X				X	X	X			X			
MW102-19	MW102-19 5-7	1.5-2.1	X	X				X	X	X						
MW102-19	MW102-19 15-17	4.6-5.2												X	X	X
MW103-19	MW103-19 0.5-2	0.2-0.6	X	X				X	X				X			
MW103-19	MW103-19 0.5-2 Lab-Dup	0.2-0.6											X			
MW103-19	MW103-19 23-25	7.0-7.6												X	X	X
MW104-19	MW104-19 0.5-2	0.2-0.6	X	X				X	X				X			
MW104-19	MW104-19 10-12	3.0-3.7												X	X	X
BH301-22	BH301-22 SS1 0-2	0.0-0.6						X	X	X		X		X		X
BH301-22	BH301-22 SS101 0-2	0.0-0.6						X	X					X		X
BH301-22	BH301-22 SS2 2.5-4.5	0.8-1.4	X	X				X	X					X		X
BH301-22	BH301-22 SS3 5-7	1.5-2.1	X	X				X	X				X	X		X
BH301-22	BH301-22 SS4 7.5-9.5	2.3-2.9						X	X							
BH301-22	BH301-22 SS5 10-12	3.0-3.7	X	X				X	X	X						
MW302-22	MW302-22 SS1 0-2	0.0-0.6	X	X				X	X			X	X	X		X
MW302-22	MW302-22 SS101 0-2	0.0-0.6										X				
MW302-22	MW302-22 SS2 2.5-4.5	0.8-1.4	X	X												
MW302-22	MW302-22 SS3 5-7	1.5-2.1	X	X	X			X	X				X	X		X
MW302-22	MW302-22 SS4 7.5-9.5	2.3-2.9	X	X				X	X					X		X
MW302-22	MW302-22 SS5 10-12	3.0-3.7	X	X				X	X				X	X		X
BH304-22	BH304 SS1 0-2'	0.0-0.6	X	X	X	X	X	X	X					X		X
BH304-22	BH304 SS101 0-2'	0.0-0.6	X	X	X	X	X	X	X					X		X
BH304-22	BH304 SS3 5-7'	1.5-2.1	X	X										X		X
BH304-22	BH304 SS5 10-12'	3.0-3.7	X	X				X	X					X		X
BH305-22	BH305 SS1 0-2'	0.0-0.6	X	X									X	X		X
BH305-22	BH305 SS101 0-2'	0.0-0.6	X	X									X	X		X
BH305-22	BH305 SS2 2.5-4.5'	0.8-1.4	X	X									X	X		X
BH305-22	BH305 SS4 7.5-9.5'	2.3-2.9	X	X										X		X
BH305-22	BH305 SS6 15-17'	4.6-5.2	X	X										X		X
MW306-22	MW 306-22 SS1 0-2	0.0-0.6	X	X						X			X	X		X
MW306-22	MW 306-22 SS101 0-2	0.0-0.6											X	X		X
MW306-22	MW 306-22 SS2 2.5-4.5	0.8-1.4								X				X		X
MW306-22	MW 306-22 SS3 5-7	1.5-2.1	X	X						X			X	X		X
MW307-22	MW 307-22 SS1 0-2	0.0-0.6	X	X										X		X
MW307-22	MW 307-22 SS101 0-2	0.0-0.6	X	X												
MW307-22	MW 307-22 SS2 2.5-4.5	0.8-1.4	X	X									X	X		X
MW307-22	MW 307-22 SS3 5-7	1.5-2.1	X	X										X		X
MW308-22	MW 308-22 SS1 0-2	0.0-0.6	X	X									X	X		X
MW308-22	MW 308-22 SS101 0-2	0.0-0.6	X	X				X	X							
MW308-22	MW 308-22 SS2 2.5-4.5	0.8-1.4	X	X										X		X
MW308-22	MW 308-22 SS3 5-7	1.5-2.1	X	X				X	X		X		X	X		X
MW309-22	MW309 SS1 0-2'	0.0-0.6	X	X												
MW309-22	MW309 SS101 0-2'	0.0-0.6	X	X												
MW309-22	MW309 SS2 2.5-4.5'	0.8-1.4	X	X				X	X					X		X
MW309-22	MW309 SS3 5-7'	1.5-2.1	X	X								X	X	X		X
MW309-22	MW309 SS5 10-12'	3.0-3.7	X	X									X	X		X
MW310-22	MW310 SS1 0-2'	0.0-0.6	X	X	X			X	X	X				X		X
MW310-22	MW310 SS3 5-7'	1.5-2.1	X	X						X				X		X
MW310-22	MW310 SS7 20-22'	6.1-6.7	X	X				X	X					X		X
MW310-22	MW310 SS9 30-32'	9.1-9.8	X	X	X									X		X
BH311-22	BH311 SS2 2.3-4.5'	0.7-1.4	X	X										X		X
BH311-22	BH311 SS4 7.5-9.5'	2.3-2.9	X	X										X		X
BH311-22	BH311 SS6 15-17'	4.6-5.2	X	X										X		X
BH312-22	BH312-22 SS1A	0.0-0.5	X	X	X	X	X	X	X		X			X		X
BH312-22	BH312-22 SS1B	0.5-0.6	X	X												
BH312-22	BH312-22 SS2	0.8-1.2	X	X										X		X
BH312-22	BH312-22 SS6	4.6-5.2	X	X						X				X		X
BH312-22	BH312-22 SS9	9.1-9.4	X	X	X									X		X
BH313-22	BH313-22 SS1 0-2'	0.0-0.6	X	X							X			X		X
BH313-22	BH313-22 SS101 0-2'	0.0-0.6	X	X							X					
BH313-22	BH313-22 SS2 2.5-4.5'	0.8-1.4	X	X										X		X
BH313-22	BH313-22 SS4 7.5-9.5'	2.3-2.9	X	X				X	X					X		X
BH313-22	BH313-22 SS6 15-17'	4.6-5.2	X	X										X		X
MW314-22	MW314-22 SS1A	0.0-0.2	X	X									X			

Sample Location	Laboratory Sample ID	Sample Depth (m bgs)	Metals	As, Sb, Se	B-HWS	CN-	Hg	EC	SAR	pH	OCs	PCBs	PAHs	PHCs	VOCs	BTEX
MW314-22	MW314-22 SS1B	0.2-0.6	X	X								X	X	X		X
MW314-22	MW314-22 SS2	0.8-1.4	X	X									X	X		X
MW314-22	MW314-22 SS5	3.0-3.7	X	X										X		X
MW314-22	MW314-22 SS7	6.1-6.7	X	X										X		X
BH315-22	BH315-22 SS1 0-2	0.0-0.6	X	X												
BH315-22	BH315-22 SS101 0-2	0.0-0.6	X	X												
BH315-22	BH315-22 SS2 2.5-4.5	0.8-1.4	X	X				X	X					X		X
BH315-22	BH315-22 SS4 7.5-9.5	2.3-2.9	X	X										X		X
BH315-22	BH315-22 SS6 15-17	4.6-5.2												X		X
BH315-22	BH315-22 SS7 20-22	6.1-6.7	X	X										X		X
BH315-22	BH315-22 SS10 35-37	10.7-11.3	X	X	X									X		X
BH316-22	BH316-22 SS1 0-2'	0.0-0.6	X	X						X			X	X		X
BH316-22	BH316-22 SS101 0-2'	0.0-0.6												X		X
BH316-22	BH316-22 SS3 5-7'	1.5-2.1	X	X						X				X		X
BH316-22	BH316-22 SS5 10-12'	3.0-3.7	X	X										X		X
BH316-22	BH316-22 SS6 15-17'	4.6-5.2	X	X										X		X
BH317-22	BH317-22 SS1 0-2	0.0-0.6	X	X				X	X					X		X
BH317-22	BH317-22 SS101 0-2	0.0-0.6												X		X
BH317-22	BH317-22 SS2 2.5-4.5	0.8-1.4	X	X										X		X
BH317-22	BH317-22 SS3 5-7	1.5-2.1	X	X				X	X					X		X
BH317-22	BH317-22 SS5 10-12	3.0-3.7												X		X
BH317-22	BH317-22 SS6 15-17	4.6-5.2	X	X										X		X
BH318-22	BH318-22 SS1 0-2	0.0-0.6	X	X				X	X	X	X			X		X
BH318-22	BH318-22 SS101 0-2	0.0-0.6												X		X
BH318-22	BH318-22 SS2 2.5-4.5	0.8-1.4	X	X									X	X		X
BH318-22	BH318-22 SS4 7.5-9.5.	2.3-2.9	X	X										X		X
BH318-22	BH318-22 SS5 10-12	3.0-3.7	X	X										X		X
MW319-22	MW 319-22 SS1 0-2	0.0-0.6	X	X						X				X		X
MW319-22	MW 319-22 SS101 0-2	0.0-0.6												X		X
MW319-22	MW 319-22 SS2 2.5-4.5	0.8-1.4	X	X										X		X
MW319-22	MW 319-22 SS3 5-7	1.5-2.1						X	X	X						
MW319-22	MW 319-22 SS6 15-17	4.6-5.2	X	X										X		X
MW319-22	MW 319-22 SS5 10-12	3.0-3.7												X		X
MW319-22	MW 319-22 SS7 20-22	6.1-6.7												X		X
MW320-22	MW320-22 SS1	0.0-0.6	X	X	X	X	X			X			X	X		X
MW320-22	MW320-22 SS3	1.5-2.1	X	X										X		X
MW320-22	MW320-22 SS5	3.0-3.7	X	X				X	X	X			X	X		X
MW320-22	MW320-22 SS8	7.6-8.2	X	X										X		X
MW320-22	MW320-22 AS11	11.3-11.6	X	X	X									X	X	X
		Total Soil Samples:	85	85	10	4	4	31	31	17	5	5	27	85	5	85

Notes:
X = sample submitted for analysis
m bgs = meters below ground surface
N/A = Not applicable

Table 4: Metals and Other Inorganic Parameters Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)		Sample Location	MW101-19	MW101-19	MW102-19	MW102-19	MW103-19	MW104-19	BH301-22	BH301-22	BH301-22	BH301-22	BH301-22	BH301-22	MW302-22
					Sample Name	MW101-19 0.5-2	MW1101-19 0.5-2	MW102-19 0.5-2	MW102-19 5-7	MW103-19 0.5-2	MW104-19 0.5-2	BH301-22 SS1 0-2	BH301-22 SS101 0-2	BH301-22 SS2 2.5-4.5	BH301-22 SS3 5-7	BH301-22 SS4 7.5-9.5	BH301-22 SS5 10-12	MW302-22 SS1 0-2
					Lab Job #	B9P0965	B9P0965	B9P0965	B9P0965	B9P0965	B9P2071	L2680005	L2680005	L2680005	L2680005	L2680005	L2680005	L2680005
					Laboratory ID	KSO988	KSO992	KSO994	KSO995	KSP000	KSV084	L2680005-27	L2680005-28	L2680005-29	L2680005-30	L2680005-31	L2680005-32	L2680005-36
					Sampling Date	09-Sep-2019	09-Sep-2019	09-Sep-2019	09-Sep-2019	09-Sep-2019	10-Sep-2019	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022
					Sample Depth (m bgs)	0.2-0.6	0.2-0.6	0.2-0.6	1.5-2.1	0.2-0.6	0.2-0.6	0.0-0.6	0.0-0.6	0.8-1.4	1.5-2.1	2.3-2.9	3.0-3.7	0.0-0.6
					Maximum Concentration		Field Duplicate						Field Duplicate					
Metals and Inorganics																		
Antimony	µg/g	0.2 - 1	7.5		5.8	<0.20	<0.20	0.92	<0.20	<0.20	0.28	-	-	<1.0	<1.0	-	-	<1.0
Arsenic	µg/g	1	18		12.8	6	5	5.2	4.4	5.1	3.9	-	-	4.9	5.2	-	-	5.3
Barium	µg/g	0.5 - 1	390		**428**	100	79	82	69	71	110	-	-	82.6	101	-	-	105
Beryllium	µg/g	0.2 - 0.5	4		0.97	0.76	0.57	0.6	0.58	0.73	0.61	-	-	0.56	0.62	-	-	<0.50
Boron	µg/g	5	120		18.4	9.6	6.5	7.6	6.6	5.4	5.6	-	-	6.7	5.1	-	-	7.6
Boron (Hot Water Soluble)	µg/g	0.1	1.5		0.98	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/g	0.1 - 0.5	1.2		0.95	0.12	<0.10	0.42	<0.10	0.12	0.18	-	-	<0.50	<0.50	-	-	<0.50
Chromium	µg/g	1	160		36	26	19	19	19	21	28	-	-	18.5	19.1	-	-	13.4
Cobalt	µg/g	0.1 - 1	22		15.9	13	10	9.3	11	12	8.8	-	-	8.5	8.9	-	-	4.9
Copper	µg/g	0.5 - 1	140		**172**	29	30	35	33	33	31	-	-	28.4	27.2	-	-	31.9
Cyanide	µg/g	0.05	0.051	<	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/g	1	120		**891**	16	15	**240**	12	13	54	-	-	37	9.2	-	-	22
Mercury	µg/g	0.005	0.27		0.258	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/g	0.5 - 1	6.9		2	<0.50	<0.50	0.55	<0.50	<0.50	<0.50	-	-	<1.0	<1.0	-	-	<1.0
Nickel	µg/g	0.5 - 1	100		36.7	26	21	20	23	28	17	-	-	18.4	19.2	-	-	12.4
Selenium	µg/g	0.5 - 1	2.4		1.6	<0.50	<0.50	0.54	<0.50	<0.50	<0.50	-	-	<1.0	<1.0	-	-	<1.0
Silver	µg/g	0.2	20		0.56	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20
Thallium	µg/g	0.05 - 0.5	1	<	0.5	0.16	0.12	0.16	0.13	0.12	0.1	-	-	<0.50	<0.50	-	-	<0.50
Uranium	µg/g	0.05 - 1	23		3.1	0.51	0.47	0.36	0.48	0.47	0.59	-	-	<1.0	<1.0	-	-	<1.0
Vanadium	µg/g	1 - 5	86		44.8	35	28	27	27	32	28	-	-	26.8	29.3	-	-	20.2
Zinc	µg/g	5	340		**654**	64	56	120	50	58	61	-	-	54.4	49.3	-	-	38.9
Electrical Conductivity	mS/cm	-	0.7		**3.78**	**0.75**	-	0.18	0.15	0.1	**0.76**	**3.61**	**3.78**	**2.11**	**0.839**	**0.836**	0.605	**2.04**
Sodium Adsorption Ratio (SAR)	unitless	-	5		**38.6**	**14**	-	0.57	0.69	0.31	**12**	1.65	1.59	**8.98**	**6.5**	3.05	2.77	1.78
pH	pH units	0.1	NR		9.66	-	-	7.5	7.7	-	-	-	-	8.78	-	-	7.95	-

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
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Table 4: Metals and Other Inorganic Parameters Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	MW302-22	MW302-22	MW302-22	MW302-22	BH304-22	BH304-22	BH304-22	BH304-22	BH305-22	BH305-22	BH305-22	BH305-22	BH305-22	MW306-22
				MW302-22 SS2 2.5-4.5	MW302-22 SS3 5-7	MW302-22 SS4 7.5-9.5	MW302-22 SS5 10-12	BH304 SS1 0-2'	BH304 SS101 0-2'	BH304 SS3 5-7'	BH304 SS5 10-12'	BH305 SS1 0-2'	BH305 SS101 0-2'	BH305 SS2 2.5-4.5'	BH305 SS4 7.5-9.5'	BH305 SS6 15-17'	MW 306-22 SS1 0-2
				L2680005	L2680005	L2680005	L2680005	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2678641
				L2680005-38	L2680005-39	L2680005-40	L2680005-41	L2677593-32	L2677593-33	L2677593-35	L2677593-37	L2677593-22	L2677593-23	L2677593-24	L2677593-26	L2677593-28	L2678641-14
				19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	07-Jan-2000	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	11-Jan-2022
				0.8-1.4	1.5-2.1	2.3-2.9	3.0-3.7	0.0-0.6	0.0-0.6	1.5-2.1	3.0-3.7	0.0-0.6	0.0-0.6	0.8-1.4	2.3-2.9	4.6-5.2	0.0-0.6
									Field Duplicate				Field Duplicate				
Metals and Inorganics																	
Antimony	µg/g	0.2 - 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	<1.0	1.2
Arsenic	µg/g	1	18	5.7	4.3	4.6	1.6	5.2	5.5	4.6	3.7	3.1	3.8	5.7	11.6	4.9	7
Barium	µg/g	0.5 - 1	390	79.9	60.5	81.9	36.4	49.4	47	54.3	34.6	50.5	49.4	63	65.3	109	94.5
Beryllium	µg/g	0.2 - 0.5	4	0.61	<0.50	0.66	<0.50	<0.50	<0.50	0.51	<0.50	<0.50	<0.50	0.58	0.51	0.79	0.69
Boron	µg/g	5	120	7.9	6.8	7.1	<5.0	10.3	9	8.3	6.9	6.5	6.7	8.9	9	13.3	12.6
Boron (Hot Water Soluble)	µg/g	0.1	1.5	-	0.39	-	-	0.34	0.32	-	-	-	-	-	-	-	-
Cadmium	µg/g	0.1 - 0.5	1.2	<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
Chromium	µg/g	1	160	18.7	13	20.4	12.2	15.8	16	17.4	15.1	36	26.4	19.9	18.9	29	22.4
Cobalt	µg/g	0.1 - 1	22	8.4	6	9.7	5.6	6.9	7.6	10.1	7.4	6.1	4.7	13	14	14.6	10.2
Copper	µg/g	0.5 - 1	140	32.4	26.4	28.1	23.6	25	28.2	31.7	23.5	18.4	17.9	36.8	38.9	26.4	40.1
Cyanide	µg/g	0.05	0.051	-	-	-	-	<0.050	<0.050	-	-	-	-	-	-	-	-
Lead	µg/g	1	120	31	36.4	11.1	5.7	26.1	21.4	7.2	5.4	16.9	15.8	8.6	8.5	10.1	75.9
Mercury	µg/g	0.005	0.27	-	-	-	-	0.0161	0.016	-	-	-	-	-	-	-	-
Molybdenum	µg/g	0.5 - 1	6.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	µg/g	0.5 - 1	100	19.2	12.7	20.9	13	15.1	16.9	19.9	15.4	9.5	9.2	24.4	23	31	22
Selenium	µg/g	0.5 - 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	<1.0	<1.0
Silver	µg/g	0.2	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
Thallium	µg/g	0.05 - 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
Uranium	µg/g	0.05 - 1	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.1	<1.0	<1.0
Vanadium	µg/g	1 - 5	86	27.5	22.4	28.7	16.1	21.6	22.5	26	22.8	31.4	26.9	28.8	27.4	37.7	31.4
Zinc	µg/g	5	340	67	44.5	57.5	36.5	98.9	80.4	46.1	39.4	63.3	64.8	51.5	47.6	62.3	95.8
Electrical Conductivity	mS/cm	-	0.7	-	0.449	0.598	0.401	**0.762**	**0.755**	-	0.197	-	-	0.674	0.183	-	-
Sodium Adsorption Ratio (SAR)	unitless	-	5	-	3.74	4.81	**6.78**	**6.08**	4.79	-	0.33	-	-	>34.	**12.6**	-	-
pH	pH units	0.1	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	7.84

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Table 4: Metals and Other Inorganic Parameters Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	MW306-22	MW306-22	MW307-22	MW307-22	MW307-22	MW307-22	MW308-22	MW308-22	MW308-22	MW308-22	MW309-22	MW309-22	MW309-22	MW309-22
				MW 306-22 SS2 2.5-4.5	MW 306-22 SS3 5-7	MW 307-22 SS1 0-2	MW 307-22 SS101 0-2	MW 307-22 SS2 2.5-4.5	MW 307-22 SS3 5-7	MW 308-22 SS1 0-2	MW 308-22 SS101 0-2	MW 308-22 SS2 2.5-4.5	MW 308-22 SS3 5-7	MW309 SS1 0-2'	MW309 SS101 0-2'	MW309 SS2 2.5-4.5'	MW309 SS3 5-7'
				L2678641	L2678641	L2678641	L2678641	L2678641	L2678641	L2678641	L2678641	L2678641	L2678641	L2677593	L2677593	L2677593	L2677593
				L2678641-16	L2678641-17	L2678641-10	L2678641-11	L2678641-12	L2678641-13	L2678641-6	L2678641-7	L2678641-8	L2678641-9	L2677593-42	L2677593-43	L2677593-44	L2677593-45
				11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022
				0.8-1.4	1.5-2.1	0.0-0.6	0.0-0.6	0.8-1.4	1.5-2.1	0.0-0.6	0.0-0.6	0.8-1.4	1.5-2.1	0.0-0.6	0.0-0.6	0.8-1.4	1.5-2.1
							Field Duplicate				Field Duplicate				Field Duplicate		
Metals and Inorganics																	
Antimony	µg/g	0.2 - 1	7.5	-	1.2	<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	1	18	-	7	4.9	5.3	6	6.6	5.4	6.1	6.4	5.8	6.2	6	11	5
Barium	µg/g	0.5 - 1	390	-	96.6	35.8	56.1	81.6	86.1	78.1	102	88.1	83.9	77.2	65.5	98.8	80.7
Beryllium	µg/g	0.2 - 0.5	4	-	0.67	<0.50	<0.50	0.68	0.71	<0.50	0.57	0.66	0.66	<0.50	0.52	0.68	0.59
Boron	µg/g	5	120	-	13.4	10	11.2	8.3	8	10.9	12.4	9.8	8.7	7.5	7.1	7.5	7.5
Boron (Hot Water Soluble)	µg/g	0.1	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/g	0.1 - 0.5	1.2	-	<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
Chromium	µg/g	1	160	-	22.9	8.9	12.7	21.1	22.7	21.4	22.1	21.5	22.1	24	20.7	20.8	22.5
Cobalt	µg/g	0.1 - 1	22	-	9.7	4.3	5.8	10.5	11.2	6.8	8.6	10.3	10.9	8.5	8.6	9.5	10.4
Copper	µg/g	0.5 - 1	140	-	40.5	15.8	21.8	34.3	36.2	29.3	36.9	38.9	35.8	32.7	32.7	35	31.5
Cyanide	µg/g	0.05	0.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/g	1	120	-	76.1	43.9	55.7	22.6	30.7	60.4	88.9	50.1	23	50.2	47.6	59.8	16
Mercury	µg/g	0.005	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/g	0.5 - 1	6.9	-	<1.0	<1.0	<1.0	<1.0	<1.0	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	µg/g	0.5 - 1	100	-	21.5	9.4	12.6	21.8	23.6	14.5	18.7	22.4	22.5	18.3	18.7	20.7	22.6
Selenium	µg/g	0.5 - 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	1.4	<1.0
Silver	µg/g	0.2	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
Thallium	µg/g	0.05 - 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
Uranium	µg/g	0.05 - 1	23	-	<1.0	<1.0	<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 - 5	86	-	31.2	12.7	19	31.4	33.4	24.5	28.5	32.1	33.8	30.7	27.8	31.5	31
Zinc	µg/g	5	340	-	102	134	153	67.9	74.1	75.9	85.8	78	66.4	77.4	80.6	89.7	56.5
Electrical Conductivity	mS/cm	-	0.7	-	-	-	-	-	-	0.3	-	-	**1.53**	-	-	0.181	-
Sodium Adsorption Ratio (SAR)	unitless	-	5	-	-	-	-	-	-	**7.45**	-	-	2.46	-	-	0.42	-
pH	pH units	0.1	NR	7.57	7.87	-	-	-	-	-	-	-	-	-	-	-	-

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Table 4: Metals and Other Inorganic Parameters Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	MW309-22	MW310-22	MW310-22	MW310-22	MW310-22	BH311-22	BH311-22	BH311-22	BH312-22	BH312-22	BH312-22	BH312-22	BH312-22	BH313-22
				MW309 SS5 10-12'	MW310 SS1 0-2'	MW310 SS3 5-7'	MW310 SS7 20-22'	MW310 SS9 30-32'	BH311 SS2 2.3-4.5'	BH311 SS4 7.5-9.5'	BH311 SS6 15-17'	BH312-22 SS1A	BH312-22 SS1B	BH312-22 SS2	BH312-22 SS6	BH312-22 SS9	BH313-22 SS1 0-2'
				L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677105	L2677105	L2677105	L2677105	L2677105	L2679135
				L2677593-47	L2677593-12	L2677593-14	L2677593-18	L2677593-20	L2677593-2	L2677593-4	L2677593-6	L2677105-22	L2677105-23	L2677105-25	L2677105-29	L2677105-32	L2679135-1
				07-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	12-Jan-2022
				3.0-3.7	0.0-0.6	1.5-2.1	6.1-6.7	9.1-9.8	0.7-1.4	2.3-2.9	4.6-5.2	0.0-0.5	0.5-0.6	0.8-1.2	4.6-5.2	9.1-9.4	0.0-0.6
Metals and Inorganics																	
Antimony	µg/g	0.2 - 1	7.5	<1.0	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	1.4	<1.0	<1.0	<1.0	3.3
Arsenic	µg/g	1	18	6.6	6.9	5.4	6.3	3.3	6.3	5.6	3.8	9.3	9.3	6.3	4.9	5.3	12.8
Barium	µg/g	0.5 - 1	390	110	134	75.5	121	15.2	101	75.6	32.3	238	126	93	47.1	59	**428**
Beryllium	µg/g	0.2 - 0.5	4	0.72	0.63	0.51	0.97	<0.50	0.7	0.55	<0.50	0.92	<0.50	0.61	<0.50	<0.50	0.53
Boron	µg/g	5	120	7	9.7	7.9	15.1	<5.0	<5.0	9.4	7.4	9.9	5.2	7.2	10.8	11.5	13.8
Boron (Hot Water Soluble)	µg/g	0.1	1.5	-	0.31	-	-	0.91	-	-	-	0.87	-	-	-	0.78	-
Cadmium	µg/g	0.1 - 0.5	1.2	<0.50	0.74	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.57	<0.50	<0.50	<0.50	<0.50	0.84
Chromium	µg/g	1	160	22	15.5	18.1	33.8	8.8	23.4	18.8	14.5	31.2	11.6	20.4	18.8	17.7	31.3
Cobalt	µg/g	0.1 - 1	22	11.1	6.8	11.3	15.5	4	9.9	12.8	7	11	7.1	11.7	9	8.6	8.6
Copper	µg/g	0.5 - 1	140	35.9	34.2	33.8	32.2	17.3	35.3	34.8	19.5	43.7	40.8	39.1	25.8	35.3	49.9
Cyanide	µg/g	0.05	0.051	-	<0.050	-	-	-	-	-	-	<0.050	-	-	-	-	-
Lead	µg/g	1	120	9.2	**319**	12.8	11.8	3.4	28.7	8.3	5.2	**603**	**329**	7.9	6.7	8.6	**891**
Mercury	µg/g	0.005	0.27	-	0.206	-	-	-	-	-	-	0.258	-	-	-	-	-
Molybdenum	µg/g	0.5 - 1	6.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2	<1.0	<1.0	<1.0	<1.0
Nickel	µg/g	0.5 - 1	100	26.3	15.8	22.8	36.7	8	24.2	24.1	14.6	24.9	18.1	25.7	19.5	18.4	18.3
Selenium	µg/g	0.5 - 1	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0
Silver	µg/g	0.2	20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.22	<0.20	<0.20	<0.20	0.27
Thallium	µg/g	0.05 - 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
Uranium	µg/g	0.05 - 1	23	<1.0	<1.0	<1.0	<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 - 5	86	32.4	26	25.9	44.8	16.5	33.6	27.3	22.5	39.5	20	28.5	28.3	27	30.3
Zinc	µg/g	5	340	57.5	**533**	59.2	68.1	23.5	60.2	50.9	35	229	148	52.5	46.4	43.9	**654**
Electrical Conductivity	mS/cm	-	0.7	-	**2.67**	-	0.297	-	-	-	-	0.472	-	-	-	-	-
Sodium Adsorption Ratio (SAR)	unitless	-	5	-	**38.6**	-	0.85	-	-	-	-	0.2	-	-	-	-	-
pH	pH units	0.1	NR	-	7.92	7.87	-	-	-	-	-	-	-	-	8.15	-	-

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	BH313-22	BH313-22	BH313-22	BH313-22	MW314-22	MW314-22	MW314-22	MW314-22	MW314-22	BH315-22	BH315-22	BH315-22	BH315-22	BH315-22
				BH313-22 SS101 0-2'	BH313-22 SS2 2.5-4.5'	BH313-22 SS4 7.5-9.5'	BH313-22 SS6 15-17'	MW314-22 SS1A	MW314-22 SS1B	MW314-22 SS2	MW314-22 SS5	MW314-22 SS7	BH315-22 SS1 0-2	BH315-22 SS101 0-2	BH315-22 SS2 2.5-4.5	BH315-22 SS4 7.5-9.5	BH315-22 SS7 20-22
				L2679135	L2679135	L2679135	L2679135	L2677105	L2677105	L2677105	L2677105	L2677105	L2680005	L2680005	L2680005	L2680005	L2680005
				L2679135-2	L2679135-3	L2679135-5	L2679135-7	L2677105-14	L2677105-24	L2677105-15	L2677105-18	L2677105-20	L2680005-1	L2680005-2	L2680005-3	L2680005-5	L2680005-8
				12-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022
				0.0-0.6	0.8-1.4	2.3-2.9	4.6-5.2	0.0-0.2	0.2-0.6	0.8-1.4	3.0-3.7	6.1-6.7	0.0-0.6	0.0-0.6	0.8-1.4	2.3-2.9	6.1-6.7
				Field Duplicate										Field Duplicate			
Metals and Inorganics																	
Antimony	µg/g	0.2 - 1	7.5	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	1.5	<1.0	<1.0	<1.0
Arsenic	µg/g	1	18	10.8	6	5.2	4.4	6.4	3.5	6.1	5.7	6.1	9.7	10.4	5.7	6.2	4.2
Barium	µg/g	0.5 - 1	390	384	65	68.5	38.1	117	41.1	71.3	77.3	126	161	150	53.7	72.6	48.4
Beryllium	µg/g	0.2 - 0.5	4	0.54	0.7	0.55	<0.50	0.53	<0.50	0.65	0.58	0.96	<0.50	0.6	0.52	0.65	<0.50
Boron	µg/g	5	120	11.2	8.5	9.4	10.1	9.6	5.2	5.6	9.4	16.3	11.4	11.9	7.1	11.3	9
Boron (Hot Water Soluble)	µg/g	0.1	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/g	0.1 - 0.5	1.2	0.95	<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
Chromium	µg/g	1	160	29.7	22.1	18.4	17.6	19.4	10	22.1	19.8	32.8	17.3	18.6	17.5	20	16
Cobalt	µg/g	0.1 - 1	22	8.7	12.5	10.6	9	7.6	2.8	11.1	12.9	15.9	8.7	9.5	10.8	11.9	7.7
Copper	µg/g	0.5 - 1	140	47.7	33.5	34	26.6	29.3	9.1	35.6	36.7	30.2	59.8	65.7	35.2	37.6	22.7
Cyanide	µg/g	0.05	0.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/g	1	120	**822**	12.7	9.3	6.6	**255**	77.1	16.7	9.6	12.8	**151**	**137**	11.6	8.4	6.5
Mercury	µg/g	0.005	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/g	0.5 - 1	6.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	1.3	<1.0	<1.0	<1.0
Nickel	µg/g	0.5 - 1	100	18.2	25.6	21.8	19.1	17.6	6.1	24.4	25	35.3	20.6	22	20.9	23.4	16.3
Selenium	µg/g	0.5 - 1	2.4	1.1	<1.0	<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	20	0.27	<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
Thallium	µg/g	0.05 - 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
Uranium	µg/g	0.05 - 1	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	µg/g	1 - 5	86	29.8	31.6	27.1	26	28	17.3	32.4	30.2	42.9	25	27.9	27.1	30.2	25.1
Zinc	µg/g	5	340	**599**	59.3	49.4	43.1	111	24.5	58.4	53	72.1	129	118	51.2	54.7	41.8
Electrical Conductivity	mS/cm	-	0.7	-	-	0.198	-	-	-	0.226	-	-	-	-	0.185	-	-
Sodium Adsorption Ratio (SAR)	unitless	-	5	-	-	0.61	-	-	-	0.25	-	-	-	-	1.02	-	-
pH	pH units	0.1	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
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Bold - Exceeds 2011 Table 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
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Table 4: Metals and Other Inorganic Parameters Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	BH315-22	BH316-22	BH316-22	BH316-22	BH316-22	BH317-22	BH317-22	BH317-22	BH317-22	BH318-22	BH318-22	BH318-22	BH318-22	MW319-22
				BH315-22 SS10	BH316-22 SS1 0-	BH316-22 SS3 5-	BH316-22 SS5 10-	BH316-22 SS6 15-	BH317-22 SS1 0-	BH317-22 SS2 2.5-	BH317-22 SS3 5-	BH317-22 SS6 15-	BH318-22 SS1 0-	BH318-22 SS2 2.5-	BH318-22 SS4 7.5-	BH318-22 SS5 10-	MW 319-22 SS1 0-
				35-37	2'	7'	12'	17'	2	4.5	7	17	2	4.5	9.5.	12	2
				L2680005	L2679135	L2679135	L2679135	L2679135	L2680005	L2680005	L2680005	L2680005	L2680005	L2680005	L2680005	L2680005	L2678641
				L2680005-11	L2679135-12	L2679135-15	L2679135-17	L2679135-18	L2680005-13	L2680005-15	L2680005-16	L2680005-19	L2680005-20	L2680005-22	L2680005-24	L2680005-25	L2678641-18
				18-Jan-2022	13-Jan-2022	13-Jan-2022	13-Jan-2022	13-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	12-Jan-2022
				10.7-11.3	0.0-0.6	1.5-2.1	3.0-3.7	4.6-5.2	0.0-0.6	0.8-1.4	1.5-2.1	4.6-5.2	0.0-0.6	0.8-1.4	2.3-2.9	3.0-3.7	0.0-0.6
Metals and Inorganics																	
Antimony	µg/g	0.2 - 1	7.5	<1.0	5.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	1.3
Arsenic	µg/g	1	18	5.6	11.4	5.7	5.4	4.6	10.3	5.4	5.5	4.4	9	5.3	5	5.5	6.4
Barium	µg/g	0.5 - 1	390	39.6	156	65.5	61.5	44.1	72.7	57.6	69.7	38.6	83.5	56.3	66.2	61.5	86
Beryllium	µg/g	0.2 - 0.5	4	<0.50	<0.50	0.55	0.53	<0.50	0.6	0.54	0.54	<0.50	0.59	0.56	0.56	0.53	0.57
Boron	µg/g	5	120	8.3	8.6	8.9	8.8	9	9.6	8.2	9.4	10.3	8.9	9.5	10.6	9.5	11.7
Boron (Hot Water Soluble)	µg/g	0.1	1.5	0.89	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/g	0.1 - 0.5	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	<0.50	<0.50	<0.50	<0.50
Chromium	µg/g	1	160	15.5	23.1	18.1	18.4	16.9	18.7	17.3	17.2	16.2	19.8	17.7	17.6	16.9	19
Cobalt	µg/g	0.1 - 1	22	8.6	9.8	10.7	11	8.9	10.1	9.9	11.3	8	9.7	10	9.9	9.8	7.1
Copper	µg/g	0.5 - 1	140	32.4	**172**	33.3	41.4	27.4	36.5	32	34.9	25.2	46.3	33.3	33.4	31.1	34.6
Cyanide	µg/g	0.05	0.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/g	1	120	6.6	**526**	9.1	8.1	11.1	28	10.2	9.3	6.3	99.3	8.5	10.6	7.4	51
Mercury	µg/g	0.005	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/g	0.5 - 1	6.9	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	µg/g	0.5 - 1	100	17.3	19.3	21.8	22.2	18.7	21.3	20.2	21.9	17.5	22.1	21.2	20.2	19.4	20.2
Selenium	µg/g	0.5 - 1	2.4	<1.0	1.6	<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	20	<0.20	0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	µg/g	0.05 - 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
Uranium	µg/g	0.05 - 1	23	<1.0	<1.0	<1.0	<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 - 5	86	24.2	28.3	27.2	27	24.6	29	26.3	26	24.3	27.5	26.6	26.5	25.6	29.9
Zinc	µg/g	5	340	46.8	136	50.2	50.6	42.9	82.2	49.4	50	40.7	95.5	49.8	46.9	45.7	95
Electrical Conductivity	mS/cm	-	0.7	-	-	-	-	-	0.267	-	0.189	-	0.269	-	-	-	-
Sodium Adsorption Ratio (SAR)	unitless	-	5	-	-	-	-	-	**5.55**	-	0.31	-	0.13	-	-	-	-
pH	pH units	0.1	NR	-	7.67	7.86	-	-	-	-	-	-	8.63	-	-	-	9.66

Notes:
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Table 4: Metals and Other Inorganic Parameters Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	MW319-22	MW319-22	MW319-22	MW320-22	MW320-22	MW320-22	MW320-22	MW320-22
				MW 319-22 SS2 2.5-4.5	MW 319-22 SS3 5-7	MW 319-22 SS6 15-17	MW320-22 SS1	MW320-22 SS3	MW320-22 SS5	MW320-22 SS8	MW320-22 AS11
				L2678641	L2678641	L2678641	L2677105	L2677105	L2677105	L2677105	L2677105
				L2678641-20	L2678641-21	L2678641-24	L2677105-2	L2677105-4	L2677105-6	L2677105-9	L2677105-12
				12-Jan-2022	12-Jan-2022	12-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022
				0.8-1.4	1.5-2.1	4.6-5.2	0.0-0.6	1.5-2.1	3.0-3.7	7.6-8.2	11.3-11.6
Metals and Inorganics											
Antimony	µg/g	0.2 - 1	7.5	<1.0	-	<1.0	<1.0	1.5	<1.0	<1.0	<1.0
Arsenic	µg/g	1	18	5.7	-	4.5	6.2	7.3	5.8	5.2	5.1
Barium	µg/g	0.5 - 1	390	84.1	-	47.5	86	94.1	59.6	91.6	44.4
Beryllium	µg/g	0.2 - 0.5	4	0.66	-	0.5	0.52	0.58	0.6	0.66	0.59
Boron	µg/g	5	120	13.6	-	11.7	9	10.5	8.7	13.1	18.4
Boron (Hot Water Soluble)	µg/g	0.1	1.5	-	-	-	0.98	-	-	-	1.71Q
Cadmium	µg/g	0.1 - 0.5	1.2	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium	µg/g	1	160	23.2	-	17.6	20.3	21	19.5	24.8	20.3
Cobalt	µg/g	0.1 - 1	22	10.9	-	8.2	7.8	10.8	12.6	11.4	9.4
Copper	µg/g	0.5 - 1	140	38.2	-	22.3	46	92.3	39.1	28.9	25.7
Cyanide	µg/g	0.05	0.051	-	-	-	<0.050	-	-	-	-
Lead	µg/g	1	120	11.7	-	15.6	73.2	72.6	9.8	9.9	7.6
Mercury	µg/g	0.005	0.27	-	-	-	0.048	-	-	-	-
Molybdenum	µg/g	0.5 - 1	6.9	<1.0	-	<1.0	1.3	<1.0	<1.0	<1.0	<1.0
Nickel	µg/g	0.5 - 1	100	22.2	-	17.5	20.6	24.6	25.4	26	21.5
Selenium	µg/g	0.5 - 1	2.4	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	µg/g	0.2	20	<0.20	-	<0.20	<0.20	0.56	<0.20	<0.20	<0.20
Thallium	µg/g	0.05 - 0.5	1	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	µg/g	0.05 - 1	23	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	µg/g	1 - 5	86	32.4	-	27	26	28.9	28.4	33.9	30.9
Zinc	µg/g	5	340	53.4	-	38.8	145	115	53.8	54.5	43
Electrical Conductivity	mS/cm	-	0.7	0.227	-	-	-	-	0.203	-	-
Sodium Adsorption Ratio (SAR)	unitless	-	5	1	-	-	-	-	0.96	-	-
pH	pH units	0.1	NR	-	7.71	-	7.29	-	7.68	-	-

Notes:
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Table 5: Organochlorine (OC) Pesticides Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)		Sample Location	MW308-22	BH312-22	BH313-22	BH313-22	BH318-22
					Sample Name	MW 308-22 SS3 5-7	BH312-22 SS1A	BH313-22 SS1 0-2'	BH313-22 SS101 0-2'	BH318-22 SS1 0-2
					Lab Job #	L2678641	L2677105	L2679135	L2679135	L2680005
					Laboratory ID	L2678641-9	L2677105-22	L2679135-1	L2679135-2	L2680005-20
					Sampling Date	11-Jan-2022	04-Jan-2022	12-Jan-2022	12-Jan-2022	18-Jan-2022
					Sample Depth (m bgs)	1.5-2.1	0.0-0.5	0.0-0.6	0.0-0.6	0.0-0.6
					Maximum Concentration				Field Duplicate	
Organochlorine Pesticides (OCs)										
alpha-Chlordane	µg/g	0.0003 - 0.02	NR	<	0.003	<0.00030	<0.00090	<0.0030	<0.0030	<0.0015
gamma-Chlordane	µg/g	0.0003 - 0.02	NR	<	0.003	<0.00030	<0.00090	<0.0030	<0.0030	<0.0015
Chlordane (Total)	µg/g	0.00042 - 0.028	0.05	<	0.0042	<0.00042	<0.0013	<0.0042	<0.0042	<0.0021
o,p-DDD	µg/g	0.0003 - 0.02	NR		0.0097	<0.00030	<0.00090	0.0042	0.0097	<0.0015
p,p-DDD	µg/g	0.0003 - 0.02	NR		0.0914	<0.00030	<0.00090	0.0287	0.0914	<0.0015
o,p-DDD + p,p-DDD	µg/g	0.00042 - 0.028	3.3		0.101	<0.00042	<0.0013	0.0328	0.101	<0.0021
o,p-DDE	µg/g	0.0003 - 0.02	NR		0.0082	<0.00030	<0.00090	0.0039	0.0082	<0.0015
p,p-DDE	µg/g	0.0003 - 0.02	NR		0.505	<0.00030	0.00173	0.277	0.505	<0.0015
o,p-DDE + p,p-DDE	µg/g	0.00042 - 0.028	0.26		**0.514**	<0.00042	0.0017	**0.281**	**0.514**	<0.0021
o,p-DDT	µg/g	0.0003 - 0.02	NR		0.157	<0.00030	<0.00090	0.0807	0.157	<0.0015
p,p-DDT	µg/g	0.0003 - 0.02	NR		0.571	<0.00030	0.00156	0.354	0.571	<0.0015
o,p-DDT + p,p-DDT	µg/g	0.00042 - 0.028	1.4		0.729	<0.00042	0.0016	0.435	0.729	<0.0021
Dieldrin	µg/g	0.0002 - 0.02	0.05		**0.268**	<0.00020	0.0027	**0.134**	**0.268**	<0.0010
Total Endosulfan	µg/g	0.00042 - 0.028	0.04	<	0.0042	<0.00042	<0.0013	<0.0042	<0.0042	<0.0021
Endrin	µg/g	0.0005 - 0.02	0.04	<	0.005	<0.00050	<0.0010	<0.0050	<0.0050	<0.0025
Heptachlor	µg/g	0.0002 - 0.02	0.15	<	0.002	<0.00020	<0.0010	<0.0020	<0.0020	<0.0010
Heptachlor epoxide	µg/g	0.0002 - 0.02	0.05	<	0.002	<0.00020	<0.0010	<0.0020	<0.0020	<0.0010
Hexachlorobenzene	µg/g	0.0005 - 0.01	0.52	<	0.005	<0.00050	<0.0010	<0.0050	<0.0050	<0.0025
Hexachlorobutadiene	µg/g	0.0005 - 0.01	0.012	<	0.005	<0.00050	<0.0010	<0.0050	<0.0050	<0.0025
gamma-Hexachlorocyclohexane (Lindane)	µg/g	0.0002 - 0.01	0.056	<	0.002	<0.00020	<0.0010	<0.0020	<0.0020	<0.0010
Hexachloroethane	µg/g	0.0005 - 0.01	0.089	<	0.005	<0.00050	<0.0010	<0.0050	<0.0050	<0.0025
Methoxychlor	µg/g	0.0005 - 0.02	0.13	<	0.005	<0.00050	<0.0010	<0.0050	<0.0050	<0.0025

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 6: Polychlorinated Biphenyls (PCBs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)		Sample Location	BH301-22	MW302-22	MW302-22	MW309-22	MW314-22
					Sample Name	BH301-22 SS1 0-2	MW302-22 SS1 0-2	MW302-22 SS101 0-2	MW309 SS3 5-7'	MW314-22 SS1B
					Lab Job #	L2680005	L2680005	L2680005	L2677593	L2677105
					Laboratory ID	L2680005-27	L2680005-36	L2680005-37	L2677593-45	L2677105-24
					Sampling Date	19-Jan-2022	19-Jan-2022	19-Jan-2022	07-Jan-2022	04-Jan-2022
					Sample Depth (m bgs)	0.0-0.6	0.0-0.6	0.0-0.6	1.5-2.1	0.2-0.6
					Maximum Concentration			Field Duplicate		
Polychlorinated Biphenyls (PCBs)										
Aroclor 1242	µg/g	0.01	NR	<	0.01	<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1248	µg/g	0.01	NR	<	0.01	<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1254	µg/g	0.01	NR	<	0.01	<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1260	µg/g	0.01	NR	<	0.01	<0.010	<0.010	<0.010	<0.010	<0.010
Total Polychlorinated Biphenyls	µg/g	0.02	0.35	<	0.02	<0.020	<0.020	<0.020	<0.020	<0.020

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 7: Polycyclic Aromatic Hydrocarbons (PAHs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	Sample Location	MW101-19	MW101-19	MW102-19	MW103-19	MW103-19	MW104-19	BH301-22	MW302-22	MW302-22	MW302-22	BH305-22	BH305-22	BH305-22
				Sample Name	MW101-19 0.5-2	MW1101-19 0.5-2	MW102-19 0.5-2	MW103-19 0.5-2	MW103-19 0.5-2 Lab-Dup	MW104-19 0.5-2	BH301-22 SS3 5-7	MW302-22 SS1 0-2	MW302-22 SS3 5-7	MW302-22 SS5 10-12	BH305 SS1 0-2'	BH305 SS101 0-2'	BH305 SS2 2.5-4.5'
				Lab Job #	B9P0965	B9P0965	B9P0965	B9P0965	B9P0965	B9P2071	L2680005	L2680005	L2680005	L2680005	L2677593	L2677593	L2677593
				Laboratory ID	KSO988	KSO992	KSO994	KSP000	KSP000	KSV084	L2680005-30	L2680005-36	L2680005-39	L2680005-41	L2677593-22	L2677593-23	L2677593-24
				Sampling Date	09-Sep-2019	09-Sep-2019	09-Sep-2019	09-Sep-2019	09-Sep-2019	10-Sep-2019	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022
				Sample Depth (m bgs)	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	1.5-2.1	0.0-0.6	1.5-2.1	3.0-3.7	0.0-0.6	0.0-0.6	0.8-1.4
				Maximum Concentration		Field Duplicate			Laboratory Duplicate							Field Duplicate	
Polycyclic Aromatic Hydrocarbons (PAHs)																	
Acenaphthene	µg/g	0.005 - 0.4	7.9	3.7	<0.0050	<0.0050	0.03	<0.0050	<0.0050	0.0053	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	µg/g	0.005 - 0.125	0.15	0.13	<0.0050	<0.0050	0.01	<0.0050	<0.0050	0.0076	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	µg/g	0.005 - 0.125	0.67	**6.11**	<0.0050	<0.0050	0.064	<0.0050	<0.0050	0.024	<0.050	<0.050	<0.050	<0.050	0.051	<0.050	<0.050
Benz(a)anthracene	µg/g	0.005 - 0.125	0.5	**17.8**	0.012	0.0095	0.19	<0.0050	<0.0050	0.097	<0.050	0.059	<0.050	<0.050	0.179	0.137	<0.050
Benzo(a)pyrene	µg/g	0.005 - 0.125	0.3	**20.6**	0.015	0.013	0.18	<0.0050	<0.0050	0.096	<0.050	0.077	<0.050	<0.050	0.193	0.132	<0.050
Benzo(b)fluoranthene	µg/g	0.005 - 0.125	0.78	0.24	0.025	0.018	0.24	<0.0050	<0.0050	0.13	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/g	0.005 - 0.15	6.6	**10.5**	0.015	0.012	0.13	<0.0050	<0.0050	0.078	<0.050	0.073	<0.050	<0.050	0.295	0.275	<0.050
Benzo(k)fluoranthene	µg/g	0.005 - 0.125	0.78	**7.94**	0.0094	0.0052	0.072	<0.0050	<0.0050	0.049	<0.050	<0.050	<0.050	<0.050	0.1	0.079	<0.050
Chrysene	µg/g	0.005 - 0.125	7	**18.4**	0.023	0.015	0.21	<0.0050	<0.0050	0.076	<0.050	0.099	<0.050	<0.050	0.161	0.098	<0.050
Dibenz(a,h)anthracene	µg/g	0.005 - 0.125	0.1	0.022	<0.0050	<0.0050	0.022	<0.0050	<0.0050	0.019	-	-	-	-	-	-	-
Fluoranthene	µg/g	0.005 - 0.5	0.69	**49.9**	0.029	0.019	0.41	<0.0050	<0.0050	0.19	<0.050	0.121	<0.050	<0.050	0.335	0.194	<0.050
Fluorene	µg/g	0.005 - 0.125	62	4.05	<0.0050	<0.0050	0.037	<0.0050	<0.0050	0.0069	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	µg/g	0.005 - 0.125	0.38	**10.3**	0.012	0.0097	0.13	<0.0050	<0.0050	0.073	<0.050	<0.050	<0.050	<0.050	0.154	0.104	<0.050
1-Methylnaphthalene	µg/g	0.005 - 0.075	0.99	0.689	<0.0050	<0.0050	0.013	<0.0050	<0.0050	<0.0050	<0.030	<0.030	<0.030	<0.030	<0.060	<0.060	<0.030
2-Methylnaphthalene	µg/g	0.005 - 0.075	0.99	**1.01**	<0.0050	<0.0050	0.011	<0.0050	<0.0050	<0.0050	<0.030	<0.030	<0.030	<0.030	<0.060	<0.060	<0.030
1+2-Methylnaphthalene	µg/g	0.0071 - 0.106	0.99	**1.7**	<0.0071	<0.0071	0.024	<0.0071	-	<0.0071	<0.042	<0.042	<0.042	<0.042	<0.085	<0.085	<0.042
Naphthalene	µg/g	0.005 - 0.32	0.6	**3.03**	<0.0050	<0.0050	0.013	<0.0050	<0.0050	<0.0050	<0.013	<0.033	<0.013	<0.013	<0.065	<0.065	<0.013
Phenanthrene	µg/g	0.005 - 0.46	6.2	**37.9**	0.016	0.011	0.31	<0.0050	<0.0050	0.084	<0.046	0.076	<0.046	<0.046	0.169	0.09	<0.046
Pyrene	µg/g	0.005 - 0.5	78	40.7	0.031	0.024	0.4	<0.0050	<0.0050	0.16	<0.050	0.1	<0.050	<0.050	0.287	0.156	<0.050

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

Table 7: Polycyclic Aromatic Hydrocarbons (PAHs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	MW306-22	MW306-22	MW306-22	MW307-22	MW308-22	MW308-22	MW309-22	MW309-22	MW314-22	MW314-22	MW314-22	BH316-22	BH318-22	MW320-22
				MW 306-22 SS1 0-2	MW 306-22 SS101 0-2	MW 306-22 SS3 5-7	MW 307-22 SS2 2.5-4.5	MW 308-22 SS1 0-2	MW 308-22 SS3 5-7	MW309 SS3 5-7'	MW309 SS5 10-12'	MW314-22 SS1A	MW314-22 SS1B	MW314-22 SS2	BH316-22 SS1 0-2'	BH318-22 SS2 2.5-4.5	MW320-22 SS1
				L2678641	L2678641	L2678641	L2678641	L2678641	L2678641	L2677593	L2677593	L2677105	L2677105	L2677105	L2679135	L2680005	L2677105
				L2678641-14	L2678641-15	L2678641-17	L2678641-12	L2678641-6	L2678641-9	L2677593-45	L2677593-47	L2677105-14	L2677105-24	L2677105-15	L2679135-12	L2680005-22	L2677105-2
				11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	07-Jan-2022	07-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	13-Jan-2022	18-Jan-2022	04-Jan-2022
				0.0-0.6	0.0-0.6	1.5-2.1	0.8-1.4	0.0-0.6	1.5-2.1	1.5-2.1	3.0-3.7	0.0-0.2	0.2-0.6	0.8-1.4	0.0-0.6	0.8-1.4	0.0-0.6
					Field Duplicate												
Polycyclic Aromatic Hydrocarbons (PAHs)																	
Acenaphthene	µg/g	0.005 - 0.4	7.9	1.3	<0.050	3.7	<0.050	0.103	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.136	<0.050	<0.050
Acenaphthylene	µg/g	0.005 - 0.125	0.15	0.051	<0.050	0.13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	µg/g	0.005 - 0.125	0.67	**2.31**	<0.050	**6.11**	<0.050	0.189	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.583	<0.050	<0.050
Benz(a)anthracene	µg/g	0.005 - 0.125	0.5	**6.83**	0.064	**17.8**	<0.050	**0.589**	<0.050	<0.050	<0.050	0.158	<0.050	<0.050	**0.603**	<0.050	0.074
Benzo(a)pyrene	µg/g	0.005 - 0.125	0.3	**7.33**	0.074	**20.6**	<0.050	**0.684**	<0.050	<0.050	<0.050	0.2	0.051	<0.050	**0.43**	<0.050	0.095
Benzo(b)fluoranthene	µg/g	0.005 - 0.125	0.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/g	0.005 - 0.15	6.6	4.18	<0.050	**10.5**	<0.050	0.436	<0.050	<0.050	<0.050	0.156	<0.050	<0.050	0.191	<0.050	0.122
Benzo(k)fluoranthene	µg/g	0.005 - 0.125	0.78	**3.58**	<0.050	**7.94**	<0.050	0.281	<0.050	<0.050	<0.050	0.087	<0.050	<0.050	0.218	<0.050	<0.050
Chrysene	µg/g	0.005 - 0.125	7	**7.11**	0.072	**18.4**	<0.050	0.622	<0.050	<0.050	<0.050	0.183	0.051	<0.050	0.497	<0.050	0.087
Dibenz(a,h)anthracene	µg/g	0.005 - 0.125	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/g	0.005 - 0.5	0.69	**19.4**	0.163	**49.9**	<0.050	**1.65**	<0.050	<0.050	<0.050	0.355	0.093	<0.050	**1.55**	<0.050	0.156
Fluorene	µg/g	0.005 - 0.125	62	1.4	<0.050	4.05	<0.050	0.101	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.278	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	µg/g	0.005 - 0.125	0.38	**3.89**	<0.050	**10.3**	<0.050	0.345	<0.050	<0.050	<0.050	0.151	<0.050	<0.050	0.221	<0.050	0.088
1-Methylnaphthalene	µg/g	0.005 - 0.075	0.99	0.245	<0.030	0.689	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.058	<0.030	<0.030
2-Methylnaphthalene	µg/g	0.005 - 0.075	0.99	0.333	<0.030	**1.01**	<0.030	0.031	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.05	<0.030	<0.030
1+2-Methylnaphthalene	µg/g	0.0071 - 0.106	0.99	0.578	<0.042	**1.7**	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	0.108	<0.042	<0.042
Naphthalene	µg/g	0.005 - 0.32	0.6	**0.952**	<0.013	**3.03**	<0.013	0.074	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	0.027	<0.013	0.015
Phenanthrene	µg/g	0.005 - 0.46	6.2	**14.1**	0.108	**37.9**	<0.046	1.14	<0.046	<0.046	<0.046	0.176	<0.046	<0.046	1.61	<0.046	0.109
Pyrene	µg/g	0.005 - 0.5	78	15.9	0.135	40.7	<0.050	1.34	<0.050	<0.050	<0.050	0.315	0.085	<0.050	1.12	<0.050	0.132

Notes:
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Bold - Exceeds 2011 Table 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 7: Polycyclic Aromatic Hydrocarbons (PAHs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	MW320-22
				MW320-22 SS5
				L2677105
				L2677105-6
				04-Jan-2022
				3.0-3.7
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	µg/g	0.005 - 0.4	7.9	<0.050
Acenaphthylene	µg/g	0.005 - 0.125	0.15	<0.050
Anthracene	µg/g	0.005 - 0.125	0.67	<0.050
Benz(a)anthracene	µg/g	0.005 - 0.125	0.5	<0.050
Benzo(a)pyrene	µg/g	0.005 - 0.125	0.3	<0.050
Benzo(b)fluoranthene	µg/g	0.005 - 0.125	0.78	-
Benzo(g,h,i)perylene	µg/g	0.005 - 0.15	6.6	<0.050
Benzo(k)fluoranthene	µg/g	0.005 - 0.125	0.78	<0.050
Chrysene	µg/g	0.005 - 0.125	7	<0.050
Dibenz(a,h)anthracene	µg/g	0.005 - 0.125	0.1	-
Fluoranthene	µg/g	0.005 - 0.5	0.69	<0.050
Fluorene	µg/g	0.005 - 0.125	62	<0.050
Indeno(1,2,3-cd)pyrene	µg/g	0.005 - 0.125	0.38	<0.050
1-Methylnaphthalene	µg/g	0.005 - 0.075	0.99	<0.030
2-Methylnaphthalene	µg/g	0.005 - 0.075	0.99	<0.030
1+2-Methylnaphthalene	µg/g	0.0071 - 0.106	0.99	<0.042
Naphthalene	µg/g	0.005 - 0.32	0.6	<0.013
Phenanthrene	µg/g	0.005 - 0.46	6.2	<0.046
Pyrene	µg/g	0.005 - 0.5	78	<0.050

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 8: Petroleum Hydrocarbons (PHCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)		Sample Location	MW101-19	MW102-19	MW103-19	MW104-19	BH301-22	BH301-22	BH301-22	BH301-22	MW302-22	MW302-22	MW302-22	MW302-22	BH304-22
					Sample Name	MW101-19 10-12	MW102-19 15-17	MW103-19 23-25	MW104-19 10-12	BH301-22 SS1 0-2	BH301-22 SS101 0-2	BH301-22 SS2 2.5-4.5	BH301-22 SS3 5-7	MW302-22 SS1 0-2	MW302-22 SS3 5-7	MW302-22 SS4 7.5-9.5	MW302-22 SS5 10-12	BH304 SS1 0-2'
					Lab Job #	B9P0965	B9P0965	B9P0965	B9P2071	L2680005	L2680005	L2680005	L2680005	L2680005	L2680005	L2680005	L2680005	L2677593
					Laboratory ID	KSO990	KSO997	KSP005	KSV086	L2680005-27	L2680005-28	L2680005-29	L2680005-30	L2680005-36	L2680005-39	L2680005-40	L2680005-41	L2677593-32
					Sampling Date	09-Sep-2019	09-Sep-2019	09-Sep-2019	10-Sep-2019	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	07-Jan-2000
					Sample Depth (m bgs)	3.0-3.7	4.6-5.2	7.0-7.6	3.0-3.7	0.0-0.6	0.0-0.6	0.8-1.4	1.5-2.1	0.0-0.6	1.5-2.1	2.3-2.9	3.0-3.7	0.0-0.6
					Maximum Concentration						Field Duplicate							
Petroleum Hydrocarbons (PHCs)																		
F1 (C6 to C10)	µg/g	5 - 10	55		**174**	<10	<10	<10	<10	<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 - 10	55		**146**	<10	<10	<10	<10	<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 - 50	98	<	**100**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	50 - 250	300		**944**	<50	<50	<50	<50	136	216	<50	<50	**436**	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	50 - 250	2800		**2810**	<50	<50	<50	<50	394	597	<50	<50	985	<50	<50	<50	<50
Reached Baseline at C50	unitless		NR		NA	YES	YES	YES	YES	NO	NO	YES	YES	NO	YES	YES	YES	YES
F4G (Gravimetric)	µg/g	250	2800		**7450**	-	-	-	-	1240	1870	-	-	**2820**	-	-	-	-

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
Bold	- Detection limit exceeds 2011 Table 3 SCS

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

Table 8: Petroleum Hydrocarbons (PHCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	BH304-22	BH304-22	BH304-22	BH305-22	BH305-22	BH305-22	BH305-22	BH305-22	MW306-22	MW306-22	MW306-22	MW306-22	MW307-22	MW307-22
				BH304 SS101 0-2'	BH304 SS3 5-7'	BH304 SS5 10-12'	BH305 SS1 0-2'	BH305 SS101 0-2'	BH305 SS2 2.5-4.5'	BH305 SS4 7.5-9.5'	BH305 SS6 15-17'	MW 306-22 SS1 0-2	MW 306-22 SS101 0-2	MW 306-22 SS2 2.5-4.5	MW 306-22 SS3 5-7	MW 307-22 SS1 0-2	MW 307-22 SS2 2.5-4.5
				L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2678641	L2678641	L2678641	L2678641	L2678641	L2678641
				L2677593-33	L2677593-35	L2677593-37	L2677593-22	L2677593-23	L2677593-24	L2677593-26	L2677593-28	L2678641-14	L2678641-15	L2678641-16	L2678641-17	L2678641-10	L2678641-12
				07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022
				0.0-0.6	1.5-2.1	3.0-3.7	0.0-0.6	0.0-0.6	0.8-1.4	2.3-2.9	4.6-5.2	0.0-0.6	0.0-0.6	0.8-1.4	1.5-2.1	0.0-0.6	0.8-1.4
				Field Duplicate				Field Duplicate					Field Duplicate				
Petroleum Hydrocarbons (PHCs)																	
F1 (C6 to C10)	µg/g	5 - 10	55	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**174**	<5.0	<5.0
F1 (C6 to C10) minus BTEX	µg/g	5 - 10	55	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**146**	<5.0	<5.0
F2 (C10 to C16)	µg/g	10 - 50	98	<10	<10	<10	<20	<20	<10	<10	16	<50	<10	<10	<50	<10	<10
F3 (C16 to C34)	µg/g	50 - 250	300	101	<50	<50	**320**	**350**	<50	<50	83	**328**	<50	<50	**511**	70	<50
F4 (C34 to C50)	µg/g	50 - 250	2800	241	<50	<50	1120	1220	<50	<50	<50	<250	<50	<50	<250	<50	<50
Reached Baseline at C50	unitless		NR	NO	YES	YES	NO	NO	YES	YES	YES	NO	YES	YES	NO	YES	YES
F4G (Gravimetric)	µg/g	250	2800	1460	-	-	**5430**	**5170**	-	-	-	260	-	-	430	-	-

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
Bold	- Detection limit exceeds 2011 Table 3 SCS

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

Table 8: Petroleum Hydrocarbons (PHCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	MW307-22	MW308-22	MW308-22	MW308-22	MW309-22	MW309-22	MW309-22	MW310-22	MW310-22	MW310-22	MW310-22	BH311-22	BH311-22	BH311-22
				MW 307-22 SS3 5-7	MW 308-22 SS1 0-2	MW 308-22 SS2 2.5-4.5	MW 308-22 SS3 5-7	MW309 SS2 2.5-4.5'	MW309 SS3 5-7'	MW309 SS5 10-12'	MW310 SS1 0-2'	MW310 SS3 5-7'	MW310 SS7 20-22'	MW310 SS9 30-32'	BH311 SS2 2.3-4.5'	BH311 SS4 7.5-9.5'	BH311 SS6 15-17'
				L2678641	L2678641	L2678641	L2678641	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593
				L2678641-13	L2678641-6	L2678641-8	L2678641-9	L2677593-44	L2677593-45	L2677593-47	L2677593-12	L2677593-14	L2677593-18	L2677593-20	L2677593-2	L2677593-4	L2677593-6
				11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022
				1.5-2.1	0.0-0.6	0.8-1.4	1.5-2.1	0.8-1.4	1.5-2.1	3.0-3.7	0.0-0.6	1.5-2.1	6.1-6.7	9.1-9.8	0.7-1.4	2.3-2.9	4.6-5.2
Petroleum Hydrocarbons (PHCs)																	
F1 (C6 to C10)	µg/g	5 - 10	55	<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 - 10	55	<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
F2 (C10 to C16)	µg/g	10 - 50	98	<10	<10	<10	<10	<10	<10	<10	<10	<10	16	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	50 - 250	300	<50	51	<50	<50	101	<50	<50	<50	<50	77	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	50 - 250	2800	<50	76	<50	<50	239	<50	<50	<50	<50	<50	<50	<50	<50	<50
Reached Baseline at C50	unitless		NR	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
F4G (Gravimetric)	µg/g	250	2800	-	-	-	-	1400	-	-	-	-	-	-	-	-	-

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
Bold	- Detection limit exceeds 2011 Table 3 SCS

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

Table 8: Petroleum Hydrocarbons (PHCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	BH312-22	BH312-22	BH312-22	BH312-22	BH313-22	BH313-22	BH313-22	BH313-22	MW314-22	MW314-22	MW314-22	MW314-22	BH315-22	BH315-22
				BH312-22 SS1A	BH312-22 SS2	BH312-22 SS6	BH312-22 SS9	BH313-22 SS1 0-2'	BH313-22 SS2 2.5-4.5'	BH313-22 SS4 7.5-9.5'	BH313-22 SS6 15-17'	MW314-22 SS1B	MW314-22 SS2	MW314-22 SS5	MW314-22 SS7	BH315-22 SS2 2.5-4.5	BH315-22 SS4 7.5-9.5
				L2677105	L2677105	L2677105	L2677105	L2679135	L2679135	L2679135	L2679135	L2677105	L2677105	L2677105	L2677105	L2680005	L2680005
				L2677105-22	L2677105-25	L2677105-29	L2677105-32	L2679135-1	L2679135-3	L2679135-5	L2679135-7	L2677105-24	L2677105-15	L2677105-18	L2677105-20	L2680005-3	L2680005-5
				04-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	18-Jan-2022	18-Jan-2022
				0.0-0.5	0.8-1.2	4.6-5.2	9.1-9.4	0.0-0.6	0.8-1.4	2.3-2.9	4.6-5.2	0.2-0.6	0.8-1.4	3.0-3.7	6.1-6.7	0.8-1.4	2.3-2.9
Petroleum Hydrocarbons (PHCs)																	
F1 (C6 to C10)	µg/g	5 - 10	55	<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 - 10	55	<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
F2 (C10 to C16)	µg/g	10 - 50	98	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	12	<10	<10
F3 (C16 to C34)	µg/g	50 - 250	300	119	<50	<50	<50	69	<50	<50	<50	<50	<50	<50	74	<50	<50
F4 (C34 to C50)	µg/g	50 - 250	2800	182	<50	<50	<50	94	<50	<50	<50	<50	<50	<50	<50	<50	<50
Reached Baseline at C50	unitless		NR	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
F4G (Gravimetric)	µg/g	250	2800	880	-	-	-	-	-		-	-	-	-	-	-	-

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
Bold	- Detection limit exceeds 2011 Table 3 SCS

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

Table 8: Petroleum Hydrocarbons (PHCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	BH315-22	BH315-22	BH315-22	BH316-22	BH316-22	BH316-22	BH316-22	BH316-22	BH317-22	BH317-22	BH317-22	BH317-22	BH317-22	BH317-22
				BH315-22 SS6 15-17	BH315-22 SS7 20-22	BH315-22 SS10 35-37	BH316-22 SS1 0-2'	BH316-22 SS101 0-2'	BH316-22 SS3 5-7'	BH316-22 SS5 10-12'	BH316-22 SS6 15-17'	BH317-22 SS1 0-2	BH317-22 SS101 0-2	BH317-22 SS2 2.5-4.5	BH317-22 SS3 5-7	BH317-22 SS5 10-12	BH317-22 SS6 15-17
				L2680005	L2680005	L2680005	L2679135	L2679135	L2679135	L2679135	L2679135	L2680005	L2680005	L2680005	L2680005	L2680005	L2680005
				L2680005-7	L2680005-8	L2680005-11	L2679135-12	L2679135-13	L2679135-15	L2679135-17	L2679135-18	L2680005-13	L2680005-14	L2680005-15	L2680005-16	L2680005-18	L2680005-19
				18-Jan-2022	18-Jan-2022	18-Jan-2022	13-Jan-2022	13-Jan-2022	13-Jan-2022	13-Jan-2022	13-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022
				4.6-5.2	6.1-6.7	10.7-11.3	0.0-0.6	0.0-0.6	1.5-2.1	3.0-3.7	4.6-5.2	0.0-0.6	0.0-0.6	0.8-1.4	1.5-2.1	3.0-3.7	4.6-5.2
								Field Duplicate					Field Duplicate				
Petroleum Hydrocarbons (PHCs)																	
F1 (C6 to C10)	µg/g	5 - 10	55	<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 - 10	55	<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
F2 (C10 to C16)	µg/g	10 - 50	98	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	50 - 250	300	<50	<50	<50	<50	67	<50	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	50 - 250	2800	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Reached Baseline at C50	unitless		NR	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
F4G (Gravimetric)	µg/g	250	2800	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
Bold	- Detection limit exceeds 2011 Table 3 SCS

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

Table 8: Petroleum Hydrocarbons (PHCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	BH318-22	BH318-22	BH318-22	BH318-22	BH318-22	MW319-22	MW319-22	MW319-22	MW319-22	MW319-22	MW319-22	MW320-22	MW320-22	MW320-22
				BH318-22 SS1 0-2	BH318-22 SS101 0-2	BH318-22 SS2 2.5-4.5	BH318-22 SS4 7.5-9.5.	BH318-22 SS5 10-12	MW 319-22 SS1 0-2	MW 319-22 SS101 0-2	MW 319-22 SS2 2.5-4.5	MW 319-22 SS6 15-17	MW 319-22 SS5 10-12	MW 319-22 SS7 20-22	MW320-22 SS1	MW320-22 SS3	MW320-22 SS5
				L2680005	L2680005	L2680005	L2680005	L2680005	L2678641	L2678641	L2678641	L2678641	L2678641	L2678641	L2677105	L2677105	L2677105
				L2680005-20	L2680005-21	L2680005-22	L2680005-24	L2680005-25	L2678641-18	L2678641-19	L2678641-20	L2678641-24	L2678641-23	L2678641-25	L2677105-2	L2677105-4	L2677105-6
				18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022
				0.0-0.6	0.0-0.6	0.8-1.4	2.3-2.9	3.0-3.7	0.0-0.6	0.0-0.6	0.8-1.4	4.6-5.2	3.0-3.7	6.1-6.7	0.0-0.6	1.5-2.1	3.0-3.7
					Field Duplicate					Field Duplicate							
Petroleum Hydrocarbons (PHCs)																	
F1 (C6 to C10)	µg/g	5 - 10	55	5	<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 - 10	55	<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
F2 (C10 to C16)	µg/g	10 - 50	98	<10	<10	<10	<10	<10	**<100**	**<100**	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	50 - 250	300	274	141	<50	<50	<50	**944**	**618**	<50	<50	<50	56	130	<50	<50
F4 (C34 to C50)	µg/g	50 - 250	2800	138	74	<50	<50	<50	**2810**	1870	<50	<50	<50	<50	263	<50	<50
Reached Baseline at C50	unitless		NR	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES	NO	YES	YES
F4G (Gravimetric)	µg/g	250	2800	620	-	-	-	-	**7450**	**4470**	-	-	-	-	1150	-	-

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
Bold	- Detection limit exceeds 2011 Table 3 SCS

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

Table 8: Petroleum Hydrocarbons (PHCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	MW320-22	MW320-22
				MW320-22 SS8	MW320-22 AS11
				L2677105	L2677105
				L2677105-9	L2677105-12
				04-Jan-2022	04-Jan-2022
				7.6-8.2	11.3-11.6
Petroleum Hydrocarbons (PHCs)					
F1 (C6 to C10)	µg/g	5 - 10	55	<5.0	<5.0
F1 (C6 to C10) minus BTEX	µg/g	5 - 10	55	<5.0	<5.0
F2 (C10 to C16)	µg/g	10 - 50	98	11	<10
F3 (C16 to C34)	µg/g	50 - 250	300	69	<50
F4 (C34 to C50)	µg/g	50 - 250	2800	<50	<50
Reached Baseline at C50	unitless		NR	YES	YES
F4G (Gravimetric)	µg/g	250	2800	-	-

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
Bold	- Detection limit exceeds 2011 Table 3 SCS

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

Table 9: Volatile Organic Compounds (VOCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)		Sample Location	MW101-19	MW102-19	MW103-19	MW104-19	BH301-22	BH301-22	BH301-22	BH301-22	MW302-22	MW302-22	MW302-22	MW302-22	BH304-22
					Sample Name	MW101-19 10-12	MW102-19 15-17	MW103-19 23-25	MW104-19 10-12	BH301-22 SS1 0-2	BH301-22 SS101 0-2	BH301-22 SS2 2.5-4.5	BH301-22 SS3 5-7	MW302-22 SS1 0-2	MW302-22 SS3 5-7	MW302-22 SS4 7.5-9.5	MW302-22 SS5 10-12	BH304 SS1 0-2'
					Lab Job #	B9P0965	B9P0965	B9P0965	B9P2071	L2680005	L2680005	L2680005	L2680005	L2680005	L2680005	L2680005	L2680005	L2677593
					Laboratory ID	KSO990	KSO997	KSP005	KSV086	L2680005-27	L2680005-28	L2680005-29	L2680005-30	L2680005-36	L2680005-39	L2680005-40	L2680005-41	L2677593-32
					Sampling Date	09-Sep-2019	09-Sep-2019	09-Sep-2019	10-Sep-2019	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	19-Jan-2022	07-Jan-2000
					Sample Depth (m bgs)	3.0-3.7	4.6-5.2	7.0-7.6	3.0-3.7	0.0-0.6	0.0-0.6	0.8-1.4	1.5-2.1	0.0-0.6	1.5-2.1	2.3-2.9	3.0-3.7	0.0-0.6
					Maximum Concentration						Field Duplicate							
Volatile Organic Compounds (VOCs)																		
Acetone	µg/g	0.5	16	<	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-
Benzene	µg/g	0.0068 - 0.02	0.21	<	0.02	<0.020	<0.020	<0.020	<0.020	<0.0068	0.0078	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	µg/g	0.05	13	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Bromoform	µg/g	0.05	0.27	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Bromomethane	µg/g	0.05	0.05	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	µg/g	0.05	0.05	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Chlorobenzene	µg/g	0.05	2.4	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Chloroform	µg/g	0.05	0.05	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/g	0.05	9.4	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/g	0.05	3.4	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/g	0.05	4.8	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/g	0.05	0.083	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	µg/g	0.05	16	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	µg/g	0.05	3.5	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	µg/g	0.05	0.05	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	µg/g	0.05	0.05	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/g	0.018 - 0.02	2		**4.3**	<0.020	<0.020	<0.020	<0.020	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
cis-1,2-Dichloroethylene	µg/g	0.05	3.4	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	µg/g	0.05	0.084	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/g	0.05	0.05	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/g	0.03	NR	<	0.03	<0.030	<0.030	<0.030	<0.030	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/g	0.03 - 0.04	NR	<	0.04	<0.040	<0.040	<0.040	<0.040	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene	µg/g	0.042 - 0.05	0.05	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Ethylene Dibromide	µg/g	0.05	0.05	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Hexane (n)	µg/g	0.05	2.8	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	µg/g	0.5	16	<	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	µg/g	0.5	1.7	<	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	µg/g	0.05	0.75	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Methylene Chloride	µg/g	0.05	0.1	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Styrene	µg/g	0.05	0.7	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.058	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.05	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	µg/g	0.05	0.28	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Toluene	µg/g	0.02 - 0.08	2.3		0.135	<0.020	<0.020	<0.020	<0.020	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	µg/g	0.05	0.38	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/g	0.05	0.05	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Trichloroethylene	µg/g	0.01 - 0.05	0.061	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/g	0.05	4	<	0.05	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/g	0.02	0.02	<	0.02	<0.020	<0.020	<0.020	<0.020	-	-	-	-	-	-	-	-	-
o-Xylene	µg/g	0.02	NR		6.22	<0.020	<0.020	<0.020	<0.020	<0.020	0.028	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
m+p-Xylene	µg/g	0.02 - 0.03	NR		17.6	<0.020	<0.020	<0.020	<0.020	<0.030	0.049	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Xylene Mixture	µg/g	0.02 - 0.05	3.1		**23.8**	<0.020	<0.020	<0.020	<0.020	<0.050	0.077	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 9: Volatile Organic Compounds (VOCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	BH304-22	BH304-22	BH304-22	BH305-22	BH305-22	BH305-22	BH305-22	BH305-22	MW306-22	MW306-22	MW306-22	MW306-22	MW307-22	MW307-22
				BH304 SS101 0-2'	BH304 SS3 5-7'	BH304 SS5 10-12'	BH305 SS1 0-2'	BH305 SS101 0-2'	BH305 SS2 2.5-4.5'	BH305 SS4 7.5-9.5'	BH305 SS6 15-17'	MW 306-22 SS1 0-2	MW 306-22 SS101 0-2	MW 306-22 SS2 2.5-4.5	MW 306-22 SS3 5-7	MW 307-22 SS1 0-2	MW 307-22 SS2 2.5-4.5
				L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2678641	L2678641	L2678641	L2678641	L2678641	L2678641
				L2677593-33	L2677593-35	L2677593-37	L2677593-22	L2677593-23	L2677593-24	L2677593-26	L2677593-28	L2678641-14	L2678641-15	L2678641-16	L2678641-17	L2678641-10	L2678641-12
				07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022
				0.0-0.6	1.5-2.1	3.0-3.7	0.0-0.6	0.0-0.6	0.8-1.4	2.3-2.9	4.6-5.2	0.0-0.6	0.0-0.6	0.8-1.4	1.5-2.1	0.0-0.6	0.8-1.4
													Field Duplicate				
Volatile Organic Compounds (VOCs)																	
Acetone	µg/g	0.5	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	µg/g	0.0068 - 0.02	0.21	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	0.0082	<0.0068	<0.0068
Bromodichloromethane	µg/g	0.05	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	µg/g	0.05	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	µg/g	0.05	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/g	0.05	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/g	0.05	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/g	0.05	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/g	0.05	0.083	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	µg/g	0.05	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	µg/g	0.05	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/g	0.018 - 0.02	2	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	0.018	<0.018	<0.018	**4.3**	<0.018	<0.018
cis-1,2-Dichloroethylene	µg/g	0.05	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	µg/g	0.05	0.084	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/g	0.03	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/g	0.03 - 0.04	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene	µg/g	0.042 - 0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n)	µg/g	0.05	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	µg/g	0.5	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	µg/g	0.5	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	µg/g	0.05	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	µg/g	0.05	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/g	0.05	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.058	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	µg/g	0.05	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/g	0.02 - 0.08	2.3	<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	0.05	0.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	µg/g	0.01 - 0.05	0.061	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/g	0.05	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/g	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	µg/g	0.02	NR	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.031	<0.020	<0.020	6.22	<0.020	<0.020
m+p-Xylene	µg/g	0.02 - 0.03	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.079	<0.030	<0.030	17.6	<0.030	<0.030
Xylene Mixture	µg/g	0.02 - 0.05	3.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.11	<0.050	<0.050	**23.8**	<0.050	<0.050

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 9: Volatile Organic Compounds (VOCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	MW307-22	MW308-22	MW308-22	MW308-22	MW309-22	MW309-22	MW309-22	MW310-22	MW310-22	MW310-22	MW310-22	BH311-22	BH311-22	BH311-22
				MW 307-22 SS3 5-7	MW 308-22 SS1 0-2	MW 308-22 SS2 2.5-4.5	MW 308-22 SS3 5-7	MW309 SS2 2.5-4.5'	MW309 SS3 5-7'	MW309 SS5 10-12'	MW310 SS1 0-2'	MW310 SS3 5-7'	MW310 SS7 20-22'	MW310 SS9 30-32'	BH311 SS2 2.3-4.5'	BH311 SS4 7.5-9.5'	BH311 SS6 15-17'
				L2678641	L2678641	L2678641	L2678641	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593	L2677593
				L2678641-13	L2678641-6	L2678641-8	L2678641-9	L2677593-44	L2677593-45	L2677593-47	L2677593-12	L2677593-14	L2677593-18	L2677593-20	L2677593-2	L2677593-4	L2677593-6
				11-Jan-2022	11-Jan-2022	11-Jan-2022	11-Jan-2022	07-Jan-2022	07-Jan-2022	07-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022	06-Jan-2022
				1.5-2.1	0.0-0.6	0.8-1.4	1.5-2.1	0.8-1.4	1.5-2.1	3.0-3.7	0.0-0.6	1.5-2.1	6.1-6.7	9.1-9.8	0.7-1.4	2.3-2.9	4.6-5.2
Volatile Organic Compounds (VOCs)																	
Acetone	µg/g	0.5	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	µg/g	0.0068 - 0.02	0.21	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	0.0154	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	µg/g	0.05	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	µg/g	0.05	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	µg/g	0.05	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/g	0.05	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/g	0.05	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/g	0.05	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/g	0.05	0.083	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	µg/g	0.05	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	µg/g	0.05	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/g	0.018 - 0.02	2	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	0.023	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
cis-1,2-Dichloroethylene	µg/g	0.05	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	µg/g	0.05	0.084	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/g	0.03	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/g	0.03 - 0.04	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene	µg/g	0.042 - 0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n)	µg/g	0.05	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	µg/g	0.5	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	µg/g	0.5	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	µg/g	0.05	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	µg/g	0.05	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/g	0.05	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.058	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	µg/g	0.05	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/g	0.02 - 0.08	2.3	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	0.135	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	µg/g	0.05	0.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	µg/g	0.01 - 0.05	0.061	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/g	0.05	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/g	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	µg/g	0.02	NR	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.131	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
m+p-Xylene	µg/g	0.02 - 0.03	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.173	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Xylene Mixture	µg/g	0.02 - 0.05	3.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.304	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 9: Volatile Organic Compounds (VOCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	BH312-22	BH312-22	BH312-22	BH312-22	BH313-22	BH313-22	BH313-22	BH313-22	MW314-22	MW314-22	MW314-22	MW314-22	BH315-22	BH315-22
				BH312-22 SS1A	BH312-22 SS2	BH312-22 SS6	BH312-22 SS9	BH313-22 SS1 0-2'	BH313-22 SS2 2.5-4.5'	BH313-22 SS4 7.5-9.5'	BH313-22 SS6 15-17'	MW314-22 SS1B	MW314-22 SS2	MW314-22 SS5	MW314-22 SS7	BH315-22 SS2 2.5-4.5	BH315-22 SS4 7.5-9.5
				L2677105	L2677105	L2677105	L2677105	L2679135	L2679135	L2679135	L2679135	L2677105	L2677105	L2677105	L2677105	L2680005	L2680005
				L2677105-22	L2677105-25	L2677105-29	L2677105-32	L2679135-1	L2679135-3	L2679135-5	L2679135-7	L2677105-24	L2677105-15	L2677105-18	L2677105-20	L2680005-3	L2680005-5
				04-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022	18-Jan-2022	18-Jan-2022
				0.0-0.5	0.8-1.2	4.6-5.2	9.1-9.4	0.0-0.6	0.8-1.4	2.3-2.9	4.6-5.2	0.2-0.6	0.8-1.4	3.0-3.7	6.1-6.7	0.8-1.4	2.3-2.9
Volatile Organic Compounds (VOCs)																	
Acetone	µg/g	0.5	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	µg/g	0.0068 - 0.02	0.21	<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	0.05	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	µg/g	0.05	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	µg/g	0.05	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/g	0.05	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/g	0.05	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/g	0.05	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/g	0.05	0.083	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	µg/g	0.05	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	µg/g	0.05	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/g	0.018 - 0.02	2	<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
cis-1,2-Dichloroethylene	µg/g	0.05	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	µg/g	0.05	0.084	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/g	0.03	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/g	0.03 - 0.04	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene	µg/g	0.042 - 0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n)	µg/g	0.05	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	µg/g	0.5	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	µg/g	0.5	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	µg/g	0.05	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	µg/g	0.05	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/g	0.05	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.058	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	µg/g	0.05	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/g	0.02 - 0.08	2.3	<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	0.05	0.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	µg/g	0.01 - 0.05	0.061	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/g	0.05	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/g	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-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
m+p-Xylene	µg/g	0.02 - 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
Xylene Mixture	µg/g	0.02 - 0.05	3.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 9: Volatile Organic Compounds (VOCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	BH315-22	BH315-22	BH315-22	BH316-22	BH316-22	BH316-22	BH316-22	BH316-22	BH317-22	BH317-22	BH317-22	BH317-22	BH317-22	BH317-22
				BH315-22 SS6 15-17	BH315-22 SS7 20-22	BH315-22 SS10 35-37	BH316-22 SS1 0-2'	BH316-22 SS101 0-2'	BH316-22 SS3 5-7'	BH316-22 SS5 10-12'	BH316-22 SS6 15-17'	BH317-22 SS1 0-2	BH317-22 SS101 0-2	BH317-22 SS2 2.5-4.5	BH317-22 SS3 5-7	BH317-22 SS5 10-12	BH317-22 SS6 15-17
				L2680005	L2680005	L2680005	L2679135	L2679135	L2679135	L2679135	L2679135	L2680005	L2680005	L2680005	L2680005	L2680005	L2680005
				L2680005-7	L2680005-8	L2680005-11	L2679135-12	L2679135-13	L2679135-15	L2679135-17	L2679135-18	L2680005-13	L2680005-14	L2680005-15	L2680005-16	L2680005-18	L2680005-19
				18-Jan-2022	18-Jan-2022	18-Jan-2022	13-Jan-2022	13-Jan-2022	13-Jan-2022	13-Jan-2022	13-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022
				4.6-5.2	6.1-6.7	10.7-11.3	0.0-0.6	0.0-0.6	1.5-2.1	3.0-3.7	4.6-5.2	0.0-0.6	0.0-0.6	0.8-1.4	1.5-2.1	3.0-3.7	4.6-5.2
								Field Duplicate					Field Duplicate				
Volatile Organic Compounds (VOCs)																	
Acetone	µg/g	0.5	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	µg/g	0.0068 - 0.02	0.21	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	0.0085	0.0107	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	µg/g	0.05	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	µg/g	0.05	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	µg/g	0.05	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/g	0.05	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/g	0.05	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/g	0.05	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/g	0.05	0.083	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	µg/g	0.05	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	µg/g	0.05	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/g	0.018 - 0.02	2	<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
cis-1,2-Dichloroethylene	µg/g	0.05	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	µg/g	0.05	0.084	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/g	0.03	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/g	0.03 - 0.04	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene	µg/g	0.042 - 0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n)	µg/g	0.05	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	µg/g	0.5	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	µg/g	0.5	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	µg/g	0.05	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	µg/g	0.05	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/g	0.05	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.058	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	µg/g	0.05	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/g	0.02 - 0.08	2.3	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	0.096	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	µg/g	0.05	0.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	µg/g	0.01 - 0.05	0.061	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/g	0.05	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/g	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	µg/g	0.02	NR	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.026	0.028	<0.020	<0.020	<0.020	<0.020
m+p-Xylene	µg/g	0.02 - 0.03	NR	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.068	0.081	<0.030	<0.030	<0.030	<0.030
Xylene Mixture	µg/g	0.02 - 0.05	3.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.094	0.109	<0.050	<0.050	<0.050	<0.050

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
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NV- No Value
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"<" - Less than the Reporting Detection Limit

Table 9: Volatile Organic Compounds (VOCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	BH318-22	BH318-22	BH318-22	BH318-22	BH318-22	MW319-22	MW319-22	MW319-22	MW319-22	MW319-22	MW319-22	MW320-22	MW320-22	MW320-22
				BH318-22 SS1 0-2	BH318-22 SS101 0-2	BH318-22 SS2 2.5-4.5	BH318-22 SS4 7.5-9.5.	BH318-22 SS5 10-12	MW 319-22 SS1 0-2	MW 319-22 SS2 2.5-4.5	MW 319-22 SS6 15-17	MW 319-22 SS101 0-2	MW 319-22 SS5 10-12	MW 319-22 SS7 20-22	MW320-22 SS1	MW320-22 SS3	MW320-22 SS5
				L2680005	L2680005	L2680005	L2680005	L2680005	L2678641	L2678641	L2678641	L2678641	L2678641	L2678641	L2677105	L2677105	L2677105
				L2680005-20	L2680005-21	L2680005-22	L2680005-24	L2680005-25	L2678641-18	L2678641-20	L2678641-24	L2678641-19	L2678641-23	L2678641-25	L2677105-2	L2677105-4	L2677105-6
				18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	18-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	12-Jan-2022	04-Jan-2022	04-Jan-2022	04-Jan-2022
				0.0-0.6	0.0-0.6	0.8-1.4	2.3-2.9	3.0-3.7	0.0-0.6	0.8-1.4	4.6-5.2	0.0-0.6	3.0-3.7	6.1-6.7	0.0-0.6	1.5-2.1	3.0-3.7
					Field Duplicate							Field Duplicate					
Volatile Organic Compounds (VOCs)																	
Acetone	µg/g	0.5	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	µg/g	0.0068 - 0.02	0.21	<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	0.05	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	µg/g	0.05	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	µg/g	0.05	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/g	0.05	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/g	0.05	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/g	0.05	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/g	0.05	0.083	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	µg/g	0.05	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	µg/g	0.05	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/g	0.018 - 0.02	2	<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
cis-1,2-Dichloroethylene	µg/g	0.05	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	µg/g	0.05	0.084	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/g	0.03	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/g	0.03 - 0.04	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene	µg/g	0.042 - 0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n)	µg/g	0.05	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	µg/g	0.5	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	µg/g	0.5	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	µg/g	0.05	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	µg/g	0.05	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/g	0.05	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.058	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	µg/g	0.05	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/g	0.02 - 0.08	2.3	<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	0.05	0.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	µg/g	0.01 - 0.05	0.061	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/g	0.05	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/g	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	µg/g	0.02	NR	0.023	<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 - 0.03	NR	0.052	0.03	<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	0.02 - 0.05	3.1	0.075	<0.050	<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 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 9: Volatile Organic Compounds (VOCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	MW320-22	MW320-22
				MW320-22 SS8	MW320-22 AS11
				L2677105	L2677105
				L2677105-9	L2677105-12
				04-Jan-2022	04-Jan-2022
				7.6-8.2	11.3-11.6
Volatile Organic Compounds (VOCs)					
Acetone	µg/g	0.5	16	-	<0.50
Benzene	µg/g	0.0068 - 0.02	0.21	<0.0068	<0.0068
Bromodichloromethane	µg/g	0.05	13	-	<0.050
Bromoform	µg/g	0.05	0.27	-	<0.050
Bromomethane	µg/g	0.05	0.05	-	<0.050
Carbon Tetrachloride	µg/g	0.05	0.05	-	<0.050
Chlorobenzene	µg/g	0.05	2.4	-	<0.050
Chloroform	µg/g	0.05	0.05	-	<0.050
Dibromochloromethane	µg/g	0.05	9.4	-	<0.050
1,2-Dichlorobenzene	µg/g	0.05	3.4	-	<0.050
1,3-Dichlorobenzene	µg/g	0.05	4.8	-	<0.050
1,4-Dichlorobenzene	µg/g	0.05	0.083	-	<0.050
Dichlorodifluoromethane	µg/g	0.05	16	-	<0.050
1,1-Dichloroethane	µg/g	0.05	3.5	-	<0.050
1,2-Dichloroethane	µg/g	0.05	0.05	-	<0.050
1,1-Dichloroethylene	µg/g	0.05	0.05	-	<0.050
Ethylbenzene	µg/g	0.018 - 0.02	2	<0.018	<0.018
cis-1,2-Dichloroethylene	µg/g	0.05	3.4	-	<0.050
trans-1,2-Dichloroethylene	µg/g	0.05	0.084	-	<0.050
1,2-Dichloropropane	µg/g	0.05	0.05	-	<0.050
cis-1,3-Dichloropropene	µg/g	0.03	NR	-	<0.030
trans-1,3-Dichloropropene	µg/g	0.03 - 0.04	NR	-	<0.030
1,3-Dichloropropene	µg/g	0.042 - 0.05	0.05	-	<0.042
Ethylene Dibromide	µg/g	0.05	0.05	-	<0.050
Hexane (n)	µg/g	0.05	2.8	-	<0.050
Methyl Ethyl Ketone	µg/g	0.5	16	-	<0.50
Methyl Isobutyl Ketone	µg/g	0.5	1.7	-	<0.50
Methyl Tert-Butyl Ether	µg/g	0.05	0.75	-	<0.050
Methylene Chloride	µg/g	0.05	0.1	-	<0.050
Styrene	µg/g	0.05	0.7	-	<0.050
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.058	-	<0.050
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.05	-	<0.050
Tetrachloroethylene	µg/g	0.05	0.28	-	<0.050
Toluene	µg/g	0.02 - 0.08	2.3	<0.080	<0.080
1,1,1-Trichloroethane	µg/g	0.05	0.38	-	<0.050
1,1,2-Trichloroethane	µg/g	0.05	0.05	-	<0.050
Trichloroethylene	µg/g	0.01 - 0.05	0.061	-	<0.010
Trichlorofluoromethane	µg/g	0.05	4	-	<0.050
Vinyl Chloride	µg/g	0.02	0.02	-	<0.020
o-Xylene	µg/g	0.02	NR	<0.020	<0.020
m+p-Xylene	µg/g	0.02 - 0.03	NR	<0.030	<0.030
Xylene Mixture	µg/g	0.02 - 0.05	3.1	<0.050	<0.050

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 10: Summary of Groundwater Samples Submitted for Analysis

Sample Location	Sample Information									
	Laboratory Sample ID	Sample Date	Well Screen Interval (m bgs)	Metals	ABNs	PCBs	PAHs	PHCs	BTEX	VOCs
MW101-19	MW101-19	10-Sep-2019	2.4-5.5	x				x	x	x
MW101-19	MW1101-19	10-Sep-2019	2.4-5.5						x	x
MW101-19	MW101-19	15-Feb-2022	2.4-5.5	x	x		x	x	x	x
MW102-19	MW102-19	10-Sep-2019	4.3-7.3	x				x	x	x
MW103-19	MW103-19	10-Sep-2019	6.1-9.1	x				x	x	x
MW103-19	MW103-19	16-Feb-2022	6.1-9.1	x				x	x	x
MW104-19	MW104-19	10-Sep-2019	2.4-5.5	x				x	x	x
MW104-19	MW104-19	15-Feb-2022	2.4-5.5	x				x	x	x
MW104-19	MW1104-19	15-Feb-2022	2.4-5.5	x				x	x	x
MW104-19	MW1104-19 Lab-Dup	15-Feb-2022	2.4-5.5	x						
BH1	BH1	23-Feb-2022	4.7-6.2					x	x	
BH4	BH4	15-Mar-2022	9.2-12.2					x	x	
BH7	BH7	15-Feb-2022	4.6-6.1					x	x	
MW302-22	MW302-22	23-Feb-2022	3.1-6.1	x				x	x	x
MW309-22	MW309-22	15-Feb-2022	7.8-9.3	x				x	x	x
MW309-22	MW1309-22	15-Feb-2022	7.8-9.3	x				x	x	x
MW320-22	MW320-22	15-Feb-2022	8.7-11.8			x		x	x	x
MW320-22	MW320-22 Lab-Dup	15-Feb-2022	8.7-11.8					x		
		Total Groundwater Samples:		12	1	1	1	16	16	13
TRIP BLANK	TRIP BLANK	15-Feb-2022								x

Notes:
X = sample submitted for analysis
m bgs = meters below ground surface

Table 11: Metals and Other Inorganic Parameters Analysis in Groundwater

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)		Sample Location	MW101-19	MW101-19	MW102-19	MW103-19	MW103-19	MW104-19	MW104-19	MW104-19	MW104-19	MW302-22	MW309-22
					Sample Name	**MW101-19**	**MW101-19**	**MW102-19**	**MW103-19**	**MW103-19**	**MW104-19**	**MW104-19**	**MW1104-19**	**MW1104-19 Lab-Dup**	**MW302-22**	**MW309-22**
					Lab Job #	**B9P2059**	**C241626**	**B9P2059**	**B9P2059**	**C241671**	**B9P2059**	**C241626**	**C241626**	**C241626**	**C247970**	**C241626**
					Laboratory ID	**KSV027**	**RWJ014**	**KSV028**	**KSV029**	**RWJ214**	**KSV030**	**RWJ012**	**RWJ013**	**RWJ013**	**RXS325**	**RWJ015**
					Sampling Date	**10-Sep-2019**	**15-Feb-2022**	**10-Sep-2019**	**10-Sep-2019**	**16-Feb-2022**	**10-Sep-2019**	**15-Feb-2022**	**15-Feb-2022**	**15-Feb-2022**	**23-Feb-2022**	**15-Feb-2022**
					Well Screen Interval (m bgs)	**2.4-5.5**	**2.4-5.5**	**4.3-7.3**	**6.1-9.1**	**6.1-9.1**	**2.4-5.5**	**2.4-5.5**	**2.4-5.5**	**2.4-5.5**	**3.1-6.1**	**7.8-9.3**
					Maximum Concentration								**Field Duplicate**	**Laboratory Duplicate**		
Metals and Inorganics																
Antimony	µg/L	0.5	20000		0.96	<0.50	<0.50	0.76	0.64	<0.50	0.96	<0.50	<0.50	<0.50	<0.50	0.5
Arsenic	µg/L	1	1900		4.4	4.4	<1.0	1.4	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	3.9
Barium	µg/L	2	29000		280	280	63	93	210	100	110	61	59	58	140	48
Beryllium	µg/L	0.4 - 0.5	67	<	0.5	<0.50	<0.40	<0.50	<0.50	<0.40	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40
Boron	µg/L	10	45000		1300	290	95	770	400	260	770	30	24	25	75	1300
Cadmium	µg/L	0.09 - 0.1	2.7	<	0.1	<0.10	<0.090	<0.10	<0.10	<0.090	<0.10	<0.090	<0.090	<0.090	<0.090	<0.090
Chromium	µg/L	5	810	<	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cobalt	µg/L	0.5	66	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Copper	µg/L	0.9 - 1	87		7	3.4	7	2.9	2.1	3.5	2.1	3.6	<0.90	<0.90	4.5	1
Cyanide	µg/L	1	66	<	1	-	<1	-	-	-	-	-	-	-	-	-
Lead	µg/L	0.5	25	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Molybdenum	µg/L	0.5	9200		31	11	1.5	13	31	8.9	15	1.1	1.1	1.1	0.72	20
Nickel	µg/L	1	490		2.1	1.5	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0
Selenium	µg/L	2	63		2.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.9	<2.0
Silver	µg/L	0.09 - 0.1	1.5	<	0.1	<0.10	<0.090	<0.10	<0.10	<0.090	<0.10	<0.090	<0.090	<0.090	<0.090	<0.090
Thallium	µg/L	0.05	510		0.08	0.08	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium	µg/L	0.1	420		3	1.9	1.9	2.2	3	2.3	2.3	0.73	0.73	0.73	2.9	1.8
Vanadium	µg/L	0.5	250		1.4	1.4	<0.50	0.94	0.6	0.82	0.79	<0.50	<0.50	<0.50	<0.50	0.67
Zinc	µg/L	5	1100		15	5.4	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	15	<5.0

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 11: Metals and Other Inorganic Parameters Analysis in Groundwater

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	MW309-22	MW1309-22	C241626	RWJ016	15-Feb-2022	7.8-9.3	Field Duplicate
Metals and Inorganics										
Antimony	µg/L	0.5	20000	<0.50						
Arsenic	µg/L	1	1900	3.8						
Barium	µg/L	2	29000	49						
Beryllium	µg/L	0.4 - 0.5	67	<0.40						
Boron	µg/L	10	45000	1300						
Cadmium	µg/L	0.09 - 0.1	2.7	<0.090						
Chromium	µg/L	5	810	<5.0						
Cobalt	µg/L	0.5	66	<0.50						
Copper	µg/L	0.9 - 1	87	1.1						
Cyanide	µg/L	1	66	-						
Lead	µg/L	0.5	25	<0.50						
Molybdenum	µg/L	0.5	9200	20						
Nickel	µg/L	1	490	1.1						
Selenium	µg/L	2	63	<2.0						
Silver	µg/L	0.09 - 0.1	1.5	<0.090						
Thallium	µg/L	0.05	510	<0.050						
Uranium	µg/L	0.1	420	1.8						
Vanadium	µg/L	0.5	250	0.63						
Zinc	µg/L	5	1100	<5.0						

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 12: Acid/Base/Neutrals (ABNs) Analysis in Groundwater

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	Sample Location		MW101-19
				Sample Name		MW101-19
				Lab Job #		C241626
				Laboratory ID		RWJ014
				Sampling Date		15-Feb-2022
				Well Screen Interval (m bgs)		2.4-5.5
				Maximum Concentration		
Acid/Base/Neutral Compounds (ABNs) including Chlorophenols (CPs)						
1,1-Biphenyl	µg/L	0.1	1000	<	0.1	<0.1
Bis(2-chloroethyl)ether	µg/L	0.5	300000	<	0.5	<0.5
Bis(2-chloroisopropyl)ether	µg/L	0.5	20000	<	0.5	<0.5
Bis(2-ethylhexyl)phthalate	µg/L	1	140	<	1	<1
p-Chloroaniline	µg/L	1	400	<	1	<1
2-Chlorophenol	µg/L	0.1	3300	<	0.1	<0.1
3,3'-Dichlorobenzidine	µg/L	0.5	640	<	0.5	<0.5
2,4-Dichlorophenol	µg/L	0.1	4600	<	0.1	<0.1
Diethyl phthalate	µg/L	0.1	38		0.2	0.2
Dimethyl phthalate	µg/L	0.1	38	<	0.1	<0.1
2,4-Dimethylphenol	µg/L	0.5	39000	<	0.5	<0.5
2,4-Dinitrophenol	µg/L	2	11000	<	2	<2
2,4-Dinitrotoluene	µg/L	0.3	NR	<	0.3	<0.3
2,6-Dinitrotoluene	µg/L	0.3	NR	<	0.3	<0.3
2,4 + 2,6-Dinitrotoluene	µg/L	0.35	2900	<	0.35	<0.35
Pentachlorophenol	µg/L	0.1	62	<	0.1	<0.1
Phenol	µg/L	0.5	12000	<	0.5	<0.5
1,2,4-Trichlorobenzene	µg/L	0.1	180	<	0.1	<0.1
2,4,5-Trichlorophenol	µg/L	0.2	1600	<	0.2	<0.2
2,4,6-Trichlorophenol	µg/L	0.2	230	<	0.2	<0.2

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 13: Polychlorinated Biphenyls (PCBs) Analysis in Groundwater

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	Sample Location		MW320-22
				Sample Name		MW320-22
				Lab Job #		C241626
				Laboratory ID		RWJ011
				Sampling Date		15-Feb-2022
				Well Screen Interval (m bgs)		8.7-11.8
				Maximum Concentration		
Polychlorinated Biphenyls (PCBs)						
Aroclor 1242	µg/L	0.05	NR	<	0.05	<0.05
Aroclor 1248	µg/L	0.05	NR	<	0.05	<0.05
Aroclor 1254	µg/L	0.05	NR	<	0.05	<0.05
Aroclor 1260	µg/L	0.05	NR	<	0.05	<0.05
Total Polychlorinated Biphenyls	µg/L	0.05	7.8	<	0.05	<0.05

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 14: Polycyclic Aromatic Hydrocarbons (PAHs) Analysis in Groundwater

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	Sample Location		MW101-19
				Sample Name		MW101-19
				Lab Job #		C241626
				Laboratory ID		RWJ014
				Sampling Date		15-Feb-2022
				Well Screen Interval (m bgs)		2.4-5.5
				Maximum Concentration		
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	µg/L	0.2	600	<	0.2	<0.2
Acenaphthylene	µg/L	0.2	1.8	<	0.2	<0.2
Anthracene	µg/L	0.05	2.4	<	0.05	<0.05
Benz(a)anthracene	µg/L	0.05	4.7	<	0.05	<0.05
Benzo(a)pyrene	µg/L	0.01	0.81	<	0.01	<0.01
Benzo(b)fluoranthene	µg/L	0.05	0.75	<	0.05	<0.05
Benzo(g,h,i)perylene	µg/L	0.05	0.2	<	0.05	<0.05
Benzo(k)fluoranthene	µg/L	0.05	0.4	<	0.05	<0.05
Chrysene	µg/L	0.05	1	<	0.05	<0.05
Dibenz(a,h)anthracene	µg/L	0.1	0.52	<	0.1	<0.1
Fluoranthene	µg/L	0.2	130	<	0.2	<0.2
Fluorene	µg/L	0.2	400	<	0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	0.1	0.2	<	0.1	<0.1
1-Methylnaphthalene	µg/L	0.2	1800	<	0.2	<0.2
2-Methylnaphthalene	µg/L	0.2	1800	<	0.2	<0.2
1+2-Methylnaphthalene	µg/L	0.28	1800	<	0.28	<0.28
Naphthalene	µg/L	0.2	1400	<	0.2	<0.2
Phenanthrene	µg/L	0.1	580	<	0.1	<0.1
Pyrene	µg/L	0.05	68	<	0.05	<0.05

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 15: Petroleum Hydrocarbons (PHCs) Analysis in Groundwater

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)		Sample Location	MW101-19	MW101-19	MW102-19	MW103-19	MW103-19	MW104-19	MW104-19	MW104-19	BH1	BH4	BH7
					Sample Name	**MW101-19**	**MW101-19**	**MW102-19**	**MW103-19**	**MW103-19**	**MW104-19**	**MW104-19**	**MW1104-19**	**BH1**	**BH4**	**BH7**
					Lab Job #	**B9P2059**	**C241626**	**B9P2059**	**B9P2059**	**C241671**	**B9P2059**	**C241626**	**C241626**	**C247970**	**C267739**	**C241626**
					Laboratory ID	**KSV027**	**RWJ014**	**KSV028**	**KSV029**	**RWJ214**	**KSV030**	**RWJ012**	**RWJ013**	**RXS324**	**SCC205**	**RWJ010**
					Sampling Date	**10-Sep-2019**	**15-Feb-2022**	**10-Sep-2019**	**10-Sep-2019**	**16-Feb-2022**	**10-Sep-2019**	**15-Feb-2022**	**15-Feb-2022**	**23-Feb-2022**	**15-Mar-2022**	**15-Feb-2022**
					Well Screen Interval (m bgs)	**2.4-5.5**	**2.4-5.5**	**4.3-7.3**	**6.1-9.1**	**6.1-9.1**	**2.4-5.5**	**2.4-5.5**	**2.4-5.5**	**4.7-6.2**	**9.2-12.2**	**4.6-6.1**
					Maximum Concentration								**Field Duplicate**			
Petroleum Hydrocarbons (PHCs)																
F1 (C6 to C10)	µg/L	25	750	<	25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	25	750	<	25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
F2 (C10 to C16)	µg/L	100	150	<	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F3 (C16 to C34)	µg/L	200	500	<	200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
F4 (C34 to C50)	µg/L	200	500	<	200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Reached Baseline at C50	unitless		NR		NA	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 15: Petroleum Hydrocarbons (PHCs) Analysis in Groundwater

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	MW302-22	MW309-22	MW309-22	MW320-22	MW320-22
				MW302-22	MW309-22	MW1309-22	MW320-22	MW320-22 Lab-Dup
				C247970	C241626	C241626	C241626	C241626
				RXS325	RWJ015	RWJ016	RWJ011	RWJ011
				23-Feb-2022	15-Feb-2022	15-Feb-2022	15-Feb-2022	15-Feb-2022
				3.1-6.1	7.8-9.3	7.8-9.3	8.7-11.8	8.7-11.8
						Field Duplicate		Laboratory Duplicate
Petroleum Hydrocarbons (PHCs)								
F1 (C6 to C10)	µg/L	25	750	<25	<25	<25	<25	-
F1 (C6 to C10) minus BTEX	µg/L	25	750	<25	<25	<25	<25	-
F2 (C10 to C16)	µg/L	100	150	<100	<100	<100	<100	<100
F3 (C16 to C34)	µg/L	200	500	<200	<200	<200	<200	<200
F4 (C34 to C50)	µg/L	200	500	<200	<200	<200	<200	<200
Reached Baseline at C50	unitless		NR	YES	YES	YES	YES	YES

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 16: Volatile Organic Compounds (VOCs) Analysis in Groundwater

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)		Sample Location	MW101-19	MW101-19	MW101-19	MW102-19	MW103-19	MW103-19	MW104-19	MW104-19	MW104-19	BH1	BH4
					Sample Name	MW101-19	MW1101-19	MW101-19	MW102-19	MW103-19	MW103-19	MW104-19	MW104-19	MW1104-19	BH1	BH4
					Lab Job #	B9P2059	B9P2059	C241626	B9P2059	B9P2059	C241671	B9P2059	C241626	C241626	C247970	C267739
					Laboratory ID	KSV027	KSV031	RWJ014	KSV028	KSV029	RWJ214	KSV030	RWJ012	RWJ013	RXS324	SCC205
					Sampling Date	10-Sep-2019	10-Sep-2019	15-Feb-2022	10-Sep-2019	10-Sep-2019	16-Feb-2022	10-Sep-2019	15-Feb-2022	15-Feb-2022	23-Feb-2022	15-Mar-2022
					Well Screen Interval (m bgs)	2.4-5.5	2.4-5.5	2.4-5.5	4.3-7.3	6.1-9.1	6.1-9.1	2.4-5.5	2.4-5.5	2.4-5.5	4.7-6.2	9.2-12.2
					Maximum Concentration		Field Duplicate							Field Duplicate		
Volatile Organic Compounds (VOCs)																
Acetone	µg/L	10	130000	<	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
Benzene	µg/L	0.17 - 0.2	44		0.2	0.2	0.2	<0.17	<0.20	<0.20	<0.17	<0.20	<0.17	<0.17	<0.20	<0.20
Bromodichloromethane	µg/L	0.5	85000	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Bromoform	µg/L	1	380	<	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
Bromomethane	µg/L	0.5	5.6	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Carbon Tetrachloride	µg/L	0.19 - 0.2	0.79	<	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
Chlorobenzene	µg/L	0.2	630	<	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
Chloroform	µg/L	0.2	2.4	<	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	12Q	12Q	-	-
Dibromochloromethane	µg/L	0.5	82000	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
1,2-Dichlorobenzene	µg/L	0.4 - 0.5	4600	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
1,3-Dichlorobenzene	µg/L	0.4 - 0.5	9600	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
1,4-Dichlorobenzene	µg/L	0.4 - 0.5	8	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Dichlorodifluoromethane	µg/L	1	4400	<	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
1,1-Dichloroethane	µg/L	0.2	320	<	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
1,2-Dichloroethane	µg/L	0.49 - 0.5	1.6	<	0.5	<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	1.6	<	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
Ethylbenzene	µg/L	0.2	2300	<	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,2-Dichloroethylene	µg/L	0.5	1.6	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
trans-1,2-Dichloroethylene	µg/L	0.5	1.6	<	0.5	<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	16	<	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
cis-1,3-Dichloropropene	µg/L	0.3	NR	<	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	-	-
trans-1,3-Dichloropropene	µg/L	0.4	NR	<	0.4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	-	-
1,3-Dichloropropene	µg/L	0.5	5.2	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Ethylene Dibromide	µg/L	0.19 - 0.2	0.25	<	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
Hexane (n)	µg/L	1	51	<	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
Methyl Ethyl Ketone	µg/L	10	470000	<	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
Methyl Isobutyl Ketone	µg/L	5	140000	<	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	-	-
Methyl Tert-Butyl Ether	µg/L	0.5	190	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Methylene Chloride	µg/L	2	610	<	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	-
Styrene	µg/L	0.4 - 0.5	1300	<	0.5	<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	3.3	<	0.5	<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	0.4 - 0.5	3.2	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Tetrachloroethylene	µg/L	0.2	1.6	<	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
Toluene	µg/L	0.2	18000	<	0.2	<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/L	0.2	640	<	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
1,1,2-Trichloroethane	µg/L	0.4 - 0.5	4.7	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Trichloroethylene	µg/L	0.2	1.6	<	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
Trichlorofluoromethane	µg/L	0.5	2500	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Vinyl Chloride	µg/L	0.2	0.5	<	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
o-Xylene	µg/L	0.2	NR		0.22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.22	<0.20	<0.20	<0.20	<0.20
m+p-Xylene	µg/L	0.2 - 0.4	NR		0.48	<0.20	<0.20	<0.20	0.29	<0.20	<0.20	0.48	<0.20	<0.20	<0.40	<0.40
Xylene Mixture	µg/L	0.2 - 0.4	4200		0.7	<0.20	<0.20	<0.20	0.29	<0.20	<0.20	0.7	<0.20	<0.20	<0.40	<0.40

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
12Q	- Results qualified. Refer to report text for details and rationale.

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

Table 16: Volatile Organic Compounds (VOCs) Analysis in Groundwater

Parameters	Unit	RDL	2011 Table 3 SCS (R/P/I, Coarse)	BH7	MW302-22	MW309-22	MW309-22	MW320-22	TRIP BLANK
				BH7	MW302-22	MW309-22	MW1309-22	MW320-22	TRIP BLANK
				C241626	C247970	C241626	C241626	C241626	C241626
				RWJ010	RXS325	RWJ015	RWJ016	RWJ011	RWJ017
				15-Feb-2022	23-Feb-2022	15-Feb-2022	15-Feb-2022	15-Feb-2022	15-Feb-2022
				4.6-6.1	3.1-6.1	7.8-9.3	7.8-9.3	8.7-11.8	NA
							Field Duplicate		Trip Blank
Volatile Organic Compounds (VOCs)									
Acetone	µg/L	10	130000	-	<10	<10	<10	<10	<10
Benzene	µg/L	0.17 - 0.2	44	<0.20	<0.17	<0.17	<0.17	<0.17	<0.20
Bromodichloromethane	µg/L	0.5	85000	-	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	µg/L	1	380	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	µg/L	0.5	5.6	-	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.19 - 0.2	0.79	-	<0.20	<0.20	<0.20	<0.20	<0.19
Chlorobenzene	µg/L	0.2	630	-	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	0.2	2.4	-	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	0.5	82000	-	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	µg/L	0.4 - 0.5	4600	-	<0.50	<0.50	<0.50	<0.50	<0.40
1,3-Dichlorobenzene	µg/L	0.4 - 0.5	9600	-	<0.50	<0.50	<0.50	<0.50	<0.40
1,4-Dichlorobenzene	µg/L	0.4 - 0.5	8	-	<0.50	<0.50	<0.50	<0.50	<0.40
Dichlorodifluoromethane	µg/L	1	4400	-	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	µg/L	0.2	320	-	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	0.49 - 0.5	1.6	-	<0.50	<0.50	<0.50	<0.50	<0.49
1,1-Dichloroethylene	µg/L	0.2	1.6	-	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	0.2	2300	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,2-Dichloroethylene	µg/L	0.5	1.6	-	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	µg/L	0.5	1.6	-	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	µg/L	0.2	16	-	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,3-Dichloropropene	µg/L	0.3	NR	-	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	µg/L	0.4	NR	-	<0.40	<0.40	<0.40	<0.40	<0.40
1,3-Dichloropropene	µg/L	0.5	5.2	-	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylene Dibromide	µg/L	0.19 - 0.2	0.25	-	<0.20	<0.20	<0.20	<0.20	<0.19
Hexane (n)	µg/L	1	51	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	µg/L	10	470000	-	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone	µg/L	5	140000	-	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Tert-Butyl Ether	µg/L	0.5	190	-	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	2	610	-	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	0.4 - 0.5	1300	-	<0.50	<0.50	<0.50	<0.50	<0.40
1,1,1,2-Tetrachloroethane	µg/L	0.5	3.3	-	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	µg/L	0.4 - 0.5	3.2	-	<0.50	<0.50	<0.50	<0.50	<0.40
Tetrachloroethylene	µg/L	0.2	1.6	-	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	0.2	18000	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	0.2	640	-	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	µg/L	0.4 - 0.5	4.7	-	<0.50	<0.50	<0.50	<0.50	<0.40
Trichloroethylene	µg/L	0.2	1.6	-	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	µg/L	0.5	2500	-	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	µg/L	0.2	0.5	-	<0.20	<0.20	<0.20	<0.20	<0.20
o-Xylene	µg/L	0.2	NR	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m+p-Xylene	µg/L	0.2 - 0.4	NR	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene Mixture	µg/L	0.2 - 0.4	4200	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20

Notes:
2011 Site Condition Standards (SCS) - As identified 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 3 SCS
12Q	- Results qualified. Refer to report text for details and rationale.

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

Appendix A1

Sampling and Analysis Plan

SAMPLING & ANALYSIS PLAN

PROJECT NAME:	Phase Two ESA – 18, 20, 22, 24 and 28 Elizabeth Street North and 31 & 33 George Street North, Brampton, ON
LOCATION:	18, 20, 22, 24 and 28 Elizabeth Street North and 31 & 33 George Street North, Brampton, ON
DISTRIBUTION:	Harman Sandhu, E.I.T., Field Technician Zach Thomson, E.I.T., Field Technician Spencer Buck, B.Sc., Project Manager Kelvin Lee, P.Eng., M.Eng., Qualified Person (QP_{ESA})
CLIENT CONTACT:	Mr. Mark Zaky, Greenwin Corp.
MTE FILE NO.:	46372-101
DATE:	December 2021
PREPARED BY:	Spencer Buck, B.Sc.
REVIEWED BY:	Kelvin Lee, P.Eng., M.Eng., QP_{ESA}

1. INTRODUCTION

The purpose of this Sampling and Analysis Plan (SAP) is to outline the procedures to follow during the completion of a Phase Two ESA for the municipal addresses 18, 20, 22, 24 and 28 Elizabeth Street North and 31 & 33 George Street North in Brampton, Ontario (the "Phase Two Property" or "Site"). The SAP includes a summary of:

- Media to be sampled;
- Sampling and other field methods;
- Sampling locations and rationale;
- Field measurements to be collected;
- Laboratory analysis; and
- Quality Assurance/Quality Control (QA/QC) procedures.

The Phase Two ESA of the Site is required in accordance with Ontario Regulation 153/04 to support the filing of a Record of Site Condition (RSC) for the Site. The SAP was prepared based a review of information obtained about the Site during a Phase One ESA.

The SAP was developed under the supervision of a Qualified Person (QP_{ESA}) and was based on the potentially contaminating activities (PCAs), Areas of Potential Environmental Concern (APECs), and the contaminants of potential concern (COPCs) as identified by the Phase One ESA.

2. APPLICABLE SITE CONDITION STANDARDS

The following information was used to determine the applicable MECP Site Condition Standards (SCSs):

- The results of the Phase One ESA determined that the Site is not on or located within 30m of a water body or an environmentally sensitive area;
- Bedrock geology mapping suggests that there is more than 2 m of overburden and the Site is not a shallow soil property;
- The Site is located within a municipality that does not rely on groundwater as a source of drinking water;
- Coarse grained fill material was identified during previous investigations. The coarse grained Site Condition Standards were conservatively applied; and
- The proposed future use of the Site will be residential.

Based on the above, the analytical results will be compared to the Ministry of Environment, Conservation and Parks (MECP) Table 3 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 (the "2011 Table 3 RPI SCSs").

3. PCAs, APECs and COPCs

The Potentially Contaminating Activities (PCAs) on the Site and in the Study Area that resulted in Areas of Potential Environmental Concern (APECs) at the Phase Two Property are summarized in the Phase One ESA APEC table and further described in Section 4 of this SAP.

The COPCs on the Phase Two Property include metals, hydride-forming metals (As, Sb, Se), cyanide (CN-), mercury (Hg), hot water soluble boron (B-HWS), acid/base/neutrals (ABNs), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PBCs), petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene and xylenes (BTEX), and volatile organic compounds (VOCs).

4. PHASE TWO ESA SCOPE OF WORK

The scope of work for the Phase Two ESA was designed to assess soil and/or groundwater quality in each of the APECs identified by the Phase One ESA and, where possible using the proposed sampling locations, delineate the lateral and/or vertical extent of Contaminants of Concern (COCs) that are identified.

All groundwater samples will be collected from monitoring wells. The Phase Two Property does not include a surface water body, and therefore no surface water or sediment samples will be

collected.

The following summarizes the proposed sampling plan for each APEC:

- APEC 1 was defined as the entire Phase One Property where fill material of unknown quality may have been imported during historical Site grading, including following demolition of former structures (PCA #1). The COPCs in APEC 1 included metals, hydride-forming metals arsenic (As), antimony (Sb) and selenium (Se), mercury (Hg), cyanide (CN-) hot water soluble boron (B-HWS), petroleum hydrocarbons (PHCs) and benzene, ethylbenzene, toluene and xylene (BTEX) in soil. Samples of fill material will be collected from boreholes advanced across the Site and submitted for analysis of the COPCs. Soil analytical results from previous investigations will also be reviewed.
- APEC 2 was defined as the areas around the dwellings at 18, 20, 22 and 24 Elizabeth Street North where fuel/heating oil was inferred to have been used for heat (PCA #2). An empty fuel oil tank was observed in the basement of 22 Elizabeth Street North. No other evidence of current of former heating infrastructure was observed. The COPCs in APEC 2 included PHCs and BTEX in soil and groundwater. Soil samples will be collected from six boreholes advanced within APEC 2 and submitted for analysis of the COPCs. Groundwater samples will be collected from one newly installed monitoring well and three existing monitoring wells within APEC 2 and submitted for analysis of the COPCs.
- APEC 3 was defined as the northwestern portion of the 28 Elizabeth Street North building where a coal chute (PCA #3) was observed. The COPCs within APEC 3 included metals, As, Sb, Se, Hg and PAHs in soil and groundwater. Soil and groundwater samples will be collected from one borehole, completed as a monitoring well, along the exterior building wall where the coal chute was observed. Samples will be submitted for all of the COPCs within APEC 3. Historical data collected within this APEC will also be reviewed.
- APEC 4a, 4b and 8 had the same boundary which was defined as the area adjacent to the eastern boundary of the Phase One Property based on the presence of a former printing and graphic design business (PCA #4a), machine shop (PCA #4b), and auto related business (PCA #8) on two adjacent properties to the east of the Site. The COPCs in APEC 4a, 4b and 8 included metals, As, Sb, Se, PHCs, BTEX and volatile organic compounds (VOCs) in groundwater. Advance two boreholes, both completed as monitoring wells, with groundwater samples collected for all of the COPCs within APECs 4a, 4b and 8.
- APEC 5 was defined as the area adjacent to the southeastern boundary of the Site based on the presence of a former eyewear manufacturer where hydrocarbon impacted soil was remediated (PCA #5a), where glass and metal products (eyewear) where manufactured (PCA #5b and #5c) and solvents may have been stored and used (PCA #5d). The COPCs in APEC 5 included metals, As, Sb, Se, PHCs, BTEX and VOCs in groundwater. One monitoring well will be advanced within APEC 5 with groundwater samples collected for all of the COPCs.
- APEC 6 was defined as the area adjacent to the southern boundary of the Site based on

the historical and current presence of a hydroelectric station (PCA #6) on an adjoining property to the south. The COPCs in APEC 6 included metals, As, Sb, Se, PHCs, PHCs, BTEX and VOCs in groundwater. One monitoring well will be advanced within APEC 6 with groundwater samples collected for all of the COPCs.

- APEC 7a, 7b, 7c and APEC 9 had the same boundary which was defined as the area adjacent to the northeastern boundary of the Site based on the presence of a former coal gasification plant (PCA #7a), former equipment manufacturer (PCA #7b), former generation of photoprocessing wastes (PCA #7c) and a former prefabricated building and components manufacturer (PCA #9). The COPCs in APEC 7a, 7b, 7c and 9 included metals, As, Sb, Se, Hg, CN-, polycyclic aromatic hydrocarbons (PAHs), acid-base-neutral compounds (ABNs), PHCs, BTEX and VOCs in groundwater. One new monitoring well will be advanced within APECs 7a, 7b, 7c and 9 and groundwater samples will be collected from this new monitoring well and one existing monitoring well and submitted for analysis of the COPCs. Historical data collected within this APEC will also be reviewed.

The more specific Scope of Work for the Phase Two ESA will include the following:

- Preparation of a Site Specific Health and Safety Plan (HASP);
- 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;
- Review of previous soil and groundwater data collected for the Phase Two Property;
- Drilling of 20 boreholes, and completing 7 boreholes as groundwater monitoring wells within the APECs;
- Collection of soil samples to evaluate and describe the subsurface stratigraphy;
- Using a field instrument to screen and measure for the presence of hydrocarbon and VOC vapours in the headspace of soil samples;
- Submitting selected soil samples to an accredited laboratory for analysis of the COPCs under Chain-of-Custody;
- Collecting groundwater samples from new and existing monitoring wells for submission to an accredited laboratory for analysis of the COCs under Chain-of-Custody;
- Measuring static groundwater levels and elevation surveying of the monitoring wells to a geodetic datum to assess groundwater flow conditions and hydraulic gradients;
- Implementing Quality Assurance/Quality control (QA/QC) procedures for field sampling activities and laboratory analytical data;
- Documenting the field work including Site photographs;
- 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 will be submitted under chain-of-custody to ALS Laboratories of Waterloo, Ontario or Bureau Veritas Laboratories of Mississauga, Ontario.

5. HEALTH AND SAFETY

Health & Safety Plan (HASP)

A Site-specific HASP will be prepared in advance of the field work. All staff working on this project in the field must read and sign-off confirming they have read and understand the requirements of the HASP and will following the requirements of the HASP.

MTE field personnel shall wear safety boots, safety glasses, reflective vests, nitrile gloves and long pants and long sleeves during all sampling and other field activities. Hearing protection shall be worn during drilling activities.

Contaminants of Potential Concern

It is expected that contaminants will be present in soil and groundwater on the Site. COPCs in soil and/or groundwater identified by the Phase One ESA include metals, As, Sb, Se, Hg, CN-, B-HWS, ABNS, PAHs, PHCs, BTEX and VOCs. All field staff shall wear the required personal protective equipment and follow standard hygiene practices in accordance with the HASP to limit the potential for exposure.

Utility Locates

Both public locates and private locates are mandatory prior to conducting any subsurface investigation work at the Site. Utility services shall be located and marked by the utility provider or their subcontractor and arranged through Ontario One Call. A private utility locator must also be retained to clear all proposed drilling locations prior to the commencement of fieldwork.

Site Access and Communication

Vehicle access to the Site is provided from Elizabeth Street North and Nelson Street West. MTE staff shall park in a designated parking spot during the sampling and field activities. Field staff shall communicate regularly during the field work with the Project Manager and/or QP_{ESA}, including at the beginning and end of each work day.

6. STANDARD OPERATING & FIELD PROCEDURES

All field work during this Phase Two ESA will be completed in accordance with MTE Standards Operating Procedures (SOPs). The following MTE SOPs will apply to this project:

SOP Number	Description
5.6.2(a)	Borehole Drilling
5.6.2(c)	Soil Sampling
5.6.2(d)	Field Screening Measurements (Soil) and Equipment Calibration
5.6.2(e)	Monitoring Well Installation
5.6.2(f)	Monitoring Well Development
5.6.2(g)	Field Measurement of Water Quality and Equipment Calibration
5.6.2(i)	Groundwater Sampling

The following procedures shall be followed:

Field Data Recording: Field forms are to be used by technical staff to document field data collection and sampling activities. All fields in the forms shall be completed.

Field Equipment: Calibration of field monitoring equipment shall be performed according to manufacturers' recommendations and the MTE SOP in advance of use 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 (hydrocarbons and VOCs) shall be recorded for all soil samples collected.

Borehole Sampling: Soil samples shall be collected directly from the undisturbed plastic core obtained by direct push drilling or split spoon if percussion drilling.

Soil samples being analyzed for volatile parameters (F1 PHCs, BTEX, VOCs) 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 metals, As, Sb, Se, CN-, Hg, B-HWS, PAHs, PCBs, and PHCs F2-F4 will be collected in 120 mL or 250

mL unpreserved glass jars supplied by the laboratory.

Groundwater levels: Groundwater level measurements shall be collected prior to any disturbance of the wells, and from the highest marked point on the well riser pipe. The water level and/or interface probe is to be decontaminated between sampling locations as indicated in the MTE SOP.

Groundwater Sampling: During the purging of monitoring wells, field parameters including 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 soil samples:

Soil Analyte Group	Container Type	Preservative
PHC F1, BTEX, VOCs	2 – 40mL clear glass vials	Methanol
metals, As, Sb, Se, CN-, Hg, B-HWS, PAHs, PCBs, PHCs F2-F4	2 –250 mL 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 Glass Septum 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
Hg	1 – 100ml Clear Glass Bottle (Field Filtered)	HCl
CN-	1 – 250ml Plastic Bottle	None

All samples shall be placed into insulated coolers with sufficient ice immediately after collection to initiate cooling. Coolers should contain sufficient ice prior to and during transportation to the laboratory.

All samples are to be accompanied by a completed chain-of-custody record that 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.

7. PHYSICAL IMPEDIMENTS AND FIELD CHANGES

There are no known physical or access impediments to completing the scope or work. Conditions such as inclement weather, underground or overhead utilities or minimum clearance requirements may require alteration or 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 instructions.

8. QUALITY ASSURANCE AND QUALITY CONTROL

A quality assurance and quality control (QA/QC) plan will be implemented during this Phase Two ESA. QA/QC measures will be implemented in the field and laboratory to demonstrate that the physical and analytical data that are generated during the Phase Two ESA are suitable to assess the site conditions and for comparison to the applicable 2011 Table 3 SCSs.

Field Quality Assurance

Field QA procedures will include:

- Adherence to this SAP and MTE 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;
- The use of field forms for recording the collected field data; and
- Implementing field equipment cleaning and calibration procedures.

Field Quality Control

Quality Control procedures will include the collection and analysis of QC samples, including blind field duplicate samples and trip blanks. The trip blanks will consist of a sample of ultra-pure water prepared by the laboratory, which will accompany the sample bottles and samples during collection, storage and transport.

The numbers of field duplicate samples and trip blanks and shall be in accordance with O.Reg.153/04 and include:

- One field duplicate for every 10 samples collected; and
- One trip blank to accompany each batch submission of VOC samples in groundwater.

Analytical data precision will be assessed by calculating the Relative Percent Difference (RPD) between the investigation sample results (C1) and the blind field duplicate sample results (C2). The RPD will be 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. The RPD acceptance criterion will be 50% for soil analyses and 30% for groundwater analyses.

Laboratory QA/QC

Laboratory QA/QC procedures will be 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 will include 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.

Appendix A2

Borehole Logs, Site Photographs and No Objection Letter

ID Number: MW101-19

Project: Phase II ESA

Project No: 46372-100

Client: The Six Real Estate Developments Inc.

Site Location: 28 Elizabeth St N and 31-33 George St N, Brampton, ON

Drill Date: 9/9/2019

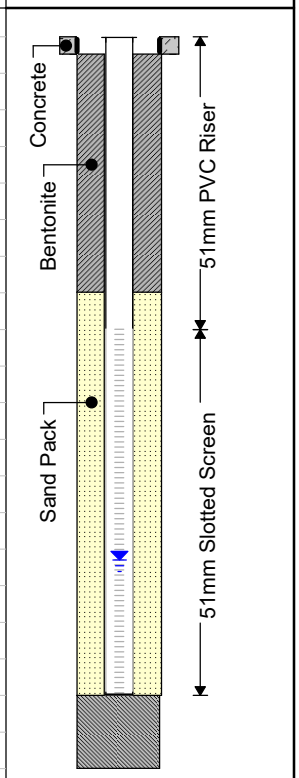
Drilling Contractor: Strata Drilling Group

Drill Rig: Geoprobe 7822DT

Drill Method: Direct Push

Protective Cover: Flushmount

SUBSURFACE PROFILE			SAMPLE					HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID ppm (20 40 60 80) / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
		Ground Surface	95.4						
0		**ASPHALTIC CONCRETE**	0.0						
		GRAVEL FILL brown, coarse, moist					metals, EC, SAR, PAHs	0	
2		**SILTY SAND FILL** brown, trace gravel, some organics, moist		1	DP	60			
4		**SILTY SAND** brown, some gravel, moist	94.2 / 1.2						
6 (2 m)		wet at 3.0m		2	DP	60		0	
10							PHCs, VOCs	0	
12 (4 m)		**CLAYEY SILT** grey, some sand, some gravel, moist	91.7 / 3.7	3	DP	70			
16				4	DP	80		0	
18		**SHALE** red, moist	89.9 / 5.5						
20 (6 m)			89.3 / 6.1						
		Drilling Terminated							
26 (8 m)									
30									



Field Technician: ADP

Drafted by: ADP

Reviewed by: SCA

MTE

Sheet: 1 of 1

ID Number: MW102-19

Project: Phase II ESA

Project No: 46372-100

Client: The Six Real Estate Developments Inc.

Site Location: 28 Elizabeth St N and 31-33 George St N, Brampton, ON

Drill Date: 9/9/2019

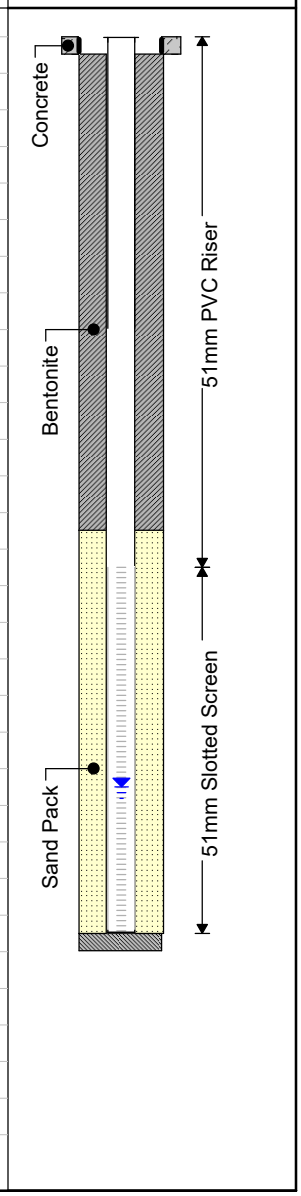
Drilling Contractor: Strata Drilling Group

Drill Rig: Geoprobe 7822DT

Drill Method: Direct Push

Protective Cover: Flushmount

SUBSURFACE PROFILE			SAMPLE					HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID ppm (20 40 60 80) / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
		Ground Surface	97.4						
		TOPSOIL	0.0						
		SILTY SAND FILL brown, trace gravel, some organics, moist		1	DP	50	metals, EC, SAR, pH, PAHs	0	
				2	DP	90	metals, pH	0	
		SILTY SAND brown, some gravel, moist	95.0 / 2.4						
				3	DP	90		0	
		CLAYEY SILT light brown, some sand, some gravel, moist; grey at 4.6m; wet at 6.1m	93.1 / 4.3						
				4	DP	100	PHCs, VOCs	0	
				5	DP	100		0	
		SHALE red, moist	89.9 / 7.5						
		Drilling Terminated							



Field Technician: ADP

Drafted by: ADP

Reviewed by: SCA

MTE

Sheet: 1 of 1

ID Number: MW103-19

Project: Phase II ESA

Project No: 46372-100

Client: The Six Real Estate Developments Inc.

Site Location: 28 Elizabeth St N and 31-33 George St N, Brampton, ON

Drill Date: 9/9/2019

Drilling Contractor: Strata Drilling Group

Drill Rig: Geoprobe 7822DT

Drill Method: Direct Push

Protective Cover: Flushmount

SUBSURFACE PROFILE			SAMPLE					HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID ppm (20 40 60 80) / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
		Ground Surface	100.1						
0		**TOPSOIL**	0.0						
		SILTY SAND FILL brown, trace gravel, some organics, moist		1	DP	50	metals, EC, SAR, PAHs	0	Concrete
4		**SILTY SAND** brown, some gravel, moist	98.9 / 1.2						
6				2	DP	90		0	
10				3	DP	90		0	Bentonite; 51mm PVC Riser
16		grey at 5.8m		4	DP	100		0	
20		**CLAYEY SILT** grey, some sand, some gravel, moist	94.0 / 6.1					0	
24		wet at 7.5m		5	DP	100	PHCs, VOCs	0	Sand Pack; 51mm Slotted Screen
28								0	
30		Drilling Terminated	91.0 / 9.1						

Field Technician: ADP

Drafted by: ADP

Reviewed by: SCA

MTE

Sheet: 1 of 1

ID Number: MW104-19

Project: Phase II ESA

Project No: 46372-100

Client: The Six Real Estate Developments Inc.

Site Location: 28 Elizabeth St N and 31-33 George St N, Brampton, ON

Drill Date: 9/10/2019

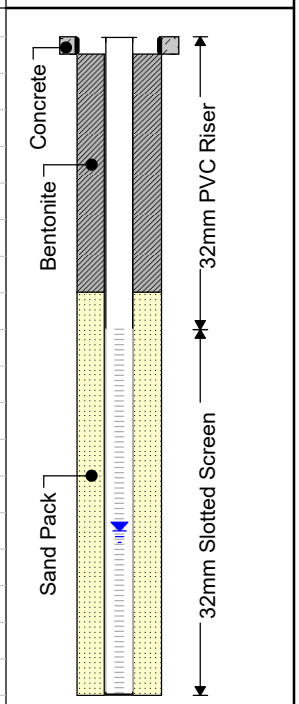
Drilling Contractor: Strata Drilling Group

Drill Rig: Geoprobe 420M

Drill Method: Direct Push

Protective Cover: Flushmount

SUBSURFACE PROFILE			SAMPLE					HEADSPACE	
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID ppm (20 40 60 80) / Hydrocarbon ppm (100 200 300 400)	Well Completion Details
		Ground Surface	95.1						
0		**ASPHALTIC CONCRETE**	0.0						
		GRAVEL FILL brown, coarse, moist		1	DP	70	metals, EC, SAR, PAHs	0	
2		**SILTY SAND FILL** brown, trace gravel, some organics, moist							
4		**SILTY SAND** brown, some gravel moist	93.9 / 1.2	2	DP	60			
6		wet at 3.0m						0	
8				3	DP	80			
10							PHCs, VOCs	0	
12		**CLAYEY SILT** grey, some sand, some gravel, moist	91.5 / 3.7	4	DP	100			
14		red shale in sample tip							
16				5	DP	100		0	
18			89.6 / 5.5						
		Drilling Terminated							
20									
22									
24									
26									
28									
30									



Field Technician: ADP

Drafted by: ADP

Reviewed by: SCA

MTE

Sheet: 1 of 1

BOREHOLE LOG

BOREHOLE NO.: 1

ENCLOSURE 2
PAGE 1 **OF** 1

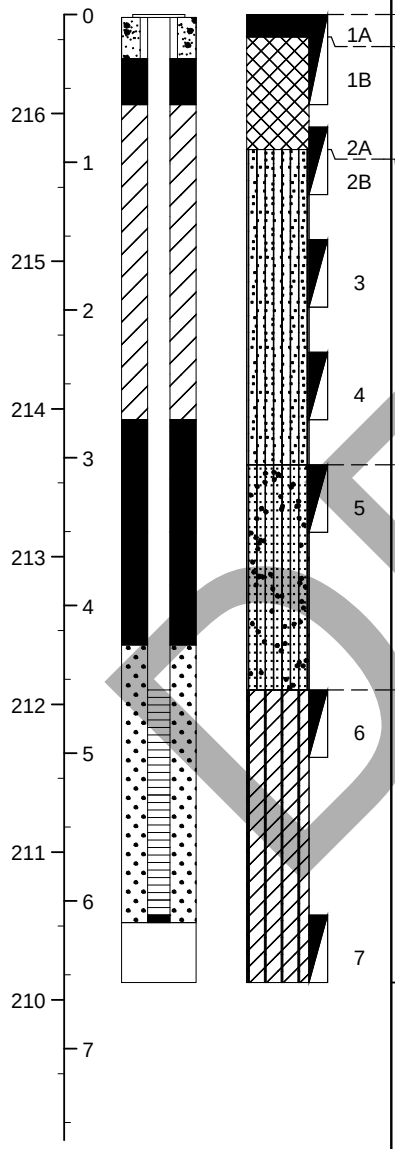
PROJECT NO.: 10534 **DATE:** May 27, 2019
PROJECT: Proposed Midrise Development

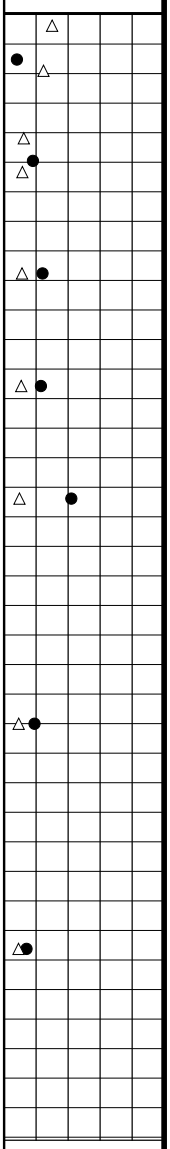
CLIENT: 2560517 Ontario Inc. c/o Evans Planning Inc.
LOCATION: 18-24 Elizabeth Street North, Brampton, Ontario
ELEVATION (M): 216.67 Geodetic **CAVED AT DEPTH (M):** Open
WATER LEVEL DEPTH (M): Dry **DRILLING METHOD:** Solid Stem Augers
DRILLER: Terra Firma **DRILL RIG:** CME-75
LOGGED BY: Ken/Diponkar **REVIEWED BY:** Clement

LEGEND:

- SS - SPLIT SPOON
- AS - AUGER SAMPLE
- ST - SHELBY TUBE
- CS - CORE SAMPLE
- WATER LEVEL
- CAVED AT
- "N" BLOWS / 0.3 M
- M.C. NATURAL MOISTURE CONTENT (%)
- O.V.M ORGANIC VAPOUR MONITOR
- P.L. PLASTIC LIMIT (%)
- L.L. LIQUID LIMIT (%)

ELEV./ DEPTH (m)	WELL/ PIEZO. DETAIL	SYMBOLS, SAMPLERS TEST DATA	DESCRIPTION	Moisture Content	STD PENETRATION TESTS BLOW COUNTS	STD PENETRATION TESTS "N" VALUE
		1A	TOPSOIL - 150 mm thick	30.0		
		1B	FILL - clayey silt, trace rootlets, brown, moist	24.6	1-3-5-5	8
		2A	FILL - sandy silt, trace gravel, trce to some clay, brown, moist	12.3		
		2B		11.4	5-8-10	18
			SANDY SILT - trace gravel, trace to some clay, brown, compact, moist			
		3	-auger grinding	11.2	9-11-13	24
		4		10.7	7-10-13	23
		5	SANDY SILT TILL - trace gravel, trace clay, brown, dense, moist	9.6	8-16-26	42
		6	CLAYEY SILT - trace gravel, greyish brown, stiff to very stiff, moist	9.1	6-9-10	19
		7		9.0	5-6-8	14
			End of Borehole at Targeted Depth; Borehole was open and dry upon Completion of Drilling.			





Notes:

This information pertains only to this borehole and should not be interpreted as being indicative of the site.

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ENCLOSURE 3
PAGE 1 OF 1

BOREHOLE LOG

BOREHOLE NO.: 2

SOLA ENGINEERING

PROJECT NO.: 10534 **DATE:** May 27, 2019
PROJECT: Proposed Midrise Development

CLIENT: 2560517 Ontario Inc. c/o Evans Planning Inc.
LOCATION: 18-24 Elizabeth Street North, Brampton, Ontario
ELEVATION (M): 216.67 Geodetic **CAVED AT DEPTH (M):** Open
WATER LEVEL DEPTH (M): Dry **DRILLING METHOD:** Solid Stem Augers
DRILLER: Terra Firma **DRILL RIG:** CME-75
LOGGED BY: Ken/Diponkar **REVIEWED BY:** Clement

LEGEND:
- SS - SPLIT SPOON
- AS - AUGER SAMPLE
- ST - SHELBY TUBE
- CS - CORE SAMPLE
- WATER LEVEL
- CAVED AT
- "N" BLOWS / 0.3 M
- M.C. NATURAL MOISTURE CONTENT (%)
- O.V.M ORGANIC VAPOUR MONITOR
- P.L. PLASTIC LIMIT (%)
- L.L. LIQUID LIMIT (%)

ELEV./ DEPTH (m)	WELL/ PIEZO. DETAIL	SYMBOLS, SAMPLERS TEST DATA	DESCRIPTION	Moisture Content	STD PENETRATION TESTS BLOW COUNTS	STD PENETRATION TESTS "N" VALUE
		1A	ASPHALTIC CONCRETE - 20 mm thick	8.8		
		1B	GRANULAR FILL - 135 mm thick sand and gravel	16.3	2-1-1-1	2
			FILL - clayey silt, trace gravel, brown, moist			
		2	FILL - sandy silt, some clay, trace gravel, brown, moist	12.3	3-7-9	16
		3	SANDY SILT TILL - trace to some clay, trace gravel, brown, compact to dense, moist	11.1	8-12-4	16
		4		11.0	7-12-16	28
		5		10.0	9-16-22	38
			- auger grinding			
		6	-becoming grey	9.0	10-13-19	32
		7		8.6	5-7-14	21
			End of Borehole at Targeted Depth; Borehole Open and Dry Upon Completion of Drilling			

ELEV./ DEPTH (m): 0, 1, 2, 3, 4, 5, 6, 7 — 216, 215, 214, 213, 212, 211, 210

P.L.-L.L. △ M.C. ● "N" Value 20 40 60 80

Notes:

This information pertains only to this borehole and should not be interpreted as being indicative of the site.

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ENCLOSURE 4
PAGE 1 OF 1

BOREHOLE LOG

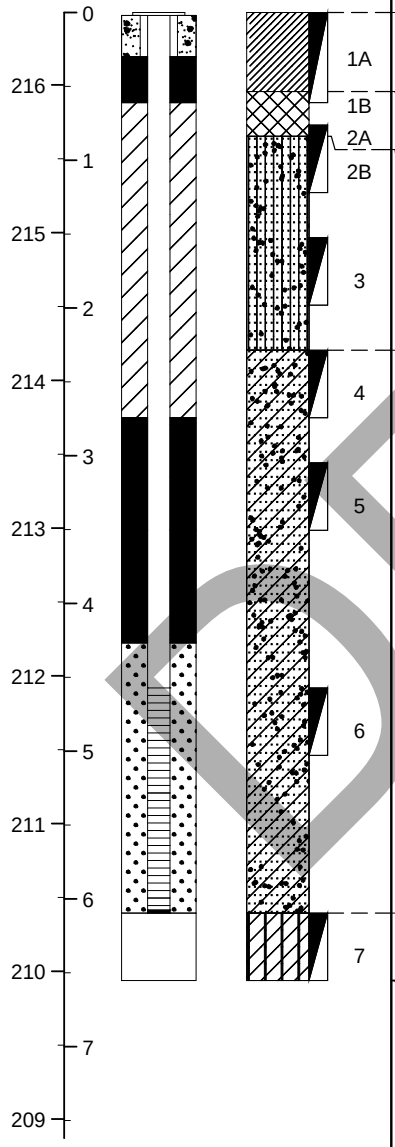
BOREHOLE NO.: 3

SOLA ENGINEERING

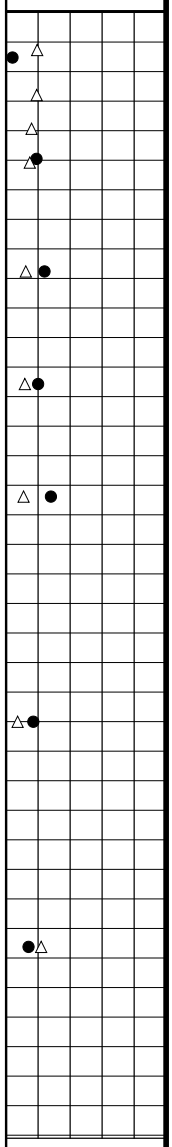
PROJECT NO.: 10534 **DATE:** May 27, 2019
PROJECT: Proposed Midrise Development

CLIENT: 2560517 Ontario Inc. c/o Evans Planning Inc.
LOCATION: 18-24 Elizabeth Street North, Brampton, Ontario
ELEVATION (M): 216.49 Geodetic **CAVED AT DEPTH (M):** Open
WATER LEVEL DEPTH (M): Dry **DRILLING METHOD:** Solid Stem Augers
DRILLER: Terra Firma **DRILL RIG:** CME-75
LOGGED BY: Ken/Diponkar **REVIEWED BY:** Clement

LEGEND:
- SS - SPLIT SPOON
- AS - AUGER SAMPLE
- ST - SHELBY TUBE
- CS - CORE SAMPLE
- WATER LEVEL
- CAVED AT
- "N" BLOWS / 0.3 M
- M.C. NATURAL MOISTURE CONTENT (%)
- O.V.M ORGANIC VAPOUR MONITOR
- P.L. PLASTIC LIMIT (%)
- L.L. LIQUID LIMIT (%)



ELEV./ DEPTH (m)	SYMBOLS, SAMPLERS TEST DATA	DESCRIPTION	Moisture Content	STD PENETRATION TESTS BLOW COUNTS	STD PENETRATION TESTS "N" VALUE
0	1A	ASPHALTIC CONCRETE - 20 mm thick	19.4	3-2-2-2	4
	1B	GRANULAR FILL - 515 mm thick sand and gravel	19.1		
	2A	FILL - clayey silt, trace gravel, trace organics, brown, moist	15.9		
1	2B		14.8	4-9-10	19
		SANDY SILT TILL - some clay, trace gravel, brown, compact, moist			
2	3		12.3	7-11-13	24
3	4	CLAYEY SILT TILL - trace sand, trace gravel, brown, very stiff, moist	11.7	5-9-11	20
		-occasional shale fragments			
4	5		10.9	7-10-18	28
5	6	-beocming greyish brown	7.2	6-8-9	17
6	7	CLAYEY SILT - trace gravel, grey, stiff, moist	21.9	4-6-8	14
7		End of Borehole at Targeted Depth; Borehole Was Open and Dry Upon Completion of Drilling.			



Notes:

This information pertains only to this borehole and should not be interpreted as being indicative of the site.

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ENCLOSURE 5
PAGE 1 OF 2

BOREHOLE LOG

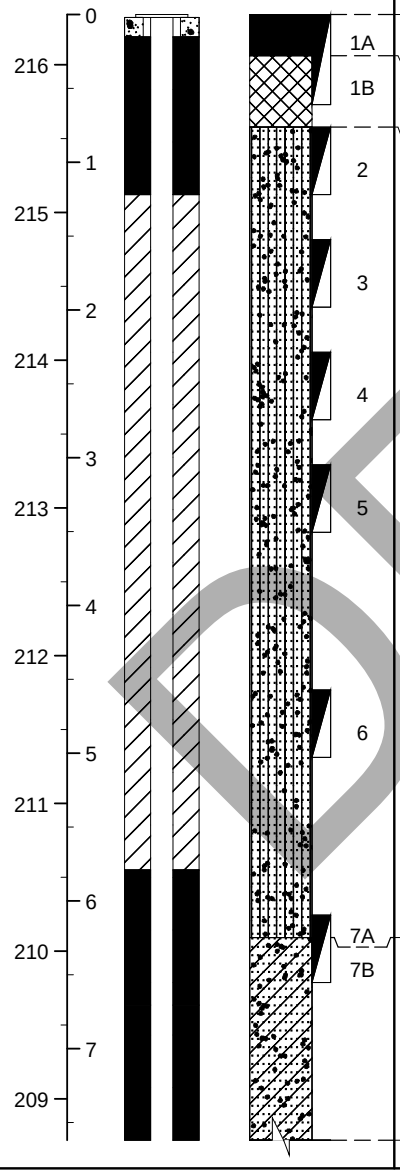
BOREHOLE NO.: 4

SOLA ENGINEERING

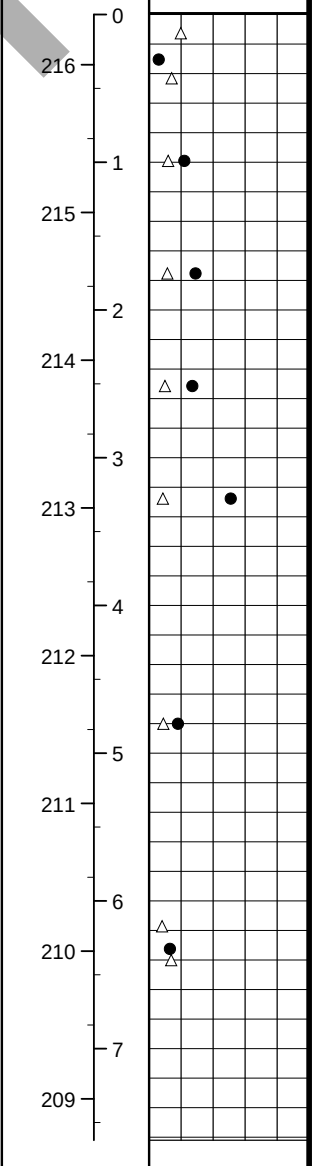
PROJECT NO.: 10534 **DATE:** May 28, 2019
PROJECT: Proposed Midrise Development

CLIENT: 2560517 Ontario Inc. c/o Evans Planning Inc.
LOCATION: 18-24 Elizabeth Street North, Brampton, Ontario
ELEVATION (M): 216.34 Geodetic **CAVED AT DEPTH (M):** Open
WATER LEVEL DEPTH (M): 9.02 **DRILLING METHOD:** Solid Stem Augers
DRILLER: Terra Firma **DRILL RIG:** CME-75
LOGGED BY: Ken/Diponkar **REVIEWED BY:** Clement

LEGEND:
- SS - SPLIT SPOON
- AS - AUGER SAMPLE
- ST - SHELBY TUBE
- CS - CORE SAMPLE
- WATER LEVEL
- CAVED AT
- "N" BLOWS / 0.3 M
- M.C. NATURAL MOISTURE CONTENT (%)
- O.V.M ORGANIC VAPOUR MONITOR
- P.L. PLASTIC LIMIT (%)
- L.L. LIQUID LIMIT (%)



ELEV./ DEPTH (m)	SYMBOLS, SAMPLERS TEST DATA	DESCRIPTION	Moisture Content	STD PENETRATION TESTS BLOW COUNTS	STD PENETRATION TESTS "N" VALUE
	1A	TOPSOIL - 280 mm thick	19.8		
	1B	FILL - sandy silt, trace gravel, some clay, trace organics, trace rootlets, brown, moist	14.1	1-2-4-5	6
	2	SANDY SILT TILL - trace gravel, trace clay, brown, compact to very dense, moist	11.9	6-10-12	22
	3		11.4	9-14-15	29
	4		9.9	7-11-16	27
	5	-occasional inferred cobble	8.6	14-21-30	51
	6	-trace to some clay, occasional inferred cobble	8.9	7-8-10	18
		- auger grinding			
	7A		8.1		
	7B	CLAYEY SILT TILL - trace gravel, trace sand, occasional inferred cobble, grey, stiff, moist	13.8	5-6-7	13



Notes: * 50 blows for less than (or equal to) 15 cm spoon penetration during SPT Seating Drive

This information pertains only to this borehole and should not be interpreted as being indicative of the site.

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BOREHOLE LOG

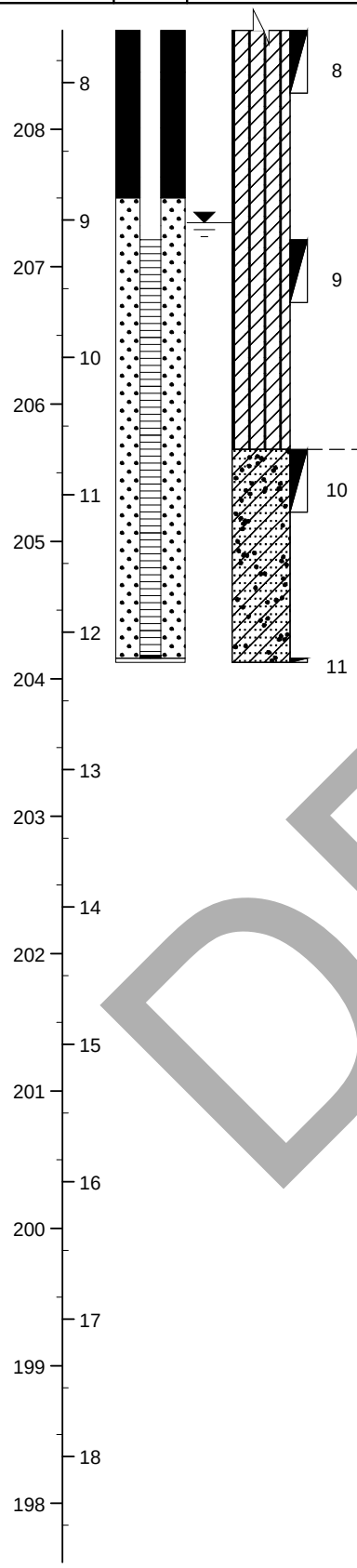
BOREHOLE NO.: 4

SOLA ENGINEERING

ENCLOSURE 5
PAGE 2 **OF** 2
PROJECT: Proposed Midrise Development

PROJECT NO.: 10534

ELEV./ DEPTH (m)	WELL/ PIEZO. DETAIL	SYMBOLS, SAMPLERS TEST DATA	DESCRIPTION	Moisture Content	STD PENETRATION TESTS BLOW COUNTS	STD PENETRATION TESTS "N" VALUE	ELEV./ DEPTH (m)	P.L.-L.L. △ M.C. ● "N" Value 20 40 60 80
			CLAYEY SILT - trace gravel, grey, stiff, very moist	21.7	5-6-7	13		
				14.5	6-7-7	14		
			CLAYEY SILT TILL - trace gravel, trace sand, occasional inferred cobble and shale fregments, grey to reddish grey, hard, moist - auger grinding	15.2	10-17-31	48		
			End of Borehole at Targeted Depth; Water at 9.02 m Below Ground Surface; Borehole Open Upon Completion of Drilling.		50/3cm	50/ 3cm*		



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ENCLOSURE 6
PAGE 1 OF 2

BOREHOLE LOG

BOREHOLE NO.: 5

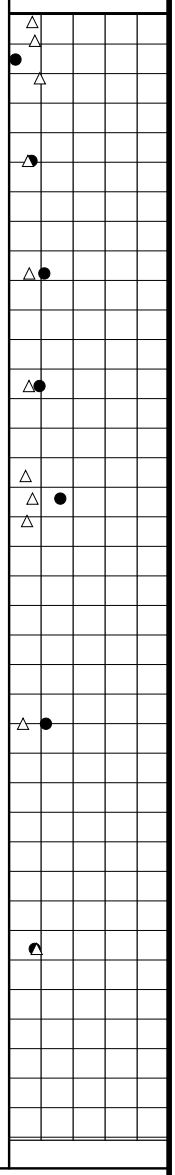
SOLA ENGINEERING

PROJECT NO.: 10534 **DATE:** May 27, 2019
PROJECT: Proposed Midrise Development

CLIENT: 2560517 Ontario Inc. c/o Evans Planning Inc.
LOCATION: 18-24 Elizabeth Street North, Brampton, Ontario
ELEVATION (M): 215.97 Geodetic **CAVED AT DEPTH (M):** Open
WATER LEVEL DEPTH (M): Dry **DRILLING METHOD:** Solid Stem Augers
DRILLER: Terra Firma **DRILL RIG:** CME-75
LOGGED BY: Ken/Diponkar **REVIEWED BY:** Clement

LEGEND:
- SS - SPLIT SPOON
- AS - AUGER SAMPLE
- ST - SHELBY TUBE
- CS - CORE SAMPLE
- WATER LEVEL
- CAVED AT
- "N" BLOWS / 0.3 M
- M.C. NATURAL MOISTURE CONTENT (%)
- O.V.M ORGANIC VAPOUR MONITOR
- P.L. PLASTIC LIMIT (%)
- L.L. LIQUID LIMIT (%)

ELEV./ DEPTH (m)	WELL/ PIEZO. DETAIL	SYMBOLS, SAMPLERS TEST DATA	DESCRIPTION	Moisture Content	STD PENETRATION TESTS BLOW COUNTS	STD PENETRATION TESTS "N" VALUE
0		1A	TOPSOIL - 100 mm thick	14.5		
		1B	FILL - sand and gravel, dark brown, moist	16.1	2-2-2-2	4
		1C		19.2		
215 1		2	FILL - clayey silt, trace gravel, trace organics, brown, moist	11.8	3-6-8	14
			SANDY SILT - some clay, trace gravel, brown, compact, moist			
214 2		3	SANDY SILT TILL - trace gravel, trace clay, brown, compact to dense, moist	12.6	6-10-12	22
		4		12.4	5-8-11	19
213 3		5A	SILTY SAND - trace gravel, brown, dense, moist	10.3		
		5B		14.6	5-16-16	32
		5C		11.2		
212 4			SANDY SILT TILL - trace to some clay, trace gravel, brown, compact to dense, moist			
			- auger grinding			
211 5		6		8.7	8-12-11	23
210 6		7	CLAYEY SILT TILL - trace gravel, trace sand, grey, stiff to very stiff, moist	17.2	3-6-10	16
209 7						



Notes: - Borehole moved 1.2 m towards main road after auger refusal at 4.3 m below existing ground surface.

This information pertains only to this borehole and should not be interpreted as being indicative of the site.

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BOREHOLE LOG

BOREHOLE NO.: 5

SOLA ENGINEERING

ENCLOSURE 6
PAGE 2 **OF** 2
PROJECT: Proposed Midrise Development

PROJECT NO.: 10534

ELEV./ DEPTH (m)	WELL/ PIEZO. DETAIL	SYMBOLS, SAMPLERS TEST DATA	DESCRIPTION	Moisture Content	STD PENETRATION TESTS BLOW COUNTS	STD PENETRATION TESTS "N" VALUE	ELEV./ DEPTH (m)	P.L.-L.L. / M.C. / "N" Value 20 40 60 80
208 – 8							208 – 8	
207 – 9							207 – 9	
		8		16.3	3-5-8	13		
206 – 10			End of Borehole at Targeted Depth; Borehole Open and Dry Upon Completion of Drilling.				206 – 10	
205 – 11							205 – 11	
204 – 12							204 – 12	
203 – 13							203 – 13	
202 – 14							202 – 14	
201 – 15							201 – 15	
200 – 16							200 – 16	
199 – 17							199 – 17	
198 – 18							198 – 18	

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ENCLOSURE 7
PAGE 1 OF 2

BOREHOLE LOG

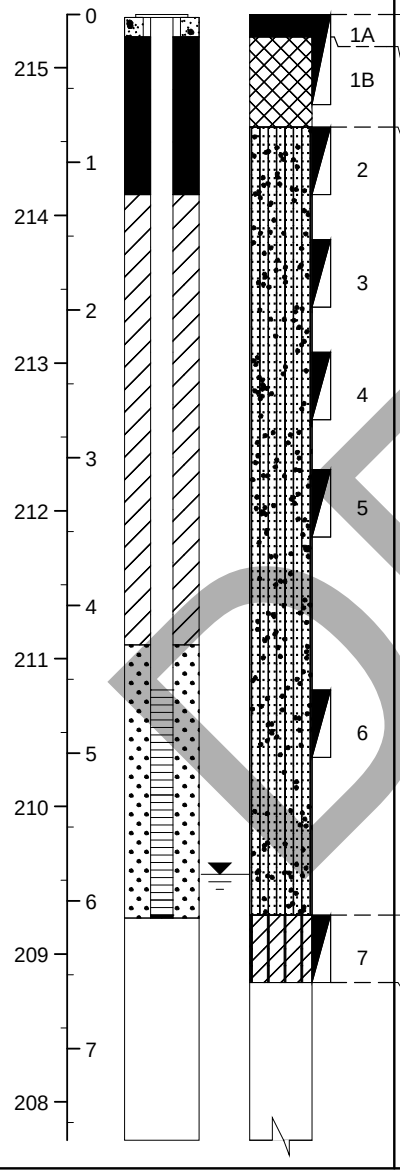
BOREHOLE NO.: 6

SOLA ENGINEERING

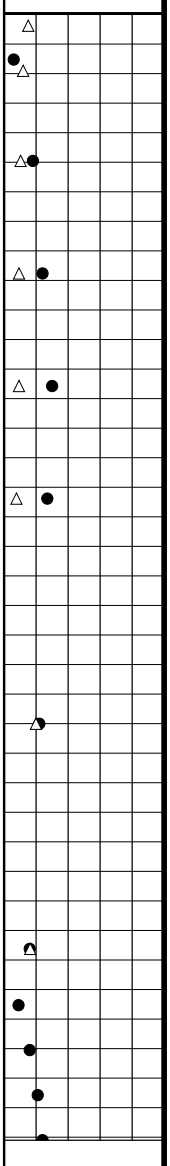
PROJECT NO.: 10534 **DATE:** May 28, 2019
PROJECT: Proposed Midrise Development

CLIENT: 2560517 Ontario Inc. c/o Evans Planning Inc.
LOCATION: 18-24 Elizabeth Street North, Brampton, Ontario
ELEVATION (M): 215.36 Geodetic **CAVED AT DEPTH (M):** Open
WATER LEVEL DEPTH (M): 5.82 **DRILLING METHOD:** Solid Stem Augers
DRILLER: Terra Firma **DRILL RIG:** CME-75
LOGGED BY: Ken/Diponkar **REVIEWED BY:** Clement

LEGEND:
- SS - SPLIT SPOON
- AS - AUGER SAMPLE
- ST - SHELBY TUBE
- CS - CORE SAMPLE
- WATER LEVEL
- CAVED AT
- "N" BLOWS / 0.3 M
- M.C. NATURAL MOISTURE CONTENT (%)
- O.V.M ORGANIC VAPOUR MONITOR
- P.L. PLASTIC LIMIT (%)
- L.L. LIQUID LIMIT (%)



ELEV./ DEPTH (m)	SYMBOLS, SAMPLERS TEST DATA	DESCRIPTION	Moisture Content	STD PENETRATION TESTS BLOW COUNTS	STD PENETRATION TESTS "N" VALUE
215.36	1A	TOPSOIL - 150 mm thick	15.1		
215.25	1B	FILL - sandy silt, trace gravel, trace clay, trace rootlets, brown, moist	11.9	1-2-4-5	6
214.36	2	SANDY SILT TILL - trace gravel, trace clay, occasional inferred cobble, brown, compact, moist	10.3	5-7-11	18
213.36	3		9.3	7-10-14	24
212.36	4		9.3	9-13-17	30
211.36	5		7.7	9-11-16	27
210.36	6	-becoming grey, some clay	19.9	5-12-10	22
209.36	7	CLAYEY SILT - trace gravel, grey, very stiff, moist	16.3	4-6-10	16
		DCPT Begins			9
					16
					21



Notes:

This information pertains only to this borehole and should not be interpreted as being indicative of the site.

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ENCLOSURE 7
PAGE 2 OF 2

BOREHOLE LOG

BOREHOLE NO.: 6

SOLA ENGINEERING

PROJECT: Proposed Midrise Development

PROJECT NO.: 10534

ELEV./ DEPTH (m)	WELL/ PIEZO. DETAIL	SYMBOLS, SAMPLERS TEST DATA	DESCRIPTION	Moisture Content	STD PENETRATION TESTS BLOW COUNTS	STD PENETRATION TESTS "N" VALUE	ELEV./ DEPTH (m)	P.L.-L.L. M.C. "N" Value 20 40 60 80
						24		
8						32	8	
207						30	207	
						36		
9						28	9	
						44		
206						36	206	
						57		
10						35	10	
205						54	205	
						57		
11			DCPT Ends Vane Shear Test At 6.71 m below ground surface; Undrained Shear Strength Intact = 250+ kPa End of Borehole at Targeted Depth; Water at 5.82 m Below Existing Ground Surface; Borehole Open Upon Completion of Drilling.				11	
204							204	
12							12	
203							203	
13							13	
202							202	
14							14	
201							201	
15							15	
200							200	
16							16	
199							199	
17							17	
198							198	
18							18	
197							197	

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ENCLOSURE 8
PAGE 1 OF 2

BOREHOLE LOG

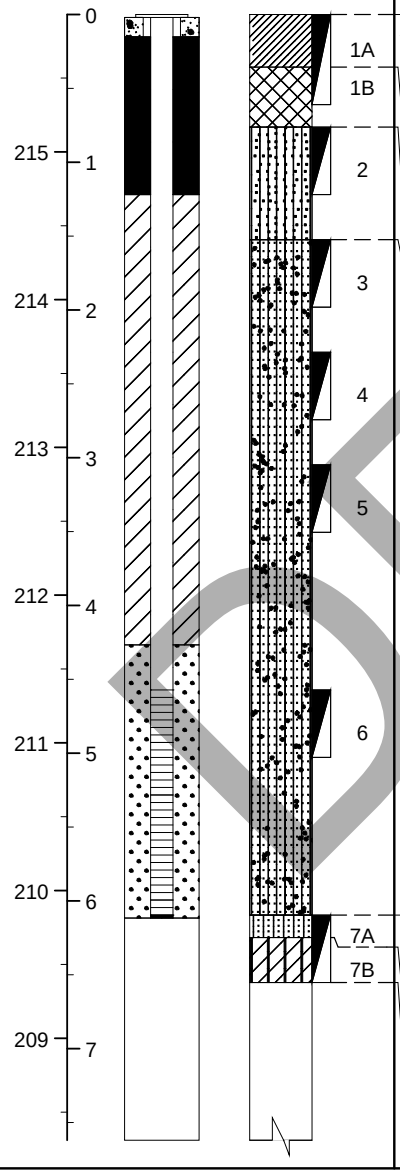
BOREHOLE NO.: 7

SOLA ENGINEERING

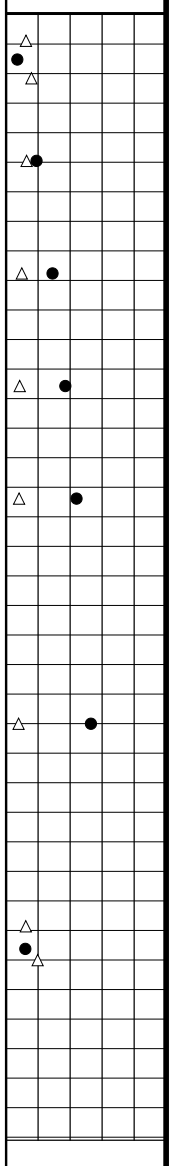
PROJECT NO.: 10534 **DATE:** May 28, 2019
PROJECT: Proposed Midrise Development

CLIENT: 2560517 Ontario Inc. c/o Evans Planning Inc.
LOCATION: 18-24 Elizabeth Street North, Brampton, Ontario
ELEVATION (M): 215.93 Geodetic **CAVED AT DEPTH (M):** Open
WATER LEVEL DEPTH (M): Dry **DRILLING METHOD:** Solid Stem Augers
DRILLER: Terra Firma **DRILL RIG:** CME-75
LOGGED BY: Ken/Diponkar **REVIEWED BY:** Clement

LEGEND:
- SS - SPLIT SPOON
- AS - AUGER SAMPLE
- ST - SHELBY TUBE
- CS - CORE SAMPLE
- WATER LEVEL
- CAVED AT
- "N" BLOWS / 0.3 M
- M.C. NATURAL MOISTURE CONTENT (%)
- O.V.M ORGANIC VAPOUR MONITOR
- P.L. PLASTIC LIMIT (%)
- L.L. LIQUID LIMIT (%)



ELEV./ DEPTH (m)	SYMBOLS, SAMPLERS TEST DATA	DESCRIPTION	Moisture Content	STD PENETRATION TESTS BLOW COUNTS	STD PENETRATION TESTS "N" VALUE
0	1A	ASPHALTIC CONCRETE - 55 mm thick	12.4	0-3-4-4	7
	1B	GRANULAR FILL - 300 mm thick sand and gravel	15.8		
215 / 1	2	FILL - sandy silt, trace gravel, trace clay, trace organics, dark brown, moist	12.8	3-7-12	19
		SANDY SILT - trace clay, brown, compact, moist			
214 / 2	3	SANDY SILT TILL - trace gravel, trace clay, brown, compact to very dense, moist	9.8	6-12-17	29
	4		8.5	9-14-23	37
213 / 3	5		8.1	9-19-25	44
212 / 4					
211 / 5	6	- some clay, occasional shale fragments	7.8	12-40-13	53
210 / 6	7A	SILTY SAND - trace gravel, grey, compact, moist	12.3	6-4-8	12
	7B		19.7		
		CLAYEY SILT - grey, stiff, moist		12	
209 / 7		DCPT Begins		9	
				21	



Notes:

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This information pertains only to this borehole and should not be interpreted as being indicative of the site.

BOREHOLE LOG

BOREHOLE NO.: 7

SOLA ENGINEERING

ENCLOSURE 8
PAGE 2 **OF** 2
PROJECT: Proposed Midrise Development

PROJECT NO.: 10534

ELEV./ DEPTH (m)	WELL/ PIEZO. DETAIL	SYMBOLS, SAMPLERS TEST DATA	DESCRIPTION	Moisture Content	STD PENETRATION TESTS BLOW COUNTS	STD PENETRATION TESTS "N" VALUE	ELEV./ DEPTH (m)	P.L.-L.L. △ M.C. ● "N" Value 20 40 60 80
208 – 8					40		208 – 8	
					56			
					75			
					68			
207 – 9					73		207 – 9	
					70			
					66			
206 – 10					60		206 – 10	
					65			
					75			
					75			
205 – 11					100		205 – 11	
			DCPT Ends Vane Shear Test At 6.10 m bgs; Undrained Shear Strength Intact = 250+ kPa End of Borehole at Targeted Depth; Borehole Open and Dry Upon Completion of Drilling.					
204 – 12							204 – 12	
203 – 13							203 – 13	
202 – 14							202 – 14	
201 – 15							201 – 15	
200 – 16							200 – 16	
199 – 17							199 – 17	
198 – 18							198 – 18	

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ENCLOSURE 9
PAGE 1 OF 2

BOREHOLE LOG

BOREHOLE NO.: 8

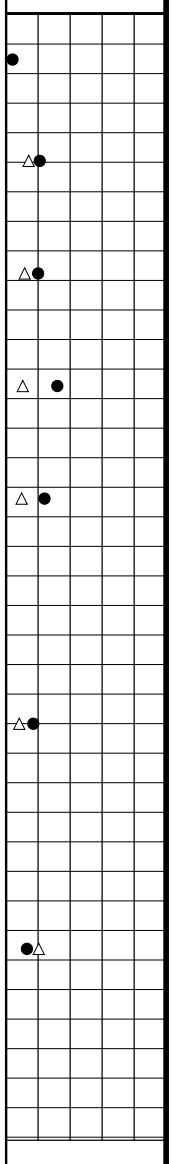
SOLA ENGINEERING

PROJECT NO.: 10534 **DATE:** May 28, 2019
PROJECT: Proposed Midrise Development

CLIENT: 2560517 Ontario Inc. c/o Evans Planning Inc.
LOCATION: 18-24 Elizabeth Street North, Brampton, Ontario
ELEVATION (M): 215.73 Geodetic **CAVED AT DEPTH (M):** 5.79
WATER LEVEL DEPTH (M): Dry **DRILLING METHOD:** Solid Stem Augers
DRILLER: Terra Firma **DRILL RIG:** CME-75
LOGGED BY: Ken/Diponkar **REVIEWED BY:** Clement

LEGEND:
- SS - SPLIT SPOON
- AS - AUGER SAMPLE
- ST - SHELBY TUBE
- CS - CORE SAMPLE
- WATER LEVEL
- CAVED AT
- "N" BLOWS / 0.3 M
- M.C. NATURAL MOISTURE CONTENT (%)
- O.V.M ORGANIC VAPOUR MONITOR
- P.L. PLASTIC LIMIT (%)
- L.L. LIQUID LIMIT (%)

ELEV./ DEPTH (m)	WELL/ PIEZO. DETAIL	SYMBOLS, SAMPLERS TEST DATA	DESCRIPTION	Moisture Content	STD PENETRATION TESTS BLOW COUNTS	STD PENETRATION TESTS "N" VALUE
215.73 / 0		1A	CONCRETE - 150 mm thick			
		1B	FILL - sandy silt, some clay, trace rootlets, occasional wood fragments, dark brown, moist		0-2-2-4	4
215 / 1		2	SANDY SILT TILL - trace gravel, trace clay, brown, compact to dense, moist	14.1	9-10-11	21
214 / 2		3		11.6	7-9-11	20
213 / 3		4		10.4	8-14-18	32
		5	- becoming brownish grey	9.7	6-11-13	24
212 / 4						
211 / 5		6	- occasional inferred cobble and shale fragments	8.2	6-8-9	17
210 / 6	1					
		7	CLAYEY SILT - grey, stiff, moist	20.4	3-5-8	13
209 / 7			Vane Shear Test At 6.86 m bgs; Undrained Shear Strength Intact = 250+ kPa End of Borehole at Targeted Depth; Cave at 5.79 m Below Existing Ground Surface;			



Notes:

This information pertains only to this borehole and should not be interpreted as being indicative of the site.

DRAFT

ENCLOSURE 9
PAGE 2 OF 2

BOREHOLE LOG

BOREHOLE NO.: 8

SOLA ENGINEERING

PROJECT: Proposed Midrise Development

PROJECT NO.: 10534

ELEV./ DEPTH (m)	WELL/ PIEZO. DETAIL	SYMBOLS, SAMPLERS TEST DATA	DESCRIPTION	Moisture Content	STD PENETRATION TESTS BLOW COUNTS	STD PENETRATION TESTS "N" VALUE	ELEV./ DEPTH (m)	P.L.-L.L. M.C. "N" Value 20 40 60 80
208			Borehole Was Dry Upon Completion of Drilling.				208	
8							8	
207							207	
9							9	
206							206	
10							10	
205							205	
11							11	
204							204	
12							12	
203							203	
13							13	
202							202	
14							14	
201							201	
15							15	
200							200	
16							16	
199							199	
17							17	
198							198	
18							18	
197							197	

DRAFT

KEY TO SYMBOLS

Symbol	Description
Strata symbols	
	Topsoil
	Fill
	Sandy silt
	Sandy silt till
	Clayey silt
	Pavement
	Clayey silt till
	Silty sand

Symbol	Description
	Blank
Misc. Symbols	
	Natural Moisture Content
	Borehole Continues
	Water Level
1	Borehole Caved At
Soil Samplers	
	Split Spoon

DRAFT

Notes:

Terms describing RELATIVE DENSITY, based on Standard Penetration Test "N"-Value for COURSE GRAINED soils (major portion retained on No. 200 sieve).

DESCRIPTIVE TERM ["N"-Value (blows/0.3m), Relative Density (%)]

- **Very Loose [less than 4, less than 15]**
- **Loose [4 to 10, 15 to 35]**
- **Compact or Medium [10 to 30, 35 to 65]**
- **Dense [30 to 50, 65 to 85]**
- **Very Dense [greater than 50, greater than 85]**

Terms describing CONSISTENCY, based on Standard Penetration Test "N"-Value for FINE GRAINED soils (major portion passing No. 200 sieve)

DESCRIPTIVE TERM [Unconfined Compressive Strength (kPa), "N"-Value (blows/0.3m)]

Very Soft [less than 25, less than 2]
Soft [25 to 50, 2 to 4]
Firm [50 to 100, 4 to 8]
Stiff [100 to 200, 8 to 15]
Very Stiff [200 to 400, 15 to 30]
Hard [greater than 400, greater than 30]

KEY TO SYMBOLS

Symbol **Description**

Monitor Well Details

Flush-mount Cover

Protective Casing Set in Concrete

Bentonite Slurry

Assorted Cuttings

Silica sand, Blank PVC

Slotted Pipe w/ Sand

Endcap on Pipe Packed in Sand

End of Well Installation

DRAFT

ID No.: BH301-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/19/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

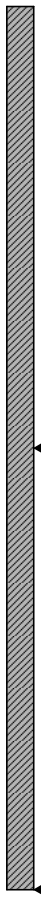
Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)
		Ground Surface	211.9						
0 / 0		**ASPHALTIC CONCRETE** 150mm	0.0	1	SS	83	EC, SAR, PCBs, PHCs, BTEX	0	5
2		**FILL** Brown sand and gravel, some silt, wet							
4		Brown silt, trace sand, gravel, and organics, very moist to wet		2	SS	88	Metals, As, Sb, Se, EC, SAR, pH, PHCs, BTEX	0	10
6 / 2				3	SS	71	Metals, As, Sb, Se, EC, SAR, PAHs, PHCs, BTEX	0	10
			209.6 / 2.3						
8		Brown sand and silt, trace gravel, wet		4	SS	54	EC, SAR	0	0
			208.9 / 3.0						
10		**CLAYEY SILT TILL** Grey clayey silt, trace sand and gravel, mosit		5	SS	67	EC, SAR, pH	0	15
12 / 4									
14			207.3 / 4.6						
16		**SHALE** Red shale with grey seams, damp		6	SS	63		0	20
18									
20 / 6			205.7 / 6.2	7	SS	12.5		0	15
		Drilling Terminated							
22									
24									

Well Completion Details



Borehole dry upon drilling completion

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

Sheet: 1 of 1

ID No.: MW302-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/19/2022

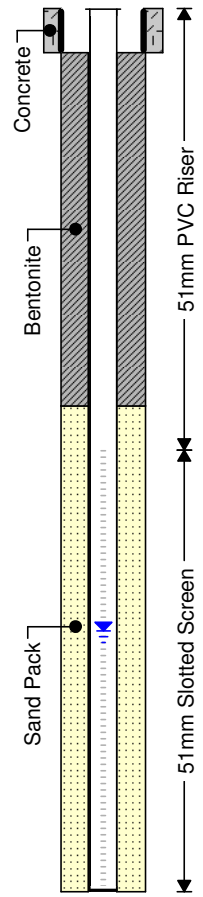
Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: Flushmount Casing

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	212.9							
		ASPHALT 150mm	0.0	1	SS	83	Metals, As, Sb, Se, EC, SAR, PCBs, PAHs, PHCs, BTEX	0	10	
		FILL Brown sand and gravel, some silt, wet								
		Brown silt, trace to some sand, trace gravel, organics, and brick fragments, wet		2	SS	46	Metals, As, Sb, Se	0	0	
				3	SS	50	Metals, As, Sb, Se, EC, SAR, PAHs, PHCs, BTEX	0	0	
				4	SS	63	Metals, As, Sb, Se, EC, SAR, PHCs, BTEX	0	15	
		Brown/grey sand and silt, trace gravel, wet	209.5 / 3.4	5	SS	83	Metals, As, Sb, Se, EC, SAR, PAHs, PHCs, BTEX	0	0	
		CLAYEY SILT TILL Grey clayey silt, trace sand and gravel, dry	208.3 / 4.6	6	SS	96		0	0	
		SHALE Red shale	206.8 / 6.1	7	SS	33		0	15	
		Drilling Terminated	206.5 / 6.4							



Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

Groundwater Level: 4.36m bgs (208.54m asl) (25 March 2022)

Sheet: 1 of 1

ID No.: BH304-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/7/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	214.5							
		FILL Light brown sand and gravel, trace silt, very moist	0.0	1	SS	42	Metals, As, Se, Sb, B-HWS, CN-, Hg, EC, SAR, PHCs, BTEX	0	0	
		SILT TILL Brown silt, trace sand and gravel, moist		2	SS	88		0	0	
				3	SS	100	Metals, As, Se, Sb, PHCs, BTEX	0	0	Bentonite
				4	SS	96		0	0	
		CLAYEY SILT TILL Grey clayey silt, trace sand and gravel, dry	211.1 3.4	5	SS	83	Metals, As, Se, Sb, EC, SAR, PHCs, BTEX	0	0	
				6	SS	88		0	0	
				7	SS	100		0	0	
			206.9 7.6							

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

ID No.: BH304-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/7/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
26 – 8		**SILTY SAND** Reddish grey silty sand, trace gravel, saturated	206.3	8	SS	92		4	0	Wet Cave
28		**SHALE** Red shale with grey seams	8.2 / 205.4	9	GS	N/A		0	0	
30		Drilling Terminated	9.1							
32 – 10										
34										
36										
38 – 12										
40										
42										
44										
46 – 14										
48										
50										

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

Sheet: 2 of 2

ID No.: BH305-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/7/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	214.5							
		FILL Brown sand and gravel, trace silt, moist	0.0	1	SS	58	Metals, As, Sb,Se, PAHs, PHCs, BTEX	0	0	
		Brown silt, some sand, trace gravel and brick fragments, moist	213.7							
		SILT TILL Brown silt, some sand, trace gravel, moist	0.8	2	SS	75	Metals, As, Sb,Se, EC, SAR, PAHs, PHCs, BTEX	0	0	
				3	SS	92		0	20	Bentonite
				4	SS	96	Metals, As, Sb,Se, EC, SAR, PHCs, BTEX	0	5	
		CLAYEY SILT TILL Grey clayey silt, some gravel, trace sand, damp	211.1 3.4	5	SS	88		0	0	
				6	SS	83	Metals, As, Sb, Se, PHCs, BTEX	0	0	
				7	SS	100		0	0	
			206.9 7.6							

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

ID No.: BH305-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/7/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile				Sample							Well Completion Details
Depth		Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
26	8		**SHALE** Red shale with grey seams		8	SS	75		0	0	
28											
30				205.4 9.1	9	GS			0	0	Dry Cave
			Drilling Terminated								
32	10										
34											
36											
38											
40	12										
42											
44											
46	14										
48											
50											

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

ID No.: BH306-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/11/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	214.1							
		FILL Brown sand and gravel, trace silt, organics, and brick fragments, wet	0.0	1	SS	54	Metals, As, Sb, Se, pH, PAHs, PHCs, BTEX	0	0	
		Dark brown silt, some sand, trace gravel, organics, and brick fragments, wet	213.3							
		Brown sandy silt, trace gravel, black peat, and brick fragments, wet	0.8	2	SS	67	pH, PHCs, BTEX	0	0	
				3	SS	58	Metals, As, Sb, Se, pH, PAHs, PHCs, BTEX	0	0	
			212.0							
		Drilling Terminated	2.1							

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

Sheet: 1 of 1

ID No.: BH307-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/11/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	214.2							
		FILL Brown sand and gravel, trace silt and organics, wet	0.0							
		Dark brown to brown silt, some sand, trace gravel, organics, and brick fragments, wet		1	SS	67	Metals, As, Sb, Se, PHCs, BTEX	0	0	
				2	SS	69	Metals, As, Sb, Se, PAHs, PHCs, BTEX	0	0	Bentonite
				3	SS	58	Metals, As, Sb, Se, PHCs, BTEX	0	0	Dry Cave
			212.1							
		Drilling Terminated	2.1							

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

Sheet: 1 of 1

ID No.: BH308-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/11/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	214.0							
		FILL Brown sand and gravel, trace silt and organics, wet	0.0	1	SS	58	Metals, As, Sb, Se, EC, SAR, PAHs, PHCs, BTEX	0	15	
		Brown silt, trace sand, gravel, and brick fragments, wet	213.2							
		Brown sandy silt, trace gravel and organics, wet	0.8	2	SS	75	Metals, As, Sb, Se, PHCs, BTEX	0	0	
			212.5							
		Brown silt, trace sand, gravel, and organics (peat), very moist	1.5	3	SS	62	Metals, As, Sb, Se, EC, SAR, PCBs, OCs, PHCs, BTEX	0	0	
			211.9							
		Drilling Terminated	2.1							

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

Sheet: 1 of 1

ID No.: MW309-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/11/2022

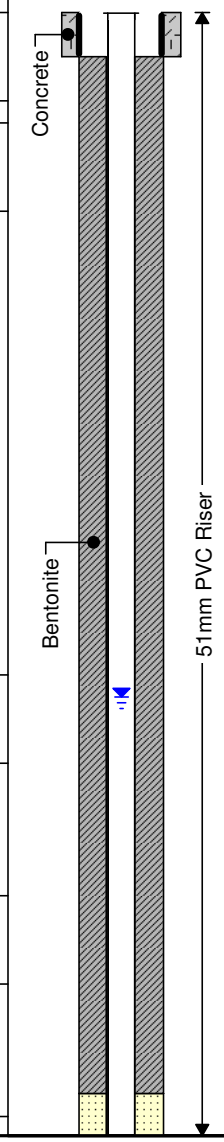
Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	215.3							
		FILL Brown sand and gravel, some silt and organics, wet	0.0	1	SS	33	Metals, As, Sb, Se	0	0	
			214.5							
		Dark brown sandy silt, trace gravel and organics, wet	0.8	2	SS	62	Metals, As, Sb, Se, EC, SAR, PHCs, BTEX	0	0	
			213.8							
		Brown silt, trace to some sand and organics, very moist	1.5	3	SS	38	Metals, As, Sb, Se, PCBs, PAHs, BTEX			
				4	SS	50				
			212.3							
		SILT TILL Brown silt, some sand, trace gravel and clay, wet	3.0	5	SS	46	Metals, As, Sb, Se, PAHs, PHCs, BTEX			
			210.7							
		CLAYEY SILT TILL Grey clayey silt, trace sand and gravel, moist	4.6	6	SS	77		0	30	
				7	SS	92		0	0	
			207.7							
			7.6							



Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

Groundwater Level: 5.04m bgs (209.02m asl) (March 25, 2022)

ID No.: MW309-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/11/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth (m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
26 (8)		**SHALE** Red shale		8	SS	96		0	0	Sand Pack; 51mm Slotted Screen
28										
30			206.0 9.3	9	SS	4		0	10	
32 (10)										
34										
36										
38 (12)										
40										
42										
44										
46 (14)										
48										
50										

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

Groundwater Level: 5.04m bgs (209.02m asl) (March 25, 2022)

ID No.: MW310A-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/6/2022

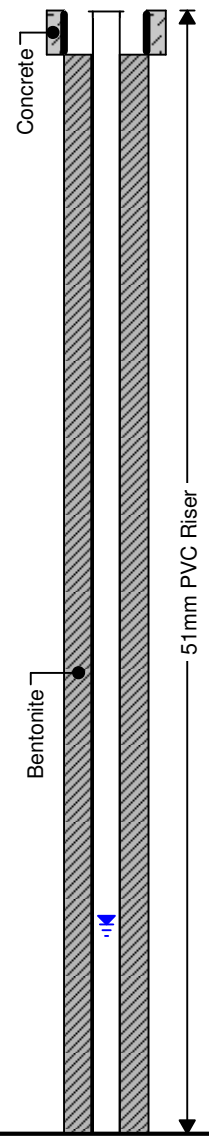
Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: Flushmount Casing

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		Ground Surface								
		FILL Brown sand and gravel, trace silt, very moist		1	SS	58	Metals, As, Sb, Se, B-HWS, CN-, Hg, EC, SAR, pH, PHCs, BTEX	0	0	
2		Dark brown sandy silt, some gravel and brick fragments, very moist	215.3 / 0.8							
		SILT TILL Mottled brown/grey silt, some sand, trace gravel and clay, moist		2	SS	75		0	0	
4										
6 / 2				3	SS	92	Metals, As, Sb, Se, pH, PHCs, BTEX	0	0	
8				4	SS	96		0	0	
10				5	SS	96		0	0	
12 / 4										
14			211.5 / 4.6							
		CLAYEY SILT TILL Grey clayey silt, some sand, trace gravel, moist		6	SS	92		0	0	
16										
18										
20 / 6				7	SS	96	Metals, As, Sb, Se, EC, SAR, PHCs, BTEX	0	0	
22										
24										



Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

Groundwater Level: 6.45m bgs (209.69m asl) (March 25, 2022)

ID No.: MW310A-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

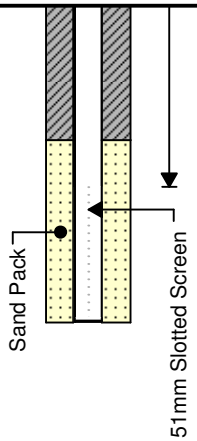
Date Completed: 1/6/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: Flushmount Casing

Subsurface Profile			Sample							Well Completion Details
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
26 – 8				8	SS	100		0	0	
28										
30			207.0							
		SHALE dense red shale with grey seams	9.1	9	SS	75	Metals, As, Sb, Se, PHCs, BTEX	0	0	
32 – 10		Drilling Terminated	206.3 9.8							
34										
36										
38 – 12										
40										
42										
44										
46 – 14										
48										
50										

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

Sheet: 2 of 2

Groundwater Level: 6.45m bgs (209.69m asl) (March 25, 2022)

ID No.: MW310B-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/6/2022

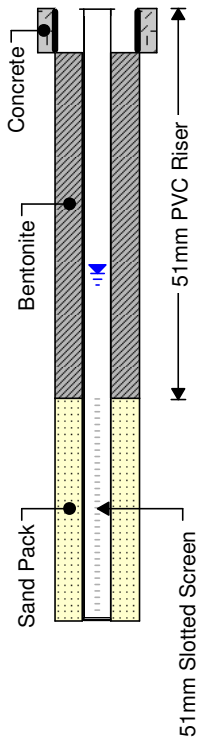
Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: Flushmount Casing

Subsurface Profile			Sample							Well Completion Details
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
ft / m		Ground Surface	216.1							
0 / 0		**FILL** dense brown sand and gravel, trace silt, very moist	0.0							
2		compact dark brown sandy silt, some gravel and brick fragments, very moist	215.3							
4		**SILT TILL** compact to dense mottled brown/grey silt, some sand, trace gravel and clay, moist	0.8							
6 / 2										
8										
10										
12										
14 / 4			211.9							
		Drilling Terminated	4.2							
16										
18										
20 / 6										
22										
24										



Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

Sheet: 1 of 1

Groundwater Level: 1.98m bgs (214.16m asl) (March 25, 2022)

Stratigraphy inferred from MW310A-22

ID No.: BH311-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/6/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	216.4							
		FILL Brown sand and gravel, wet	0.0	1	SS	46		0	0	
		Brown sandy silt, trace organics, wet	215.6							
		SILT TILL Brown silt, some sand, trace gravel and clay, very moist to moist	0.8	2	SS	79	Metals, As, Sb, Se, PHCs, BTEX	0	5	
				3	SS	79		0	0	Bentonite
				4	SS	83	Metals, As, Sb, Se, PHCs, BTEX	0	0	
				5	SS	96		0	0	
				6	SS	96	Metals, As, Sb, Se, PHCs, BTEX	0	0	
		CLAYEY SILT TILL Grey clayey silt, trace sand and gravel, moist	210.3 6.1	7	SS	83		0	0	

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

ID No.: BH311-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/6/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
26 – 8				8	SS	71		0	0	
28										
30			207.3							
		SILTY SAND Brown silty sand, trace gravel, moist	9.1 206.8	9	SS	83		0	0	
32 – 10		**SHALE** Red shale	9.6							
34										
36			205.1	10	SS	42		0	0	Dry Cave
38 – 12		Drilling Terminated	11.3							
40										
42										
44										
46 – 14										
48										
50										

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

ID No.: BH312-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/5/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	216.1							
		FILL Dark brown silt (topsoil), some sand, wet	0.0	1	SS		Metals, As, Sb, Se, B-HWS, Cn-, Hg, EC, SAR, OCs, PHCs, BTEX	0	0	
		Black ash, some glass and brick fragments, wet	215.6 / 0.5							
		SILT TILL Brown silt, some sand, trace to some gravel, very moist to moist		2	SS		Metals, As, Se, Sb, PHCs, BTEX	0	0	
				3	SS			0	0	Bentonite
				4	SS			0	0	
				5	SS			0	0	
		Grey	211.5 / 4.6	6	SS		Metals, As, Se, Sb, pH, PHCs, BTEX	0	0	
		CLAYEY SILT TILL Grey clayey silt, trace sand and gravel, mosit	210.0 / 6.1	7	SS			0	0	

Field Technician: DMG

Drafted by: ZXT

Reviewed by: KCL

MTE

ID No.: BH312-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/5/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
26	8			8	SS		Metals, As, Sb, Se, B-HWS, PHCs, BTEX	0	0	
28										
30		**SHALE** Red shale with grey seams	206.8 9.3	9	SS			0	0	
32	10									
34										
36				10	SS			0	0	
38				11	GS			0	0	
40	12	Drilling Terminated	203.9 12.2							
42										
44										
46	14									
48										
50										

Field Technician: DMG

Drafted by: ZXT

Reviewed by: KCL

MTE

ID No.: BH313-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/12/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Coring Casing Advance

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	216.6							
		FILL Dark brown sandy silt, trace gravel and organics, wet	0.0	1	SS	33	Metals, As, Sb, Se, OCs, PHCs, BTEX	0	0	
			215.8							
		SILT Brown/grey mottled silt, trace sand and gravel, very moist	0.8	2	SS	67	Metals, As, Sb, Se, PHCs, BTEX	0	10	Bentonite
			215.1							
		SILT TILL Brown silt, trace sand, gravel, and clay, very moist to moist	1.5	3	SS	54		0	5	
				4	SS	73	Metals, As, Sb, Se, EC, SAR, PHCs, BTEX	0	0	
				5	SS	83		0	0	
			212.0							
		CLAYEY SILT TILL Brey clayey silt, trace sand and gravel, moist	4.6	6	SS	79	Metals, As, Sb, Se, PHCs, BTEX	0	0	
				7	SS	23				

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

ID No.: BH313-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/12/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Coring Casing Advance

Protective Cover: N/A

Subsurface Profile				Sample							Well Completion Details
Depth		Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
26	8				8	SS	96		0	0	
28											
30					9	SS	83		0	0	
32	10										
34				205.9							
			SHALE	10.7	10	SS	38		0	0	
36			Red shale								
			core run 1, RQD = 32.6%								
38					11	RC					
40	12										
				204.0							
42			core run 2, RQD = 72.9%	12.6							
44					12	RC					
46	14			202.5							
			Drilling Terminated	14.1							
48											
50											

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

ID No.: MW314-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/5/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

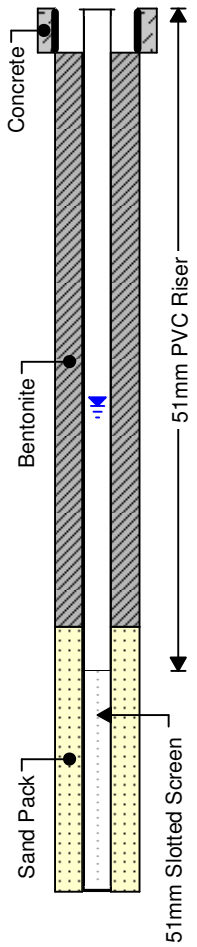
Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Depth (ft)	Depth (m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)
			Ground Surface	216.5						
0	0		**FILL** Dark brown silt (topsoil), some sand, wet Red/black/brown brick debris, some metal and wood fragments, very moist	0.0	1	SS	42	Metals, As, Sb, Se, PAHs Metals, As, Sb, Se, PCBs, PAHs, PHCs, BTEX	0	0
2			**SANDY SILT TILL** Brown sandy silt, some clay, trace gravel, very moist	215.7 0.8	2	SS	42	Metals, As, Sb, Se, PAHs, PHCs, BTEX	0	0
6	2				3	SS	75		0	0
8					4	SS	92		0	0
10					5	SS	92	Metals, As, Sb, Se, PHCs, BTEX	0	0
12	4									
14				211.9						
16			**CLAYEY SILT TILL** Grey clayey silt, trace to some sand and gravel, dry to moist	4.6	6	SS	92		0	0
18										
20	6				7	SS	92	Metals, As, Sb, Se, PHCs, BTEX	0	0
22				209.8						
			Drilling Terminated	6.7						
24										

Well Completion Details



Field Technician: DMG

Drafted by: ZXT

Reviewed by: KCL

Groundwater Level: 2.58m bgs (213.44m asl) (March 25, 2022)

Sheet: 1 of 1

ID No.: BH315-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/18/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		**FILL** Brown sand and gravel, some asphalt and concrete fragments, moist	217.3 / 0.3	1	SS	58	Metals, As, Sb, Se	0	0	Bentonite
2		Dark brown sandy silt, trace gravel and organics, very moist	216.8 / 0.8							
4		Brown silt, trace sand, gravel, and organics, very moist	216.1 / 1.5	2	SS	73	Metals, As, Sb, Se, EC, SAR, PHCs, BTEX	0	0	
6 / 2		**SILT TILL** Mottled brown silt, trace sand, gravel, and clay, very moist		3	SS	83		0	15	
8				4	SS	83	Metals, As, Sb, Se, PHCs, BTEX	0	0	
10				5	SS	100		0	0	
12 / 4			213.0 / 4.6							
16		**CLAYEY SILT TILL** Mottled grey/brown clayey silt, trace sand and gravel, moist		6	SS	100	PHCs, BTEX	0	15	
18										
20 / 6				7	SS	100	Metals, As, Sb, Se, PHCs, BTEX	0	5	
22										
24			210.0 / 7.6							

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

ID No.: BH315-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/18/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
26, 8		stiff		8	SS	88		0	0	
28										
30				9	SS	100		0	10	
32, 10, 34			206.9							
36		**SHALE** Red shale	10.7 / 206.3	10	SS	96	Metals, As, Sb. Se, B-HWS, PHCs, BTEX	0	0	
38, 12, 40, 42, 44, 46, 14, 48, 50		Drilling Terminated	11.3							

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

Sheet: 2 of 2

ID No.: BH316-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/13/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	216.5							
		FILL Dark brown sandy silt, trace gravel, organics, glass and brick fragments, wet	0.0	1	SS	67	Metals, As, Sb, Se, pH, PAHs, PHCs, BTEX	1	10	
			215.7							
		SILT TILL Brown silt, trace sand, gravel, and clay, very moist to moist	0.8	2	SS	83		0	15	
				3	SS	79	Metals, As, Sb, Se, pH, PHCs, BTEX	0	20	Bentonite
				4	SS	83		0	15	
				5	SS	71	Metals, As, Sb, Se, PHCs, BTEX	0	35	
			211.9							
		CLAYEY SILT TILL Grey clayey silt, trace sand and gravel, moist	4.6	6	SS	67	Metals, As, Sb, Se, PHCs, BTEX	0	10	Dry Cave
			211.3							
		Drilling Terminated	5.2							

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

Sheet: 1 of 1

ID No.: BH317-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/18/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	217.8							
		FILL Brown sand and gravel, trace silt, wet	0.0	1	SS	76	Metals, As, Sb, Se, EC, SAR, PHCs, BTEX	0	0	
		Dark brown sandy silt, trace sand and gravel, wet	217.0							
		Brown silt, trace sand, gravel, and organics, moist	0.8	2	SS	69	Metals, As, Sb, Se, PHCs, BTEX	0	0	
		SILT TILL Brown silt, trace sand, gravel, and clay, moist	216.3 / 1.5	3	SS	83	Metals, As, Sb, Se, EC, SAR, PHCs, BTEX	0	5	Bentonite
				4	SS	79		0	0	
				5	SS	50	PHCs, BTEX	0	10	
		CLAYEY SILT TILL Grey clayey silt, trace sand and gravel, moist	213.2 / 4.6	6	SS	79	Metals, As, Sb, Se, PHCs, BTEX	0	0	Dry Cave
		Drilling Terminated	212.6 / 5.2							

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

Sheet: 1 of 1

ID No.: BH318-22

Project Name: Phase Two ESA

MTE File No.: 46732-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/18/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	217.7							
		CONCRETE 50mm	0.0	1	SS	42	Metals. As, Sb, Se, EC, SAR, pH, OCs, PHCs, BTEX	0	0	
		FILL Dark brown sandy silt, trace gravel and organics, wet	216.9							
		Brown silt, trace sand, gravel, and organics (rootlets), very moist	0.8	2	SS	67	Metals, As, Sb, Se, PAHs, PHCs, BTEX	0	5	
		SILT TILL Mottled brown silt, trace sand, gravel, and clay, moist to very moist	216.2 / 1.5	3	SS	88		0	0	Bentonite
				4	SS	92	Metals, As, Sb, Se, PHCs, BTEX	0	10	
				5	SS	92	Metals, As, Sb, Se PHCs, BTEX	0	15	
			213.1							
		CLAYEY SILT TILL Grey clayey silt, trace sand and gravel, moist	4.6	6	SS	71		0	0	Dry Cave
			212.5							
		Drilling Terminated	5.2							

Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

MTE

Sheet: 1 of 1

ID No.: MW319-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/12/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

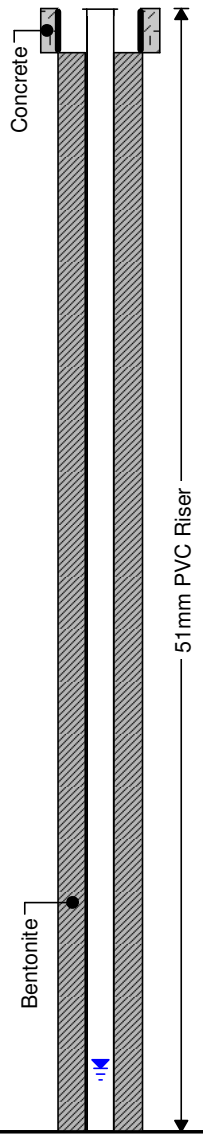
Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: Flushmount Casing

Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)
		Ground Surface	215.2						
0 / 0		**ASPHALTIC CONCRETE** 125mm	0.0	1	SS	50	Metals, As, Sb, Se, pH, PHCs, BTEX	0	0
2		**FILL** Brown sand and gravel, trace silt, very moist							
4		Brown silt, trace sand, gravel, and organics, very moist		2	SS	17	Metals, As, Sb, Se, EC, SAR, PHCs, BTEX	0	15
			213.7						
6 / 2		**SILT** Brown silt, trace sand and gravel, moist	1.5	3	SS	88	pH	0	0
			212.9						
8		**SILT TILL** Mottled brown silt, trace sand, gravel, and clay, moist	2.3	4	SS	92		0	0
10				5	SS	88	PHCs, BTEX	0	0
12 / 4									
14			210.6						
16		**CLAYEY SILT TILL** Grey clayey silt, trace sand and gravel, moist	4.6	6	SS	54	Metals, As, Sb, Se, PHCs, BTEX	0	0
18									
20 / 6				7	SS	33	PHCs, BTEX		
22									
24									

Well Completion Details



Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

Groundwater Levels: 6.87m bgs (209.14m asl) (March 25, 2022)

ID No.: MW319-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/12/2022

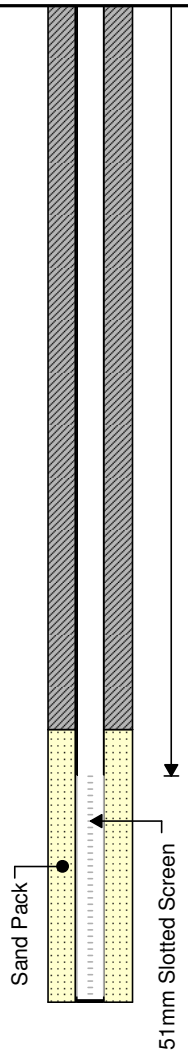
Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: Flushmount Casing

Subsurface Profile			Sample							Well Completion Details
Depth (m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
26, 8				8	SS	92		0	15	
28										
30				9	SS	96		0	15	
32, 10										
34			204.5							
36		**SHALE** Red shale with grey seams	10.7	10	SS	42		0	30	
38, 12				11	RC	N/A				
42										
44, 46, 14				12	RC	N/A				
			200.9							
48			14.3							
50										



Field Technician: HXS

Drafted by: ZXT

Reviewed by: KCL

Groundwater Levels: 6.87m bgs (209.14m asl) (March 25, 2022)

ID No.: MW320-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/4/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 ft / 0 m		**FILL** Brown/grey/black sandy silt, some clay, organics, brick, wood, and metal fragments, moist		1	SS	33	Metals, As, Sb, Se, B-HWS, Hg, pH, PAHs, PHCs, BTEX	0	0	Concrete
				2	SS	33		0	0	
		wet	215.8 / 1.5	3	SS	33	Metals, As, Sb, Se, PHCs, BTEX	0	0	
2 m		**SILT TILL** Brown silt, some sand and clay, trace gravel, very moist to moist	215.3 / 2.0	4	SS	50		0	0	
				5	SS	88	Metals, As, Sb, Se, EC, SAR, pH, PAHs, PHCs, BTEX	0	0	
4 m				6	SS	92		0	0	Bentonite
6 m		**CLAYEY SILT TILL** Grey clayey silt, trace to some sand, trace gravel, moist	211.2 / 6.1	7	SS	92		0	0	51mm PVC Riser
			209.7 / 7.6							

Field Technician: DMG

Drafted by: ZXT

Reviewed by: KCL

Groundwater Level: 7.39m bgs (207.82m asl) (March 25, 2022)

ID No.: MW320-22

Project Name: Phase Two ESA

MTE File No.: 46372-101

Client: Greenwin Corp.

Site Location: 18-24, 28 Elizabeth St N; 31-33 George St N, Brampton, ON

Date Completed: 1/4/2022

Drilling Contractor: Geo-Environmental Drilling Inc.

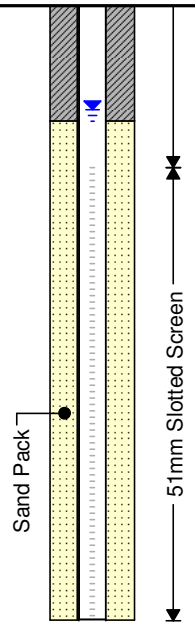
Drill Rig: LC 55

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)
26	8	wet		8	SS	100	Metals, As, Sb, Se, PHCs, BTEX	0	0
28									
30				9	SS	100		0	0
32	10	occasional shale fragments	207.5 9.8						
34			206.6						
36		**SHALE** Red highly weathered shale	10.7	10	SS	N/A		0	0
38			205.5	11	GS	N/A	Metals, As, Sb, Se, PHCs, VOCs	0	220
40	12	Drilling Terminated	11.8						
42									
44									
46	14								
48									
50									

Well Completion Details



Field Technician: DMG

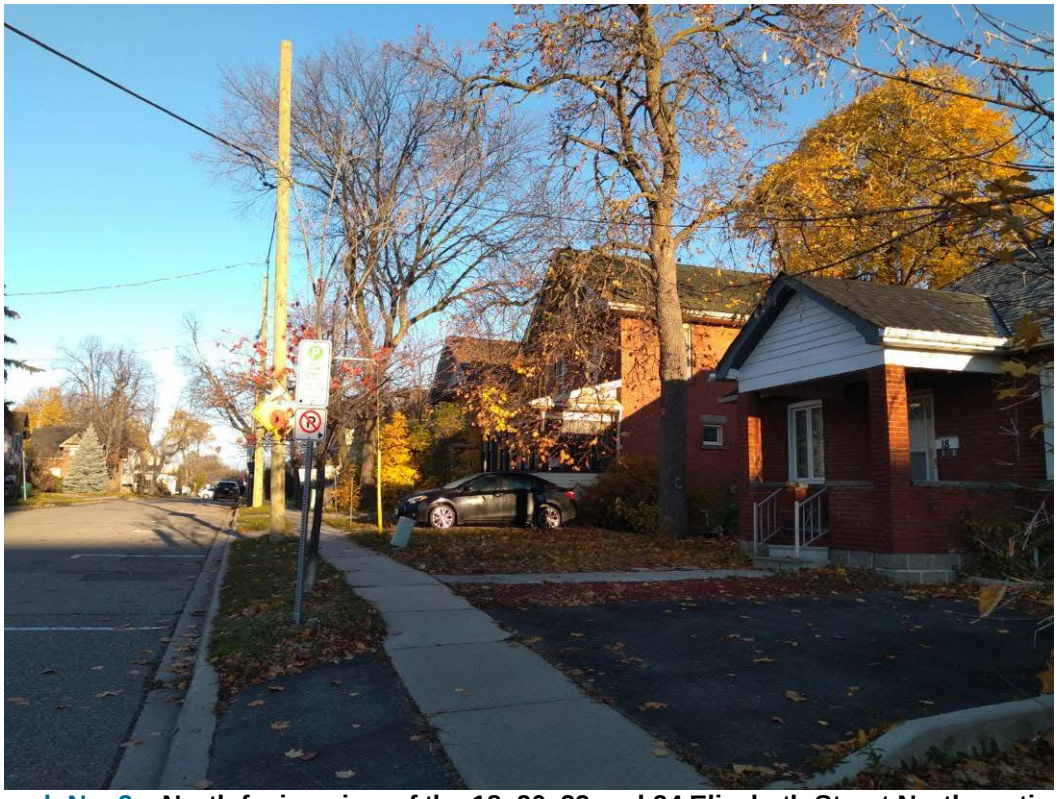
Drafted by: ZXT

Reviewed by: KCL

Groundwater Level: 7.39m bgs (207.82m asl) (March 25, 2022)

Photograph No. 1 – Northeast facing view of the 31 & 33 George Street North portion of the Site.

Photograph No. 2 – Northwest facing view of the 28 Elizabeth Street North portion of the Site.



Photograph No. 3 – North facing view of the 18, 20, 22 and 24 Elizabeth Street North portion of the Site.

Photograph No. 4 – North facing view of slope and forested area in the eastern portion of the Site.

Photograph No. 5 – South facing view of advancement of BH301-22.

Photograph No. 6 – View of typical stratigraphy encountered in the eastern portion of the Site. Fill material encountered at surface located closest to the viewer of this photo.

Photograph No. 7 – View of typical stratigraphy encountered in the western portion of the Site. Fill material encountered at surface located closest to the viewer of this photo.

Region of Peel
working with you

Public Works

10 Peel Centre Dr.
Suite B
Brampton, ON
L6T 4B9
tel: 905-791-7800

peelregion.ca

April 1, 2022

Kelvin Lee, P.Eng., M.Eng., QP_{ESA}
MTE Consultants Inc.
1016 Sutton Dr. Unit A,
Burlington, ON
L7L 6B8

Dear Mr. Lee,

Subject: Proposed Use of Non-Potable Groundwater Site Condition Standards
Location: 18, 20, 22, 24, 28 Elizabeth Street North and 31 & 33 George Street North, Brampton ON

Regional staff have reviewed your request to use MECP Non-Potable Groundwater Site Condition Standards for the above-noted lands.

Based on the submission received March 29, 2022, I am pleased to advise you that the Regional Municipality of Peel has no objection to the use of Non-Potable Groundwater Site Condition Standards for these lands. The owners shall maintain compliance with Ontario Regulation 153/04.

Please be advised that the Region of Peel will require a copy of the Record of Site Condition (RSC) and all supporting documents for review through the development application process as applicable.

Please call me directly at 905-791-7800, ext. 3036 if you have any questions or if you require any further information from Peel Region regarding this property.

Thank you,

Ryan Grzesiak, B.A.
Environmental Advisor
Public Works

c: John Hardcastle, Region of Peel
Harinder Singh, Region of Peel
Anthony Magnone, City of Brampton
Michael Heralall, City of Brampton

Spencer Buck

From: Cowan, Barry <barry.cowan@peelregion.ca>
Sent: Thursday, April 7, 2022 12:50 PM
To: Cowan, Barry
Subject: RE: Request for VOC samples - George st N, Nelson St., Main St, Queen st

---

From: ZZG-WaterQualityInquiries <zzg-waterqualityinquiries@peelregion.ca>
Sent: April 2, 2022 9:34 AM
To: Grzebinski, Michael <michael.grzebinski@peelregion.ca>; ZZG-WaterQualityInquiries <zzg-waterqualityinquiries@peelregion.ca>; Cowan, Barry <barry.cowan@peelregion.ca>; Dawson, Allen <allen.dawson@peelregion.ca>
Cc: Accardo, Alyssa <alyssa.accardo@peelregion.ca>; Smith, Lora <lora.smith@peelregion.ca>; ZZG-LabServices <zzg-labservices@peelregion.ca>
Subject: RE: Request for VOC samples - George st N, Nelson St., Main St, Queen st

Good morning,

Results are in and all 3 samples (BF and AF) indicate that the chloroform and total Trihalomethanes concentrations are representative of what we would expect to find in the South Peel distribution system. I don't have any concerns with the results.

Chloroform range: 9.16 – 10.8 ug/L
Total Trihalomethane range: 20.1 – 23.0 ug/L

Have a great weekend,

Stefan Ulman
Specialist, Water Quality & Compliance
Infrastructure Planning, Partnerships and Compliance
Water & Wastewater Divisions | Public Works
Region of Peel
T: 905-791-7800 ext. 8771

From: Grzebinski, Michael <michael.grzebinski@peelregion.ca>
Sent: Thursday, March 31, 2022 1:19:43 PM
To: ZZG-LabServices <zzg-labservices@peelregion.ca>; ZZG-WaterQualityInquiries <zzg-waterqualityinquiries@peelregion.ca>
Cc: Smith, Lora <lora.smith@peelregion.ca>; Ulman, Stefan <stefan.ulman@peelregion.ca>; Dawson, Allen <allen.dawson@peelregion.ca>; Accardo, Alyssa <alyssa.accardo@peelregion.ca>
Subject: RE: Request for VOC samples - George st N, Nelson St., Main St, Queen st

Hello,

FYI
We were only able to collect samples from 3 locations. The samples are now on the way to the lab.

27 George St N – HYD 2015332 – Hydrant not accessible, it has a Hydrant meter box over it.

8 Nelson St W – HYD 2015335 – sampled
27 Main St N – HYD 2015334 – sampled
33 Queen St W – HYD 6577680 – Hydrant has been removed for city hall's new walkway, so we changed it to 50 Queen st, but hydrant is on George st and ID is 2015333 – sampled

@ZZG-LabServices do you need the bottles back for 27 George st N ?

Thank you,

Michael Grzebinski
Foreperson – Water Distribution
Public Works
Region of Peel
2 Copper Road
Brampton, ON. L6T4W5
905-791-7800, ext 3220

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From: Grzebinski, Michael <michael.grzebinski@peelregion.ca>
Sent: March 30, 2022 4:53 PM
To: ZZG-WaterQualityInquiries <zzg-waterqualityinquiries@peelregion.ca>; ZZG-LabServices <zzg-labservices@peelregion.ca>
Cc: Smith, Lora <lora.smith@peelregion.ca>; Ulman, Stefan <stefan.ulman@peelregion.ca>; Dawson, Allen <allen.dawson@peelregion.ca>
Subject: Request for VOC samples - George st N, Nelson St., Main St, Queen st
Importance: High

Hello,

We are looking to get 4 locations sampled for VOC with parameters not just for drinking water in Brampton tomorrow.

Are we able to have a kit made up for tomorrow?

27 George St N – HYD 2015332
8 Nelson St W – HYD 2015335
27 Main St N – HYD 2015334
33 Queen St W – HYD 6577680

Thank you,

Michael Grzebinski
Foreperson – Water Distribution
Public Works
Region of Peel
2 Copper Road
Brampton, ON. L6T4W5
905-791-7800, ext 3220

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Appendix A3

Laboratory Certificates of Analysis

Your Project #: 46372-100
Your C.O.C. #: N/A

Attention: Anthony Puntillo

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2019/10/02
Report #: R5905013
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: B9P0965
Received: 2019/09/09, 15:30

Sample Matrix: Soil
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	4	N/A	2019/09/19	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	3	N/A	2019/09/18		EPA 8260C m
Conductivity	4	2019/10/02	2019/10/02	CAM SOP-00414	OMOE E3530 v1 m
Petroleum Hydrocarbons F2-F4 in Soil (1)	3	2019/09/18	2019/09/18	CAM SOP-00316	CCME CWS m
Strong Acid Leachable Metals by ICPMS	4	2019/09/16	2019/09/17	CAM SOP-00447	EPA 6020B m
Strong Acid Leachable Metals by ICPMS	1	2019/09/21	2019/09/24	CAM SOP-00447	EPA 6020B m
Moisture	2	N/A	2019/09/14	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	5	N/A	2019/09/16	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	4	2019/09/18	2019/09/19	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	2	2019/10/02	2019/10/02	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	4	N/A	2019/10/02	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs	2	N/A	2019/09/17	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds and F1 PHCs	1	N/A	2019/09/18	CAM SOP-00230	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.

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.

Your Project #: 46372-100
Your C.O.C. #: N/A

Attention: Anthony Puntillo

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2019/10/02
Report #: R5905013
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: B9P0965
Received: 2019/09/09, 15:30

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
02 Oct 2019 17:16:40

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.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

BV Labs ID			KSO988	KSO992	KSO994		
Sampling Date			2019/09/09 09:15	2019/09/09 09:15	2019/09/09 10:15		
COC Number			N/A	N/A	N/A		
	UNITS	**Criteria**	**MW101-19 0.5-2**	**MW1101-19 0.5-2**	**MW102-19 0.5-2**	**RDL**	**QC Batch**
Metals							
Acid Extractable Antimony (Sb)	ug/g	7.5	<0.20	<0.20	0.92	0.20	6334729
Acid Extractable Arsenic (As)	ug/g	18	6.0	5.0	5.2	1.0	6334729
Acid Extractable Barium (Ba)	ug/g	390	100	79	82	0.50	6334729
Acid Extractable Beryllium (Be)	ug/g	4	0.76	0.57	0.60	0.20	6334729
Acid Extractable Boron (B)	ug/g	120	9.6	6.5	7.6	5.0	6334729
Acid Extractable Cadmium (Cd)	ug/g	1.2	0.12	<0.10	0.42	0.10	6334729
Acid Extractable Chromium (Cr)	ug/g	160	26	19	19	1.0	6334729
Acid Extractable Cobalt (Co)	ug/g	22	13	10	9.3	0.10	6334729
Acid Extractable Copper (Cu)	ug/g	140	29	30	35	0.50	6334729
Acid Extractable Lead (Pb)	ug/g	120	16	15	**240**	1.0	6334729
Acid Extractable Molybdenum (Mo)	ug/g	6.9	<0.50	<0.50	0.55	0.50	6334729
Acid Extractable Nickel (Ni)	ug/g	100	26	21	20	0.50	6334729
Acid Extractable Selenium (Se)	ug/g	2.4	<0.50	<0.50	0.54	0.50	6334729
Acid Extractable Silver (Ag)	ug/g	20	<0.20	<0.20	<0.20	0.20	6334729
Acid Extractable Thallium (Tl)	ug/g	1	0.16	0.12	0.16	0.050	6334729
Acid Extractable Uranium (U)	ug/g	23	0.51	0.47	0.36	0.050	6334729
Acid Extractable Vanadium (V)	ug/g	86	35	28	27	5.0	6334729
Acid Extractable Zinc (Zn)	ug/g	340	64	56	120	5.0	6334729

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse 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 #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

BV Labs ID			KSO995		KSP000		
Sampling Date			2019/09/09 10:20		2019/09/09 12:00		
COC Number			N/A		N/A		
	UNITS	**Criteria**	**MW102-19 5-7**	**QC Batch**	**MW103-19 0.5-2**	**RDL**	**QC Batch**
Metals							
Acid Extractable Antimony (Sb)	ug/g	7.5	<0.20	6346037	<0.20	0.20	6334729
Acid Extractable Arsenic (As)	ug/g	18	4.4	6346037	5.1	1.0	6334729
Acid Extractable Barium (Ba)	ug/g	390	69	6346037	71	0.50	6334729
Acid Extractable Beryllium (Be)	ug/g	4	0.58	6346037	0.73	0.20	6334729
Acid Extractable Boron (B)	ug/g	120	6.6	6346037	5.4	5.0	6334729
Acid Extractable Cadmium (Cd)	ug/g	1.2	<0.10	6346037	0.12	0.10	6334729
Acid Extractable Chromium (Cr)	ug/g	160	19	6346037	21	1.0	6334729
Acid Extractable Cobalt (Co)	ug/g	22	11	6346037	12	0.10	6334729
Acid Extractable Copper (Cu)	ug/g	140	33	6346037	33	0.50	6334729
Acid Extractable Lead (Pb)	ug/g	120	12	6346037	13	1.0	6334729
Acid Extractable Molybdenum (Mo)	ug/g	6.9	<0.50	6346037	<0.50	0.50	6334729
Acid Extractable Nickel (Ni)	ug/g	100	23	6346037	28	0.50	6334729
Acid Extractable Selenium (Se)	ug/g	2.4	<0.50	6346037	<0.50	0.50	6334729
Acid Extractable Silver (Ag)	ug/g	20	<0.20	6346037	<0.20	0.20	6334729
Acid Extractable Thallium (Tl)	ug/g	1	0.13	6346037	0.12	0.050	6334729
Acid Extractable Uranium (U)	ug/g	23	0.48	6346037	0.47	0.050	6334729
Acid Extractable Vanadium (V)	ug/g	86	27	6346037	32	5.0	6334729
Acid Extractable Zinc (Zn)	ug/g	340	50	6346037	58	5.0	6334729

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse 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 #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 PAHS (SOIL)

BV Labs ID			KSO988	KSO992	KSO994	KSP000		
Sampling Date			2019/09/09 09:15	2019/09/09 09:15	2019/09/09 10:15	2019/09/09 12:00		
COC Number			N/A	N/A	N/A	N/A		
	UNITS	**Criteria**	**MW101-19 0.5-2**	**MW1101-19 0.5-2**	**MW102-19 0.5-2**	**MW103-19 0.5-2**	**RDL**	**QC Batch**
Inorganics								
Moisture	%	-	11	15	11	9.9	1.0	6334202
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/g	0.99	<0.0071	<0.0071	0.024	<0.0071	0.0071	6330746
Polyaromatic Hydrocarbons								
Acenaphthene	ug/g	7.9	<0.0050	<0.0050	0.030	<0.0050	0.0050	6338528
Acenaphthylene	ug/g	0.15	<0.0050	<0.0050	0.010	<0.0050	0.0050	6338528
Anthracene	ug/g	0.67	<0.0050	<0.0050	0.064	<0.0050	0.0050	6338528
Benzo(a)anthracene	ug/g	0.5	0.012	0.0095	0.19	<0.0050	0.0050	6338528
Benzo(a)pyrene	ug/g	0.3	0.015	0.013	0.18	<0.0050	0.0050	6338528
Benzo(b/j)fluoranthene	ug/g	0.78	0.025	0.018	0.24	<0.0050	0.0050	6338528
Benzo(g,h,i)perylene	ug/g	6.6	0.015	0.012	0.13	<0.0050	0.0050	6338528
Benzo(k)fluoranthene	ug/g	0.78	0.0094	0.0052	0.072	<0.0050	0.0050	6338528
Chrysene	ug/g	7	0.023	0.015	0.21	<0.0050	0.0050	6338528
Dibenz(a,h)anthracene	ug/g	0.1	<0.0050	<0.0050	0.022	<0.0050	0.0050	6338528
Fluoranthene	ug/g	0.69	0.029	0.019	0.41	<0.0050	0.0050	6338528
Fluorene	ug/g	62	<0.0050	<0.0050	0.037	<0.0050	0.0050	6338528
Indeno(1,2,3-cd)pyrene	ug/g	0.38	0.012	0.0097	0.13	<0.0050	0.0050	6338528
1-Methylnaphthalene	ug/g	0.99	<0.0050	<0.0050	0.013	<0.0050	0.0050	6338528
2-Methylnaphthalene	ug/g	0.99	<0.0050	<0.0050	0.011	<0.0050	0.0050	6338528
Naphthalene	ug/g	0.6	<0.0050	<0.0050	0.013	<0.0050	0.0050	6338528
Phenanthrene	ug/g	6.2	0.016	0.011	0.31	<0.0050	0.0050	6338528
Pyrene	ug/g	78	0.031	0.024	0.40	<0.0050	0.0050	6338528
Surrogate Recovery (%)								
D10-Anthracene	%	-	89	99	93	92		6338528
D14-Terphenyl (FS)	%	-	88	90	86	78		6338528
D8-Acenaphthylene	%	-	82	89	91	72		6338528

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse 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 #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 PAHS (SOIL)

BV Labs ID			KSP000		
Sampling Date			2019/09/09 12:00		
COC Number			N/A		
	UNITS	**Criteria**	**MW103-19 0.5-2 Lab-Dup**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons					
Acenaphthene	ug/g	7.9	<0.0050	0.0050	6338528
Acenaphthylene	ug/g	0.15	<0.0050	0.0050	6338528
Anthracene	ug/g	0.67	<0.0050	0.0050	6338528
Benzo(a)anthracene	ug/g	0.5	<0.0050	0.0050	6338528
Benzo(a)pyrene	ug/g	0.3	<0.0050	0.0050	6338528
Benzo(b/j)fluoranthene	ug/g	0.78	<0.0050	0.0050	6338528
Benzo(g,h,i)perylene	ug/g	6.6	<0.0050	0.0050	6338528
Benzo(k)fluoranthene	ug/g	0.78	<0.0050	0.0050	6338528
Chrysene	ug/g	7	<0.0050	0.0050	6338528
Dibenz(a,h)anthracene	ug/g	0.1	<0.0050	0.0050	6338528
Fluoranthene	ug/g	0.69	<0.0050	0.0050	6338528
Fluorene	ug/g	62	<0.0050	0.0050	6338528
Indeno(1,2,3-cd)pyrene	ug/g	0.38	<0.0050	0.0050	6338528
1-Methylnaphthalene	ug/g	0.99	<0.0050	0.0050	6338528
2-Methylnaphthalene	ug/g	0.99	<0.0050	0.0050	6338528
Naphthalene	ug/g	0.6	<0.0050	0.0050	6338528
Phenanthrene	ug/g	6.2	<0.0050	0.0050	6338528
Pyrene	ug/g	78	<0.0050	0.0050	6338528
Surrogate Recovery (%)					
D10-Anthracene	%	-	105		6338528
D14-Terphenyl (FS)	%	-	78		6338528
D8-Acenaphthylene	%	-	83		6338528

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse 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.

BV Labs Job #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			KSO990			KSO990		
Sampling Date			2019/09/09 09:25			2019/09/09 09:25		
COC Number			N/A			N/A		
	UNITS	**Criteria**	**MW101-19 10-12**	**RDL**	**QC Batch**	**MW101-19 10-12 Lab-Dup**	**RDL**	**QC Batch**
Inorganics								
Moisture	%	-	18	1.0	6334202	18	1.0	6334202
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	0.05	<0.050	0.050	6330860			
Volatile Organics								
Acetone (2-Propanone)	ug/g	16	<0.50	0.50	6334254			
Benzene	ug/g	0.21	<0.020	0.020	6334254			
Bromodichloromethane	ug/g	13	<0.050	0.050	6334254			
Bromoform	ug/g	0.27	<0.050	0.050	6334254			
Bromomethane	ug/g	0.05	<0.050	0.050	6334254			
Carbon Tetrachloride	ug/g	0.05	<0.050	0.050	6334254			
Chlorobenzene	ug/g	2.4	<0.050	0.050	6334254			
Chloroform	ug/g	0.05	<0.050	0.050	6334254			
Dibromochloromethane	ug/g	9.4	<0.050	0.050	6334254			
1,2-Dichlorobenzene	ug/g	3.4	<0.050	0.050	6334254			
1,3-Dichlorobenzene	ug/g	4.8	<0.050	0.050	6334254			
1,4-Dichlorobenzene	ug/g	0.083	<0.050	0.050	6334254			
Dichlorodifluoromethane (FREON 12)	ug/g	16	<0.050	0.050	6334254			
1,1-Dichloroethane	ug/g	3.5	<0.050	0.050	6334254			
1,2-Dichloroethane	ug/g	0.05	<0.050	0.050	6334254			
1,1-Dichloroethylene	ug/g	0.05	<0.050	0.050	6334254			
cis-1,2-Dichloroethylene	ug/g	3.4	<0.050	0.050	6334254			
trans-1,2-Dichloroethylene	ug/g	0.084	<0.050	0.050	6334254			
1,2-Dichloropropane	ug/g	0.05	<0.050	0.050	6334254			
cis-1,3-Dichloropropene	ug/g	0.05	<0.030	0.030	6334254			
trans-1,3-Dichloropropene	ug/g	0.05	<0.040	0.040	6334254			
Ethylbenzene	ug/g	2	<0.020	0.020	6334254			
Ethylene Dibromide	ug/g	0.05	<0.050	0.050	6334254			

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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BV Labs Job #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			KSO990			KSO990		
Sampling Date			2019/09/09 09:25			2019/09/09 09:25		
COC Number			N/A			N/A		
	UNITS	**Criteria**	**MW101-19 10-12**	**RDL**	**QC Batch**	**MW101-19 10-12 Lab-Dup**	**RDL**	**QC Batch**
Hexane	ug/g	2.8	<0.050	0.050	6334254			
Methylene Chloride(Dichloromethane)	ug/g	0.1	<0.050	0.050	6334254			
Methyl Ethyl Ketone (2-Butanone)	ug/g	16	<0.50	0.50	6334254			
Methyl Isobutyl Ketone	ug/g	1.7	<0.50	0.50	6334254			
Methyl t-butyl ether (MTBE)	ug/g	0.75	<0.050	0.050	6334254			
Styrene	ug/g	0.7	<0.050	0.050	6334254			
1,1,1,2-Tetrachloroethane	ug/g	0.058	<0.050	0.050	6334254			
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.050	0.050	6334254			
Tetrachloroethylene	ug/g	0.28	<0.050	0.050	6334254			
Toluene	ug/g	2.3	<0.020	0.020	6334254			
1,1,1-Trichloroethane	ug/g	0.38	<0.050	0.050	6334254			
1,1,2-Trichloroethane	ug/g	0.05	<0.050	0.050	6334254			
Trichloroethylene	ug/g	0.061	<0.050	0.050	6334254			
Trichlorofluoromethane (FREON 11)	ug/g	4	<0.050	0.050	6334254			
Vinyl Chloride	ug/g	0.02	<0.020	0.020	6334254			
p+m-Xylene	ug/g	-	<0.020	0.020	6334254			
o-Xylene	ug/g	-	<0.020	0.020	6334254			
Total Xylenes	ug/g	3.1	<0.020	0.020	6334254			
F1 (C6-C10)	ug/g	55	<10	10	6334254			
F1 (C6-C10) - BTEX	ug/g	55	<10	10	6334254			
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	98	<10	10	6338511			
F3 (C16-C34 Hydrocarbons)	ug/g	300	<50	50	6338511			
F4 (C34-C50 Hydrocarbons)	ug/g	2800	<50	50	6338511			
Reached Baseline at C50	ug/g	-	Yes		6338511			
Surrogate Recovery (%)								
o-Terphenyl	%	-	88		6338511			
4-Bromofluorobenzene	%	-	100		6334254			

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)
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Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			KSO990			KSO990		
Sampling Date			2019/09/09 09:25			2019/09/09 09:25		
COC Number			N/A			N/A		
	UNITS	**Criteria**	**MW101-19 10-12**	**RDL**	**QC Batch**	**MW101-19 10-12 Lab-Dup**	**RDL**	**QC Batch**
D10-o-Xylene	%	-	101		6334254			
D4-1,2-Dichloroethane	%	-	102		6334254			
D8-Toluene	%	-	96		6334254			

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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BV Labs Job #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			KSO997			KSO997		
Sampling Date			2019/09/09 10:30			2019/09/09 10:30		
COC Number			N/A			N/A		
	UNITS	**Criteria**	**MW102-19 15-17**	**RDL**	**QC Batch**	**MW102-19 15-17 Lab-Dup**	**RDL**	**QC Batch**
Inorganics								
Moisture	%	-	13	1.0	6333431	13	1.0	6333431
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	0.05	<0.050	0.050	6330860			
Volatile Organics								
Acetone (2-Propanone)	ug/g	16	<0.50	0.50	6334254			
Benzene	ug/g	0.21	<0.020	0.020	6334254			
Bromodichloromethane	ug/g	13	<0.050	0.050	6334254			
Bromoform	ug/g	0.27	<0.050	0.050	6334254			
Bromomethane	ug/g	0.05	<0.050	0.050	6334254			
Carbon Tetrachloride	ug/g	0.05	<0.050	0.050	6334254			
Chlorobenzene	ug/g	2.4	<0.050	0.050	6334254			
Chloroform	ug/g	0.05	<0.050	0.050	6334254			
Dibromochloromethane	ug/g	9.4	<0.050	0.050	6334254			
1,2-Dichlorobenzene	ug/g	3.4	<0.050	0.050	6334254			
1,3-Dichlorobenzene	ug/g	4.8	<0.050	0.050	6334254			
1,4-Dichlorobenzene	ug/g	0.083	<0.050	0.050	6334254			
Dichlorodifluoromethane (FREON 12)	ug/g	16	<0.050	0.050	6334254			
1,1-Dichloroethane	ug/g	3.5	<0.050	0.050	6334254			
1,2-Dichloroethane	ug/g	0.05	<0.050	0.050	6334254			
1,1-Dichloroethylene	ug/g	0.05	<0.050	0.050	6334254			
cis-1,2-Dichloroethylene	ug/g	3.4	<0.050	0.050	6334254			
trans-1,2-Dichloroethylene	ug/g	0.084	<0.050	0.050	6334254			
1,2-Dichloropropane	ug/g	0.05	<0.050	0.050	6334254			
cis-1,3-Dichloropropene	ug/g	0.05	<0.030	0.030	6334254			
trans-1,3-Dichloropropene	ug/g	0.05	<0.040	0.040	6334254			
Ethylbenzene	ug/g	2	<0.020	0.020	6334254			
Ethylene Dibromide	ug/g	0.05	<0.050	0.050	6334254			

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)
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Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			KSO997			KSO997		
Sampling Date			2019/09/09 10:30			2019/09/09 10:30		
COC Number			N/A			N/A		
	UNITS	**Criteria**	**MW102-19 15-17**	**RDL**	**QC Batch**	**MW102-19 15-17 Lab-Dup**	**RDL**	**QC Batch**
Hexane	ug/g	2.8	<0.050	0.050	6334254			
Methylene Chloride(Dichloromethane)	ug/g	0.1	<0.050	0.050	6334254			
Methyl Ethyl Ketone (2-Butanone)	ug/g	16	<0.50	0.50	6334254			
Methyl Isobutyl Ketone	ug/g	1.7	<0.50	0.50	6334254			
Methyl t-butyl ether (MTBE)	ug/g	0.75	<0.050	0.050	6334254			
Styrene	ug/g	0.7	<0.050	0.050	6334254			
1,1,1,2-Tetrachloroethane	ug/g	0.058	<0.050	0.050	6334254			
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.050	0.050	6334254			
Tetrachloroethylene	ug/g	0.28	<0.050	0.050	6334254			
Toluene	ug/g	2.3	<0.020	0.020	6334254			
1,1,1-Trichloroethane	ug/g	0.38	<0.050	0.050	6334254			
1,1,2-Trichloroethane	ug/g	0.05	<0.050	0.050	6334254			
Trichloroethylene	ug/g	0.061	<0.050	0.050	6334254			
Trichlorofluoromethane (FREON 11)	ug/g	4	<0.050	0.050	6334254			
Vinyl Chloride	ug/g	0.02	<0.020	0.020	6334254			
p+m-Xylene	ug/g	-	<0.020	0.020	6334254			
o-Xylene	ug/g	-	<0.020	0.020	6334254			
Total Xylenes	ug/g	3.1	<0.020	0.020	6334254			
F1 (C6-C10)	ug/g	55	<10	10	6334254			
F1 (C6-C10) - BTEX	ug/g	55	<10	10	6334254			
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	98	<10	10	6338511			
F3 (C16-C34 Hydrocarbons)	ug/g	300	<50	50	6338511			
F4 (C34-C50 Hydrocarbons)	ug/g	2800	<50	50	6338511			
Reached Baseline at C50	ug/g	-	Yes		6338511			
Surrogate Recovery (%)								
o-Terphenyl	%	-	94		6338511			
4-Bromofluorobenzene	%	-	100		6334254			

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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Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			KSO997			KSO997		
Sampling Date			2019/09/09 10:30			2019/09/09 10:30		
COC Number			N/A			N/A		
	UNITS	**Criteria**	**MW102-19 15-17**	**RDL**	**QC Batch**	**MW102-19 15-17 Lab-Dup**	**RDL**	**QC Batch**
D10-o-Xylene	%	-	102		6334254			
D4-1,2-Dichloroethane	%	-	103		6334254			
D8-Toluene	%	-	96		6334254			

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
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Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
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BV Labs Job #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			KSP005		
Sampling Date			2019/09/09 12:25		
COC Number			N/A		
	UNITS	**Criteria**	**MW103-19 23-25**	**RDL**	**QC Batch**
Inorganics					
Moisture	%	-	14	1.0	6333431
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/g	0.05	<0.050	0.050	6330860
Volatile Organics					
Acetone (2-Propanone)	ug/g	16	<0.50	0.50	6334254
Benzene	ug/g	0.21	<0.020	0.020	6334254
Bromodichloromethane	ug/g	13	<0.050	0.050	6334254
Bromoform	ug/g	0.27	<0.050	0.050	6334254
Bromomethane	ug/g	0.05	<0.050	0.050	6334254
Carbon Tetrachloride	ug/g	0.05	<0.050	0.050	6334254
Chlorobenzene	ug/g	2.4	<0.050	0.050	6334254
Chloroform	ug/g	0.05	<0.050	0.050	6334254
Dibromochloromethane	ug/g	9.4	<0.050	0.050	6334254
1,2-Dichlorobenzene	ug/g	3.4	<0.050	0.050	6334254
1,3-Dichlorobenzene	ug/g	4.8	<0.050	0.050	6334254
1,4-Dichlorobenzene	ug/g	0.083	<0.050	0.050	6334254
Dichlorodifluoromethane (FREON 12)	ug/g	16	<0.050	0.050	6334254
1,1-Dichloroethane	ug/g	3.5	<0.050	0.050	6334254
1,2-Dichloroethane	ug/g	0.05	<0.050	0.050	6334254
1,1-Dichloroethylene	ug/g	0.05	<0.050	0.050	6334254
cis-1,2-Dichloroethylene	ug/g	3.4	<0.050	0.050	6334254
trans-1,2-Dichloroethylene	ug/g	0.084	<0.050	0.050	6334254
1,2-Dichloropropane	ug/g	0.05	<0.050	0.050	6334254
cis-1,3-Dichloropropene	ug/g	0.05	<0.030	0.030	6334254
trans-1,3-Dichloropropene	ug/g	0.05	<0.040	0.040	6334254
Ethylbenzene	ug/g	2	<0.020	0.020	6334254
Ethylene Dibromide	ug/g	0.05	<0.050	0.050	6334254

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 #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			KSP005		
Sampling Date			2019/09/09 12:25		
COC Number			N/A		
	UNITS	**Criteria**	**MW103-19 23-25**	**RDL**	**QC Batch**
Hexane	ug/g	2.8	<0.050	0.050	6334254
Methylene Chloride(Dichloromethane)	ug/g	0.1	<0.050	0.050	6334254
Methyl Ethyl Ketone (2-Butanone)	ug/g	16	<0.50	0.50	6334254
Methyl Isobutyl Ketone	ug/g	1.7	<0.50	0.50	6334254
Methyl t-butyl ether (MTBE)	ug/g	0.75	<0.050	0.050	6334254
Styrene	ug/g	0.7	<0.050	0.050	6334254
1,1,1,2-Tetrachloroethane	ug/g	0.058	<0.050	0.050	6334254
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.050	0.050	6334254
Tetrachloroethylene	ug/g	0.28	<0.050	0.050	6334254
Toluene	ug/g	2.3	<0.020	0.020	6334254
1,1,1-Trichloroethane	ug/g	0.38	<0.050	0.050	6334254
1,1,2-Trichloroethane	ug/g	0.05	<0.050	0.050	6334254
Trichloroethylene	ug/g	0.061	<0.050	0.050	6334254
Trichlorofluoromethane (FREON 11)	ug/g	4	<0.050	0.050	6334254
Vinyl Chloride	ug/g	0.02	<0.020	0.020	6334254
p+m-Xylene	ug/g	-	<0.020	0.020	6334254
o-Xylene	ug/g	-	<0.020	0.020	6334254
Total Xylenes	ug/g	3.1	<0.020	0.020	6334254
F1 (C6-C10)	ug/g	55	<10	10	6334254
F1 (C6-C10) - BTEX	ug/g	55	<10	10	6334254
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	98	<10	10	6338511
F3 (C16-C34 Hydrocarbons)	ug/g	300	<50	50	6338511
F4 (C34-C50 Hydrocarbons)	ug/g	2800	<50	50	6338511
Reached Baseline at C50	ug/g	-	Yes		6338511
Surrogate Recovery (%)					
o-Terphenyl	%	-	101		6338511
4-Bromofluorobenzene	%	-	101		6334254

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse 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.

BV Labs Job #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			KSP005		
Sampling Date			2019/09/09 12:25		
COC Number			N/A		
	UNITS	**Criteria**	**MW103-19 23-25**	**RDL**	**QC Batch**
D10-o-Xylene	%	-	104		6334254
D4-1,2-Dichloroethane	%	-	105		6334254
D8-Toluene	%	-	96		6334254

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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BV Labs Job #: B9P0965
Report Date: 2019/10/02

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Client Project #: 46372-100
Sampler Initials: ADP

RESULTS OF ANALYSES OF SOIL

BV Labs ID			KSO988		KSO994	KSO995		
Sampling Date			2019/09/09 09:15		2019/09/09 10:15	2019/09/09 10:20		
COC Number			N/A		N/A	N/A		
	UNITS	**Criteria**	**MW101-19 0.5-2**	**QC Batch**	**MW102-19 0.5-2**	**MW102-19 5-7**	**RDL**	**QC Batch**
Calculated Parameters								
Sodium Adsorption Ratio	N/A	5.0	**14**	6362049	0.57	0.69		6362049
Inorganics								
Conductivity	mS/cm	0.7	**0.75**	6364444	0.18	0.15	0.002	6364530
Available (CaCl2) pH	pH	-			7.50	7.70		6364628

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

BV Labs ID			KSO995		KSP000		
Sampling Date			2019/09/09 10:20		2019/09/09 12:00		
COC Number			N/A		N/A		
	UNITS	**Criteria**	**MW102-19 5-7 Lab-Dup**	**QC Batch**	**MW103-19 0.5-2**	**RDL**	**QC Batch**
Calculated Parameters							
Sodium Adsorption Ratio	N/A	5.0			0.31		6362049
Inorganics							
Conductivity	mS/cm	0.7	0.14	6364530	0.10	0.002	6364444

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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BV Labs Job #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

TEST SUMMARY

BV Labs ID: KSO988
Sample ID: MW101-19 0.5-2
Matrix: Soil

Collected: 2019/09/09
Shipped:
Received: 2019/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	6330746	N/A	2019/09/19	Automated Statchk
Conductivity	AT	6364444	2019/10/02	2019/10/02	Kazzandra Adeva
Strong Acid Leachable Metals by ICPMS	ICP/MS	6334729	2019/09/16	2019/09/17	Matthew Ritenburg
Moisture	BAL	6334202	N/A	2019/09/16	Mithunaa Sasitheepan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	6338528	2019/09/18	2019/09/19	Mitesh Raj
Sodium Adsorption Ratio (SAR)	CALC/MET	6362049	N/A	2019/10/02	Automated Statchk

BV Labs ID: KSO990
Sample ID: MW101-19 10-12
Matrix: Soil

Collected: 2019/09/09
Shipped:
Received: 2019/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6330860	N/A	2019/09/18	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6338511	2019/09/18	2019/09/18	Dorina Popa
Moisture	BAL	6334202	N/A	2019/09/16	Mithunaa Sasitheepan
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6334254	N/A	2019/09/17	Denis Reid

BV Labs ID: KSO990 Dup
Sample ID: MW101-19 10-12
Matrix: Soil

Collected: 2019/09/09
Shipped:
Received: 2019/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6334202	N/A	2019/09/16	Mithunaa Sasitheepan

BV Labs ID: KSO992
Sample ID: MW1101-19 0.5-2
Matrix: Soil

Collected: 2019/09/09
Shipped:
Received: 2019/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	6330746	N/A	2019/09/19	Automated Statchk
Strong Acid Leachable Metals by ICPMS	ICP/MS	6334729	2019/09/16	2019/09/17	Matthew Ritenburg
Moisture	BAL	6334202	N/A	2019/09/16	Mithunaa Sasitheepan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	6338528	2019/09/18	2019/09/19	Mitesh Raj

BV Labs ID: KSO994
Sample ID: MW102-19 0.5-2
Matrix: Soil

Collected: 2019/09/09
Shipped:
Received: 2019/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	6330746	N/A	2019/09/19	Automated Statchk
Conductivity	AT	6364530	2019/10/02	2019/10/02	Kazzandra Adeva
Strong Acid Leachable Metals by ICPMS	ICP/MS	6334729	2019/09/16	2019/09/17	Matthew Ritenburg
Moisture	BAL	6334202	N/A	2019/09/16	Mithunaa Sasitheepan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	6338528	2019/09/18	2019/09/19	Mitesh Raj
pH CaCl2 EXTRACT	AT	6364628	2019/10/02	2019/10/02	Kazzandra Adeva
Sodium Adsorption Ratio (SAR)	CALC/MET	6362049	N/A	2019/10/02	Automated Statchk

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BV Labs Job #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

TEST SUMMARY

BV Labs ID: KSO995
Sample ID: MW102-19 5-7
Matrix: Soil

Collected: 2019/09/09
Shipped:
Received: 2019/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	6364530	2019/10/02	2019/10/02	Kazzandra Adeva
Strong Acid Leachable Metals by ICPMS	ICP/MS	6346037	2019/09/21	2019/09/24	Daniel Teclu
pH CaCl2 EXTRACT	AT	6364628	2019/10/02	2019/10/02	Kazzandra Adeva
Sodium Adsorption Ratio (SAR)	CALC/MET	6362049	N/A	2019/10/02	Automated Statchk

BV Labs ID: KSO995 Dup
Sample ID: MW102-19 5-7
Matrix: Soil

Collected: 2019/09/09
Shipped:
Received: 2019/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	6364530	2019/10/02	2019/10/02	Kazzandra Adeva

BV Labs ID: KSO997
Sample ID: MW102-19 15-17
Matrix: Soil

Collected: 2019/09/09
Shipped:
Received: 2019/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6330860	N/A	2019/09/18	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6338511	2019/09/18	2019/09/18	Dorina Popa
Moisture	BAL	6333431	N/A	2019/09/14	Mithunaa Sasitheepan
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6334254	N/A	2019/09/17	Denis Reid

BV Labs ID: KSO997 Dup
Sample ID: MW102-19 15-17
Matrix: Soil

Collected: 2019/09/09
Shipped:
Received: 2019/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6333431	N/A	2019/09/14	Mithunaa Sasitheepan

BV Labs ID: KSP000
Sample ID: MW103-19 0.5-2
Matrix: Soil

Collected: 2019/09/09
Shipped:
Received: 2019/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	6330746	N/A	2019/09/19	Automated Statchk
Conductivity	AT	6364444	2019/10/02	2019/10/02	Kazzandra Adeva
Strong Acid Leachable Metals by ICPMS	ICP/MS	6334729	2019/09/16	2019/09/17	Matthew Ritenburg
Moisture	BAL	6334202	N/A	2019/09/16	Mithunaa Sasitheepan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	6338528	2019/09/18	2019/09/19	Mitesh Raj
Sodium Adsorption Ratio (SAR)	CALC/MET	6362049	N/A	2019/10/02	Automated Statchk

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BV Labs Job #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

TEST SUMMARY

BV Labs ID: KSP000 Dup
Sample ID: MW103-19 0.5-2
Matrix: Soil

Collected: 2019/09/09
Shipped:
Received: 2019/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	6338528	2019/09/18	2019/09/19	Mitesh Raj

BV Labs ID: KSP005
Sample ID: MW103-19 23-25
Matrix: Soil

Collected: 2019/09/09
Shipped:
Received: 2019/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6330860	N/A	2019/09/18	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6338511	2019/09/18	2019/09/18	Dorina Popa
Moisture	BAL	6333431	N/A	2019/09/14	Mithunaa Sasitheepan
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6334254	N/A	2019/09/18	Denis Reid

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	19.3°C

Revised Report [2019/10/02]: Requested analysis added as per AARF.

Revised Report [2019/09/24]: Requested analysis added as per AARF.

Sample KSP000 [MW103-19 0.5-2] : SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Results relate only to the items tested.

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BV Labs Job #: B9P0965
Report Date: 2019/10/02

QUALITY ASSURANCE REPORT

MTE Consultants Inc
Client Project #: 46372-100
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
6334254	4-Bromofluorobenzene	2019/09/17	105	60 - 140	106	60 - 140	101	%		
6334254	D10-o-Xylene	2019/09/17	100	60 - 130	106	60 - 130	92	%		
6334254	D4-1,2-Dichloroethane	2019/09/17	102	60 - 140	103	60 - 140	104	%		
6334254	D8-Toluene	2019/09/17	104	60 - 140	106	60 - 140	96	%		
6338511	o-Terphenyl	2019/09/18	98	60 - 130	97	60 - 130	99	%		
6338528	D10-Anthracene	2019/09/19	95	50 - 130	99	50 - 130	96	%		
6338528	D14-Terphenyl (FS)	2019/09/19	92	50 - 130	81	50 - 130	78	%		
6338528	D8-Acenaphthylene	2019/09/19	87	50 - 130	87	50 - 130	83	%		
6333431	Moisture	2019/09/14							1.6	20
6334202	Moisture	2019/09/16							2.8	20
6334254	1,1,1,2-Tetrachloroethane	2019/09/18	109	60 - 140	111	60 - 130	<0.050	ug/g	NC	50
6334254	1,1,1-Trichloroethane	2019/09/18	103	60 - 140	102	60 - 130	<0.050	ug/g	NC	50
6334254	1,1,2,2-Tetrachloroethane	2019/09/18	98	60 - 140	100	60 - 130	<0.050	ug/g	NC	50
6334254	1,1,2-Trichloroethane	2019/09/18	100	60 - 140	103	60 - 130	<0.050	ug/g	NC	50
6334254	1,1-Dichloroethane	2019/09/18	98	60 - 140	98	60 - 130	<0.050	ug/g	NC	50
6334254	1,1-Dichloroethylene	2019/09/18	105	60 - 140	104	60 - 130	<0.050	ug/g	NC	50
6334254	1,2-Dichlorobenzene	2019/09/18	95	60 - 140	97	60 - 130	<0.050	ug/g	NC	50
6334254	1,2-Dichloroethane	2019/09/18	99	60 - 140	99	60 - 130	<0.050	ug/g	NC	50
6334254	1,2-Dichloropropane	2019/09/18	88	60 - 140	87	60 - 130	<0.050	ug/g	NC	50
6334254	1,3-Dichlorobenzene	2019/09/18	96	60 - 140	97	60 - 130	<0.050	ug/g	NC	50
6334254	1,4-Dichlorobenzene	2019/09/18	101	60 - 140	103	60 - 130	<0.050	ug/g	NC	50
6334254	Acetone (2-Propanone)	2019/09/18	95	60 - 140	96	60 - 140	<0.50	ug/g	NC	50
6334254	Benzene	2019/09/18	97	60 - 140	96	60 - 130	<0.020	ug/g	NC	50
6334254	Bromodichloromethane	2019/09/18	95	60 - 140	94	60 - 130	<0.050	ug/g	NC	50
6334254	Bromoform	2019/09/18	110	60 - 140	112	60 - 130	<0.050	ug/g	NC	50
6334254	Bromomethane	2019/09/18	103	60 - 140	102	60 - 140	<0.050	ug/g	NC	50
6334254	Carbon Tetrachloride	2019/09/18	107	60 - 140	106	60 - 130	<0.050	ug/g	NC	50
6334254	Chlorobenzene	2019/09/18	90	60 - 140	91	60 - 130	<0.050	ug/g	NC	50
6334254	Chloroform	2019/09/18	92	60 - 140	92	60 - 130	<0.050	ug/g	NC	50
6334254	cis-1,2-Dichloroethylene	2019/09/18	90	60 - 140	90	60 - 130	<0.050	ug/g	NC	50
6334254	cis-1,3-Dichloropropene	2019/09/18	81	60 - 140	79	60 - 130	<0.030	ug/g	NC	50

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BV Labs Job #: B9P0965
Report Date: 2019/10/02

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-100
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
6334254	Dibromochloromethane	2019/09/18	105	60 - 140	107	60 - 130	<0.050	ug/g	NC	50
6334254	Dichlorodifluoromethane (FREON 12)	2019/09/18	125	60 - 140	122	60 - 140	<0.050	ug/g	NC	50
6334254	Ethylbenzene	2019/09/18	88	60 - 140	88	60 - 130	<0.020	ug/g	NC	50
6334254	Ethylene Dibromide	2019/09/18	98	60 - 140	100	60 - 130	<0.050	ug/g	NC	50
6334254	F1 (C6-C10) - BTEX	2019/09/18					<10	ug/g	NC	30
6334254	F1 (C6-C10)	2019/09/18	92	60 - 140	96	80 - 120	<10	ug/g	NC	30
6334254	Hexane	2019/09/18	100	60 - 140	98	60 - 130	<0.050	ug/g	NC	50
6334254	Methyl Ethyl Ketone (2-Butanone)	2019/09/18	89	60 - 140	91	60 - 140	<0.50	ug/g	NC	50
6334254	Methyl Isobutyl Ketone	2019/09/18	85	60 - 140	86	60 - 130	<0.50	ug/g	NC	50
6334254	Methyl t-butyl ether (MTBE)	2019/09/18	86	60 - 140	85	60 - 130	<0.050	ug/g	NC	50
6334254	Methylene Chloride(Dichloromethane)	2019/09/18	97	60 - 140	97	60 - 130	<0.050	ug/g	NC	50
6334254	o-Xylene	2019/09/18	89	60 - 140	90	60 - 130	<0.020	ug/g	NC	50
6334254	p+m-Xylene	2019/09/18	91	60 - 140	91	60 - 130	<0.020	ug/g	NC	50
6334254	Styrene	2019/09/18	91	60 - 140	93	60 - 130	<0.050	ug/g	NC	50
6334254	Tetrachloroethylene	2019/09/18	100	60 - 140	101	60 - 130	<0.050	ug/g	NC	50
6334254	Toluene	2019/09/18	92	60 - 140	93	60 - 130	<0.020	ug/g	NC	50
6334254	Total Xylenes	2019/09/18					<0.020	ug/g	NC	50
6334254	trans-1,2-Dichloroethylene	2019/09/18	97	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
6334254	trans-1,3-Dichloropropene	2019/09/18	89	60 - 140	89	60 - 130	<0.040	ug/g	NC	50
6334254	Trichloroethylene	2019/09/18	104	60 - 140	102	60 - 130	<0.050	ug/g	NC	50
6334254	Trichlorofluoromethane (FREON 11)	2019/09/18	118	60 - 140	116	60 - 130	<0.050	ug/g	NC	50
6334254	Vinyl Chloride	2019/09/18	115	60 - 140	114	60 - 130	<0.020	ug/g	NC	50
6334729	Acid Extractable Antimony (Sb)	2019/09/17	101	75 - 125	101	80 - 120	<0.20	ug/g		
6334729	Acid Extractable Arsenic (As)	2019/09/17	90	75 - 125	100	80 - 120	<1.0	ug/g	6.4	30
6334729	Acid Extractable Barium (Ba)	2019/09/17	NC	75 - 125	100	80 - 120	<0.50	ug/g		
6334729	Acid Extractable Beryllium (Be)	2019/09/17	96	75 - 125	96	80 - 120	<0.20	ug/g		
6334729	Acid Extractable Boron (B)	2019/09/17	89	75 - 125	98	80 - 120	<5.0	ug/g	NC	30
6334729	Acid Extractable Cadmium (Cd)	2019/09/17	100	75 - 125	99	80 - 120	<0.10	ug/g		
6334729	Acid Extractable Chromium (Cr)	2019/09/17	79	75 - 125	101	80 - 120	<1.0	ug/g	3.8	30
6334729	Acid Extractable Cobalt (Co)	2019/09/17	96	75 - 125	99	80 - 120	<0.10	ug/g		
6334729	Acid Extractable Copper (Cu)	2019/09/17	92	75 - 125	99	80 - 120	<0.50	ug/g	0.23	30

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BV Labs Job #: B9P0965
Report Date: 2019/10/02

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-100
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
6334729	Acid Extractable Lead (Pb)	2019/09/17	84	75 - 125	96	80 - 120	<1.0	ug/g		
6334729	Acid Extractable Molybdenum (Mo)	2019/09/17	104	75 - 125	99	80 - 120	<0.50	ug/g		
6334729	Acid Extractable Nickel (Ni)	2019/09/17	89	75 - 125	98	80 - 120	<0.50	ug/g		
6334729	Acid Extractable Selenium (Se)	2019/09/17	100	75 - 125	102	80 - 120	<0.50	ug/g		
6334729	Acid Extractable Silver (Ag)	2019/09/17	99	75 - 125	100	80 - 120	<0.20	ug/g		
6334729	Acid Extractable Thallium (Tl)	2019/09/17	97	75 - 125	97	80 - 120	<0.050	ug/g		
6334729	Acid Extractable Uranium (U)	2019/09/17	88	75 - 125	89	80 - 120	<0.050	ug/g		
6334729	Acid Extractable Vanadium (V)	2019/09/17	61 (1)	75 - 125	100	80 - 120	<5.0	ug/g		
6334729	Acid Extractable Zinc (Zn)	2019/09/17	NC	75 - 125	92	80 - 120	<5.0	ug/g		
6338511	F2 (C10-C16 Hydrocarbons)	2019/09/18	102	50 - 130	100	80 - 120	<10	ug/g	NC	30
6338511	F3 (C16-C34 Hydrocarbons)	2019/09/18	93	50 - 130	95	80 - 120	<50	ug/g	NC	30
6338511	F4 (C34-C50 Hydrocarbons)	2019/09/18	101	50 - 130	99	80 - 120	<50	ug/g	NC	30
6338528	1-Methylnaphthalene	2019/09/19	96	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
6338528	2-Methylnaphthalene	2019/09/19	89	50 - 130	87	50 - 130	<0.0050	ug/g	NC	40
6338528	Acenaphthene	2019/09/19	112	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
6338528	Acenaphthylene	2019/09/19	87	50 - 130	88	50 - 130	<0.0050	ug/g	NC	40
6338528	Anthracene	2019/09/19	90	50 - 130	92	50 - 130	<0.0050	ug/g	NC	40
6338528	Benzo(a)anthracene	2019/09/19	97	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
6338528	Benzo(a)pyrene	2019/09/19	81	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
6338528	Benzo(b/j)fluoranthene	2019/09/19	91	50 - 130	89	50 - 130	<0.0050	ug/g	NC	40
6338528	Benzo(g,h,i)perylene	2019/09/19	88	50 - 130	75	50 - 130	<0.0050	ug/g	NC	40
6338528	Benzo(k)fluoranthene	2019/09/19	85	50 - 130	71	50 - 130	<0.0050	ug/g	NC	40
6338528	Chrysene	2019/09/19	89	50 - 130	88	50 - 130	<0.0050	ug/g	NC	40
6338528	Dibenz(a,h)anthracene	2019/09/19	90	50 - 130	76	50 - 130	<0.0050	ug/g	NC	40
6338528	Fluoranthene	2019/09/19	92	50 - 130	77	50 - 130	<0.0050	ug/g	NC	40
6338528	Fluorene	2019/09/19	96	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
6338528	Indeno(1,2,3-cd)pyrene	2019/09/19	97	50 - 130	80	50 - 130	<0.0050	ug/g	NC	40
6338528	Naphthalene	2019/09/19	77	50 - 130	77	50 - 130	<0.0050	ug/g	NC	40
6338528	Phenanthrene	2019/09/19	88	50 - 130	91	50 - 130	<0.0050	ug/g	NC	40
6338528	Pyrene	2019/09/19	93	50 - 130	89	50 - 130	<0.0050	ug/g	NC	40
6346037	Acid Extractable Antimony (Sb)	2019/09/24	97	75 - 125	100	80 - 120	<0.20	ug/g	NC	30

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: B9P0965
Report Date: 2019/10/02

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-100
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
6346037	Acid Extractable Arsenic (As)	2019/09/24	95	75 - 125	103	80 - 120	<1.0	ug/g	25	30
6346037	Acid Extractable Barium (Ba)	2019/09/24	90	75 - 125	99	80 - 120	<0.50	ug/g	2.7	30
6346037	Acid Extractable Beryllium (Be)	2019/09/24	92	75 - 125	96	80 - 120	<0.20	ug/g	NC	30
6346037	Acid Extractable Boron (B)	2019/09/24	89	75 - 125	97	80 - 120	<5.0	ug/g	NC	30
6346037	Acid Extractable Cadmium (Cd)	2019/09/24	93	75 - 125	102	80 - 120	<0.10	ug/g	NC	30
6346037	Acid Extractable Chromium (Cr)	2019/09/24	97	75 - 125	103	80 - 120	<1.0	ug/g	16	30
6346037	Acid Extractable Cobalt (Co)	2019/09/24	94	75 - 125	104	80 - 120	<0.10	ug/g	4.0	30
6346037	Acid Extractable Copper (Cu)	2019/09/24	96	75 - 125	103	80 - 120	<0.50	ug/g	4.9	30
6346037	Acid Extractable Lead (Pb)	2019/09/24	93	75 - 125	103	80 - 120	<1.0	ug/g	3.9	30
6346037	Acid Extractable Molybdenum (Mo)	2019/09/24	101	75 - 125	102	80 - 120	<0.50	ug/g	NC	30
6346037	Acid Extractable Nickel (Ni)	2019/09/24	94	75 - 125	105	80 - 120	<0.50	ug/g	5.9	30
6346037	Acid Extractable Selenium (Se)	2019/09/24	96	75 - 125	105	80 - 120	<0.50	ug/g	NC	30
6346037	Acid Extractable Silver (Ag)	2019/09/24	95	75 - 125	101	80 - 120	<0.20	ug/g	NC	30
6346037	Acid Extractable Thallium (Tl)	2019/09/24	94	75 - 125	103	80 - 120	<0.050	ug/g	NC	30
6346037	Acid Extractable Uranium (U)	2019/09/24	93	75 - 125	101	80 - 120	<0.050	ug/g	4.8	30
6346037	Acid Extractable Vanadium (V)	2019/09/24	101	75 - 125	103	80 - 120	<5.0	ug/g	24	30
6346037	Acid Extractable Zinc (Zn)	2019/09/24	NC	75 - 125	104	80 - 120	<5.0	ug/g	6.0	30
6364444	Conductivity	2019/10/02			104	90 - 110	<0.002	mS/cm	3.7	10
6364530	Conductivity	2019/10/02			104	90 - 110	<0.002	mS/cm	4.9	10

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: B9P0965
Report Date: 2019/10/02

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-100
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
6364628	Available (CaCl2) pH	2019/10/02			100	97 - 103			1.2	N/A

N/A = Not Applicable

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).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
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

Ewa Pranjic, M.Sc., C.Chem, 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.

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 2

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	P.O. #/ AFE#:		PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address:	520 Bingemans Centre Drive	Address:		Project #:	46372-100	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	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 [ ] Med/ Fine; [ ] Table 2 [ ] Ind/Comm [X] Coarse; [X] 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

Analysis Requested

	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ 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
1	MW101-19 0.5-2	2019/09/09	915	Soil	3								X
2	5-7		920										
3	10-12		925										
4	16-18		930										
5	MW101-19 0.5-2		915										
6	10-12		925										
7	MW102-19 0.5-2		1015										
8	5-7		1020										
9	8-10		1025										
10	15-17		1030										

LABORATORY USE ONLY

CUSTODY SEAL (Y) / N		COOLER TEMPERATURES
Present	Intact	
		19/19/20

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
Apuntillo	2019/09/09	1510	Ronklin Gracian	2019/09/09	15:30

09-Sep-19 15:30
Ronklin Gracian
B9P0965
KVG ENV-1244

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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

Invoice Information

Company Name: MTE Consultants Inc
Contact Name: Accounts Payable
Address: 520 Bingemans Centre Drive, Kitchener, ON
Phone: 519 743 6500 Fax: 519 743 6513
Email: accounting @mte85.com

Report Information (if differs from invoice)

Company Name:
Contact Name: Anthony Puntillo
Address:
Phone: Fax:
Email: apuntillo@mte85.com

Project Information (where applicable)

Quotation #:
P.O. #/ AFE#:
Project #: 46372-100
Site Location:
Site #:
Site Location Province:
Sampled By: ADP

Turnaround Time (TAT) Required

[X] Regular TAT (5-7 days) Most analyses

PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS

Rush TAT (Surcharges will be applied)
[ ] 1 Day [ ] 2 Days [ ] 3-4 Days

Date Required:
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 [ ] Med/ Fine
[ ] Table 2 [ ] Ind/Comm [X] Coarse
[X] 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	

COOLING MEDIA PRESENT: Y / N

Analysis Requested

	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ 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	MW102-19 22-24	2019/09/09	1035	Soil	3								X	
2	MW102-19 0.5-2		1015											
3	MW103-19 0.5-2		1200											
4	5-7		1205											
5	10-12		1210											
6	15-17		1215											
7	20-22		1220											
8	23-25		1225											
9	28-30		1230											
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	2019/09/09	1510	See page 1			

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 document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions

BV Labs Job #: B9P0965
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

Exceedence Summary Table – Reg153/04 T3-Soil/Res-C

Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
MW101-19 0.5-2	KSO988-01	Conductivity	0.7	0.75	0.002	mS/cm
MW101-19 0.5-2	KSO988-01	Sodium Adsorption Ratio	5.0	14		N/A
MW102-19 0.5-2	KSO994-01	Acid Extractable Lead (Pb)	120	240	1.0	ug/g

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.

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MTE - MAXXAM ADDITIONAL ANALYSIS REQUEST RECORD

Consultant Name: MTE

Contact Name: Anthony Puntillo

Maxxam Job #: B9P0965

(Please complete this form on a per job basis - i.e. one form per original Maxxam Job#)

Project Manager: Spencer Buck

Project #: 46372-100

Date Submitted: 13-Sep-19

Maxxam Location: Mississauga, Ontario

TURNAROUND TIME		
Standard	(4 days)	☑
Rush	(3 days)	☐
	(2 days)	☐
	(1 day)	☐
	(same day)	☐
Date Required :		

Applicable Guidelines (please specify):

Table 3 Residential, Coarse

CLIENT SAMPLE ID	Original COC #	LAB ID	Matrix	SAMPLING DATE (YY/MM/DD)	SAMPLING Time HH:MM	Metals Scan + Hydride Forming	PAHs	PHCs + VOCs								Sample previously submitted on hold (Y/N)	SPECIAL INSTRUCTIONS
MW101-19 0.5-2	N/A	KSO988	Soil	19/09/09	9:15	x	x									Y	
MW101-19 10-12	N/A	KSO990	Soil	19/09/09	9:25			x								Y	
MW1101-19 0.5-2	N/A	KSO992	Soil	19/09/09	9:15	x	x									Y	
MW102-19 0.5-2	N/A	KSO994	Soil	19/09/09	10:15	x	x									Y	
MW102-19 15-17	N/A	KSO997	Soil	19/09/09	10:30			x								Y	
MW103-19 0.5-2	N/A	KSP000	Soil	19/09/09	12:00	x	x									Y	
MW103-19 23-25	N/A	KSP005	Soil	19/09/09	12:25			x								Y	

ADDITIONAL ANALYSIS REQUEST

LAB USE ONLY

Original COC analysis completed and invoiced at time of add-on (circle one)

YES NO

(if yes original coc in invoice package is for reference only)

New Maxxam Job # (if applicable)

Anthony Puntillo	Date: (YYYY/MM/DD) 2019/09/13	Time: (HH:MM) 9:45

MTE - MAXXAM ADDITIONAL ANALYSIS REQUEST RECORD

Consultant Name: MTE

Contact Name: Anthony Puntillo

Maxxam Job #: B9P0965

(Please complete this form on a per job basis - i.e. one form per original Maxxam Job#)

Project Manager: Spencer Buck

Project #: 46372-100

Date Submitted: 20-Sep-19

Maxxam Location: Mississauga, Ontario

TURNAROUND TIME		
Standard	(4 days)	☐
Rush	(3 days)	☐
	(2 days)	☑
	(1 day)	☐
	(same day)	☐
Date Required :		

Applicable Guidelines (please specify):

Table 3 Residentical, Coarse

CLIENT SAMPLE ID	Original COC #	LAB ID	Matrix	SAMPLING DATE (YY/MM/DD)	SAMPLING Time HH:MM	Metals Scan + Hydride Forming										Sample previously submitted on hold (Y/N)	SPECIAL INSTRUCTIONS
MW102-19 5-7	N/A		Soil	19/09/09	10:20	x										Y	

ADDITIONAL ANALYSIS REQUEST

LAB USE ONLY
Original COC analysis completed and invoiced at time of add-on (circle one) YES NO (if yes original coc in invoice package is for reference only)
New Maxxam Job # (if applicable)

Spencer Buck	Date: (YYYY/MM/DD) 2019/09/20	Time: (HH:MM) 10:55	

MTE - MAXXAM ADDITIONAL ANALYSIS REQUEST RECORD

Project Manager: Spencer Buck

Consultant Name: MTE

Project #: 46372-100

Contact Name: Anthony Puntillo

Maxxam Job #: B9P0965; B9P2071

(Please complete this form on a per job basis - i.e. one form per original Maxxam Job#)

Date Submitted: 01-Oct-19

Maxxam Location: Mississauga, Ontario

TURNAROUND TIME		
Standard	(4 days)	☐
Rush	(3 days)	☐
	(2 days)	☐
	(1 day)	☐
	(same day)	☑
Date Required :		

Applicable Guidelines (please specify):

Table 3 Residential, Coarse

ADDITIONAL ANALYSIS REQUEST

CLIENT SAMPLE ID	Original COC #	LAB ID	Matrix	SAMPLING DATE (YY/MM/DD)	SAMPLING Time HH:MM	EC, SAR	pH									Sample previously submitted on hold (Y/N)	SPECIAL INSTRUCTIONS
MW101-19 0.5-2			Soil	19/09/09	10:20	X										Y	
MW102-19 0.5-2			Soil	19/09/09	10:15	X	X										
MW102-19 5-7			Soil	19/09/09	10:20	X	X										
MW103-19 0.5-2			Soil	19/09/09	12:00	X											
MW104-19 0.5-2			Soil	19/19/10	10:30	X											

LAB USE ONLY

Original COC analysis completed and invoiced at time of add-on (circle one)

YES NO

(if yes original coc in invoice package is for reference only)

New Maxxam Job # (if applicable)

Spencer Buck	Date: 2019/10/01	Time: 13:15

Your Project #: 46372-100
Your C.O.C. #: na

Attention: Anthony Puntillo

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2019/10/02
Report #: R5905016
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: B9P2071
Received: 2019/09/10, 15:21

Sample Matrix: Soil
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	1	N/A	2019/09/18	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	1	N/A	2019/09/18		EPA 8260C m
Conductivity	1	2019/10/02	2019/10/02	CAM SOP-00414	OMOE E3530 v1 m
Petroleum Hydrocarbons F2-F4 in Soil (1)	1	2019/09/18	2019/09/18	CAM SOP-00316	CCME CWS m
Strong Acid Leachable Metals by ICPMS	1	2019/09/17	2019/09/17	CAM SOP-00447	EPA 6020B m
Moisture	2	N/A	2019/09/14	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	1	2019/09/17	2019/09/17	CAM SOP-00318	EPA 8270D m
Sodium Adsorption Ratio (SAR)	1	N/A	2019/10/02	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs	1	N/A	2019/09/18	CAM SOP-00230	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.
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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

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your Project #: 46372-100
Your C.O.C. #: na

Attention: Anthony Puntillo

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2019/10/02
Report #: R5905016
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: B9P2071
Received: 2019/09/10, 15:21

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
02 Oct 2019 17:15:57

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.

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BV Labs Job #: B9P2071
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

BV Labs ID			KSV084		
Sampling Date			2019/09/10 10:30		
COC Number			na		
	UNITS	**Criteria**	**MW104-19 0.5-2**	**RDL**	**QC Batch**
Metals					
Acid Extractable Antimony (Sb)	ug/g	7.5	0.28	0.20	6336697
Acid Extractable Arsenic (As)	ug/g	18	3.9	1.0	6336697
Acid Extractable Barium (Ba)	ug/g	390	110	0.50	6336697
Acid Extractable Beryllium (Be)	ug/g	4	0.61	0.20	6336697
Acid Extractable Boron (B)	ug/g	120	5.6	5.0	6336697
Acid Extractable Cadmium (Cd)	ug/g	1.2	0.18	0.10	6336697
Acid Extractable Chromium (Cr)	ug/g	160	28	1.0	6336697
Acid Extractable Cobalt (Co)	ug/g	22	8.8	0.10	6336697
Acid Extractable Copper (Cu)	ug/g	140	31	0.50	6336697
Acid Extractable Lead (Pb)	ug/g	120	54	1.0	6336697
Acid Extractable Molybdenum (Mo)	ug/g	6.9	<0.50	0.50	6336697
Acid Extractable Nickel (Ni)	ug/g	100	17	0.50	6336697
Acid Extractable Selenium (Se)	ug/g	2.4	<0.50	0.50	6336697
Acid Extractable Silver (Ag)	ug/g	20	<0.20	0.20	6336697
Acid Extractable Thallium (Tl)	ug/g	1	0.10	0.050	6336697
Acid Extractable Uranium (U)	ug/g	23	0.59	0.050	6336697
Acid Extractable Vanadium (V)	ug/g	86	28	5.0	6336697
Acid Extractable Zinc (Zn)	ug/g	340	61	5.0	6336697

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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BV Labs Job #: B9P2071
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 PAHS (SOIL)

BV Labs ID			KSV084		
Sampling Date			2019/09/10 10:30		
COC Number			na		
	UNITS	**Criteria**	**MW104-19 0.5-2**	**RDL**	**QC Batch**
Inorganics					
Moisture	%	-	22	1.0	6333462
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/g	0.99	<0.0071	0.0071	6330746
Polyaromatic Hydrocarbons					
Acenaphthene	ug/g	7.9	0.0053	0.0050	6337198
Acenaphthylene	ug/g	0.15	0.0076	0.0050	6337198
Anthracene	ug/g	0.67	0.024	0.0050	6337198
Benzo(a)anthracene	ug/g	0.5	0.097	0.0050	6337198
Benzo(a)pyrene	ug/g	0.3	0.096	0.0050	6337198
Benzo(b/j)fluoranthene	ug/g	0.78	0.13	0.0050	6337198
Benzo(g,h,i)perylene	ug/g	6.6	0.078	0.0050	6337198
Benzo(k)fluoranthene	ug/g	0.78	0.049	0.0050	6337198
Chrysene	ug/g	7	0.076	0.0050	6337198
Dibenz(a,h)anthracene	ug/g	0.1	0.019	0.0050	6337198
Fluoranthene	ug/g	0.69	0.19	0.0050	6337198
Fluorene	ug/g	62	0.0069	0.0050	6337198
Indeno(1,2,3-cd)pyrene	ug/g	0.38	0.073	0.0050	6337198
1-Methylnaphthalene	ug/g	0.99	<0.0050	0.0050	6337198
2-Methylnaphthalene	ug/g	0.99	<0.0050	0.0050	6337198
Naphthalene	ug/g	0.6	<0.0050	0.0050	6337198
Phenanthrene	ug/g	6.2	0.084	0.0050	6337198
Pyrene	ug/g	78	0.16	0.0050	6337198
Surrogate Recovery (%)					
D10-Anthracene	%	-	93		6337198
D14-Terphenyl (FS)	%	-	101		6337198
D8-Acenaphthylene	%	-	94		6337198

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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Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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BV Labs Job #: B9P2071
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			KSV086			KSV086		
Sampling Date			2019/09/10 10:40			2019/09/10 10:40		
COC Number			na			na		
	UNITS	**Criteria**	**MW104-19 10-12**	**RDL**	**QC Batch**	**MW104-19 10-12 Lab-Dup**	**RDL**	**QC Batch**
Inorganics								
Moisture	%	-	12	1.0	6333462	12	1.0	6333462
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	0.05	<0.050	0.050	6330860			
Volatile Organics								
Acetone (2-Propanone)	ug/g	16	<0.50	0.50	6334254			
Benzene	ug/g	0.21	<0.020	0.020	6334254			
Bromodichloromethane	ug/g	13	<0.050	0.050	6334254			
Bromoform	ug/g	0.27	<0.050	0.050	6334254			
Bromomethane	ug/g	0.05	<0.050	0.050	6334254			
Carbon Tetrachloride	ug/g	0.05	<0.050	0.050	6334254			
Chlorobenzene	ug/g	2.4	<0.050	0.050	6334254			
Chloroform	ug/g	0.05	<0.050	0.050	6334254			
Dibromochloromethane	ug/g	9.4	<0.050	0.050	6334254			
1,2-Dichlorobenzene	ug/g	3.4	<0.050	0.050	6334254			
1,3-Dichlorobenzene	ug/g	4.8	<0.050	0.050	6334254			
1,4-Dichlorobenzene	ug/g	0.083	<0.050	0.050	6334254			
Dichlorodifluoromethane (FREON 12)	ug/g	16	<0.050	0.050	6334254			
1,1-Dichloroethane	ug/g	3.5	<0.050	0.050	6334254			
1,2-Dichloroethane	ug/g	0.05	<0.050	0.050	6334254			
1,1-Dichloroethylene	ug/g	0.05	<0.050	0.050	6334254			
cis-1,2-Dichloroethylene	ug/g	3.4	<0.050	0.050	6334254			
trans-1,2-Dichloroethylene	ug/g	0.084	<0.050	0.050	6334254			
1,2-Dichloropropane	ug/g	0.05	<0.050	0.050	6334254			
cis-1,3-Dichloropropene	ug/g	0.05	<0.030	0.030	6334254			
trans-1,3-Dichloropropene	ug/g	0.05	<0.040	0.040	6334254			
Ethylbenzene	ug/g	2	<0.020	0.020	6334254			
Ethylene Dibromide	ug/g	0.05	<0.050	0.050	6334254			

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)
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Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			KSV086			KSV086		
Sampling Date			2019/09/10 10:40			2019/09/10 10:40		
COC Number			na			na		
	UNITS	**Criteria**	**MW104-19 10-12**	**RDL**	**QC Batch**	**MW104-19 10-12 Lab-Dup**	**RDL**	**QC Batch**
Hexane	ug/g	2.8	<0.050	0.050	6334254			
Methylene Chloride(Dichloromethane)	ug/g	0.1	<0.050	0.050	6334254			
Methyl Ethyl Ketone (2-Butanone)	ug/g	16	<0.50	0.50	6334254			
Methyl Isobutyl Ketone	ug/g	1.7	<0.50	0.50	6334254			
Methyl t-butyl ether (MTBE)	ug/g	0.75	<0.050	0.050	6334254			
Styrene	ug/g	0.7	<0.050	0.050	6334254			
1,1,1,2-Tetrachloroethane	ug/g	0.058	<0.050	0.050	6334254			
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.050	0.050	6334254			
Tetrachloroethylene	ug/g	0.28	<0.050	0.050	6334254			
Toluene	ug/g	2.3	<0.020	0.020	6334254			
1,1,1-Trichloroethane	ug/g	0.38	<0.050	0.050	6334254			
1,1,2-Trichloroethane	ug/g	0.05	<0.050	0.050	6334254			
Trichloroethylene	ug/g	0.061	<0.050	0.050	6334254			
Trichlorofluoromethane (FREON 11)	ug/g	4	<0.050	0.050	6334254			
Vinyl Chloride	ug/g	0.02	<0.020	0.020	6334254			
p+m-Xylene	ug/g	-	<0.020	0.020	6334254			
o-Xylene	ug/g	-	<0.020	0.020	6334254			
Total Xylenes	ug/g	3.1	<0.020	0.020	6334254			
F1 (C6-C10)	ug/g	55	<10	10	6334254			
F1 (C6-C10) - BTEX	ug/g	55	<10	10	6334254			
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	98	<10	10	6338511			
F3 (C16-C34 Hydrocarbons)	ug/g	300	<50	50	6338511			
F4 (C34-C50 Hydrocarbons)	ug/g	2800	<50	50	6338511			
Reached Baseline at C50	ug/g	-	Yes		6338511			
Surrogate Recovery (%)								
o-Terphenyl	%	-	98		6338511			
4-Bromofluorobenzene	%	-	101		6334254			

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
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Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID			KSV086			KSV086		
Sampling Date			2019/09/10 10:40			2019/09/10 10:40		
COC Number			na			na		
	UNITS	**Criteria**	**MW104-19 10-12**	**RDL**	**QC Batch**	**MW104-19 10-12 Lab-Dup**	**RDL**	**QC Batch**
D10-o-Xylene	%	-	99		6334254			
D4-1,2-Dichloroethane	%	-	103		6334254			
D8-Toluene	%	-	95		6334254			

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)
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Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

RESULTS OF ANALYSES OF SOIL

BV Labs ID			KSV084		
Sampling Date			2019/09/10 10:30		
COC Number			na		
	UNITS	**Criteria**	**MW104-19 0.5-2**	**RDL**	**QC Batch**
Calculated Parameters					
Sodium Adsorption Ratio	N/A	5.0	**12**		6362049
Inorganics					
Conductivity	mS/cm	0.7	**0.76**	0.002	6364444

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
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BV Labs Job #: B9P2071
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

TEST SUMMARY

BV Labs ID: KSV084
Sample ID: MW104-19 0.5-2
Matrix: Soil

Collected: 2019/09/10
Shipped:
Received: 2019/09/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	6330746	N/A	2019/09/18	Automated Statchk
Conductivity	AT	6364444	2019/10/02	2019/10/02	Kazzandra Adeva
Strong Acid Leachable Metals by ICPMS	ICP/MS	6336697	2019/09/17	2019/09/17	Daniel Teclu
Moisture	BAL	6333462	N/A	2019/09/14	Mithunaa Sasitheepan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	6337198	2019/09/17	2019/09/17	Mitesh Raj
Sodium Adsorption Ratio (SAR)	CALC/MET	6362049	N/A	2019/10/02	Automated Statchk

BV Labs ID: KSV086
Sample ID: MW104-19 10-12
Matrix: Soil

Collected: 2019/09/10
Shipped:
Received: 2019/09/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6330860	N/A	2019/09/18	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6338511	2019/09/18	2019/09/18	Dorina Popa
Moisture	BAL	6333462	N/A	2019/09/14	Mithunaa Sasitheepan
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6334254	N/A	2019/09/18	Denis Reid

BV Labs ID: KSV086 Dup
Sample ID: MW104-19 10-12
Matrix: Soil

Collected: 2019/09/10
Shipped:
Received: 2019/09/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6333462	N/A	2019/09/14	Mithunaa Sasitheepan

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	16.3°C

Revised REport [2019/10/02]: Requested analysis added as per AARF.

Results relate only to the items tested.

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BV Labs Job #: B9P2071
Report Date: 2019/10/02

QUALITY ASSURANCE REPORT

MTE Consultants Inc
Client Project #: 46372-100
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
6334254	4-Bromofluorobenzene	2019/09/17	105	60 - 140	106	60 - 140	101	%		
6334254	D10-o-Xylene	2019/09/17	100	60 - 130	106	60 - 130	92	%		
6334254	D4-1,2-Dichloroethane	2019/09/17	102	60 - 140	103	60 - 140	104	%		
6334254	D8-Toluene	2019/09/17	104	60 - 140	106	60 - 140	96	%		
6337198	D10-Anthracene	2019/09/17	97	50 - 130	101	50 - 130	101	%		
6337198	D14-Terphenyl (FS)	2019/09/17	96	50 - 130	96	50 - 130	93	%		
6337198	D8-Acenaphthylene	2019/09/17	97	50 - 130	100	50 - 130	97	%		
6338511	o-Terphenyl	2019/09/18	98	60 - 130	97	60 - 130	99	%		
6333462	Moisture	2019/09/14							0.86	20
6334254	1,1,1,2-Tetrachloroethane	2019/09/18	109	60 - 140	111	60 - 130	<0.050	ug/g	NC	50
6334254	1,1,1-Trichloroethane	2019/09/18	103	60 - 140	102	60 - 130	<0.050	ug/g	NC	50
6334254	1,1,2,2-Tetrachloroethane	2019/09/18	98	60 - 140	100	60 - 130	<0.050	ug/g	NC	50
6334254	1,1,2-Trichloroethane	2019/09/18	100	60 - 140	103	60 - 130	<0.050	ug/g	NC	50
6334254	1,1-Dichloroethane	2019/09/18	98	60 - 140	98	60 - 130	<0.050	ug/g	NC	50
6334254	1,1-Dichloroethylene	2019/09/18	105	60 - 140	104	60 - 130	<0.050	ug/g	NC	50
6334254	1,2-Dichlorobenzene	2019/09/18	95	60 - 140	97	60 - 130	<0.050	ug/g	NC	50
6334254	1,2-Dichloroethane	2019/09/18	99	60 - 140	99	60 - 130	<0.050	ug/g	NC	50
6334254	1,2-Dichloropropane	2019/09/18	88	60 - 140	87	60 - 130	<0.050	ug/g	NC	50
6334254	1,3-Dichlorobenzene	2019/09/18	96	60 - 140	97	60 - 130	<0.050	ug/g	NC	50
6334254	1,4-Dichlorobenzene	2019/09/18	101	60 - 140	103	60 - 130	<0.050	ug/g	NC	50
6334254	Acetone (2-Propanone)	2019/09/18	95	60 - 140	96	60 - 140	<0.50	ug/g	NC	50
6334254	Benzene	2019/09/18	97	60 - 140	96	60 - 130	<0.020	ug/g	NC	50
6334254	Bromodichloromethane	2019/09/18	95	60 - 140	94	60 - 130	<0.050	ug/g	NC	50
6334254	Bromoform	2019/09/18	110	60 - 140	112	60 - 130	<0.050	ug/g	NC	50
6334254	Bromomethane	2019/09/18	103	60 - 140	102	60 - 140	<0.050	ug/g	NC	50
6334254	Carbon Tetrachloride	2019/09/18	107	60 - 140	106	60 - 130	<0.050	ug/g	NC	50
6334254	Chlorobenzene	2019/09/18	90	60 - 140	91	60 - 130	<0.050	ug/g	NC	50
6334254	Chloroform	2019/09/18	92	60 - 140	92	60 - 130	<0.050	ug/g	NC	50
6334254	cis-1,2-Dichloroethylene	2019/09/18	90	60 - 140	90	60 - 130	<0.050	ug/g	NC	50
6334254	cis-1,3-Dichloropropene	2019/09/18	81	60 - 140	79	60 - 130	<0.030	ug/g	NC	50
6334254	Dibromochloromethane	2019/09/18	105	60 - 140	107	60 - 130	<0.050	ug/g	NC	50

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BV Labs Job #: B9P2071
Report Date: 2019/10/02

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-100
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
6334254	Dichlorodifluoromethane (FREON 12)	2019/09/18	125	60 - 140	122	60 - 140	<0.050	ug/g	NC	50
6334254	Ethylbenzene	2019/09/18	88	60 - 140	88	60 - 130	<0.020	ug/g	NC	50
6334254	Ethylene Dibromide	2019/09/18	98	60 - 140	100	60 - 130	<0.050	ug/g	NC	50
6334254	F1 (C6-C10) - BTEX	2019/09/18					<10	ug/g	NC	30
6334254	F1 (C6-C10)	2019/09/18	92	60 - 140	96	80 - 120	<10	ug/g	NC	30
6334254	Hexane	2019/09/18	100	60 - 140	98	60 - 130	<0.050	ug/g	NC	50
6334254	Methyl Ethyl Ketone (2-Butanone)	2019/09/18	89	60 - 140	91	60 - 140	<0.50	ug/g	NC	50
6334254	Methyl Isobutyl Ketone	2019/09/18	85	60 - 140	86	60 - 130	<0.50	ug/g	NC	50
6334254	Methyl t-butyl ether (MTBE)	2019/09/18	86	60 - 140	85	60 - 130	<0.050	ug/g	NC	50
6334254	Methylene Chloride(Dichloromethane)	2019/09/18	97	60 - 140	97	60 - 130	<0.050	ug/g	NC	50
6334254	o-Xylene	2019/09/18	89	60 - 140	90	60 - 130	<0.020	ug/g	NC	50
6334254	p+m-Xylene	2019/09/18	91	60 - 140	91	60 - 130	<0.020	ug/g	NC	50
6334254	Styrene	2019/09/18	91	60 - 140	93	60 - 130	<0.050	ug/g	NC	50
6334254	Tetrachloroethylene	2019/09/18	100	60 - 140	101	60 - 130	<0.050	ug/g	NC	50
6334254	Toluene	2019/09/18	92	60 - 140	93	60 - 130	<0.020	ug/g	NC	50
6334254	Total Xylenes	2019/09/18					<0.020	ug/g	NC	50
6334254	trans-1,2-Dichloroethylene	2019/09/18	97	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
6334254	trans-1,3-Dichloropropene	2019/09/18	89	60 - 140	89	60 - 130	<0.040	ug/g	NC	50
6334254	Trichloroethylene	2019/09/18	104	60 - 140	102	60 - 130	<0.050	ug/g	NC	50
6334254	Trichlorofluoromethane (FREON 11)	2019/09/18	118	60 - 140	116	60 - 130	<0.050	ug/g	NC	50
6334254	Vinyl Chloride	2019/09/18	115	60 - 140	114	60 - 130	<0.020	ug/g	NC	50
6336697	Acid Extractable Antimony (Sb)	2019/09/17	85	75 - 125	97	80 - 120	<0.20	ug/g		
6336697	Acid Extractable Arsenic (As)	2019/09/17	103	75 - 125	98	80 - 120	<1.0	ug/g		
6336697	Acid Extractable Barium (Ba)	2019/09/17	NC	75 - 125	97	80 - 120	<0.50	ug/g	2.6	30
6336697	Acid Extractable Beryllium (Be)	2019/09/17	107	75 - 125	99	80 - 120	<0.20	ug/g	1.6	30
6336697	Acid Extractable Boron (B)	2019/09/17	102	75 - 125	102	80 - 120	<5.0	ug/g	3.4	30
6336697	Acid Extractable Cadmium (Cd)	2019/09/17	108	75 - 125	99	80 - 120	<0.10	ug/g	18	30
6336697	Acid Extractable Chromium (Cr)	2019/09/17	NC	75 - 125	101	80 - 120	<1.0	ug/g	0.68	30
6336697	Acid Extractable Cobalt (Co)	2019/09/17	109	75 - 125	100	80 - 120	<0.10	ug/g	0.033	30
6336697	Acid Extractable Copper (Cu)	2019/09/17	104	75 - 125	99	80 - 120	<0.50	ug/g	1.8	30
6336697	Acid Extractable Lead (Pb)	2019/09/17	108	75 - 125	103	80 - 120	<1.0	ug/g	0.49	30

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: B9P2071
Report Date: 2019/10/02

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-100
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
6336697	Acid Extractable Molybdenum (Mo)	2019/09/17	104	75 - 125	100	80 - 120	<0.50	ug/g	20	30
6336697	Acid Extractable Nickel (Ni)	2019/09/17	NC	75 - 125	100	80 - 120	<0.50	ug/g	2.1	30
6336697	Acid Extractable Selenium (Se)	2019/09/17	106	75 - 125	103	80 - 120	<0.50	ug/g		
6336697	Acid Extractable Silver (Ag)	2019/09/17	107	75 - 125	100	80 - 120	<0.20	ug/g	NC	30
6336697	Acid Extractable Thallium (Tl)	2019/09/17	106	75 - 125	103	80 - 120	<0.050	ug/g	8.0	30
6336697	Acid Extractable Uranium (U)	2019/09/17	107	75 - 125	102	80 - 120	<0.050	ug/g	1.8	30
6336697	Acid Extractable Vanadium (V)	2019/09/17	NC	75 - 125	99	80 - 120	<5.0	ug/g	0.97	30
6336697	Acid Extractable Zinc (Zn)	2019/09/17	NC	75 - 125	98	80 - 120	<5.0	ug/g	2.8	30
6337198	1-Methylnaphthalene	2019/09/17	110	50 - 130	114	50 - 130	<0.0050	ug/g	NC	40
6337198	2-Methylnaphthalene	2019/09/17	105	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
6337198	Acenaphthene	2019/09/17	96	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
6337198	Acenaphthylene	2019/09/17	96	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
6337198	Anthracene	2019/09/17	91	50 - 130	92	50 - 130	<0.0050	ug/g	NC	40
6337198	Benzo(a)anthracene	2019/09/17	109	50 - 130	110	50 - 130	<0.0050	ug/g	NC	40
6337198	Benzo(a)pyrene	2019/09/17	99	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
6337198	Benzo(b/j)fluoranthene	2019/09/17	96	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
6337198	Benzo(g,h,i)perylene	2019/09/17	101	50 - 130	110	50 - 130	<0.0050	ug/g	NC	40
6337198	Benzo(k)fluoranthene	2019/09/17	96	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
6337198	Chrysene	2019/09/17	93	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
6337198	Dibenz(a,h)anthracene	2019/09/17	105	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
6337198	Fluoranthene	2019/09/17	100	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
6337198	Fluorene	2019/09/17	99	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
6337198	Indeno(1,2,3-cd)pyrene	2019/09/17	101	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40
6337198	Naphthalene	2019/09/17	88	50 - 130	93	50 - 130	<0.0050	ug/g	NC	40
6337198	Phenanthrene	2019/09/17	97	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
6337198	Pyrene	2019/09/17	97	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
6338511	F2 (C10-C16 Hydrocarbons)	2019/09/18	102	50 - 130	100	80 - 120	<10	ug/g	NC	30
6338511	F3 (C16-C34 Hydrocarbons)	2019/09/18	93	50 - 130	95	80 - 120	<50	ug/g	NC	30
6338511	F4 (C34-C50 Hydrocarbons)	2019/09/18	101	50 - 130	99	80 - 120	<50	ug/g	NC	30

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: B9P2071
Report Date: 2019/10/02

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-100
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
6364444	Conductivity	2019/10/02			104	90 - 110	<0.002	mS/cm	3.7	10

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).

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BV Labs Job #: B9P2071
Report Date: 2019/10/02

MTE Consultants Inc
Client Project #: 46372-100
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

Ewa Pranjic, M.Sc., C.Chem, 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 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:	Accounts Payable	Contact Name:	Anthony Puntillo	P.O. #/ AFE#:		PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address:	520 Bingemans Centre Drive	Address:		Project #:	46372-100	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	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 [ ] Med/ Fine; [ ] Table 2 [ ] Ind/Comm [X] Coarse; [X] 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

Analysis Requested

	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ 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	MW104-19 0.5-2	2019/09/10	1030	Soil	3															X	
2	5-7		1035																		
3	10-12		1040																		
4	16-18		1045																		
5																					
6																					
7																					
8																					
9																					
10																					

LABORATORY USE ONLY

CUSTODY SEAL Y / N		COOLER TEMPERATURES
Present	Intact	
Y	Y	19 13 17
		ON ICE

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	2019/09/10	1515	Roger Roger K Reed	2019/09/10	15:21

10-Sep-19 15:21
Ronklin Gracian
B9P2071
DSG ENV-989

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 a
our terms available at http://www.bvlabs.com/terms-and-conditions

Exceedence Summary Table – Reg153/04 T3-Soil/Res-C

Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
MW104-19 0.5-2	KSV084-01	Conductivity	0.7	0.76	0.002	mS/cm
MW104-19 0.5-2	KSV084-01	Sodium Adsorption Ratio	5.0	12		N/A

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.

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MTE - MAXXAM ADDITIONAL ANALYSIS REQUEST RECORD

Consultant Name: MTE

Contact Name: Anthony Puntillo

Maxxam Job #: B9P2071

(Please complete this form on a per job basis - i.e. one form per original Maxxam Job#)

Project Manager: Spencer Buck

Project #: 46372-100

Date Submitted: 13-Sep-19

Maxxam Location: Mississauga, Ontario

TURNAROUND TIME		
Standard	(4 days)	☑
Rush	(3 days)	☐
	(2 days)	☐
	(1 day)	☐
	(same day)	☐
Date Required :		

Applicable Guidelines (please specify):

Table 3 Residentical, Coarse

ADDITIONAL ANALYSIS REQUEST

CLIENT SAMPLE ID	Original COC #	LAB ID	Matrix	SAMPLING DATE (YY/MM/DD)	SAMPLING Time HH:MM	Metals Scan + Hydride Forming	PAHs	PHCs + VOCs								Sample previously submitted on hold (Y/N)	SPECIAL INSTRUCTIONS
MW104-19 0.5-2	N/A	KSV084	Soil	19/09/10	10:30	x	x									Y	
MW104-19 10-12	N/A	KSV086	Soil	19/09/10	10:40			x								Y	

LAB USE ONLY

Original COC analysis completed and invoiced at time of add-on (circle one)

YES NO

(if yes original coc in invoice package is for reference only)

New Maxxam Job # (if applicable)

Anthony Puntillo	Date: (YYYY/MM/DD) 2019/09/13	Time: (HH:MM) 9:45

MTE - MAXXAM ADDITIONAL ANALYSIS REQUEST RECORD

Project Manager: Spencer Buck

Consultant Name: MTE

Project #: 46372-100

Contact Name: Anthony Puntillo

Maxxam Job #: B9P0965; B9P2071

(Please complete this form on a per job basis - i.e. one form per original Maxxam Job#)

Date Submitted: 01-Oct-19

Maxxam Location: Mississauga, Ontario

TURNAROUND TIME		
Standard	(4 days)	☐
Rush	(3 days)	☐
	(2 days)	☐
	(1 day)	☐
	(same day)	☑
Date Required :		

Applicable Guidelines (please specify):

Table 3 Residential, Coarse

ADDITIONAL ANALYSIS REQUEST

CLIENT SAMPLE ID	Original COC #	LAB ID	Matrix	SAMPLING DATE (YY/MM/DD)	SAMPLING Time HH:MM	EC, SAR	pH									Sample previously submitted on hold (Y/N)	SPECIAL INSTRUCTIONS
MW101-19 0.5-2			Soil	19/09/09	10:20	X										Y	
MW102-19 0.5-2			Soil	19/09/09	10:15	X	X										
MW102-19 5-7			Soil	19/09/09	10:20	X	X										
MW103-19 0.5-2			Soil	19/09/09	12:00	X											
MW104-19 0.5-2			Soil	19/19/10	10:30	X											

LAB USE ONLY

Original COC analysis completed and invoiced at time of add-on (circle one)

YES NO

(if yes original coc in invoice package is for reference only)

New Maxxam Job # (if applicable)

Spencer Buck	Date: 2019/10/01	Time: 13:15

Your Project #: 46372-100
Your C.O.C. #: 736997-01-01

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2019/09/16
Report #: R5882149
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9P2059
Received: 2019/09/10, 15:21

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
1,3-Dichloropropene Sum	1	N/A	2019/09/12		EPA 8260C m
1,3-Dichloropropene Sum	4	N/A	2019/09/16		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1)	4	2019/09/12	2019/09/13	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	4	N/A	2019/09/12	CAM SOP-00447	EPA 6020B m
Volatile Organic Compounds and F1 PHCs	4	N/A	2019/09/14	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds in Water	1	N/A	2019/09/11	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.
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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.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your Project #: 46372-100
Your C.O.C. #: 736997-01-01

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2019/09/16
Report #: R5882149
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9P2059
Received: 2019/09/10, 15:21

Encryption Key

Augustyna Dobosz
Project Manager
16 Sep 2019 17:09:57

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.

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BV Labs Job #: B9P2059
Report Date: 2019/09/16

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (WATER)

BV Labs ID			KSV027	KSV028	KSV029	KSV030		
Sampling Date			2019/09/10 11:00	2019/09/10 08:30	2019/09/10 09:30	2019/09/10 14:00		
COC Number			736997-01-01	736997-01-01	736997-01-01	736997-01-01		
	UNITS	**Criteria**	**MW101-19**	**MW102-19**	**MW103-19**	**MW104-19**	**RDL**	**QC Batch**
Metals								
Dissolved Antimony (Sb)	ug/L	20000	<0.50	0.76	0.64	0.96	0.50	6326316
Dissolved Arsenic (As)	ug/L	1900	4.4	1.4	<1.0	1.4	1.0	6326316
Dissolved Barium (Ba)	ug/L	29000	280	93	210	110	2.0	6326316
Dissolved Beryllium (Be)	ug/L	67	<0.50	<0.50	<0.50	<0.50	0.50	6326316
Dissolved Boron (B)	ug/L	45000	290	770	400	770	10	6326316
Dissolved Cadmium (Cd)	ug/L	2.7	<0.10	<0.10	<0.10	<0.10	0.10	6326316
Dissolved Chromium (Cr)	ug/L	810	<5.0	<5.0	<5.0	<5.0	5.0	6326316
Dissolved Cobalt (Co)	ug/L	66	<0.50	<0.50	<0.50	<0.50	0.50	6326316
Dissolved Copper (Cu)	ug/L	87	3.4	2.9	2.1	2.1	1.0	6326316
Dissolved Lead (Pb)	ug/L	25	<0.50	<0.50	<0.50	<0.50	0.50	6326316
Dissolved Molybdenum (Mo)	ug/L	9200	11	13	31	15	0.50	6326316
Dissolved Nickel (Ni)	ug/L	490	1.5	<1.0	<1.0	<1.0	1.0	6326316
Dissolved Selenium (Se)	ug/L	63	<2.0	<2.0	<2.0	<2.0	2.0	6326316
Dissolved Silver (Ag)	ug/L	1.5	<0.10	<0.10	<0.10	<0.10	0.10	6326316
Dissolved Thallium (Tl)	ug/L	510	0.080	<0.050	<0.050	<0.050	0.050	6326316
Dissolved Uranium (U)	ug/L	420	1.9	2.2	3.0	2.3	0.10	6326316
Dissolved Vanadium (V)	ug/L	250	1.4	0.94	0.60	0.79	0.50	6326316
Dissolved Zinc (Zn)	ug/L	1100	5.4	<5.0	<5.0	<5.0	5.0	6326316

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: B9P2059
Report Date: 2019/09/16

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (WATER)

BV Labs ID			KSV027	KSV028	KSV029	KSV030		
Sampling Date			2019/09/10 11:00	2019/09/10 08:30	2019/09/10 09:30	2019/09/10 14:00		
COC Number			736997-01-01	736997-01-01	736997-01-01	736997-01-01		
	UNITS	**Criteria**	**MW101-19**	**MW102-19**	**MW103-19**	**MW104-19**	**RDL**	**QC Batch**
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	5.2	<0.50	<0.50	<0.50	<0.50	0.50	6323857
Volatile Organics								
Acetone (2-Propanone)	ug/L	130000	<10	<10	<10	<10	10	6323414
Benzene	ug/L	44	0.20	<0.20	<0.20	<0.20	0.20	6323414
Bromodichloromethane	ug/L	85000	<0.50	<0.50	<0.50	<0.50	0.50	6323414
Bromoform	ug/L	380	<1.0	<1.0	<1.0	<1.0	1.0	6323414
Bromomethane	ug/L	5.6	<0.50	<0.50	<0.50	<0.50	0.50	6323414
Carbon Tetrachloride	ug/L	0.79	<0.20	<0.20	<0.20	<0.20	0.20	6323414
Chlorobenzene	ug/L	630	<0.20	<0.20	<0.20	<0.20	0.20	6323414
Chloroform	ug/L	2.4	<0.20	<0.20	<0.20	<0.20	0.20	6323414
Dibromochloromethane	ug/L	82000	<0.50	<0.50	<0.50	<0.50	0.50	6323414
1,2-Dichlorobenzene	ug/L	4600	<0.50	<0.50	<0.50	<0.50	0.50	6323414
1,3-Dichlorobenzene	ug/L	9600	<0.50	<0.50	<0.50	<0.50	0.50	6323414
1,4-Dichlorobenzene	ug/L	8	<0.50	<0.50	<0.50	<0.50	0.50	6323414
Dichlorodifluoromethane (FREON 12)	ug/L	4400	<1.0	<1.0	<1.0	<1.0	1.0	6323414
1,1-Dichloroethane	ug/L	320	<0.20	<0.20	<0.20	<0.20	0.20	6323414
1,2-Dichloroethane	ug/L	1.6	<0.50	<0.50	<0.50	<0.50	0.50	6323414
1,1-Dichloroethylene	ug/L	1.6	<0.20	<0.20	<0.20	<0.20	0.20	6323414
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	<0.50	<0.50	0.50	6323414
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	<0.50	<0.50	0.50	6323414
1,2-Dichloropropane	ug/L	16	<0.20	<0.20	<0.20	<0.20	0.20	6323414
cis-1,3-Dichloropropene	ug/L	5.2	<0.30	<0.30	<0.30	<0.30	0.30	6323414
trans-1,3-Dichloropropene	ug/L	5.2	<0.40	<0.40	<0.40	<0.40	0.40	6323414
Ethylbenzene	ug/L	2300	<0.20	<0.20	<0.20	<0.20	0.20	6323414
Ethylene Dibromide	ug/L	0.25	<0.20	<0.20	<0.20	<0.20	0.20	6323414
Hexane	ug/L	51	<1.0	<1.0	<1.0	<1.0	1.0	6323414
Methylene Chloride(Dichloromethane)	ug/L	610	<2.0	<2.0	<2.0	<2.0	2.0	6323414
Methyl Ethyl Ketone (2-Butanone)	ug/L	470000	<10	<10	<10	<10	10	6323414
Methyl Isobutyl Ketone	ug/L	140000	<5.0	<5.0	<5.0	<5.0	5.0	6323414

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Non- Potable Ground Water - All Types of Property Uses - Coarse Textured Soil

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BV Labs Job #: B9P2059
Report Date: 2019/09/16

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS & F1-F4 (WATER)

BV Labs ID			KSV027	KSV028	KSV029	KSV030		
Sampling Date			2019/09/10 11:00	2019/09/10 08:30	2019/09/10 09:30	2019/09/10 14:00		
COC Number			736997-01-01	736997-01-01	736997-01-01	736997-01-01		
	UNITS	**Criteria**	**MW101-19**	**MW102-19**	**MW103-19**	**MW104-19**	**RDL**	**QC Batch**
Methyl t-butyl ether (MTBE)	ug/L	190	<0.50	<0.50	<0.50	<0.50	0.50	6323414
Styrene	ug/L	1300	<0.50	<0.50	<0.50	<0.50	0.50	6323414
1,1,1,2-Tetrachloroethane	ug/L	3.3	<0.50	<0.50	<0.50	<0.50	0.50	6323414
1,1,2,2-Tetrachloroethane	ug/L	3.2	<0.50	<0.50	<0.50	<0.50	0.50	6323414
Tetrachloroethylene	ug/L	1.6	<0.20	<0.20	<0.20	<0.20	0.20	6323414
Toluene	ug/L	18000	<0.20	<0.20	<0.20	<0.20	0.20	6323414
1,1,1-Trichloroethane	ug/L	640	<0.20	<0.20	<0.20	<0.20	0.20	6323414
1,1,2-Trichloroethane	ug/L	4.7	<0.50	<0.50	<0.50	<0.50	0.50	6323414
Trichloroethylene	ug/L	1.6	<0.20	<0.20	<0.20	<0.20	0.20	6323414
Trichlorofluoromethane (FREON 11)	ug/L	2500	<0.50	<0.50	<0.50	<0.50	0.50	6323414
Vinyl Chloride	ug/L	0.5	<0.20	<0.20	<0.20	<0.20	0.20	6323414
p+m-Xylene	ug/L	-	<0.20	0.29	<0.20	0.48	0.20	6323414
o-Xylene	ug/L	-	<0.20	<0.20	<0.20	0.22	0.20	6323414
Total Xylenes	ug/L	4200	<0.20	0.29	<0.20	0.70	0.20	6323414
F1 (C6-C10)	ug/L	750	<25	<25	<25	<25	25	6323414
F1 (C6-C10) - BTEX	ug/L	750	<25	<25	<25	<25	25	6323414
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	150	<100	<100	<100	<100	100	6329672
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	<200	<200	<200	200	6329672
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	<200	<200	<200	200	6329672
Reached Baseline at C50	ug/L	-	Yes	Yes	Yes	Yes		6329672
Surrogate Recovery (%)								
o-Terphenyl	%	-	103	102	102	101		6329672
4-Bromofluorobenzene	%	-	89	85	86	86		6323414
D4-1,2-Dichloroethane	%	-	102	102	103	103		6323414
D8-Toluene	%	-	93	94	94	95		6323414

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 #: B9P2059
Report Date: 2019/09/16

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS (WATER)

BV Labs ID			KSV031		
Sampling Date			2019/09/10 11:00		
COC Number			736997-01-01		
	UNITS	**Criteria**	**MW1101-19**	**RDL**	**QC Batch**
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	5.2	<0.50	0.50	6323857
Volatile Organics					
Acetone (2-Propanone)	ug/L	130000	<10	10	6324521
Benzene	ug/L	44	0.20	0.20	6324521
Bromodichloromethane	ug/L	85000	<0.50	0.50	6324521
Bromoform	ug/L	380	<1.0	1.0	6324521
Bromomethane	ug/L	5.6	<0.50	0.50	6324521
Carbon Tetrachloride	ug/L	0.79	<0.20	0.20	6324521
Chlorobenzene	ug/L	630	<0.20	0.20	6324521
Chloroform	ug/L	2.4	<0.20	0.20	6324521
Dibromochloromethane	ug/L	82000	<0.50	0.50	6324521
1,2-Dichlorobenzene	ug/L	4600	<0.50	0.50	6324521
1,3-Dichlorobenzene	ug/L	9600	<0.50	0.50	6324521
1,4-Dichlorobenzene	ug/L	8	<0.50	0.50	6324521
Dichlorodifluoromethane (FREON 12)	ug/L	4400	<1.0	1.0	6324521
1,1-Dichloroethane	ug/L	320	<0.20	0.20	6324521
1,2-Dichloroethane	ug/L	1.6	<0.50	0.50	6324521
1,1-Dichloroethylene	ug/L	1.6	<0.20	0.20	6324521
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	6324521
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	6324521
1,2-Dichloropropane	ug/L	16	<0.20	0.20	6324521
cis-1,3-Dichloropropene	ug/L	5.2	<0.30	0.30	6324521
trans-1,3-Dichloropropene	ug/L	5.2	<0.40	0.40	6324521
Ethylbenzene	ug/L	2300	<0.20	0.20	6324521
Ethylene Dibromide	ug/L	0.25	<0.20	0.20	6324521
Hexane	ug/L	51	<1.0	1.0	6324521
Methylene Chloride(Dichloromethane)	ug/L	610	<2.0	2.0	6324521

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Non- Potable Ground Water - All Types of Property Uses - Coarse Textured Soil

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BV Labs Job #: B9P2059
Report Date: 2019/09/16

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

O.REG 153 VOCS BY HS (WATER)

BV Labs ID			KSV031		
Sampling Date			2019/09/10 11:00		
COC Number			736997-01-01		
	UNITS	**Criteria**	**MW1101-19**	**RDL**	**QC Batch**
Methyl Ethyl Ketone (2-Butanone)	ug/L	470000	<10	10	6324521
Methyl Isobutyl Ketone	ug/L	140000	<5.0	5.0	6324521
Methyl t-butyl ether (MTBE)	ug/L	190	<0.50	0.50	6324521
Styrene	ug/L	1300	<0.50	0.50	6324521
1,1,1,2-Tetrachloroethane	ug/L	3.3	<0.50	0.50	6324521
1,1,2,2-Tetrachloroethane	ug/L	3.2	<0.50	0.50	6324521
Tetrachloroethylene	ug/L	1.6	<0.20	0.20	6324521
Toluene	ug/L	18000	<0.20	0.20	6324521
1,1,1-Trichloroethane	ug/L	640	<0.20	0.20	6324521
1,1,2-Trichloroethane	ug/L	4.7	<0.50	0.50	6324521
Trichloroethylene	ug/L	1.6	<0.20	0.20	6324521
Trichlorofluoromethane (FREON 11)	ug/L	2500	<0.50	0.50	6324521
Vinyl Chloride	ug/L	0.5	<0.20	0.20	6324521
p+m-Xylene	ug/L	-	<0.20	0.20	6324521
o-Xylene	ug/L	-	<0.20	0.20	6324521
Total Xylenes	ug/L	4200	<0.20	0.20	6324521
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	-	99		6324521
D4-1,2-Dichloroethane	%	-	107		6324521
D8-Toluene	%	-	98		6324521

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
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BV Labs Job #: B9P2059
Report Date: 2019/09/16

MTE Consultants Inc
Client Project #: 46372-100
Sampler Initials: ADP

TEST SUMMARY

BV Labs ID: KSV027
Sample ID: MW101-19
Matrix: Water

Collected: 2019/09/10
Shipped:
Received: 2019/09/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6323857	N/A	2019/09/16	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6329672	2019/09/12	2019/09/13	Jeevaraj Jeevaratrnam
Dissolved Metals by ICPMS	ICP/MS	6326316	N/A	2019/09/12	Azita Fazaeli
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6323414	N/A	2019/09/14	Rebecca McClean

BV Labs ID: KSV028
Sample ID: MW102-19
Matrix: Water

Collected: 2019/09/10
Shipped:
Received: 2019/09/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6323857	N/A	2019/09/16	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6329672	2019/09/12	2019/09/13	Jeevaraj Jeevaratrnam
Dissolved Metals by ICPMS	ICP/MS	6326316	N/A	2019/09/12	Azita Fazaeli
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6323414	N/A	2019/09/14	Rebecca McClean

BV Labs ID: KSV029
Sample ID: MW103-19
Matrix: Water

Collected: 2019/09/10
Shipped:
Received: 2019/09/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6323857	N/A	2019/09/16	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6329672	2019/09/12	2019/09/13	Jeevaraj Jeevaratrnam
Dissolved Metals by ICPMS	ICP/MS	6326316	N/A	2019/09/12	Azita Fazaeli
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6323414	N/A	2019/09/14	Rebecca McClean

BV Labs ID: KSV030
Sample ID: MW104-19
Matrix: Water

Collected: 2019/09/10
Shipped:
Received: 2019/09/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6323857	N/A	2019/09/16	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6329672	2019/09/12	2019/09/13	Jeevaraj Jeevaratrnam
Dissolved Metals by ICPMS	ICP/MS	6326316	N/A	2019/09/12	Azita Fazaeli
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6323414	N/A	2019/09/14	Rebecca McClean

BV Labs ID: KSV031
Sample ID: MW1101-19
Matrix: Water

Collected: 2019/09/10
Shipped:
Received: 2019/09/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6323857	N/A	2019/09/12	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	6324521	N/A	2019/09/11	Chandni Khawas

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	14.0°C

Results relate only to the items tested.

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BV Labs Job #: B9P2059
Report Date: 2019/09/16

QUALITY ASSURANCE REPORT

MTE Consultants Inc
Client Project #: 46372-100
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
6323414	4-Bromofluorobenzene	2019/09/14	97	70 - 130	100	70 - 130	89	%		
6323414	D4-1,2-Dichloroethane	2019/09/14	101	70 - 130	97	70 - 130	99	%		
6323414	D8-Toluene	2019/09/14	100	70 - 130	100	70 - 130	95	%		
6324521	4-Bromofluorobenzene	2019/09/11	101	70 - 130	100	70 - 130	99	%		
6324521	D4-1,2-Dichloroethane	2019/09/11	100	70 - 130	101	70 - 130	101	%		
6324521	D8-Toluene	2019/09/11	101	70 - 130	102	70 - 130	99	%		
6329672	o-Terphenyl	2019/09/12	104	60 - 130	106	60 - 130	103	%		
6323414	1,1,1,2-Tetrachloroethane	2019/09/14	108	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
6323414	1,1,1-Trichloroethane	2019/09/14	98	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
6323414	1,1,2,2-Tetrachloroethane	2019/09/14	109	70 - 130	104	70 - 130	<0.50	ug/L	NC	30
6323414	1,1,2-Trichloroethane	2019/09/14	102	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
6323414	1,1-Dichloroethane	2019/09/14	98	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
6323414	1,1-Dichloroethylene	2019/09/14	99	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
6323414	1,2-Dichlorobenzene	2019/09/14	94	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
6323414	1,2-Dichloroethane	2019/09/14	102	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
6323414	1,2-Dichloropropane	2019/09/14	92	70 - 130	88	70 - 130	<0.20	ug/L	NC	30
6323414	1,3-Dichlorobenzene	2019/09/14	90	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
6323414	1,4-Dichlorobenzene	2019/09/14	93	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
6323414	Acetone (2-Propanone)	2019/09/14	104	60 - 140	96	60 - 140	<10	ug/L	NC	30
6323414	Benzene	2019/09/14	94	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
6323414	Bromodichloromethane	2019/09/14	97	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
6323414	Bromoform	2019/09/14	106	70 - 130	102	70 - 130	<1.0	ug/L	NC	30
6323414	Bromomethane	2019/09/14	117	60 - 140	123	60 - 140	<0.50	ug/L	NC	30
6323414	Carbon Tetrachloride	2019/09/14	98	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
6323414	Chlorobenzene	2019/09/14	95	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
6323414	Chloroform	2019/09/14	98	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
6323414	cis-1,2-Dichloroethylene	2019/09/14	100	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
6323414	cis-1,3-Dichloropropene	2019/09/14	74	70 - 130	86	70 - 130	<0.30	ug/L	NC	30
6323414	Dibromochloromethane	2019/09/14	106	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
6323414	Dichlorodifluoromethane (FREON 12)	2019/09/14	99	60 - 140	116	60 - 140	<1.0	ug/L	NC	30
6323414	Ethylbenzene	2019/09/14	80	70 - 130	82	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.

BV Labs Job #: B9P2059
Report Date: 2019/09/16

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-100
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
6323414	Ethylene Dibromide	2019/09/14	107	70 - 130	101	70 - 130	<0.20	ug/L	NC	30
6323414	F1 (C6-C10) - BTEX	2019/09/14					<25	ug/L	NC	30
6323414	F1 (C6-C10)	2019/09/14	96	60 - 140	93	60 - 140	<25	ug/L	NC	30
6323414	Hexane	2019/09/14	94	70 - 130	95	70 - 130	<1.0	ug/L	NC	30
6323414	Methyl Ethyl Ketone (2-Butanone)	2019/09/14	97	60 - 140	90	60 - 140	<10	ug/L	NC	30
6323414	Methyl Isobutyl Ketone	2019/09/14	84	70 - 130	81	70 - 130	<5.0	ug/L	NC	30
6323414	Methyl t-butyl ether (MTBE)	2019/09/14	87	70 - 130	83	70 - 130	<0.50	ug/L	NC	30
6323414	Methylene Chloride(Dichloromethane)	2019/09/14	102	70 - 130	98	70 - 130	<2.0	ug/L	NC	30
6323414	o-Xylene	2019/09/14	84	70 - 130	85	70 - 130	<0.20	ug/L	NC	30
6323414	p+m-Xylene	2019/09/14	81	70 - 130	85	70 - 130	<0.20	ug/L	NC	30
6323414	Styrene	2019/09/14	83	70 - 130	86	70 - 130	<0.50	ug/L	NC	30
6323414	Tetrachloroethylene	2019/09/14	94	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
6323414	Toluene	2019/09/14	88	70 - 130	87	70 - 130	<0.20	ug/L	NC	30
6323414	Total Xylenes	2019/09/14					<0.20	ug/L	NC	30
6323414	trans-1,2-Dichloroethylene	2019/09/14	99	70 - 130	104	70 - 130	<0.50	ug/L	NC	30
6323414	trans-1,3-Dichloropropene	2019/09/14	74	70 - 130	87	70 - 130	<0.40	ug/L	NC	30
6323414	Trichloroethylene	2019/09/14	105	70 - 130	106	70 - 130	<0.20	ug/L	NC	30
6323414	Trichlorofluoromethane (FREON 11)	2019/09/14	117	70 - 130	117	70 - 130	<0.50	ug/L	NC	30
6323414	Vinyl Chloride	2019/09/14	109	70 - 130	115	70 - 130	<0.20	ug/L	NC	30
6324521	1,1,1,2-Tetrachloroethane	2019/09/11	103	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
6324521	1,1,1-Trichloroethane	2019/09/11	97	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
6324521	1,1,2,2-Tetrachloroethane	2019/09/11	103	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
6324521	1,1,2-Trichloroethane	2019/09/11	101	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
6324521	1,1-Dichloroethane	2019/09/11	94	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
6324521	1,1-Dichloroethylene	2019/09/11	100	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
6324521	1,2-Dichlorobenzene	2019/09/11	95	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
6324521	1,2-Dichloroethane	2019/09/11	100	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
6324521	1,2-Dichloropropane	2019/09/11	91	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
6324521	1,3-Dichlorobenzene	2019/09/11	96	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
6324521	1,4-Dichlorobenzene	2019/09/11	102	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
6324521	Acetone (2-Propanone)	2019/09/11	101	60 - 140	100	60 - 140	<10	ug/L	NC	30

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: B9P2059
Report Date: 2019/09/16

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-100
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
6324521	Benzene	2019/09/11	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
6324521	Bromodichloromethane	2019/09/11	96	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
6324521	Bromoform	2019/09/11	103	70 - 130	102	70 - 130	<1.0	ug/L	NC	30
6324521	Bromomethane	2019/09/11	89	60 - 140	87	60 - 140	<0.50	ug/L	NC	30
6324521	Carbon Tetrachloride	2019/09/11	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
6324521	Chlorobenzene	2019/09/11	95	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
6324521	Chloroform	2019/09/11	91	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
6324521	cis-1,2-Dichloroethylene	2019/09/11	89	70 - 130	88	70 - 130	<0.50	ug/L	NC	30
6324521	cis-1,3-Dichloropropene	2019/09/11	98	70 - 130	96	70 - 130	<0.30	ug/L	NC	30
6324521	Dibromochloromethane	2019/09/11	104	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
6324521	Dichlorodifluoromethane (FREON 12)	2019/09/11	84	60 - 140	83	60 - 140	<1.0	ug/L	NC	30
6324521	Ethylbenzene	2019/09/11	95	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
6324521	Ethylene Dibromide	2019/09/11	100	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
6324521	Hexane	2019/09/11	99	70 - 130	98	70 - 130	<1.0	ug/L	NC	30
6324521	Methyl Ethyl Ketone (2-Butanone)	2019/09/11	104	60 - 140	103	60 - 140	<10	ug/L	NC	30
6324521	Methyl Isobutyl Ketone	2019/09/11	105	70 - 130	103	70 - 130	<5.0	ug/L	NC	30
6324521	Methyl t-butyl ether (MTBE)	2019/09/11	90	70 - 130	88	70 - 130	<0.50	ug/L	NC	30
6324521	Methylene Chloride(Dichloromethane)	2019/09/11	88	70 - 130	87	70 - 130	<2.0	ug/L	NC	30
6324521	o-Xylene	2019/09/11	96	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
6324521	p+m-Xylene	2019/09/11	102	70 - 130	101	70 - 130	<0.20	ug/L	NC	30
6324521	Styrene	2019/09/11	98	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
6324521	Tetrachloroethylene	2019/09/11	92	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
6324521	Toluene	2019/09/11	91	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
6324521	Total Xylenes	2019/09/11					<0.20	ug/L	NC	30
6324521	trans-1,2-Dichloroethylene	2019/09/11	95	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
6324521	trans-1,3-Dichloropropene	2019/09/11	103	70 - 130	100	70 - 130	<0.40	ug/L	NC	30
6324521	Trichloroethylene	2019/09/11	98	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
6324521	Trichlorofluoromethane (FREON 11)	2019/09/11	101	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
6324521	Vinyl Chloride	2019/09/11	92	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
6326316	Dissolved Antimony (Sb)	2019/09/12	104	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
6326316	Dissolved Arsenic (As)	2019/09/12	102	80 - 120	99	80 - 120	<1.0	ug/L	9.6	20

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BV Labs Job #: B9P2059
Report Date: 2019/09/16

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-100
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
6326316	Dissolved Barium (Ba)	2019/09/12	95	80 - 120	99	80 - 120	<2.0	ug/L	3.9	20
6326316	Dissolved Beryllium (Be)	2019/09/12	100	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
6326316	Dissolved Boron (B)	2019/09/12	99	80 - 120	99	80 - 120	<10	ug/L	2.4	20
6326316	Dissolved Cadmium (Cd)	2019/09/12	102	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
6326316	Dissolved Chromium (Cr)	2019/09/12	100	80 - 120	99	80 - 120	<5.0	ug/L	3.3	20
6326316	Dissolved Cobalt (Co)	2019/09/12	99	80 - 120	98	80 - 120	<0.50	ug/L	1.1	20
6326316	Dissolved Copper (Cu)	2019/09/12	100	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
6326316	Dissolved Lead (Pb)	2019/09/12	94	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
6326316	Dissolved Molybdenum (Mo)	2019/09/12	106	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
6326316	Dissolved Nickel (Ni)	2019/09/12	97	80 - 120	99	80 - 120	<1.0	ug/L	2.0	20
6326316	Dissolved Selenium (Se)	2019/09/12	103	80 - 120	104	80 - 120	<2.0	ug/L	NC	20
6326316	Dissolved Silver (Ag)	2019/09/12	86	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
6326316	Dissolved Thallium (Tl)	2019/09/12	95	80 - 120	94	80 - 120	<0.050	ug/L	NC	20
6326316	Dissolved Uranium (U)	2019/09/12	95	80 - 120	95	80 - 120	<0.10	ug/L	0	20
6326316	Dissolved Vanadium (V)	2019/09/12	102	80 - 120	99	80 - 120	<0.50	ug/L	6.5	20
6326316	Dissolved Zinc (Zn)	2019/09/12	99	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
6329672	F2 (C10-C16 Hydrocarbons)	2019/09/13	NC	50 - 130	116	60 - 130	<100	ug/L	17	30
6329672	F3 (C16-C34 Hydrocarbons)	2019/09/13	NC	50 - 130	121	60 - 130	<200	ug/L	NC	30
6329672	F4 (C34-C50 Hydrocarbons)	2019/09/13	115	50 - 130	117	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 (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).

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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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CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	B90004	BV Labs Job #:	Bottle Order #: 736997
Attention:	Accounts Payable	Attention:	Spencer Buck	P.O. #:			
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	46372-100		
				Project Name:		COC #:	Project Manager:
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	(905) 639-2552 Ext: 2411 Fax:	Site #:		C#736997-01-01	Ronklin Gracian
Email:	accounting@mte85.com	Email:	sbuck@mte85.com	Sampled By:	ADR.		

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 ☐ Medium/Fine; ☐ Table 2 ☐ Ind/Comm ☒ Coarse; ☒ Table 3 ☐ Agri/Other ☐ For RSC; ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer By-law; ☐ Reg 558 ☐ Storm Sewer Bylaw; ☐ MISA Municipality ___; ☐ PWQO; ☐ Other ___

Special Instructions:

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 #)*

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	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 & F1-F4	O.Reg 153 Metals 1,2,2 & 1,2,4	O.Reg 153 VOCs by HS	# of Bottles	Comments
1		MW101-19	Sept 10/19	11:00	GW	Y	X	X		6	
2		MW102-19		830			X	X			
3		MW103-19		930			X	X			
4		MW104-19		14:00			X	X			
5		MW1101-19		11:00		N			X	3	
6											
7											
8											
9											
10											

10-Sep-19 15:21
Ronklin Gracian
B9P2059
MRK ENV-1114

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
A Puntillo	19/09/10	15:15	Pacey / Andrew Pacey	2019/09/10	15:21			12/16/14	Custody Seal 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

ON ICE

Bureau Veritas Canada (2019) Inc.

Exceedence Summary Table – Reg153/04 T3-GW-C

Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						

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.

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MTE CONSULTANTS INC. (Kitchener)
ATTN: JEN LAMBKE
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Date Received: 06-JAN-22
Report Date: 17-JAN-22 08:23 (MT)
Version: FINAL REV. 2

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2677105

Project P.O. #: ELIZABETH & GEORGE
Job Reference: 46372-101
C of C Numbers:
Legal Site Desc:

Comments: ADDITIONAL 07-JAN-22 09:51

Emily Hansen
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-2	MW320-22 SS1									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	26.8		0.25	%	08-JAN-22				
	pH	7.29		0.10	pH units	11-JAN-22				
Cyanides										
	Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	12-JAN-22	0.051			
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	6.2		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	86.0		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	0.52		0.50	ug/g	12-JAN-22	4			
	Boron (B)	9.0		5.0	ug/g	12-JAN-22	120			
	Boron (B), Hot Water Ext.	0.98		0.10	ug/g	12-JAN-22	1.5			
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	20.3		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	7.8		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	46.0		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	73.2		1.0	ug/g	12-JAN-22	120			
	Mercury (Hg)	0.0480		0.0050	ug/g	12-JAN-22	0.27			
	Molybdenum (Mo)	1.3		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	20.6		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	26.0		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	145		5.0	ug/g	12-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	11-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	11-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	11-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	11-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	11-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	11-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	78.5		50-140	%	11-JAN-22				
	Surrogate: 1,4-Difluorobenzene	92.6		50-140	%	11-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	11-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F2-Naphth	<10		10	ug/g	12-JAN-22				
	F3 (C16-C34)	130		50	ug/g	12-JAN-22	300			
	F3-PAH	129		50	ug/g	12-JAN-22				
	F4 (C34-C50)	263		50	ug/g	12-JAN-22	2800			
	F4G-SG (GHH-Silica)	1150		250	ug/g	14-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	393		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	NO			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	85.4		60-140	%	12-JAN-22				

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

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Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-2	MW320-22 SS1									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Hydrocarbons										
	Surrogate: 3,4-Dichlorotoluene	92.7		60-140	%	11-JAN-22				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	11-JAN-22	7.9			
	Acenaphthylene	<0.050		0.050	ug/g	11-JAN-22	0.15			
	Anthracene	<0.050		0.050	ug/g	11-JAN-22	0.67			
	Benzo(a)anthracene	0.074		0.050	ug/g	11-JAN-22	0.5			
	Benzo(a)pyrene	0.095		0.050	ug/g	11-JAN-22	0.3			
	Benzo(b&j)fluoranthene	0.120		0.050	ug/g	11-JAN-22	0.78			
	Benzo(g,h,i)perylene	0.122		0.050	ug/g	11-JAN-22	6.6			
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	11-JAN-22	0.78			
	Chrysene	0.087		0.050	ug/g	11-JAN-22	7			
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	11-JAN-22	0.1			
	Fluoranthene	0.156		0.050	ug/g	11-JAN-22	0.69			
	Fluorene	<0.050		0.050	ug/g	11-JAN-22	62			
	Indeno(1,2,3-cd)pyrene	0.088		0.050	ug/g	11-JAN-22	0.38			
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	11-JAN-22	0.99			
	1-Methylnaphthalene	<0.030		0.030	ug/g	11-JAN-22	0.99			
	2-Methylnaphthalene	<0.030		0.030	ug/g	11-JAN-22	0.99			
	Naphthalene	0.015		0.013	ug/g	11-JAN-22	0.6			
	Phenanthrene	0.109		0.046	ug/g	11-JAN-22	6.2			
	Pyrene	0.132		0.050	ug/g	11-JAN-22	78			
	Surrogate: 2-Fluorobiphenyl	87.5		50-140	%	11-JAN-22				
	Surrogate: d14-Terphenyl	85.5		50-140	%	11-JAN-22				
L2677105-4	MW320-22 SS3									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	12.2		0.25	%	08-JAN-22				
Metals										
	Antimony (Sb)	1.5		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	7.3		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	94.1		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	0.58		0.50	ug/g	12-JAN-22	4			
	Boron (B)	10.5		5.0	ug/g	12-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	21.0		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	10.8		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	92.3		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	72.6		1.0	ug/g	12-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	24.6		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	0.56		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

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Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-4	MW320-22 SS3									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Metals										
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	28.9		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	115		5.0	ug/g	12-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	11-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	11-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	11-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	11-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	11-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	11-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	78.2		50-140	%	11-JAN-22				
	Surrogate: 1,4-Difluorobenzene	96.1		50-140	%	11-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	11-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	85.9		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	88.7		60-140	%	11-JAN-22				
L2677105-6	MW320-22 SS5									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	Conductivity	0.203		0.0040	mS/cm	12-JAN-22	0.7			
	% Moisture	10.5		0.25	%	08-JAN-22				
	pH	7.68		0.10	pH units	11-JAN-22				
Saturated Paste Extractables										
	SAR	0.96		0.10	SAR	12-JAN-22	5			
	Calcium (Ca)	16.7		0.50	mg/L	12-JAN-22				
	Magnesium (Mg)	2.73		0.50	mg/L	12-JAN-22				
	Sodium (Na)	16.0		0.50	mg/L	12-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	5.8		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	59.6		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	0.60		0.50	ug/g	12-JAN-22	4			
	Boron (B)	8.7		5.0	ug/g	12-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	19.5		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	12.6		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	39.1		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	9.8		1.0	ug/g	12-JAN-22	120			

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

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Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-6	MW320-22 SS5									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Metals										
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	25.4		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	28.4		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	53.8		5.0	ug/g	12-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	109.8		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	109.8		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F2-Naphth	<10		10	ug/g	12-JAN-22				
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F3-PAH	<50		50	ug/g	12-JAN-22				
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	85.2		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	92.4		60-140	%	12-JAN-22				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	11-JAN-22	7.9			
	Acenaphthylene	<0.050		0.050	ug/g	11-JAN-22	0.15			
	Anthracene	<0.050		0.050	ug/g	11-JAN-22	0.67			
	Benzo(a)anthracene	<0.050		0.050	ug/g	11-JAN-22	0.5			
	Benzo(a)pyrene	<0.050		0.050	ug/g	11-JAN-22	0.3			
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	11-JAN-22	0.78			
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	11-JAN-22	6.6			
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	11-JAN-22	0.78			
	Chrysene	<0.050		0.050	ug/g	11-JAN-22	7			
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	11-JAN-22	0.1			
	Fluoranthene	<0.050		0.050	ug/g	11-JAN-22	0.69			
	Fluorene	<0.050		0.050	ug/g	11-JAN-22	62			
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	11-JAN-22	0.38			
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	11-JAN-22	0.99			
	1-Methylnaphthalene	<0.030		0.030	ug/g	11-JAN-22	0.99			
	2-Methylnaphthalene	<0.030		0.030	ug/g	11-JAN-22	0.99			

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-6	MW320-22 SS5									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Polycyclic Aromatic Hydrocarbons										
	Naphthalene	<0.013		0.013	ug/g	11-JAN-22	0.6			
	Phenanthrene	<0.046		0.046	ug/g	11-JAN-22	6.2			
	Pyrene	<0.050		0.050	ug/g	11-JAN-22	78			
	Surrogate: 2-Fluorobiphenyl	91.4		50-140	%	11-JAN-22				
	Surrogate: d14-Terphenyl	86.7		50-140	%	11-JAN-22				
L2677105-9	MW320-22 SS8									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	16.3		0.25	%	08-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	5.2		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	91.6		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	0.66		0.50	ug/g	12-JAN-22	4			
	Boron (B)	13.1		5.0	ug/g	12-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	24.8		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	11.4		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	28.9		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	9.9		1.0	ug/g	12-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	26.0		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	33.9		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	54.5		5.0	ug/g	12-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	110.3		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	111.1		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	11		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	69		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-9	MW320-22 SS8									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Hydrocarbons										
	Total Hydrocarbons (C6-C50)	80		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	84.8		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	95.8		60-140	%	12-JAN-22				
L2677105-12	MW320-22 AS11									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	15.9		0.25	%	08-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	13-JAN-22	7.5			
	Arsenic (As)	5.1		1.0	ug/g	13-JAN-22	18			
	Barium (Ba)	44.4		1.0	ug/g	13-JAN-22	390			
	Beryllium (Be)	0.59		0.50	ug/g	13-JAN-22	4			
	Boron (B)	18.4		5.0	ug/g	13-JAN-22	120			
	Boron (B), Hot Water Ext.	1.71		0.10	ug/g	13-JAN-22	*1.5			
	Cadmium (Cd)	<0.50		0.50	ug/g	13-JAN-22	1.2			
	Chromium (Cr)	20.3		1.0	ug/g	13-JAN-22	160			
	Cobalt (Co)	9.4		1.0	ug/g	13-JAN-22	22			
	Copper (Cu)	25.7		1.0	ug/g	13-JAN-22	140			
	Lead (Pb)	7.6		1.0	ug/g	13-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	13-JAN-22	6.9			
	Nickel (Ni)	21.5		1.0	ug/g	13-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	13-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	13-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	13-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	13-JAN-22	23			
	Vanadium (V)	30.9		1.0	ug/g	13-JAN-22	86			
	Zinc (Zn)	43.0		5.0	ug/g	13-JAN-22	340			
Volatile Organic Compounds										
	Acetone	<0.50		0.50	ug/g	12-JAN-22	16			
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Bromodichloromethane	<0.050		0.050	ug/g	12-JAN-22	13			
	Bromoform	<0.050		0.050	ug/g	12-JAN-22	0.27			
	Bromomethane	<0.050		0.050	ug/g	12-JAN-22	0.05			
	Carbon tetrachloride	<0.050		0.050	ug/g	12-JAN-22	0.05			
	Chlorobenzene	<0.050		0.050	ug/g	12-JAN-22	2.4			
	Dibromochloromethane	<0.050		0.050	ug/g	12-JAN-22	9.4			
	Chloroform	<0.050		0.050	ug/g	12-JAN-22	0.05			
	1,2-Dibromoethane	<0.050		0.050	ug/g	12-JAN-22	0.05			
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	12-JAN-22	3.4			
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	12-JAN-22	4.8			
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	12-JAN-22	0.083			
	Dichlorodifluoromethane	<0.050		0.050	ug/g	12-JAN-22	16			

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-12	MW320-22 AS11									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Volatile Organic Compounds										
	1,1-Dichloroethane	<0.050		0.050	ug/g	12-JAN-22	3.5			
	1,2-Dichloroethane	<0.050		0.050	ug/g	12-JAN-22	0.05			
	1,1-Dichloroethylene	<0.050		0.050	ug/g	12-JAN-22	0.05			
	cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	12-JAN-22	3.4			
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	12-JAN-22	0.084			
	Methylene Chloride	<0.050		0.050	ug/g	12-JAN-22	0.1			
	1,2-Dichloropropane	<0.050		0.050	ug/g	12-JAN-22	0.05			
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	12-JAN-22				
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	12-JAN-22				
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	12-JAN-22	0.05			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	n-Hexane	<0.050		0.050	ug/g	12-JAN-22	2.8			
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	12-JAN-22	16			
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	12-JAN-22	1.7			
	MTBE	<0.050		0.050	ug/g	12-JAN-22	0.75			
	Styrene	<0.050		0.050	ug/g	12-JAN-22	0.7			
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	12-JAN-22	0.058			
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	12-JAN-22	0.05			
	Tetrachloroethylene	<0.050		0.050	ug/g	12-JAN-22	0.28			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	12-JAN-22	0.38			
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	12-JAN-22	0.05			
	Trichloroethylene	<0.010		0.010	ug/g	12-JAN-22	0.061			
	Trichlorofluoromethane	<0.050		0.050	ug/g	12-JAN-22	4			
	Vinyl chloride	<0.020		0.020	ug/g	12-JAN-22	0.02			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	96.5		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	105.6		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	85.4		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	100.1		60-140	%	12-JAN-22				
L2677105-14	MW314-22 SS1A									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	15.8		0.25	%	08-JAN-22				

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-14	MW314-22 SS1A									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	6.4		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	117		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	0.53		0.50	ug/g	12-JAN-22	4			
	Boron (B)	9.6		5.0	ug/g	12-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	19.4		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	7.6		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	29.3		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	255		1.0	ug/g	12-JAN-22	*120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	17.6		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	28.0		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	111		5.0	ug/g	12-JAN-22	340			
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	11-JAN-22	7.9			
	Acenaphthylene	<0.050		0.050	ug/g	11-JAN-22	0.15			
	Anthracene	<0.050		0.050	ug/g	11-JAN-22	0.67			
	Benzo(a)anthracene	0.158		0.050	ug/g	11-JAN-22	0.5			
	Benzo(a)pyrene	0.200		0.050	ug/g	11-JAN-22	0.3			
	Benzo(b&j)fluoranthene	0.249		0.050	ug/g	11-JAN-22	0.78			
	Benzo(g,h,i)perylene	0.156		0.050	ug/g	11-JAN-22	6.6			
	Benzo(k)fluoranthene	0.087		0.050	ug/g	11-JAN-22	0.78			
	Chrysene	0.183		0.050	ug/g	11-JAN-22	7			
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	11-JAN-22	0.1			
	Fluoranthene	0.355		0.050	ug/g	11-JAN-22	0.69			
	Fluorene	<0.050		0.050	ug/g	11-JAN-22	62			
	Indeno(1,2,3-cd)pyrene	0.151		0.050	ug/g	11-JAN-22	0.38			
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	11-JAN-22	0.99			
	1-Methylnaphthalene	<0.030		0.030	ug/g	11-JAN-22	0.99			
	2-Methylnaphthalene	<0.030		0.030	ug/g	11-JAN-22	0.99			
	Naphthalene	<0.013		0.013	ug/g	11-JAN-22	0.6			
	Phenanthrene	0.176		0.046	ug/g	11-JAN-22	6.2			
	Pyrene	0.315		0.050	ug/g	11-JAN-22	78			
	Surrogate: 2-Fluorobiphenyl	92.5		50-140	%	11-JAN-22				
	Surrogate: d14-Terphenyl	87.8		50-140	%	11-JAN-22				
L2677105-15	MW314-22 SS2									
Sampled By:	DMG on 04-JAN-22									
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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-15	MW314-22 SS2									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	Conductivity	0.226		0.0040	mS/cm	12-JAN-22	0.7			
	% Moisture	13.1		0.25	%	08-JAN-22				
Saturated Paste Extractables										
	SAR	0.25		0.10	SAR	12-JAN-22	5			
	Calcium (Ca)	22.0		0.50	mg/L	12-JAN-22				
	Magnesium (Mg)	11.5		0.50	mg/L	12-JAN-22				
	Sodium (Na)	5.88		0.50	mg/L	12-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	6.1		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	71.3		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	0.65		0.50	ug/g	12-JAN-22	4			
	Boron (B)	5.6		5.0	ug/g	12-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	22.1		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	11.1		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	35.6		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	16.7		1.0	ug/g	12-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	24.4		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	32.4		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	58.4		5.0	ug/g	12-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	110.9		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	113.2		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F2-Naphth	<10		10	ug/g	12-JAN-22				
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F3-PAH	<50		50	ug/g	12-JAN-22				
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	81.2		60-140	%	12-JAN-22				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-15	MW314-22 SS2									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Hydrocarbons										
	Surrogate: 3,4-Dichlorotoluene	86.5		60-140	%	12-JAN-22				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	11-JAN-22	7.9			
	Acenaphthylene	<0.050		0.050	ug/g	11-JAN-22	0.15			
	Anthracene	<0.050		0.050	ug/g	11-JAN-22	0.67			
	Benzo(a)anthracene	<0.050		0.050	ug/g	11-JAN-22	0.5			
	Benzo(a)pyrene	<0.050		0.050	ug/g	11-JAN-22	0.3			
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	11-JAN-22	0.78			
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	11-JAN-22	6.6			
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	11-JAN-22	0.78			
	Chrysene	<0.050		0.050	ug/g	11-JAN-22	7			
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	11-JAN-22	0.1			
	Fluoranthene	<0.050		0.050	ug/g	11-JAN-22	0.69			
	Fluorene	<0.050		0.050	ug/g	11-JAN-22	62			
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	11-JAN-22	0.38			
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	11-JAN-22	0.99			
	1-Methylnaphthalene	<0.030		0.030	ug/g	11-JAN-22	0.99			
	2-Methylnaphthalene	<0.030		0.030	ug/g	11-JAN-22	0.99			
	Naphthalene	<0.013		0.013	ug/g	11-JAN-22	0.6			
	Phenanthrene	<0.046		0.046	ug/g	11-JAN-22	6.2			
	Pyrene	<0.050		0.050	ug/g	11-JAN-22	78			
	Surrogate: 2-Fluorobiphenyl	92.6		50-140	%	11-JAN-22				
	Surrogate: d14-Terphenyl	87.9		50-140	%	11-JAN-22				
L2677105-18	MW314-22 SS5									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	9.72		0.25	%	08-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	5.7		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	77.3		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	0.58		0.50	ug/g	12-JAN-22	4			
	Boron (B)	9.4		5.0	ug/g	12-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	19.8		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	12.9		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	36.7		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	9.6		1.0	ug/g	12-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	25.0		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-18	MW314-22 SS5									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Metals										
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	30.2		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	53.0		5.0	ug/g	12-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	106.8		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	109.0		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	86.9		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	87.0		60-140	%	12-JAN-22				
L2677105-20	MW314-22 SS7									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	17.2		0.25	%	08-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	6.1		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	126		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	0.96		0.50	ug/g	12-JAN-22	4			
	Boron (B)	16.3		5.0	ug/g	12-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	32.8		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	15.9		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	30.2		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	12.8		1.0	ug/g	12-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	35.3		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	1.1		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	42.9		1.0	ug/g	12-JAN-22	86			

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* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-20	MW314-22 SS7									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Metals										
	Zinc (Zn)	72.1		5.0	ug/g	12-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	108.4		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	109.9		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	12		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	74		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	86		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	86.4		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	89.5		60-140	%	12-JAN-22				
L2677105-22	BH312-22 SS1A									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	Conductivity	0.472		0.0040	mS/cm	12-JAN-22	0.7			
	% Moisture	23.5		0.25	%	08-JAN-22				
Cyanides										
	Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	12-JAN-22	0.051			
Saturated Paste Extractables										
	SAR	0.20		0.10	SAR	12-JAN-22	5			
	Calcium (Ca)	68.2		0.50	mg/L	12-JAN-22				
	Magnesium (Mg)	7.75		0.50	mg/L	12-JAN-22				
	Sodium (Na)	6.48		0.50	mg/L	12-JAN-22				
Metals										
	Antimony (Sb)	1.7		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	9.3		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	238		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	0.92		0.50	ug/g	12-JAN-22	4			
	Boron (B)	9.9		5.0	ug/g	12-JAN-22	120			
	Boron (B), Hot Water Ext.	0.87		0.10	ug/g	12-JAN-22	1.5			
	Cadmium (Cd)	0.57		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	31.2		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	11.0		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	43.7		1.0	ug/g	12-JAN-22	140			

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-22	BH312-22 SS1A									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Metals										
	Lead (Pb)	603		1.0	ug/g	12-JAN-22	*120			
	Mercury (Hg)	0.258		0.0050	ug/g	12-JAN-22	0.27			
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	24.9		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	39.5		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	229		5.0	ug/g	12-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	110.1		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	112.9		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	119		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	182		50	ug/g	12-JAN-22	2800			
	F4G-SG (GHH-Silica)	880		250	ug/g	13-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	302		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	NO			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	88.4		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	84.0		60-140	%	12-JAN-22				
Organochlorine Pesticides										
	Aldrin	0.0011	DLM	0.0010	ug/g	12-JAN-22	0.05			
	Lindane	<0.0010	DLM	0.0010	ug/g	12-JAN-22	0.056			
	a-chlordane	<0.00090	DLM	0.00090	ug/g	12-JAN-22				
	Chlordane (Total)	<0.0013		0.0013	ug/g	12-JAN-22	0.05			
	g-chlordane	<0.00090	DLM	0.00090	ug/g	12-JAN-22				
	o,p-DDD	<0.00090	DLM	0.00090	ug/g	12-JAN-22				
	pp-DDD	<0.00090	DLM	0.00090	ug/g	12-JAN-22				
	Total DDD	<0.0013		0.0013	ug/g	12-JAN-22	3.3			
	o,p-DDE	<0.00090	DLM	0.00090	ug/g	12-JAN-22				
	pp-DDE	0.00173	DLM	0.00090	ug/g	12-JAN-22				
	Total DDE	0.0017		0.0013	ug/g	12-JAN-22	0.26			
	op-DDT	<0.00090	DLM	0.00090	ug/g	12-JAN-22				
	pp-DDT	0.00156	DLM	0.00090	ug/g	12-JAN-22				
	Total DDT	0.0016		0.0013	ug/g	12-JAN-22	1.4			
	Dieldrin	0.0027	DLM	0.0010	ug/g	12-JAN-22	0.05			

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-22	BH312-22 SS1A									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Organochlorine Pesticides										
	alpha-Endosulfan	<0.00090	DLM	0.00090	ug/g	12-JAN-22				
	beta-Endosulfan	<0.00090	DLM	0.00090	ug/g	12-JAN-22				
	Endosulfan (Total)	<0.0013		0.0013	ug/g	12-JAN-22	0.04			
	Endrin	<0.0010	DLM	0.0010	ug/g	12-JAN-22	0.04			
	Heptachlor	<0.0010	DLM	0.0010	ug/g	12-JAN-22	0.15			
	Heptachlor Epoxide	<0.0010	DLM	0.0010	ug/g	12-JAN-22	0.05			
	Hexachlorobenzene	<0.0010	DLM	0.0010	ug/g	12-JAN-22	0.52			
	Hexachlorobutadiene	<0.0010	DLM	0.0010	ug/g	12-JAN-22	0.012			
	Hexachloroethane	<0.0010	DLM	0.0010	ug/g	12-JAN-22	0.089			
	Methoxychlor	<0.0010	DLM	0.0010	ug/g	12-JAN-22	0.13			
	Surrogate: Decachlorobiphenyl	N/A	SDO:RNA	50-150	%	12-JAN-22				
	Surrogate: Tetrachloro-m-xylene	N/A	SDO:RNA	50-150	%	12-JAN-22				
L2677105-23	BH312-22 SS1B									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	22.3		0.25	%	08-JAN-22				
Metals										
	Antimony (Sb)	1.4		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	9.3		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	126		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	<0.50		0.50	ug/g	12-JAN-22	4			
	Boron (B)	5.2		5.0	ug/g	12-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	11.6		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	7.1		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	40.8		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	329		1.0	ug/g	12-JAN-22	*120			
	Molybdenum (Mo)	2.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	18.1		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	1.4		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	0.22		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	20.0		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	148		5.0	ug/g	12-JAN-22	340			
L2677105-24	MW314-22 SS1B									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	16.0		0.25	%	08-JAN-22				
Metals										

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-24	MW314-22 SS1B									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	3.5		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	41.1		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	<0.50		0.50	ug/g	12-JAN-22	4			
	Boron (B)	5.2		5.0	ug/g	12-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	10.0		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	2.8		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	9.1		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	77.1		1.0	ug/g	12-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	6.1		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	17.3		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	24.5		5.0	ug/g	12-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	110.6		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	110.7		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F2-Naphth	<10		10	ug/g	12-JAN-22				
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F3-PAH	<50		50	ug/g	12-JAN-22				
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	87.8		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	95.1		60-140	%	12-JAN-22				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	11-JAN-22	7.9			
	Acenaphthylene	<0.050		0.050	ug/g	11-JAN-22	0.15			
	Anthracene	<0.050		0.050	ug/g	11-JAN-22	0.67			
	Benzo(a)anthracene	<0.050		0.050	ug/g	11-JAN-22	0.5			
	Benzo(a)pyrene	0.051		0.050	ug/g	11-JAN-22	0.3			
	Benzo(b&j)fluoranthene	0.065		0.050	ug/g	11-JAN-22	0.78			

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-24	MW314-22 SS1B									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Polycyclic Aromatic Hydrocarbons										
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	11-JAN-22	6.6			
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	11-JAN-22	0.78			
	Chrysene	0.051		0.050	ug/g	11-JAN-22	7			
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	11-JAN-22	0.1			
	Fluoranthene	0.093		0.050	ug/g	11-JAN-22	0.69			
	Fluorene	<0.050		0.050	ug/g	11-JAN-22	62			
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	11-JAN-22	0.38			
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	11-JAN-22	0.99			
	1-Methylnaphthalene	<0.030		0.030	ug/g	11-JAN-22	0.99			
	2-Methylnaphthalene	<0.030		0.030	ug/g	11-JAN-22	0.99			
	Naphthalene	<0.013		0.013	ug/g	11-JAN-22	0.6			
	Phenanthrene	<0.046		0.046	ug/g	11-JAN-22	6.2			
	Pyrene	0.085		0.050	ug/g	11-JAN-22	78			
	Surrogate: 2-Fluorobiphenyl	94.2		50-140	%	11-JAN-22				
	Surrogate: d14-Terphenyl	89.0		50-140	%	11-JAN-22				
Polychlorinated Biphenyls										
	Aroclor 1242	<0.010		0.010	ug/g	12-JAN-22				
	Aroclor 1248	<0.010		0.010	ug/g	12-JAN-22				
	Aroclor 1254	<0.010		0.010	ug/g	12-JAN-22				
	Aroclor 1260	<0.010		0.010	ug/g	12-JAN-22				
	Total PCBs	<0.020		0.020	ug/g	12-JAN-22	0.35			
	Surrogate: d14-Terphenyl	94.9		60-140	%	12-JAN-22				
L2677105-25	BH312-22 SS2									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	13.2		0.25	%	08-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	6.3		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	93.0		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	0.61		0.50	ug/g	12-JAN-22	4			
	Boron (B)	7.2		5.0	ug/g	12-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	20.4		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	11.7		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	39.1		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	7.9		1.0	ug/g	12-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	25.7		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	28.5		1.0	ug/g	12-JAN-22	86			

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-25	BH312-22 SS2									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Metals										
	Zinc (Zn)	52.5		5.0	ug/g	12-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	112.3		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	112.8		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	87.4		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	94.2		60-140	%	12-JAN-22				
L2677105-29	BH312-22 SS6									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	8.30		0.25	%	08-JAN-22				
	pH	8.15		0.10	pH units	11-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	4.9		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	47.1		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	<0.50		0.50	ug/g	12-JAN-22	4			
	Boron (B)	10.8		5.0	ug/g	12-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	18.8		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	9.0		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	25.8		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	6.7		1.0	ug/g	12-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	19.5		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	28.3		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	46.4		5.0	ug/g	12-JAN-22	340			

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-29	BH312-22 SS6									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	111.5		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	112.8		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	89.5		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	89.8		60-140	%	12-JAN-22				
L2677105-32	BH312-22 SS9									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	8.88		0.25	%	11-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	5.3		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	59.0		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	<0.50		0.50	ug/g	12-JAN-22	4			
	Boron (B)	11.5		5.0	ug/g	12-JAN-22	120			
	Boron (B), Hot Water Ext.	0.78		0.10	ug/g	12-JAN-22	1.5			
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	17.7		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	8.6		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	35.3		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	8.6		1.0	ug/g	12-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	18.4		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	27.0		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	43.9		5.0	ug/g	12-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677105-32	BH312-22 SS9									
Sampled By:	DMG on 04-JAN-22									
Matrix:	SOIL						#1			
Volatile Organic Compounds										
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	100.5		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	101.9		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	84.7		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	81.4		60-140	%	12-JAN-22				

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
SDO:RNA	Surrogate diluted out:% recovery not available
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).

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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

CHLORDANE-T-CALC-WT	Soil	Chlordane Total sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

DDD-DDE-DDT-CALC-WT	Soil	DDD, DDE, DDT sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

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).

ENDOSULFAN-T-CALC-WT	Soil	Endosulfan Total sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

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 and as of November 30, 2020), 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 and as of November 30, 2020), 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 and as of November 30, 2020), 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 200.2/6020B (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)
OCP-TRACE-WT	Soil	Low level OC Pesticides in Soil/Sediment	SW846 8270

A 5g representative sub-sample of the soil sample is mixed with methanol and extracted with toluene. An aliquot is taken and analyzed by 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).

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 and as of November 30, 2020), 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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

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 and as of November 30, 2020), 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 and as of November 30, 2020), 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.

Reference Information

*** 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: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT	**Soil**							
Batch R5692956								
WG3684017-4 DUP		**L2677105-32**						
Boron (B), Hot Water Ext.		0.78	0.85		ug/g	8.4	30	12-JAN-22
WG3684017-2 IRM		**WT SAR4**						
Boron (B), Hot Water Ext.			114.0		%		70-130	12-JAN-22
WG3684017-3 LCS								
Boron (B), Hot Water Ext.			106.0		%		70-130	12-JAN-22
WG3684017-1 MB								
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	12-JAN-22
Batch R5694536								
WG3684483-4 DUP		**L2677105-12**						
Boron (B), Hot Water Ext.		1.71	1.65		ug/g	3.5	30	13-JAN-22
WG3684483-2 IRM		**WT SAR4**						
Boron (B), Hot Water Ext.			108.9		%		70-130	13-JAN-22
WG3684483-3 LCS								
Boron (B), Hot Water Ext.			104.0		%		70-130	13-JAN-22
WG3684483-1 MB								
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	13-JAN-22
BTX-511-HS-WT	**Soil**							
Batch R5692043								
WG3683492-4 DUP		**WG3683492-3**						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	11-JAN-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	11-JAN-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	11-JAN-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	11-JAN-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	11-JAN-22
WG3683492-2 LCS								
Benzene			102.7		%		70-130	11-JAN-22
Ethylbenzene			97.9		%		70-130	11-JAN-22
m+p-Xylenes			99.4		%		70-130	11-JAN-22
o-Xylene			97.1		%		70-130	11-JAN-22
Toluene			96.9		%		70-130	11-JAN-22
WG3683492-1 MB								
Benzene			<0.0068		ug/g		0.0068	11-JAN-22
Ethylbenzene			<0.018		ug/g		0.018	11-JAN-22
m+p-Xylenes			<0.030		ug/g		0.03	11-JAN-22
o-Xylene			<0.020		ug/g		0.02	11-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Soil**							
Batch R5692043								
WG3683492-1 MB								
Toluene			<0.080		ug/g		0.08	11-JAN-22
Surrogate: 1,4-Difluorobenzene			101.0		%		50-140	11-JAN-22
Surrogate: 4-Bromofluorobenzene			84.2		%		50-140	11-JAN-22
WG3683492-5 MS		**WG3683492-3**						
Benzene			121.9		%		60-140	11-JAN-22
Ethylbenzene			115.0		%		60-140	11-JAN-22
m+p-Xylenes			115.6		%		60-140	11-JAN-22
o-Xylene			114.6		%		60-140	11-JAN-22
Toluene			114.4		%		60-140	11-JAN-22
Batch R5692225								
WG3683819-4 DUP		**WG3683819-3**						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	12-JAN-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	12-JAN-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	12-JAN-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	12-JAN-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	12-JAN-22
WG3683819-2 LCS								
Benzene			100.4		%		70-130	12-JAN-22
Ethylbenzene			108.2		%		70-130	12-JAN-22
m+p-Xylenes			105.5		%		70-130	12-JAN-22
o-Xylene			104.2		%		70-130	12-JAN-22
Toluene			105.5		%		70-130	12-JAN-22
WG3683819-1 MB								
Benzene			<0.0068		ug/g		0.0068	12-JAN-22
Ethylbenzene			<0.018		ug/g		0.018	12-JAN-22
m+p-Xylenes			<0.030		ug/g		0.03	12-JAN-22
o-Xylene			<0.020		ug/g		0.02	12-JAN-22
Toluene			<0.080		ug/g		0.08	12-JAN-22
Surrogate: 1,4-Difluorobenzene			129.5		%		50-140	12-JAN-22
Surrogate: 4-Bromofluorobenzene			126.7		%		50-140	12-JAN-22
WG3683819-5 MS		**WG3683819-3**						
Benzene			115.1		%		60-140	12-JAN-22
Ethylbenzene			116.7		%		60-140	12-JAN-22
m+p-Xylenes			113.8		%		60-140	12-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Soil**							
Batch R5692225								
WG3683819-5 MS		**WG3683819-3**						
o-Xylene			112.8		%		60-140	12-JAN-22
Toluene			117.9		%		60-140	12-JAN-22
CN-WAD-R511-WT	**Soil**							
Batch R5692664								
WG3683555-3 DUP		**L2677647-15**						
Cyanide, Weak Acid Diss		<0.050	<0.050	RPD-NA	ug/g	N/A	35	12-JAN-22
WG3683555-2 LCS								
Cyanide, Weak Acid Diss			97.3		%		80-120	12-JAN-22
WG3683555-1 MB								
Cyanide, Weak Acid Diss			<0.050		ug/g		0.05	12-JAN-22
WG3683555-4 MS		**L2677647-15**						
Cyanide, Weak Acid Diss			98.0		%		70-130	12-JAN-22
EC-WT	**Soil**							
Batch R5692986								
WG3684018-4 DUP		**WG3684018-3**						
Conductivity		0.294	0.290		mS/cm	1.4	20	12-JAN-22
WG3684018-2 IRM		**WT SAR4**						
Conductivity			109.7		%		70-130	12-JAN-22
WG3684326-1 LCS								
Conductivity			96.4		%		90-110	12-JAN-22
WG3684018-1 MB								
Conductivity			<0.0040		mS/cm		0.004	12-JAN-22
F1-HS-511-WT	**Soil**							
Batch R5692043								
WG3683492-4 DUP		**WG3683492-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	11-JAN-22
WG3683492-2 LCS								
F1 (C6-C10)			106.5		%		80-120	11-JAN-22
WG3683492-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	11-JAN-22
Surrogate: 3,4-Dichlorotoluene			97.2		%		60-140	11-JAN-22
WG3683492-5 MS		**WG3683492-3**						
F1 (C6-C10)			104.9		%		60-140	11-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Soil**							
Batch R5692225								
WG3683819-4 DUP		**WG3683819-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	12-JAN-22
WG3683819-2 LCS								
F1 (C6-C10)			100.6		%		80-120	12-JAN-22
WG3683819-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	12-JAN-22
Surrogate: 3,4-Dichlorotoluene			95.9		%		60-140	12-JAN-22
WG3683819-5 MS		**WG3683819-3**						
F1 (C6-C10)			92.5		%		60-140	12-JAN-22
Batch R5692238								
WG3683835-4 DUP		**WG3683835-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	12-JAN-22
WG3683835-2 LCS								
F1 (C6-C10)			109.3		%		80-120	12-JAN-22
WG3683835-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	12-JAN-22
Surrogate: 3,4-Dichlorotoluene			109.0		%		60-140	12-JAN-22
WG3683835-5 MS		**WG3683835-3**						
F1 (C6-C10)			109.3		%		60-140	12-JAN-22
F2-F4-511-WT	**Soil**							
Batch R5692376								
WG3683547-8 DUP		**WG3683547-10**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	12-JAN-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	12-JAN-22
F4 (C34-C50)		58	94	J	ug/g	35	100	12-JAN-22
WG3683547-7 LCS								
F2 (C10-C16)			89.5		%		80-120	12-JAN-22
F3 (C16-C34)			87.8		%		80-120	12-JAN-22
F4 (C34-C50)			93.7		%		80-120	12-JAN-22
WG3683547-6 MB								
F2 (C10-C16)			<10		ug/g		10	12-JAN-22
F3 (C16-C34)			<50		ug/g		50	12-JAN-22
F4 (C34-C50)			<50		ug/g		50	12-JAN-22
Surrogate: 2-Bromobenzotrifluoride			90.3		%		60-140	12-JAN-22
WG3683547-9 MS		**WG3683547-10**						
F2 (C10-C16)			94.0		%		60-140	12-JAN-22
F3 (C16-C34)			92.1		%		60-140	12-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	**Soil**							
Batch R5692376								
WG3683547-9	**MS**	**WG3683547-10**						
F4 (C34-C50)			105.4		%		60-140	12-JAN-22
Batch R5692577								
WG3683549-3	**DUP**	**WG3683549-5**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	12-JAN-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	12-JAN-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	12-JAN-22
WG3683549-2	**LCS**							
F2 (C10-C16)			88.1		%		80-120	12-JAN-22
F3 (C16-C34)			85.0		%		80-120	12-JAN-22
F4 (C34-C50)			88.7		%		80-120	12-JAN-22
WG3683549-1	**MB**							
F2 (C10-C16)			<10		ug/g		10	12-JAN-22
F3 (C16-C34)			<50		ug/g		50	12-JAN-22
F4 (C34-C50)			<50		ug/g		50	12-JAN-22
Surrogate: 2-Bromobenzotrifluoride			92.1		%		60-140	12-JAN-22
WG3683549-4	**MS**	**WG3683549-5**						
F2 (C10-C16)			92.0		%		60-140	12-JAN-22
F3 (C16-C34)			89.7		%		60-140	12-JAN-22
F4 (C34-C50)			89.6		%		60-140	12-JAN-22
Batch R5692605								
WG3683546-3	**DUP**	**WG3683546-5**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	12-JAN-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	12-JAN-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	12-JAN-22
WG3683546-2	**LCS**							
F2 (C10-C16)			91.3		%		80-120	12-JAN-22
F3 (C16-C34)			89.4		%		80-120	12-JAN-22
F4 (C34-C50)			87.4		%		80-120	12-JAN-22
WG3683546-1	**MB**							
F2 (C10-C16)			<10		ug/g		10	12-JAN-22
F3 (C16-C34)			<50		ug/g		50	12-JAN-22
F4 (C34-C50)			<50		ug/g		50	12-JAN-22
Surrogate: 2-Bromobenzotrifluoride			88.6		%		60-140	12-JAN-22
WG3683546-4	**MS**	**WG3683546-5**						

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	**Soil**							
Batch R5692605								
WG3683546-4 MS		**WG3683546-5**						
F2 (C10-C16)			94.2		%		60-140	12-JAN-22
F3 (C16-C34)			89.7		%		60-140	12-JAN-22
F4 (C34-C50)			90.0		%		60-140	12-JAN-22
Batch R5692718								
WG3683548-3 DUP		**WG3683548-5**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	12-JAN-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	12-JAN-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	12-JAN-22
WG3683548-2 LCS								
F2 (C10-C16)			85.4		%		80-120	12-JAN-22
F3 (C16-C34)			83.2		%		80-120	12-JAN-22
F4 (C34-C50)			86.8		%		80-120	12-JAN-22
WG3683548-1 MB								
F2 (C10-C16)			<10		ug/g		10	12-JAN-22
F3 (C16-C34)			<50		ug/g		50	12-JAN-22
F4 (C34-C50)			<50		ug/g		50	12-JAN-22
Surrogate: 2-Bromobenzotrifluoride			86.4		%		60-140	12-JAN-22
WG3683548-4 MS		**WG3683548-5**						
F2 (C10-C16)			84.0		%		60-140	12-JAN-22
F3 (C16-C34)			83.0		%		60-140	12-JAN-22
F4 (C34-C50)			90.1		%		60-140	12-JAN-22
F4G-ADD-511-WT	**Soil**							
Batch R5694796								
WG3684917-2 LCS								
F4G-SG (GHH-Silica)			92.6		%		60-140	13-JAN-22
WG3684917-1 MB								
F4G-SG (GHH-Silica)			<250		ug/g		250	13-JAN-22
Batch R5695376								
WG3685098-2 LCS								
F4G-SG (GHH-Silica)			81.8		%		60-140	14-JAN-22
WG3685098-1 MB								
F4G-SG (GHH-Silica)			<250		ug/g		250	14-JAN-22
HG-200.2-CVAA-WT	**Soil**							

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-200.2-CVAA-WT	**Soil**							
Batch R5692588								
WG3684016-2 CRM		**WT-SS-2**						
Mercury (Hg)			98.6		%		70-130	12-JAN-22
WG3684016-6 DUP		**WG3684016-5**						
Mercury (Hg)		0.0142	0.0149		ug/g	4.6	40	12-JAN-22
WG3684016-3 LCS								
Mercury (Hg)			106.5		%		80-120	12-JAN-22
WG3684016-1 MB								
Mercury (Hg)			<0.0050		mg/kg		0.005	12-JAN-22
MET-200.2-CCMS-WT	**Soil**							
Batch R5692737								
WG3684016-2 CRM		**WT-SS-2**						
Antimony (Sb)			97.3		%		70-130	12-JAN-22
Arsenic (As)			107.1		%		70-130	12-JAN-22
Barium (Ba)			108.8		%		70-130	12-JAN-22
Beryllium (Be)			106.2		%		70-130	12-JAN-22
Boron (B)			8.6		mg/kg		3.5-13.5	12-JAN-22
Cadmium (Cd)			115.3		%		70-130	12-JAN-22
Chromium (Cr)			103.3		%		70-130	12-JAN-22
Cobalt (Co)			103.7		%		70-130	12-JAN-22
Copper (Cu)			111.5		%		70-130	12-JAN-22
Lead (Pb)			102.4		%		70-130	12-JAN-22
Molybdenum (Mo)			103.6		%		70-130	12-JAN-22
Nickel (Ni)			107.8		%		70-130	12-JAN-22
Selenium (Se)			0.14		mg/kg		0-0.34	12-JAN-22
Silver (Ag)			89.2		%		70-130	12-JAN-22
Thallium (Tl)			0.076		mg/kg		0.029-0.129	12-JAN-22
Uranium (U)			106.5		%		70-130	12-JAN-22
Vanadium (V)			103.2		%		70-130	12-JAN-22
Zinc (Zn)			106.0		%		70-130	12-JAN-22
WG3684016-6 DUP		**WG3684016-5**						
Antimony (Sb)		0.15	0.13		ug/g	15	30	12-JAN-22
Arsenic (As)		5.67	5.55		ug/g	2.1	30	12-JAN-22
Barium (Ba)		61.8	61.2		ug/g	1.0	40	12-JAN-22
Beryllium (Be)		0.66	0.68		ug/g	3.0	30	12-JAN-22
Boron (B)		8.3	8.2		ug/g	0.8	30	12-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5692737								
WG3684016-6 DUP		**WG3684016-5**						
Cadmium (Cd)		0.101	0.100		ug/g	1.0	30	12-JAN-22
Chromium (Cr)		21.8	21.1		ug/g	3.5	30	12-JAN-22
Cobalt (Co)		12.6	12.3		ug/g	2.5	30	12-JAN-22
Copper (Cu)		30.0	29.3		ug/g	2.1	30	12-JAN-22
Lead (Pb)		14.1	13.7		ug/g	2.4	40	12-JAN-22
Molybdenum (Mo)		0.36	0.32		ug/g	11	40	12-JAN-22
Nickel (Ni)		26.2	25.6		ug/g	2.3	30	12-JAN-22
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	12-JAN-22
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	12-JAN-22
Thallium (Tl)		0.112	0.104		ug/g	7.1	30	12-JAN-22
Uranium (U)		0.727	0.698		ug/g	4.2	30	12-JAN-22
Vanadium (V)		31.4	30.3		ug/g	3.4	30	12-JAN-22
Zinc (Zn)		59.2	59.0		ug/g	0.4	30	12-JAN-22
WG3684016-4 LCS								
Antimony (Sb)			117.4		%		80-120	12-JAN-22
Arsenic (As)			118.1		%		80-120	12-JAN-22
Barium (Ba)			110.3		%		80-120	12-JAN-22
Beryllium (Be)			112.3		%		80-120	12-JAN-22
Boron (B)			108.2		%		80-120	12-JAN-22
Cadmium (Cd)			113.1		%		80-120	12-JAN-22
Chromium (Cr)			116.7		%		80-120	12-JAN-22
Cobalt (Co)			113.1		%		80-120	12-JAN-22
Copper (Cu)			113.7		%		80-120	12-JAN-22
Lead (Pb)			115.4		%		80-120	12-JAN-22
Molybdenum (Mo)			113.4		%		80-120	12-JAN-22
Nickel (Ni)			115.0		%		80-120	12-JAN-22
Selenium (Se)			115.8		%		80-120	12-JAN-22
Silver (Ag)			98.7		%		80-120	12-JAN-22
Thallium (Tl)			113.4		%		80-120	12-JAN-22
Uranium (U)			117.5		%		80-120	12-JAN-22
Vanadium (V)			117.6		%		80-120	12-JAN-22
Zinc (Zn)			113.1		%		80-120	12-JAN-22
WG3684016-1 MB								
							0.1	

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5692737								
WG3684016-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	12-JAN-22
Arsenic (As)			<0.10		mg/kg		0.1	12-JAN-22
Barium (Ba)			<0.50		mg/kg		0.5	12-JAN-22
Beryllium (Be)			<0.10		mg/kg		0.1	12-JAN-22
Boron (B)			<5.0		mg/kg		5	12-JAN-22
Cadmium (Cd)			<0.020		mg/kg		0.02	12-JAN-22
Chromium (Cr)			<0.50		mg/kg		0.5	12-JAN-22
Cobalt (Co)			<0.10		mg/kg		0.1	12-JAN-22
Copper (Cu)			<0.50		mg/kg		0.5	12-JAN-22
Lead (Pb)			<0.50		mg/kg		0.5	12-JAN-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	12-JAN-22
Nickel (Ni)			<0.50		mg/kg		0.5	12-JAN-22
Selenium (Se)			<0.20		mg/kg		0.2	12-JAN-22
Silver (Ag)			<0.10		mg/kg		0.1	12-JAN-22
Thallium (Tl)			<0.050		mg/kg		0.05	12-JAN-22
Uranium (U)			<0.050		mg/kg		0.05	12-JAN-22
Vanadium (V)			<0.20		mg/kg		0.2	12-JAN-22
Zinc (Zn)			<2.0		mg/kg		2	12-JAN-22
Batch R5692957								
WG3683998-2 CRM		**WT-SS-2**						
Antimony (Sb)			102.0		%		70-130	12-JAN-22
Arsenic (As)			111.1		%		70-130	12-JAN-22
Barium (Ba)			115.2		%		70-130	12-JAN-22
Beryllium (Be)			103.2		%		70-130	12-JAN-22
Boron (B)			8.1		mg/kg		3.5-13.5	12-JAN-22
Chromium (Cr)			105.4		%		70-130	12-JAN-22
Cobalt (Co)			107.2		%		70-130	12-JAN-22
Copper (Cu)			120.9		%		70-130	12-JAN-22
Lead (Pb)			103.2		%		70-130	12-JAN-22
Molybdenum (Mo)			100.4		%		70-130	12-JAN-22
Nickel (Ni)			110.3		%		70-130	12-JAN-22
Selenium (Se)			0.11		mg/kg		0-0.34	12-JAN-22
Silver (Ag)			85.4		%		70-130	12-JAN-22
Thallium (Tl)			0.074		mg/kg		0.029-0.129	12-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5692957								
WG3683998-2 CRM		**WT-SS-2**						
Uranium (U)			109.1		%		70-130	12-JAN-22
Vanadium (V)			105.9		%		70-130	12-JAN-22
Zinc (Zn)			109.8		%		70-130	12-JAN-22
WG3683998-4 DUP		**L2677105-20**						
Antimony (Sb)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	12-JAN-22
Arsenic (As)		6.1	5.7		ug/g	6.8	30	12-JAN-22
Barium (Ba)		126	115		ug/g	9.4	40	12-JAN-22
Beryllium (Be)		0.96	0.89		ug/g	7.7	30	12-JAN-22
Boron (B)		16.3	14.5		ug/g	11	30	12-JAN-22
Cadmium (Cd)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	12-JAN-22
Chromium (Cr)		32.8	30.5		ug/g	7.3	30	12-JAN-22
Cobalt (Co)		15.9	15.0		ug/g	6.2	30	12-JAN-22
Copper (Cu)		30.2	28.8		ug/g	4.9	30	12-JAN-22
Lead (Pb)		12.8	11.7		ug/g	9.3	40	12-JAN-22
Molybdenum (Mo)		<1.0	<1.0	RPD-NA	ug/g	N/A	40	12-JAN-22
Nickel (Ni)		35.3	33.6		ug/g	5.0	30	12-JAN-22
Selenium (Se)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	12-JAN-22
Silver (Ag)		<0.20	<0.20	RPD-NA	ug/g	N/A	40	12-JAN-22
Thallium (Tl)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	12-JAN-22
Uranium (U)		1.1	<1.0	RPD-NA	ug/g	N/A	30	12-JAN-22
Vanadium (V)		42.9	39.3		ug/g	8.6	30	12-JAN-22
Zinc (Zn)		72.1	67.3		ug/g	6.9	30	12-JAN-22
WG3683998-3 LCS								
Antimony (Sb)			116.6		%		80-120	12-JAN-22
Arsenic (As)			117.7		%		80-120	12-JAN-22
Barium (Ba)			118.3		%		80-120	12-JAN-22
Beryllium (Be)			110.8		%		80-120	12-JAN-22
Boron (B)			106.0		%		80-120	12-JAN-22
Cadmium (Cd)			113.3		%		80-120	12-JAN-22
Chromium (Cr)			114.6		%		80-120	12-JAN-22
Cobalt (Co)			111.5		%		80-120	12-JAN-22
Copper (Cu)			111.7		%		80-120	12-JAN-22
Lead (Pb)			113.8		%		80-120	12-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5692957								
WG3683998-3 LCS								
Molybdenum (Mo)			111.0		%		80-120	12-JAN-22
Nickel (Ni)			112.3		%		80-120	12-JAN-22
Selenium (Se)			114.7		%		80-120	12-JAN-22
Silver (Ag)			95.3		%		80-120	12-JAN-22
Thallium (Tl)			110.9		%		80-120	12-JAN-22
Uranium (U)			112.5		%		80-120	12-JAN-22
Vanadium (V)			115.6		%		80-120	12-JAN-22
Zinc (Zn)			111.9		%		80-120	12-JAN-22
WG3683998-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	12-JAN-22
Arsenic (As)			<0.10		mg/kg		0.1	12-JAN-22
Barium (Ba)			<0.50		mg/kg		0.5	12-JAN-22
Beryllium (Be)			<0.10		mg/kg		0.1	12-JAN-22
Boron (B)			<5.0		mg/kg		5	12-JAN-22
Cadmium (Cd)			<0.020		mg/kg		0.02	12-JAN-22
Chromium (Cr)			<0.50		mg/kg		0.5	12-JAN-22
Cobalt (Co)			<0.10		mg/kg		0.1	12-JAN-22
Copper (Cu)			<0.50		mg/kg		0.5	12-JAN-22
Lead (Pb)			<0.50		mg/kg		0.5	12-JAN-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	12-JAN-22
Nickel (Ni)			<0.50		mg/kg		0.5	12-JAN-22
Selenium (Se)			<0.20		mg/kg		0.2	12-JAN-22
Silver (Ag)			<0.10		mg/kg		0.1	12-JAN-22
Thallium (Tl)			<0.050		mg/kg		0.05	12-JAN-22
Uranium (U)			<0.050		mg/kg		0.05	12-JAN-22
Vanadium (V)			<0.20		mg/kg		0.2	12-JAN-22
Zinc (Zn)			<2.0		mg/kg		2	12-JAN-22
Batch R5694348								
WG3684482-2 CRM		**WT-SS-2**						
Antimony (Sb)			113.4		%		70-130	13-JAN-22
Arsenic (As)			122.7		%		70-130	13-JAN-22
Barium (Ba)			120.9		%		70-130	13-JAN-22
Beryllium (Be)			108.1		%		70-130	13-JAN-22
Boron (B)			8.9		mg/kg		3.5-13.5	13-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5694348								
WG3684482-2 CRM		**WT-SS-2**						
Cadmium (Cd)			123.6		%		70-130	13-JAN-22
Chromium (Cr)			118.8		%		70-130	13-JAN-22
Cobalt (Co)			118.5		%		70-130	13-JAN-22
Copper (Cu)			118.9		%		70-130	13-JAN-22
Lead (Pb)			110.8		%		70-130	13-JAN-22
Molybdenum (Mo)			111.9		%		70-130	13-JAN-22
Nickel (Ni)			127.8		%		70-130	13-JAN-22
Selenium (Se)			0.17		mg/kg		0-0.34	13-JAN-22
Thallium (Tl)			0.079		mg/kg		0.029-0.129	13-JAN-22
Uranium (U)			104.8		%		70-130	13-JAN-22
Vanadium (V)			121.4		%		70-130	13-JAN-22
Zinc (Zn)			109.5		%		70-130	13-JAN-22
WG3684482-6 DUP		**WG3684482-5**						
Antimony (Sb)		<0.10	0.18	RPD-NA	ug/g	N/A	30	13-JAN-22
Arsenic (As)		3.37	3.64		ug/g	7.7	30	13-JAN-22
Barium (Ba)		65.6	72.1		ug/g	9.4	40	13-JAN-22
Beryllium (Be)		0.41	0.47		ug/g	14	30	13-JAN-22
Boron (B)		7.3	8.5		ug/g	16	30	13-JAN-22
Cadmium (Cd)		0.059	0.079		ug/g	28	30	13-JAN-22
Chromium (Cr)		18.1	20.8		ug/g	13	30	13-JAN-22
Cobalt (Co)		7.72	8.41		ug/g	8.5	30	13-JAN-22
Copper (Cu)		16.4	18.4		ug/g	12	30	13-JAN-22
Lead (Pb)		6.55	7.33		ug/g	11	40	13-JAN-22
Molybdenum (Mo)		0.34	0.40		ug/g	17	40	13-JAN-22
Nickel (Ni)		17.1	18.7		ug/g	9.1	30	13-JAN-22
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	13-JAN-22
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	13-JAN-22
Thallium (Tl)		0.094	0.112		ug/g	17	30	13-JAN-22
Uranium (U)		0.657	0.685		ug/g	4.2	30	13-JAN-22
Vanadium (V)		26.5	30.9		ug/g	15	30	13-JAN-22
Zinc (Zn)		33.2	39.3		ug/g	17	30	13-JAN-22
WG3684482-4 LCS								
Antimony (Sb)			111.5		%		80-120	13-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5694348								
WG3684482-4 LCS								
Arsenic (As)			109.2		%		80-120	13-JAN-22
Barium (Ba)			108.0		%		80-120	13-JAN-22
Beryllium (Be)			94.3		%		80-120	13-JAN-22
Boron (B)			83.8		%		80-120	13-JAN-22
Cadmium (Cd)			100.1		%		80-120	13-JAN-22
Chromium (Cr)			110.6		%		80-120	13-JAN-22
Cobalt (Co)			104.4		%		80-120	13-JAN-22
Copper (Cu)			107.8		%		80-120	13-JAN-22
Lead (Pb)			102.4		%		80-120	13-JAN-22
Molybdenum (Mo)			100.6		%		80-120	13-JAN-22
Nickel (Ni)			107.6		%		80-120	13-JAN-22
Selenium (Se)			105.5		%		80-120	13-JAN-22
Silver (Ag)			81.8		%		80-120	13-JAN-22
Thallium (Tl)			103.5		%		80-120	13-JAN-22
Uranium (U)			97.9		%		80-120	13-JAN-22
Vanadium (V)			112.1		%		80-120	13-JAN-22
Zinc (Zn)			99.0		%		80-120	13-JAN-22
WG3684482-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	13-JAN-22
Arsenic (As)			<0.10		mg/kg		0.1	13-JAN-22
Barium (Ba)			<0.50		mg/kg		0.5	13-JAN-22
Beryllium (Be)			<0.10		mg/kg		0.1	13-JAN-22
Boron (B)			<5.0		mg/kg		5	13-JAN-22
Cadmium (Cd)			<0.020		mg/kg		0.02	13-JAN-22
Chromium (Cr)			<0.50		mg/kg		0.5	13-JAN-22
Cobalt (Co)			<0.10		mg/kg		0.1	13-JAN-22
Copper (Cu)			<0.50		mg/kg		0.5	13-JAN-22
Lead (Pb)			<0.50		mg/kg		0.5	13-JAN-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	13-JAN-22
Nickel (Ni)			<0.50		mg/kg		0.5	13-JAN-22
Selenium (Se)			<0.20		mg/kg		0.2	13-JAN-22
Silver (Ag)			<0.10		mg/kg		0.1	13-JAN-22
Thallium (Tl)			<0.050		mg/kg		0.05	13-JAN-22
Uranium (U)			<0.050		mg/kg		0.05	13-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5694348								
WG3684482-1 MB								
Vanadium (V)			<0.20		mg/kg		0.2	13-JAN-22
Zinc (Zn)			<2.0		mg/kg		2	13-JAN-22
MOISTURE-WT	**Soil**							
Batch R5689130								
WG3682898-3 DUP		**L2677105-12**						
% Moisture		15.9	15.7		%	1.0	20	08-JAN-22
WG3682898-2 LCS								
% Moisture			99.8		%		90-110	08-JAN-22
WG3682898-1 MB								
% Moisture			<0.25		%		0.25	08-JAN-22
Batch R5690159								
WG3683218-3 DUP		**L2677581-4**						
% Moisture		22.1	22.8		%	2.9	20	11-JAN-22
WG3683218-2 LCS								
% Moisture			100.6		%		90-110	11-JAN-22
WG3683218-1 MB								
% Moisture			<0.25		%		0.25	11-JAN-22
OCP-TRACE-WT	**Soil**							
Batch R5693439								
WG3683587-3 DUP		**WG3683587-5**						
Aldrin		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	12-JAN-22
a-chlordane		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	12-JAN-22
g-chlordane		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	12-JAN-22
o,p-DDD		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	12-JAN-22
pp-DDD		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	12-JAN-22
o,p-DDE		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	12-JAN-22
pp-DDE		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	12-JAN-22
op-DDT		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	12-JAN-22
pp-DDT		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	12-JAN-22
Dieldrin		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	12-JAN-22
alpha-Endosulfan		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	12-JAN-22
beta-Endosulfan		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	12-JAN-22
Endrin		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	12-JAN-22
Heptachlor		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	12-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT	**Soil**							
Batch R5693439								
WG3683587-3 DUP		**WG3683587-5**						
Heptachlor Epoxide		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	12-JAN-22
Hexachlorobenzene		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	12-JAN-22
Hexachlorobutadiene		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	12-JAN-22
Hexachloroethane		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	12-JAN-22
Lindane		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	12-JAN-22
Methoxychlor		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	12-JAN-22
WG3683587-2 LCS								
Aldrin			110.7		%		50-150	12-JAN-22
a-chlordane			105.4		%		50-150	12-JAN-22
g-chlordane			102.7		%		50-150	12-JAN-22
o,p-DDD			90.4		%		50-150	12-JAN-22
pp-DDD			85.7		%		50-150	12-JAN-22
o,p-DDE			104.2		%		50-150	12-JAN-22
pp-DDE			116.8		%		50-150	12-JAN-22
op-DDT			91.8		%		50-150	12-JAN-22
pp-DDT			98.8		%		50-150	12-JAN-22
Dieldrin			114.8		%		50-150	12-JAN-22
alpha-Endosulfan			121.1		%		50-150	12-JAN-22
beta-Endosulfan			104.2		%		50-150	12-JAN-22
Endrin			74.1		%		50-150	12-JAN-22
Heptachlor			90.5		%		50-150	12-JAN-22
Heptachlor Epoxide			102.9		%		50-150	12-JAN-22
Hexachlorobenzene			98.8		%		50-150	12-JAN-22
Hexachlorobutadiene			95.9		%		50-150	12-JAN-22
Hexachloroethane			108.2		%		50-150	12-JAN-22
Lindane			104.9		%		50-150	12-JAN-22
Methoxychlor			94.1		%		50-150	12-JAN-22
WG3683587-1 MB								
Aldrin			<0.00020		ug/g		0.0002	12-JAN-22
a-chlordane			<0.00030		ug/g		0.0003	12-JAN-22
g-chlordane			<0.00030		ug/g		0.0003	12-JAN-22
o,p-DDD			<0.00030		ug/g		0.0003	12-JAN-22
pp-DDD			<0.00030		ug/g		0.0003	12-JAN-22
o,p-DDE			<0.00030		ug/g		0.0003	12-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT	**Soil**							
Batch	**R5693439**							
WG3683587-1	**MB**							
pp-DDE			<0.00030		ug/g		0.0003	12-JAN-22
op-DDT			<0.00030		ug/g		0.0003	12-JAN-22
pp-DDT			<0.00030		ug/g		0.0003	12-JAN-22
Dieldrin			<0.00020		ug/g		0.0002	12-JAN-22
alpha-Endosulfan			<0.00030		ug/g		0.0003	12-JAN-22
beta-Endosulfan			<0.00030		ug/g		0.0003	12-JAN-22
Endrin			<0.00050		ug/g		0.0005	12-JAN-22
Heptachlor			<0.00020		ug/g		0.0002	12-JAN-22
Heptachlor Epoxide			<0.00020		ug/g		0.0002	12-JAN-22
Hexachlorobenzene			<0.00050		ug/g		0.0005	12-JAN-22
Hexachlorobutadiene			<0.00050		ug/g		0.0005	12-JAN-22
Hexachloroethane			<0.00050		ug/g		0.0005	12-JAN-22
Lindane			<0.00020		ug/g		0.0002	12-JAN-22
Methoxychlor			<0.00050		ug/g		0.0005	12-JAN-22
Surrogate: Tetrachloro-m-xylene			109.5		%		50-150	12-JAN-22
Surrogate: Decachlorobiphenyl			123.0		%		50-150	12-JAN-22
WG3683587-4	**MS**	**WG3683587-5**						
Aldrin			104.9		%		50-150	12-JAN-22
a-chlordane			88.2		%		50-150	12-JAN-22
g-chlordane			92.3		%		50-150	12-JAN-22
o,p-DDD			79.0		%		50-150	12-JAN-22
pp-DDD			88.3		%		50-150	12-JAN-22
o,p-DDE			90.2		%		50-150	12-JAN-22
pp-DDE			99.0		%		50-150	12-JAN-22
op-DDT			102.3		%		50-150	12-JAN-22
pp-DDT			93.5		%		50-150	12-JAN-22
Dieldrin			102.5		%		50-150	12-JAN-22
alpha-Endosulfan			96.8		%		50-150	12-JAN-22
beta-Endosulfan			93.7		%		50-150	12-JAN-22
Endrin			80.0		%		50-150	12-JAN-22
Heptachlor			88.2		%		50-150	12-JAN-22
Heptachlor Epoxide			89.7		%		50-150	12-JAN-22
Hexachlorobenzene			93.0		%		50-150	12-JAN-22
Hexachlorobutadiene			90.0		%		50-150	12-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT	**Soil**							
Batch R5693439								
WG3683587-4 MS		**WG3683587-5**						
Hexachloroethane			104.6		%		50-150	12-JAN-22
Lindane			101.8		%		50-150	12-JAN-22
Methoxychlor			93.6		%		50-150	12-JAN-22
PAH-511-WT	**Soil**							
Batch R5692177								
WG3683585-3 DUP		**WG3683585-5**						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	11-JAN-22
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	11-JAN-22
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-JAN-22
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-JAN-22
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-JAN-22
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-JAN-22
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-JAN-22
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-JAN-22
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-JAN-22
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-JAN-22
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-JAN-22
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-JAN-22
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-JAN-22
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-JAN-22
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-JAN-22
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	11-JAN-22
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	11-JAN-22
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-JAN-22
WG3683585-2 LCS								
1-Methylnaphthalene			89.6		%		50-140	11-JAN-22
2-Methylnaphthalene			90.0		%		50-140	11-JAN-22
Acenaphthene			86.6		%		50-140	11-JAN-22
Acenaphthylene			83.4		%		50-140	11-JAN-22
Anthracene			77.4		%		50-140	11-JAN-22
Benzo(a)anthracene			82.7		%		50-140	11-JAN-22
Benzo(a)pyrene			83.2		%		50-140	11-JAN-22
Benzo(b&j)fluoranthene			91.2		%		50-140	11-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5692177								
WG3683585-2 LCS								
Benzo(g,h,i)perylene			65.1		%		50-140	11-JAN-22
Benzo(k)fluoranthene			89.1		%		50-140	11-JAN-22
Chrysene			86.1		%		50-140	11-JAN-22
Dibenz(a,h)anthracene			57.8		%		50-140	11-JAN-22
Fluoranthene			85.9		%		50-140	11-JAN-22
Fluorene			86.7		%		50-140	11-JAN-22
Indeno(1,2,3-cd)pyrene			60.6		%		50-140	11-JAN-22
Naphthalene			87.2		%		50-140	11-JAN-22
Phenanthrene			85.7		%		50-140	11-JAN-22
Pyrene			85.1		%		50-140	11-JAN-22
WG3683585-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	11-JAN-22
2-Methylnaphthalene			<0.030		ug/g		0.03	11-JAN-22
Acenaphthene			<0.050		ug/g		0.05	11-JAN-22
Acenaphthylene			<0.050		ug/g		0.05	11-JAN-22
Anthracene			<0.050		ug/g		0.05	11-JAN-22
Benzo(a)anthracene			<0.050		ug/g		0.05	11-JAN-22
Benzo(a)pyrene			<0.050		ug/g		0.05	11-JAN-22
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	11-JAN-22
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	11-JAN-22
Benzo(k)fluoranthene			<0.050		ug/g		0.05	11-JAN-22
Chrysene			<0.050		ug/g		0.05	11-JAN-22
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	11-JAN-22
Fluoranthene			<0.050		ug/g		0.05	11-JAN-22
Fluorene			<0.050		ug/g		0.05	11-JAN-22
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	11-JAN-22
Naphthalene			<0.013		ug/g		0.013	11-JAN-22
Phenanthrene			<0.046		ug/g		0.046	11-JAN-22
Pyrene			<0.050		ug/g		0.05	11-JAN-22
Surrogate: 2-Fluorobiphenyl			88.0		%		50-140	11-JAN-22
Surrogate: d14-Terphenyl			80.9		%		50-140	11-JAN-22
WG3683585-4 MS		**WG3683585-5**						
1-Methylnaphthalene			95.2		%		50-140	11-JAN-22
2-Methylnaphthalene			95.0		%		50-140	11-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5692177								
WG3683585-4 MS		**WG3683585-5**						
Acenaphthene			92.7		%		50-140	11-JAN-22
Acenaphthylene			91.0		%		50-140	11-JAN-22
Anthracene			84.7		%		50-140	11-JAN-22
Benzo(a)anthracene			90.6		%		50-140	11-JAN-22
Benzo(a)pyrene			93.1		%		50-140	11-JAN-22
Benzo(b&j)fluoranthene			93.1		%		50-140	11-JAN-22
Benzo(g,h,i)perylene			98.8		%		50-140	11-JAN-22
Benzo(k)fluoranthene			93.6		%		50-140	11-JAN-22
Chrysene			91.4		%		50-140	11-JAN-22
Dibenz(a,h)anthracene			112.0		%		50-140	11-JAN-22
Fluoranthene			91.5		%		50-140	11-JAN-22
Fluorene			92.3		%		50-140	11-JAN-22
Indeno(1,2,3-cd)pyrene			94.6		%		50-140	11-JAN-22
Naphthalene			91.5		%		50-140	11-JAN-22
Phenanthrene			91.3		%		50-140	11-JAN-22
Pyrene			91.4		%		50-140	11-JAN-22
PCB-511-WT	**Soil**							
Batch R5692296								
WG3683585-3 DUP		**WG3683585-5**						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	12-JAN-22
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	12-JAN-22
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	12-JAN-22
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	12-JAN-22
WG3683585-2 LCS								
Aroclor 1242			103.0		%		60-140	12-JAN-22
Aroclor 1248			103.6		%		60-140	12-JAN-22
Aroclor 1254			95.0		%		60-140	12-JAN-22
Aroclor 1260			96.1		%		60-140	12-JAN-22
WG3683585-1 MB								
Aroclor 1242			<0.010		ug/g		0.01	12-JAN-22
Aroclor 1248			<0.010		ug/g		0.01	12-JAN-22
Aroclor 1254			<0.010		ug/g		0.01	12-JAN-22
Aroclor 1260			<0.010		ug/g		0.01	12-JAN-22
Surrogate: d14-Terphenyl			89.8		%		60-140	12-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-511-WT	**Soil**							
Batch R5692296								
WG3683585-4 MS		**WG3683585-5**						
Aroclor 1242			107.5		%		60-140	12-JAN-22
Aroclor 1254			98.0		%		60-140	12-JAN-22
Aroclor 1260			97.0		%		60-140	12-JAN-22
PH-WT	**Soil**							
Batch R5691700								
WG3683562-2 DUP		**L2677105-29**						
pH		8.15	8.20	J	pH units	0.05	0.3	11-JAN-22
WG3683737-1 LCS								
pH			7.00		pH units		6.9-7.1	11-JAN-22
SAR-R511-WT	**Soil**							
Batch R5692937								
WG3684018-4 DUP		**WG3684018-3**						
Calcium (Ca)		0.91	0.89		mg/L	1.7	30	12-JAN-22
Sodium (Na)		63.0	62.4		mg/L	1.0	30	12-JAN-22
Magnesium (Mg)		<0.50	<0.50	RPD-NA	mg/L	N/A	30	12-JAN-22
WG3684018-2 IRM		**WT SAR4**						
Calcium (Ca)			104.0		%		70-130	12-JAN-22
Sodium (Na)			96.4		%		70-130	12-JAN-22
Magnesium (Mg)			105.1		%		70-130	12-JAN-22
WG3684018-5 LCS								
Calcium (Ca)			101.7		%		80-120	12-JAN-22
Sodium (Na)			101.6		%		80-120	12-JAN-22
Magnesium (Mg)			99.4		%		80-120	12-JAN-22
WG3684018-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	12-JAN-22
Sodium (Na)			<0.50		mg/L		0.5	12-JAN-22
Magnesium (Mg)			<0.50		mg/L		0.5	12-JAN-22
VOC-511-HS-WT	**Soil**							
Batch R5692238								
WG3683835-4 DUP		**WG3683835-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
1,1-Dichloroethane		<0.050	<0.050					

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5692238								
WG3683835-4 DUP		**WG3683835-3**						
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	12-JAN-22
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	12-JAN-22
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	12-JAN-22
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	12-JAN-22
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	12-JAN-22
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	12-JAN-22
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	12-JAN-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	12-JAN-22
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	12-JAN-22
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
trans-1,3-Dichloropropene		<0.030	<0.030		ug/g			12-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5692238								
WG3683835-4 DUP		**WG3683835-3**						
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	12-JAN-22
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	12-JAN-22
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	12-JAN-22
WG3683835-2 LCS								
1,1,1,2-Tetrachloroethane			96.7		%		60-130	12-JAN-22
1,1,2,2-Tetrachloroethane			98.7		%		60-130	12-JAN-22
1,1,1-Trichloroethane			96.2		%		60-130	12-JAN-22
1,1,2-Trichloroethane			95.2		%		60-130	12-JAN-22
1,1-Dichloroethane			84.3		%		60-130	12-JAN-22
1,1-Dichloroethylene			92.7		%		60-130	12-JAN-22
1,2-Dibromoethane			93.0		%		70-130	12-JAN-22
1,2-Dichlorobenzene			104.1		%		70-130	12-JAN-22
1,2-Dichloroethane			94.4		%		60-130	12-JAN-22
1,2-Dichloropropane			95.9		%		70-130	12-JAN-22
1,3-Dichlorobenzene			101.0		%		70-130	12-JAN-22
1,4-Dichlorobenzene			101.5		%		70-130	12-JAN-22
Acetone			92.5		%		60-140	12-JAN-22
Benzene			94.5		%		70-130	12-JAN-22
Bromodichloromethane			101.3		%		50-140	12-JAN-22
Bromoform			95.9		%		70-130	12-JAN-22
Bromomethane			88.2		%		50-140	12-JAN-22
Carbon tetrachloride			96.9		%		70-130	12-JAN-22
Chlorobenzene			100.6		%		70-130	12-JAN-22
Chloroform			96.9		%		70-130	12-JAN-22
cis-1,2-Dichloroethylene			95.0		%		70-130	12-JAN-22
cis-1,3-Dichloropropene			95.3		%		70-130	12-JAN-22
Dibromochloromethane			97.4		%		60-130	12-JAN-22
Dichlorodifluoromethane			49.9	MES	%		50-140	12-JAN-22
Ethylbenzene			97.2		%		70-130	12-JAN-22
n-Hexane			89.5		%		70-130	12-JAN-22
Methylene Chloride			94.1		%		70-130	12-JAN-22
MTBE			95.3		%		70-130	12-JAN-22
m+p-Xylenes			103.6				70-130	

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5692238								
WG3683835-2 LCS								
m+p-Xylenes			103.6		%		70-130	12-JAN-22
Methyl Ethyl Ketone			87.6		%		60-140	12-JAN-22
Methyl Isobutyl Ketone			87.3		%		60-140	12-JAN-22
o-Xylene			97.5		%		70-130	12-JAN-22
Styrene			99.95		%		70-130	12-JAN-22
Tetrachloroethylene			98.5		%		60-130	12-JAN-22
Toluene			96.1		%		70-130	12-JAN-22
trans-1,2-Dichloroethylene			97.5		%		60-130	12-JAN-22
trans-1,3-Dichloropropene			92.1		%		70-130	12-JAN-22
Trichloroethylene			97.9		%		60-130	12-JAN-22
Trichlorofluoromethane			88.6		%		50-140	12-JAN-22
Vinyl chloride			74.0		%		60-140	12-JAN-22
WG3683835-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	12-JAN-22
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	12-JAN-22
1,1,1-Trichloroethane			<0.050		ug/g		0.05	12-JAN-22
1,1,2-Trichloroethane			<0.050		ug/g		0.05	12-JAN-22
1,1-Dichloroethane			<0.050		ug/g		0.05	12-JAN-22
1,1-Dichloroethylene			<0.050		ug/g		0.05	12-JAN-22
1,2-Dibromoethane			<0.050		ug/g		0.05	12-JAN-22
1,2-Dichlorobenzene			<0.050		ug/g		0.05	12-JAN-22
1,2-Dichloroethane			<0.050		ug/g		0.05	12-JAN-22
1,2-Dichloropropane			<0.050		ug/g		0.05	12-JAN-22
1,3-Dichlorobenzene			<0.050		ug/g		0.05	12-JAN-22
1,4-Dichlorobenzene			<0.050		ug/g		0.05	12-JAN-22
Acetone			<0.50		ug/g		0.5	12-JAN-22
Benzene			<0.0068		ug/g		0.0068	12-JAN-22
Bromodichloromethane			<0.050		ug/g		0.05	12-JAN-22
Bromoform			<0.050		ug/g		0.05	12-JAN-22
Bromomethane			<0.050		ug/g		0.05	12-JAN-22
Carbon tetrachloride			<0.050		ug/g		0.05	12-JAN-22
Chlorobenzene			<0.050		ug/g		0.05	12-JAN-22
Chloroform			<0.050		ug/g		0.05	12-JAN-22
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	12-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5692238								
WG3683835-1 MB								
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	12-JAN-22
Dibromochloromethane			<0.050		ug/g		0.05	12-JAN-22
Dichlorodifluoromethane			<0.050		ug/g		0.05	12-JAN-22
Ethylbenzene			<0.018		ug/g		0.018	12-JAN-22
n-Hexane			<0.050		ug/g		0.05	12-JAN-22
Methylene Chloride			<0.050		ug/g		0.05	12-JAN-22
MTBE			<0.050		ug/g		0.05	12-JAN-22
m+p-Xylenes			<0.030		ug/g		0.03	12-JAN-22
Methyl Ethyl Ketone			<0.50		ug/g		0.5	12-JAN-22
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	12-JAN-22
o-Xylene			<0.020		ug/g		0.02	12-JAN-22
Styrene			<0.050		ug/g		0.05	12-JAN-22
Tetrachloroethylene			<0.050		ug/g		0.05	12-JAN-22
Toluene			<0.080		ug/g		0.08	12-JAN-22
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	12-JAN-22
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	12-JAN-22
Trichloroethylene			<0.010		ug/g		0.01	12-JAN-22
Trichlorofluoromethane			<0.050		ug/g		0.05	12-JAN-22
Vinyl chloride			<0.020		ug/g		0.02	12-JAN-22
Surrogate: 1,4-Difluorobenzene			127.3		%		50-140	12-JAN-22
Surrogate: 4-Bromofluorobenzene			113.0		%		50-140	12-JAN-22
WG3683835-5 MS		**WG3683835-3**						
1,1,1,2-Tetrachloroethane			104.3		%		50-140	12-JAN-22
1,1,2,2-Tetrachloroethane			106.0		%		50-140	12-JAN-22
1,1,1-Trichloroethane			107.4		%		50-140	12-JAN-22
1,1,2-Trichloroethane			103.5		%		50-140	12-JAN-22
1,1-Dichloroethane			94.9		%		50-140	12-JAN-22
1,1-Dichloroethylene			109.8		%		50-140	12-JAN-22
1,2-Dibromoethane			100.8		%		50-140	12-JAN-22
1,2-Dichlorobenzene			112.1		%		50-140	12-JAN-22
1,2-Dichloroethane			103.7		%		50-140	12-JAN-22
1,2-Dichloropropane			104.7		%		50-140	12-JAN-22
1,3-Dichlorobenzene			108.7		%		50-140	12-JAN-22
1,4-Dichlorobenzene			109.5		%		50-140	12-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5692238								
WG3683835-5 MS		**WG3683835-3**						
Acetone			105.1		%		50-140	12-JAN-22
Benzene			104.6		%		50-140	12-JAN-22
Bromodichloromethane			109.7		%		50-140	12-JAN-22
Bromoform			102.5		%		50-140	12-JAN-22
Bromomethane			107.6		%		50-140	12-JAN-22
Carbon tetrachloride			108.0		%		50-140	12-JAN-22
Chlorobenzene			109.1		%		50-140	12-JAN-22
Chloroform			106.9		%		50-140	12-JAN-22
cis-1,2-Dichloroethylene			105.4		%		50-140	12-JAN-22
cis-1,3-Dichloropropene			101.2		%		50-140	12-JAN-22
Dibromochloromethane			105.1		%		50-140	12-JAN-22
Dichlorodifluoromethane			104.5		%		50-140	12-JAN-22
Ethylbenzene			105.4		%		50-140	12-JAN-22
n-Hexane			109.7		%		50-140	12-JAN-22
Methylene Chloride			105.4		%		50-140	12-JAN-22
MTBE			102.4		%		50-140	12-JAN-22
m+p-Xylenes			112.6		%		50-140	12-JAN-22
Methyl Ethyl Ketone			96.7		%		50-140	12-JAN-22
Methyl Isobutyl Ketone			93.2		%		50-140	12-JAN-22
o-Xylene			105.4		%		50-140	12-JAN-22
Styrene			106.6		%		50-140	12-JAN-22
Tetrachloroethylene			108.5		%		50-140	12-JAN-22
Toluene			105.7		%		50-140	12-JAN-22
trans-1,2-Dichloroethylene			110.3		%		50-140	12-JAN-22
trans-1,3-Dichloropropene			98.4		%		50-140	12-JAN-22
Trichloroethylene			107.5		%		50-140	12-JAN-22
Trichlorofluoromethane			110.2		%		50-140	12-JAN-22
Vinyl chloride			99.1		%		50-140	12-JAN-22

Quality Control Report

Workorder: L2677105 Report Date: 17-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: JEN LAMBKE

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).
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.

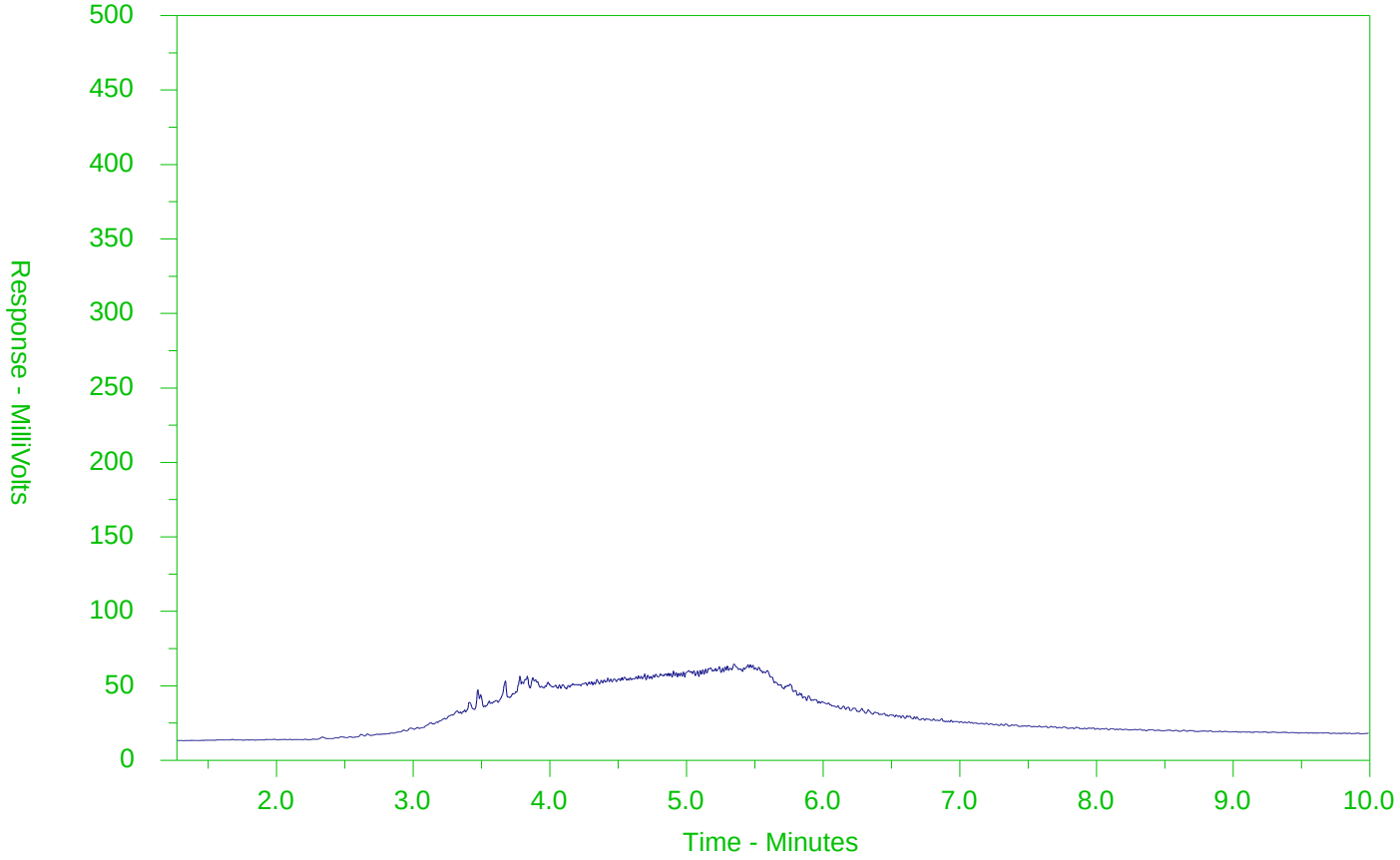
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where 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: L2677105-2
Client Sample ID: MW320-22 SS1



←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.

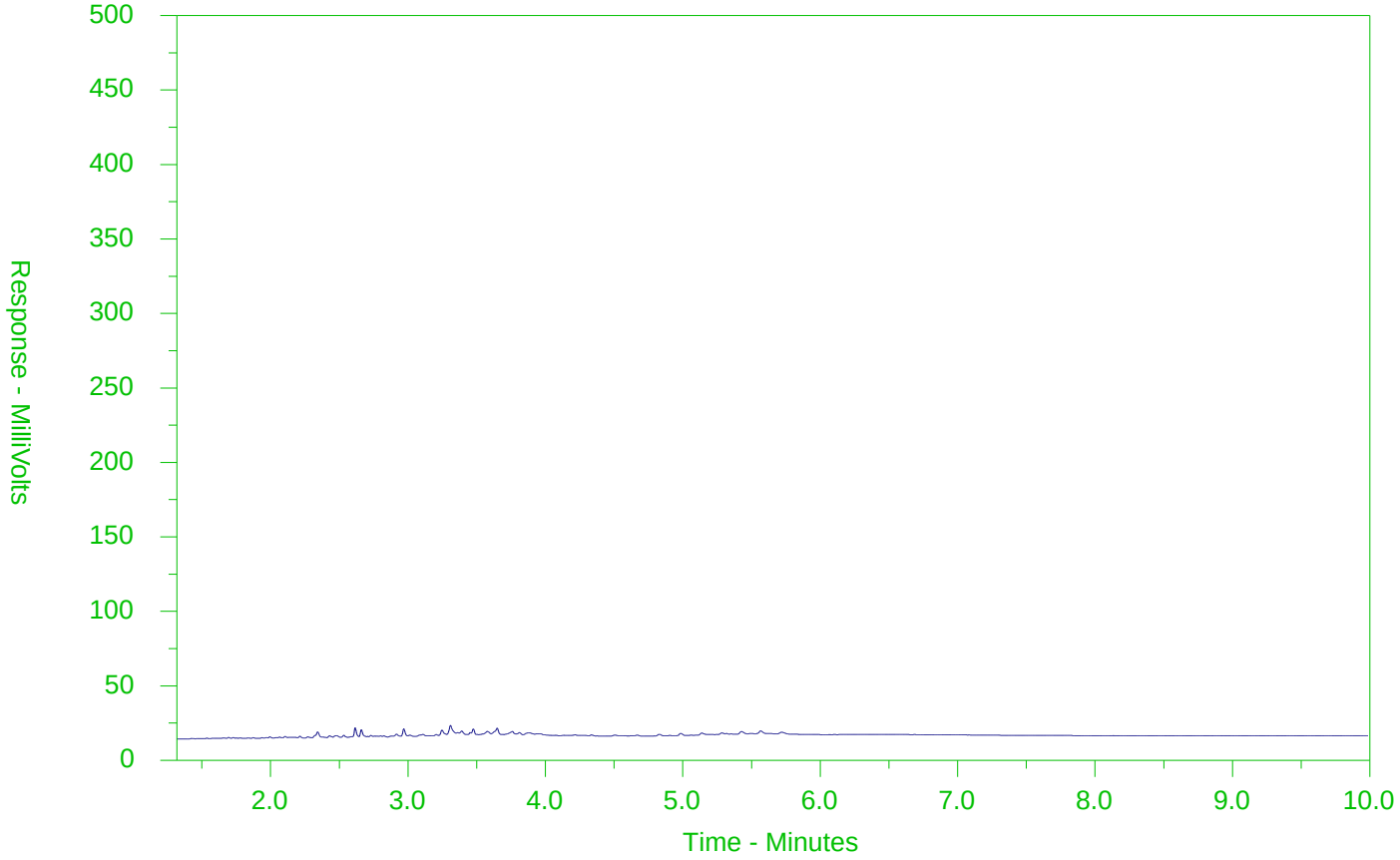
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677105-4
Client Sample ID: MW320-22 SS3



←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.

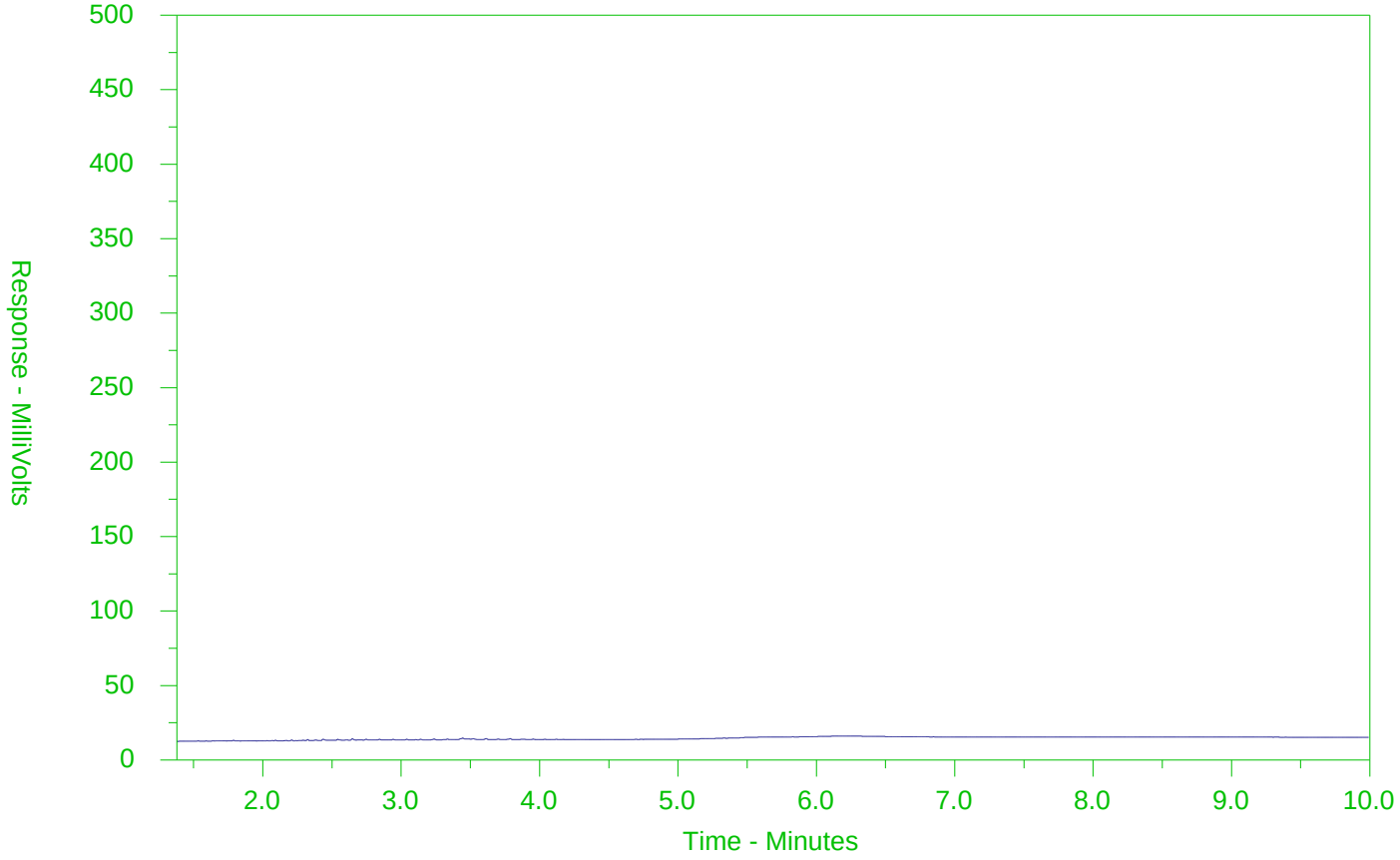
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677105-6
Client Sample ID: MW320-22 SS5



←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.

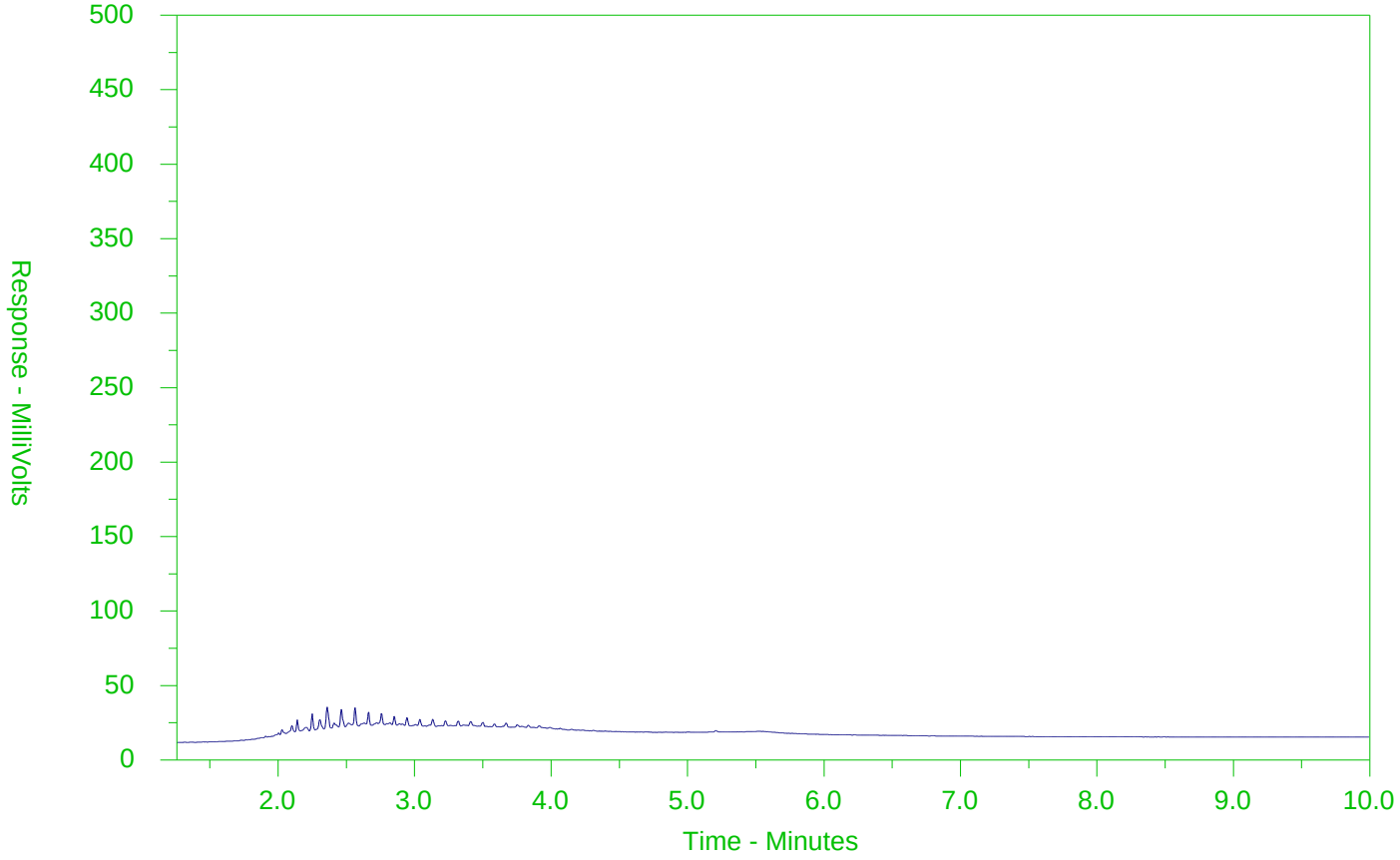
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677105-9
Client Sample ID: MW320-22 SS8



←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.

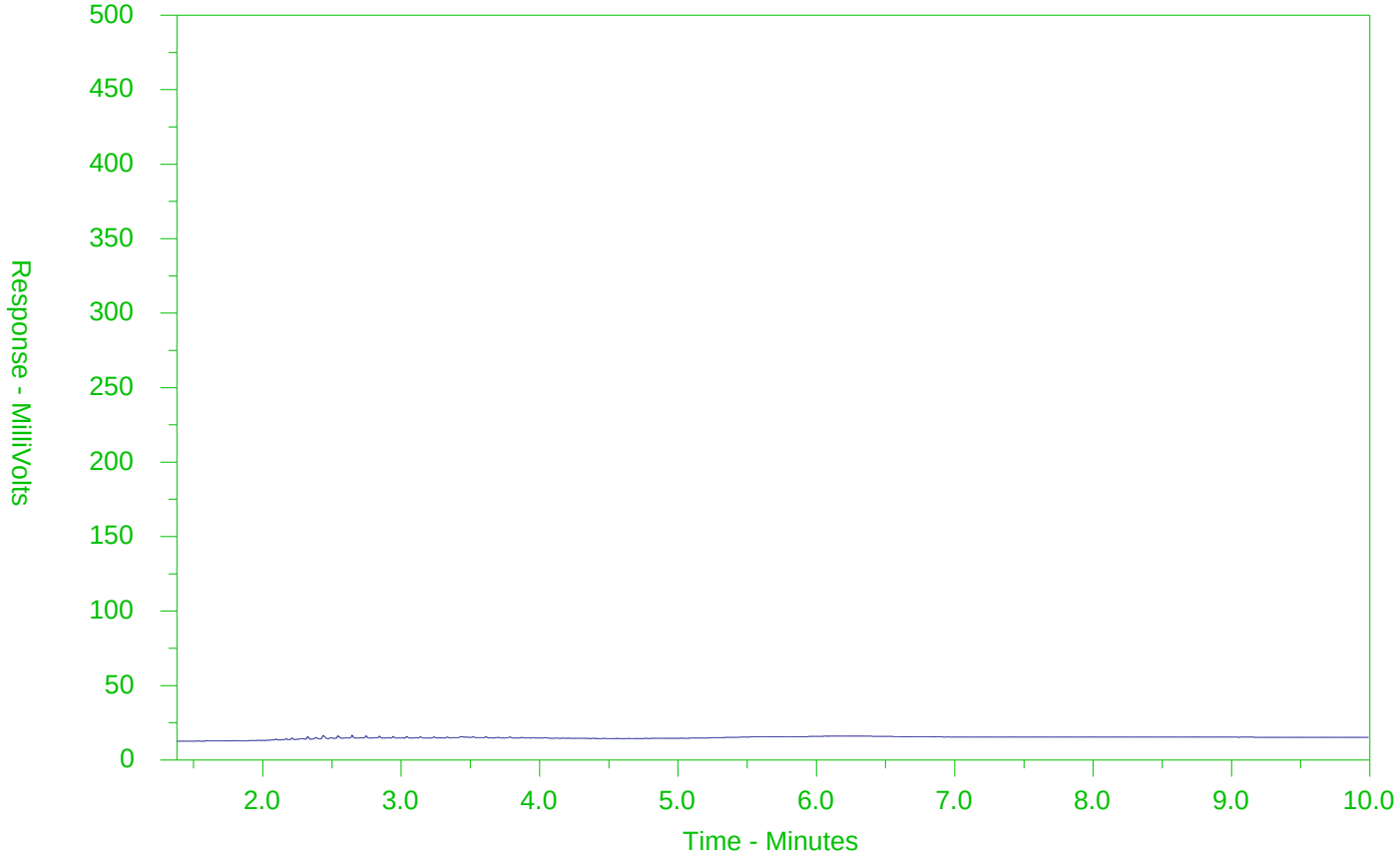
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677105-12
Client Sample ID: MW320-22 AS11



←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.

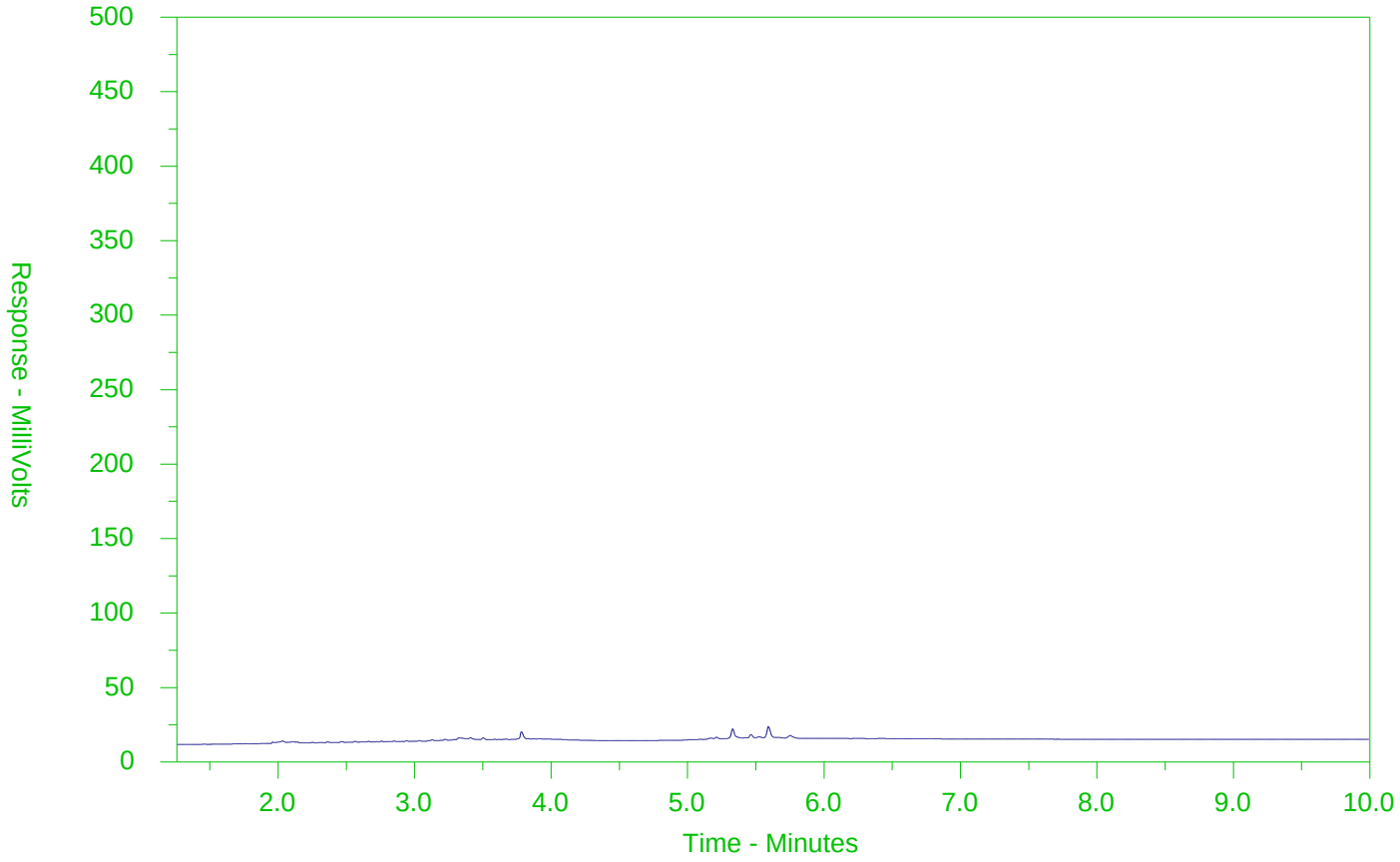
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677105-15
Client Sample ID: MW314-22 SS2



←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.

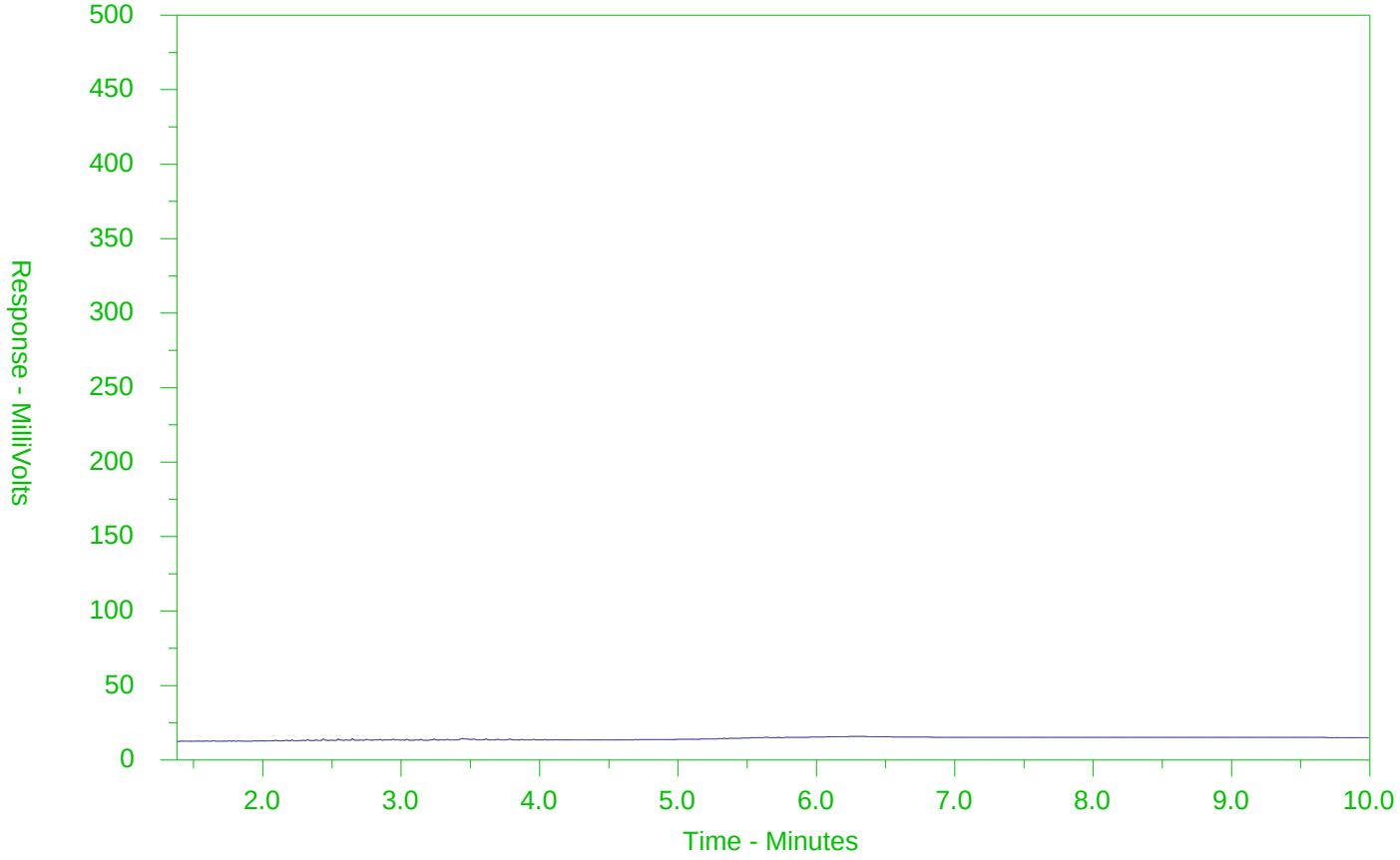
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677105-18
Client Sample ID: MW314-22 SS5



←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.

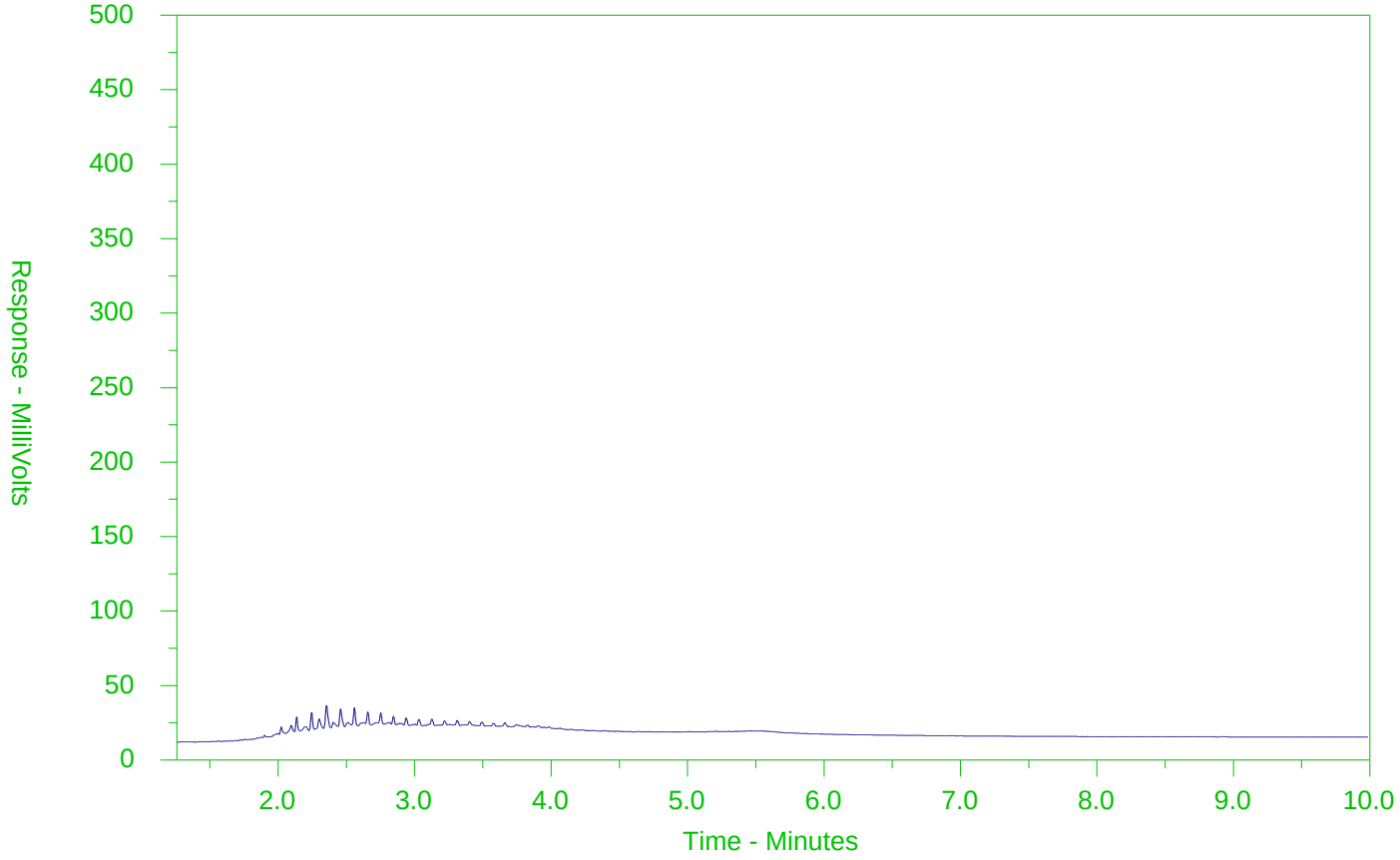
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677105-20
Client Sample ID: MW314-22 SS7



←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.

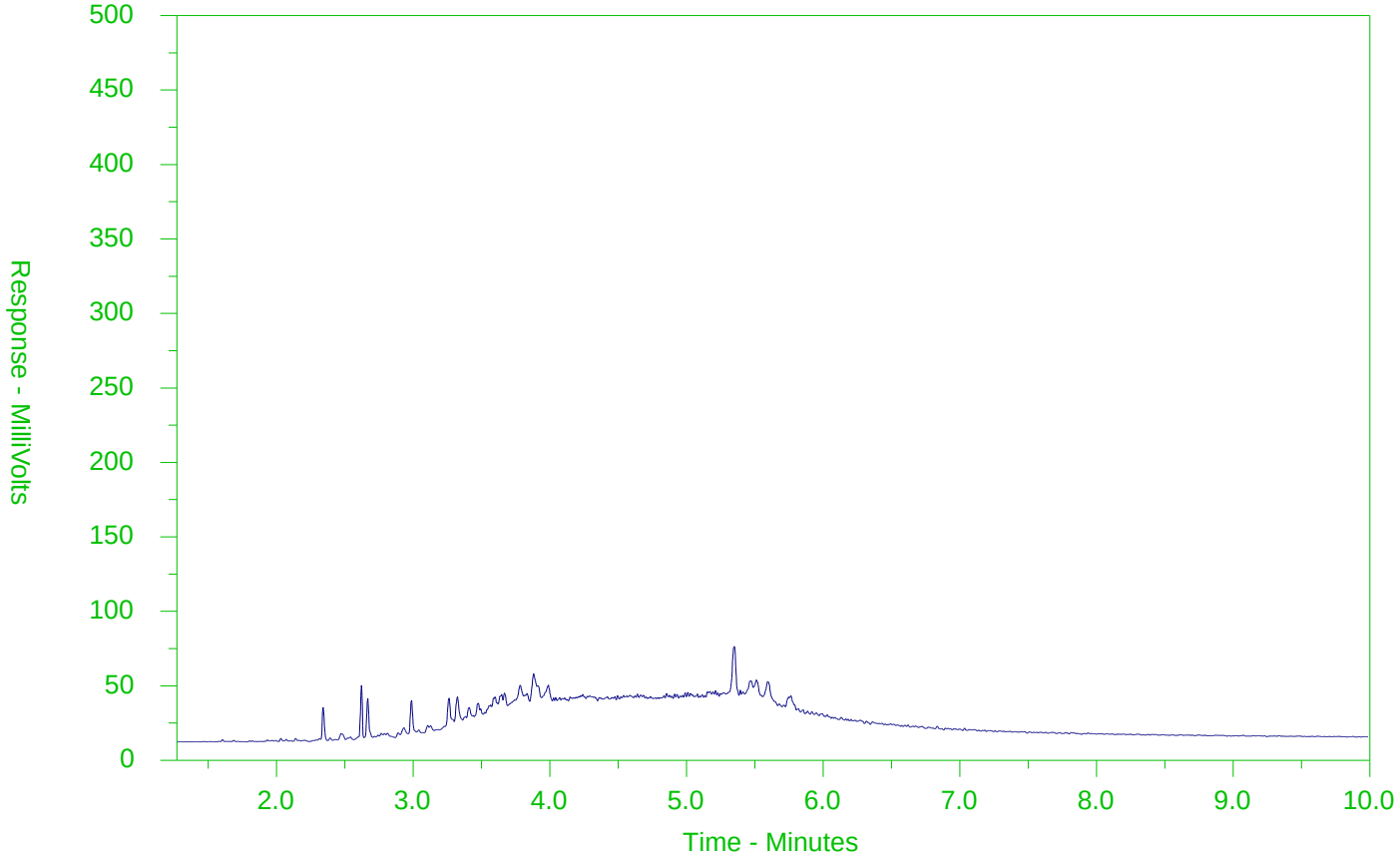
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677105-22
Client Sample ID: BH312-22 SS1A



←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.

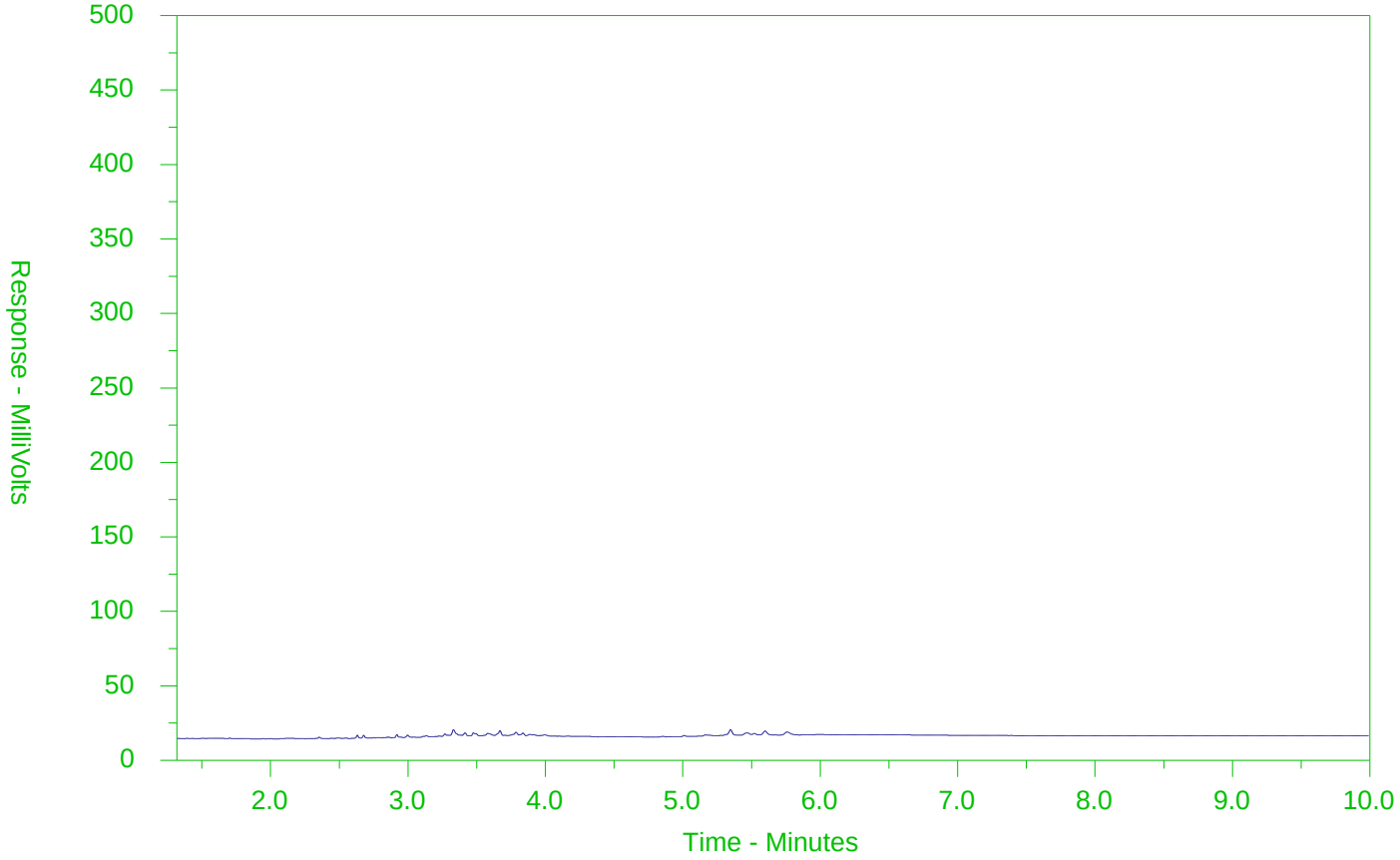
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677105-24
Client Sample ID: MW314-22 SS1B



←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.

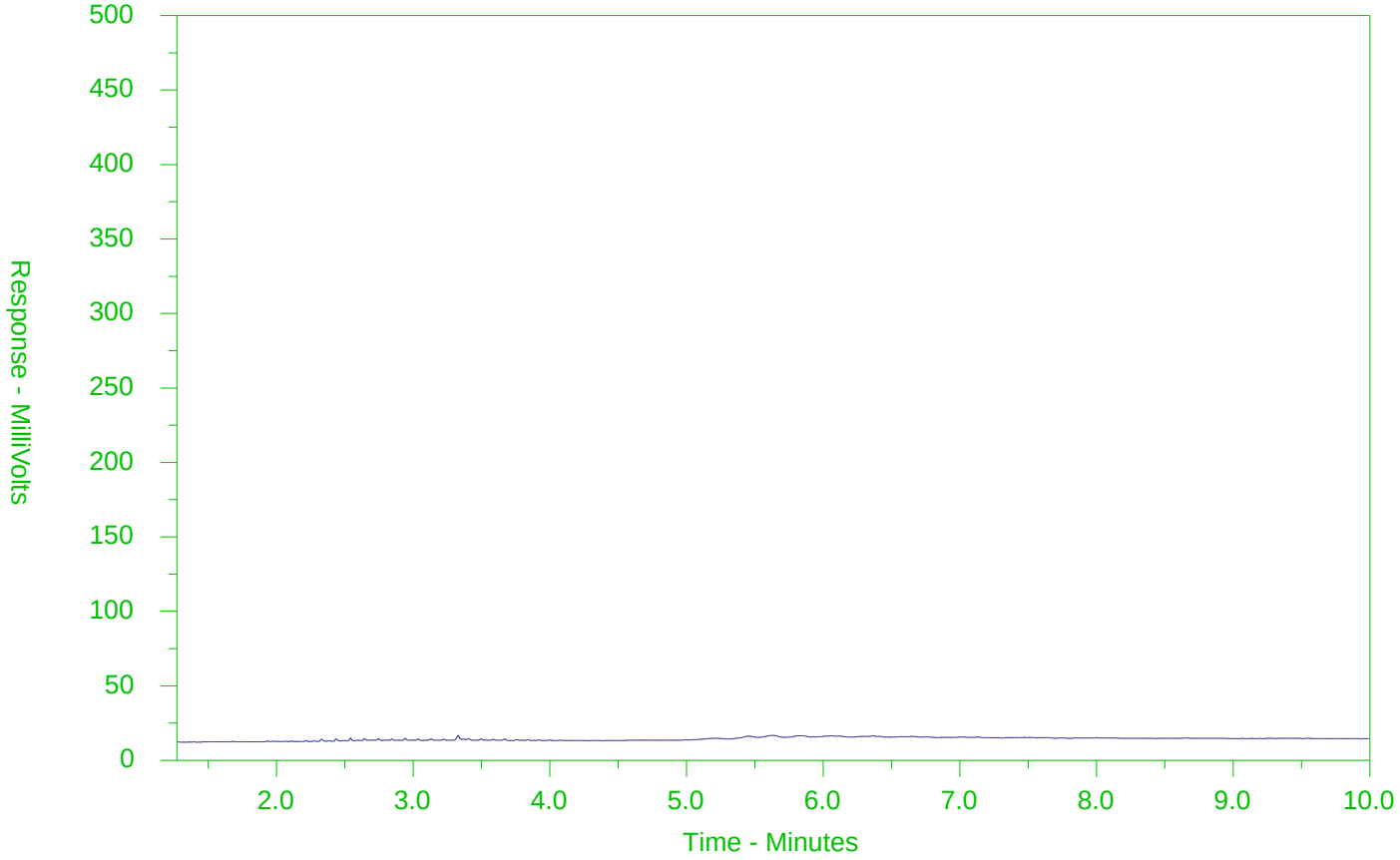
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677105-25
Client Sample ID: BH312-22 SS2



←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.

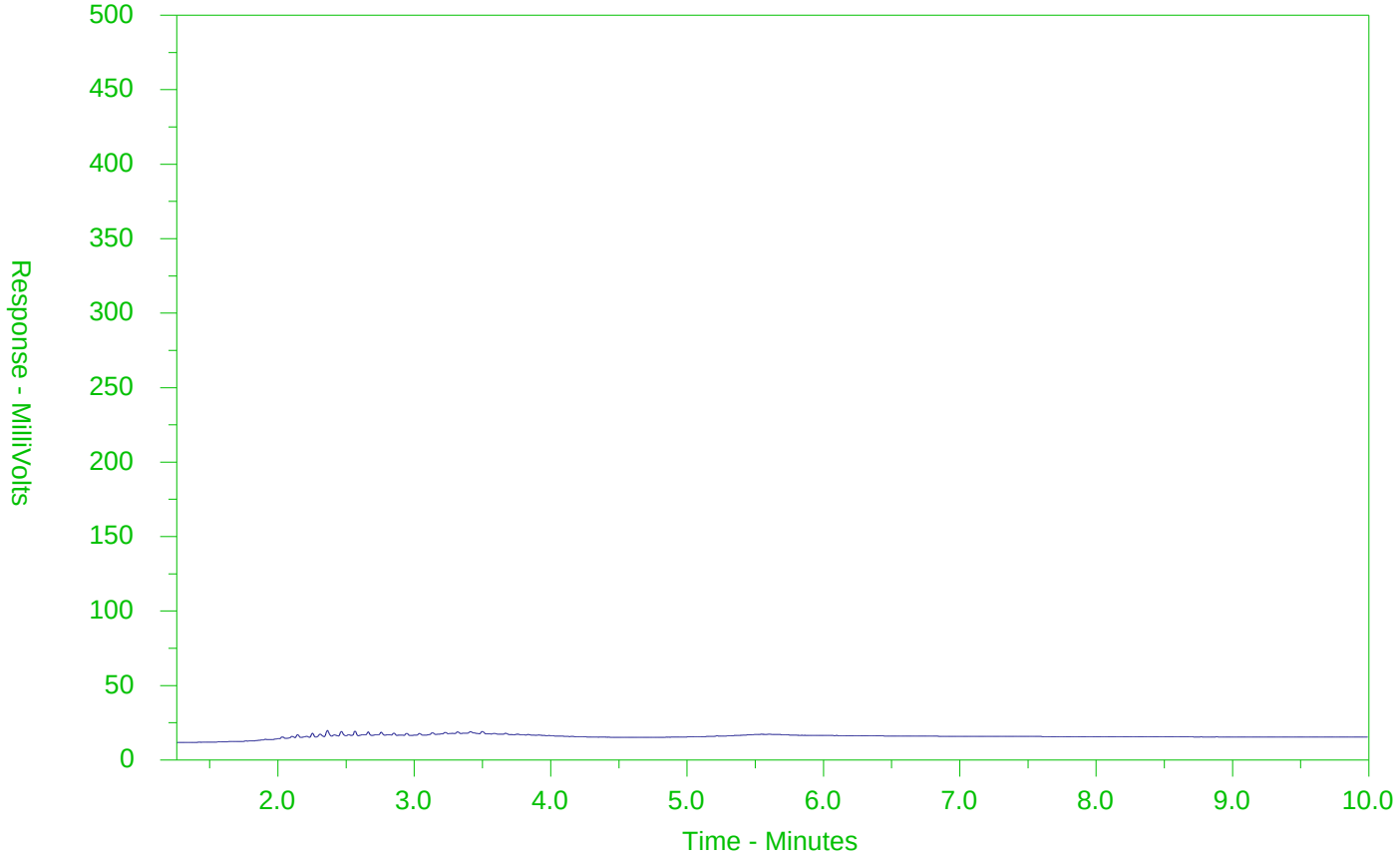
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677105-29
Client Sample ID: BH312-22 SS6



←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.

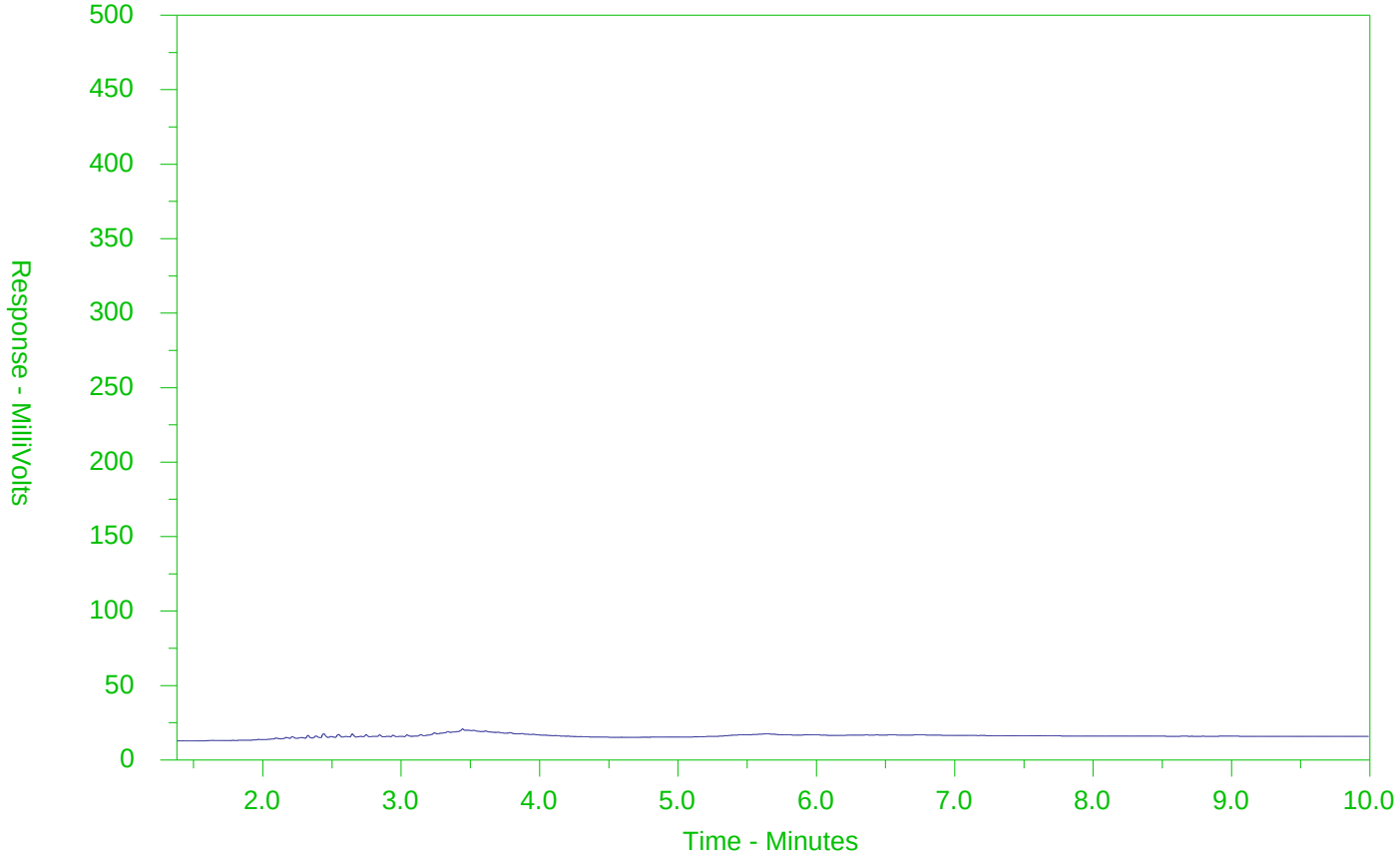
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677105-32
Client Sample ID: BH312-22 SS9



←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

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2677105-COFC

COC Number: 17 -

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants Inc.
Contact:	Jen Lambke / Spencer Buck
Phone:	519-502-3268 / 289-795-7467 (cells)
	Company address below will appear on the final report
Street:	520 Bingeman Centre Drive
City/Province:	Kitchener
Postal Code:	

Report Format /

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 jlambke@mte85.com

Email 2 sbuck@mte85.com

Email 3

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)		EMERGENCY	
4 day [P4-20%]	☐	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: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax accounting@mte85.com

Email 2

Project Information

ALS Account # / Quote #:	Q85986
Job #:	46372-301
PO / AFE:	Elizabeth & George
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): L2677105 JD

ALS Contact: Emily Hansen

Sampler: DMG

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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	B4312-22 SS2	5-Jan-22		Soil	3									x	
	SS3													x	
	SS4													x	
	SS5													x	
	SS6													x	
	SS7													x	
	SS8													x	
	SS9													x	
	AS11													x	
														x	
														x	
														x	

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)

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			
				4.3			

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: SK	Date: 1/6/22	Time: 10:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 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

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

L2677105-COFC

COC Number: 17 -

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants Inc.
Contact:	Jen Lambke / Spencer Buck
Phone:	519-502-3268 / 289-795-7467 (cells)
	Company address below will appear on the final report
Street:	520 Bingeman Centre Drive
City/Province:	Kitchener
Postal Code:	

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: lambke@mte85.com

Email 2: sbuck@mte85.com

Email 3:

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)		EMERGENCY	
4 day [P4-20%]	☐	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: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: accounting@mte85.com

Email 2:

Project Information

ALS Account # / Quote #:	Q85986
Job #:	46372-301
PO / AFE:	Elizabeth & George
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): L2677105JD

ALS Contact: Emily Hansen

Sampler: DMG

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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (See Special Instructions)
	MW314-22	5-Jan22		SOIL	1									x	
	SS1a				3									x	
	SS2													x	
	SS3													x	
	SS4													x	
	SS5													x	
	SS6													x	
	SS7													x	
	BH312-22				1									x	
	BH312-22 SS1a				3									x	
	BH312-22 SS1b													x	
	MW314-22 SS1b													x	

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)

O.Reg. 406 Independent Volume
- Table 1 ESQS;
- Table 3.1 RPI
- Table 3.1 ICC

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			
				4-3			

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: SK	Date: 1/6/22	Time: 10:00

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L2677105-COFC

COC Number: 17 -

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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 jlambke@mte85.com
Email 2 sbuck@mte85.com
Email 3

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: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax accounting@mte85.com
Email 2

Project Information

ALS Account # / Quote #: Q85986
Job #: 46372-301
PO / AFE: Elizabeth & George
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): L2677105 JD
ALS Contact: Emily Hansen
Sampler: DMG

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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	MW 320-22	4-Jan-22		Soil	1									x	
	SS1				3									x	
	SS2													x	
	SS3													x	
	SS4													x	
	SS5													x	
	SS6													x	
	SS7													x	
	SS8													x	
	SS9													x	
	SS10													x	
	AS11				6									x	

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

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O.Reg. 406 Independent Volume
-Table 1 ESQS;
- Table 3.1 RPI
Table 3.1 ICC

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			
				4.3			

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: SK	Date: 1/6/22	Time: 10:00

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MTE CONSULTANTS INC. (Kitchener)
ATTN: JEN LAMBKE
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Date Received: 08-JAN-22
Report Date: 18-JAN-22 08:10 (MT)
Version: FINAL REV. 2

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2677593

Project P.O. #: elizabeth and george
Job Reference: 46372-101
C of C Numbers:
Legal Site Desc:

Comments: ADDITIONAL 10-JAN-22 13:19

Emily Hansen
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-2	BH311 SS2 2.3-4.5'									
Sampled By:	CLIENT on 06-JAN-22 @ 09:15									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	14.5		0.25	%	10-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	13-JAN-22	7.5			
	Arsenic (As)	6.3		1.0	ug/g	13-JAN-22	18			
	Barium (Ba)	101		1.0	ug/g	13-JAN-22	390			
	Beryllium (Be)	0.70		0.50	ug/g	13-JAN-22	4			
	Boron (B)	<5.0		5.0	ug/g	13-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	13-JAN-22	1.2			
	Chromium (Cr)	23.4		1.0	ug/g	13-JAN-22	160			
	Cobalt (Co)	9.9		1.0	ug/g	13-JAN-22	22			
	Copper (Cu)	35.3		1.0	ug/g	13-JAN-22	140			
	Lead (Pb)	28.7		1.0	ug/g	13-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	13-JAN-22	6.9			
	Nickel (Ni)	24.2		1.0	ug/g	13-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	13-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	13-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	13-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	13-JAN-22	23			
	Vanadium (V)	33.6		1.0	ug/g	13-JAN-22	86			
	Zinc (Zn)	60.2		5.0	ug/g	13-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	82.8		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	101.8		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	85.1		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	75.8		60-140	%	12-JAN-22				
L2677593-4	BH311 SS4 7.5-9.5'									
Sampled By:	CLIENT on 06-JAN-22 @ 09:45									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	9.25		0.25	%	12-JAN-22				
Metals										

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-4	BH311 SS4 7.5-9.5'									
Sampled By:	CLIENT on 06-JAN-22 @ 09:45									
Matrix:	SOIL						#1			
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	5.6		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	75.6		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	0.55		0.50	ug/g	14-JAN-22	4			
	Boron (B)	9.4		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	18.8		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	12.8		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	34.8		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	8.3		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	24.1		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	27.3		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	50.9		5.0	ug/g	14-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	78.0		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	100.8		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	84.4		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	72.7		60-140	%	12-JAN-22				
L2677593-6	BH311 SS6 13-17'									
Sampled By:	CLIENT on 06-JAN-22 @ 10:15									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	8.14		0.25	%	12-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	3.8		1.0	ug/g	14-JAN-22	18			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-6	BH311 SS6 13-17'									
Sampled By:	CLIENT on 06-JAN-22 @ 10:15									
Matrix:	SOIL						#1			
Metals										
	Barium (Ba)	32.3		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	<0.50		0.50	ug/g	14-JAN-22	4			
	Boron (B)	7.4		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	14.5		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	7.0		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	19.5		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	5.2		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	14.6		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	22.5		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	35.0		5.0	ug/g	14-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	84.5		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	106.5		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	86.1		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	110.6		60-140	%	12-JAN-22				
L2677593-12	MW310 SS1 0-2'									
Sampled By:	CLIENT on 06-JAN-22 @ 11:45									
Matrix:	SOIL						#1			
Physical Tests										
	Conductivity	2.67		0.0040	mS/cm	12-JAN-22	*0.7			
	% Moisture	8.24		0.25	%	12-JAN-22				
	pH	7.92		0.10	pH units	11-JAN-22				
Cyanides										
	Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	14-JAN-22	0.051			
Saturated Paste Extractables										

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

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Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-12	MW310 SS1 0-2'									
Sampled By:	CLIENT on 06-JAN-22 @ 11:45									
Matrix:	SOIL						#1			
Saturated Paste Extractables										
	SAR	38.6		0.10	SAR	12-JAN-22	*5			
	Calcium (Ca)	6.64		0.50	mg/L	12-JAN-22				
	Magnesium (Mg)	1.54		0.50	mg/L	12-JAN-22				
	Sodium (Na)	425		0.50	mg/L	12-JAN-22				
Metals										
	Antimony (Sb)	1.0		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	6.9		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	134		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	0.63		0.50	ug/g	12-JAN-22	4			
	Boron (B)	9.7		5.0	ug/g	12-JAN-22	120			
	Boron (B), Hot Water Ext.	0.31		0.10	ug/g	12-JAN-22	1.5			
	Cadmium (Cd)	0.74		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	15.5		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	6.8		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	34.2		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	319		1.0	ug/g	12-JAN-22	*120			
	Mercury (Hg)	0.206		0.0050	ug/g	12-JAN-22	0.27			
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	15.8		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	26.0		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	533		5.0	ug/g	12-JAN-22	*340			
Volatile Organic Compounds										
	Benzene	0.0154		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	0.023		0.018	ug/g	12-JAN-22	2			
	Toluene	0.135		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	0.131		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	0.173		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	0.304		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	88.2		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	106.0		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	81.8		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	99.1		60-140	%	12-JAN-22				

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-14	MW310 SS3 5-7'									
Sampled By:	CLIENT on 06-JAN-22 @ 12:30									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	11.5		0.25	%	10-JAN-22				
	pH	7.87		0.10	pH units	11-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	5.4		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	75.5		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	0.51		0.50	ug/g	14-JAN-22	4			
	Boron (B)	7.9		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	18.1		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	11.3		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	33.8		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	12.8		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	22.8		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	25.9		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	59.2		5.0	ug/g	14-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	80.9		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	101.3		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	84.2		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	78.3		60-140	%	12-JAN-22				
L2677593-18	MW310 SS7 20-22'									
Sampled By:	CLIENT on 06-JAN-22 @ 14:00									
Matrix:	SOIL						#1			
Physical Tests										
	Conductivity	0.297		0.0040	mS/cm	13-JAN-22	0.7			

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

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Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-18	MW310 SS7 20-22'									
Sampled By:	CLIENT on 06-JAN-22 @ 14:00									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	17.1		0.25	%	10-JAN-22				
Saturated Paste Extractables										
	SAR	0.85		0.10	SAR	13-JAN-22	5			
	Calcium (Ca)	14.2		0.50	mg/L	13-JAN-22				
	Magnesium (Mg)	15.5		0.50	mg/L	13-JAN-22				
	Sodium (Na)	19.4		0.50	mg/L	13-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	13-JAN-22	7.5			
	Arsenic (As)	6.3		1.0	ug/g	13-JAN-22	18			
	Barium (Ba)	121		1.0	ug/g	13-JAN-22	390			
	Beryllium (Be)	0.97		0.50	ug/g	13-JAN-22	4			
	Boron (B)	15.1		5.0	ug/g	13-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	13-JAN-22	1.2			
	Chromium (Cr)	33.8		1.0	ug/g	13-JAN-22	160			
	Cobalt (Co)	15.5		1.0	ug/g	13-JAN-22	22			
	Copper (Cu)	32.2		1.0	ug/g	13-JAN-22	140			
	Lead (Pb)	11.8		1.0	ug/g	13-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	13-JAN-22	6.9			
	Nickel (Ni)	36.7		1.0	ug/g	13-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	13-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	13-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	13-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	13-JAN-22	23			
	Vanadium (V)	44.8		1.0	ug/g	13-JAN-22	86			
	Zinc (Zn)	68.1		5.0	ug/g	13-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	81.4		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	97.5		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	16		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	77		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	93		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	83.7		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	64.8		60-140	%	12-JAN-22				

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-20	MW310 SS9 30-32'									
Sampled By:	CLIENT on 06-JAN-22 @ 14:45									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	15.1		0.25	%	10-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	3.3		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	15.2		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	<0.50		0.50	ug/g	14-JAN-22	4			
	Boron (B)	<5.0		5.0	ug/g	14-JAN-22	120			
	Boron (B), Hot Water Ext.	0.91		0.10	ug/g	14-JAN-22	1.5			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	8.8		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	4.0		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	17.3		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	3.4		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	8.0		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	16.5		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	23.5		5.0	ug/g	14-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	90.0		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	102.9		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	88.2		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	63.6		60-140	%	12-JAN-22				
L2677593-22	BH305 SS1 0-2'									
Sampled By:	CLIENT on 07-JAN-22 @ 09:30									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	8.68		0.25	%	10-JAN-22				

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

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Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-22	BH305 SS1 0-2'									
Sampled By:	CLIENT on 07-JAN-22 @ 09:30									
Matrix:	SOIL						#1			
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	3.1		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	50.5		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	<0.50		0.50	ug/g	14-JAN-22	4			
	Boron (B)	6.5		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	36.0		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	6.1		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	18.4		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	16.9		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	9.5		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	31.4		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	63.3		5.0	ug/g	14-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	95.6		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	105.0		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	13-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	13-JAN-22	55			
	F2 (C10-C16)	<20	DLM	20	ug/g	12-JAN-22	98			
	F2-Naphth	<20		20	ug/g	13-JAN-22				
	F3 (C16-C34)	320		100	ug/g	12-JAN-22	*300			
	F3-PAH	320		100	ug/g	13-JAN-22				
	F4 (C34-C50)	1120		100	ug/g	12-JAN-22	2800			
	F4G-SG (GHH-Silica)	5430		250	ug/g	14-JAN-22	*2800			
	Total Hydrocarbons (C6-C50)	1430		140	ug/g	13-JAN-22				
	Chrom. to baseline at nC50	NO			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	87.7		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	76.0		60-140	%	13-JAN-22				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	12-JAN-22	7.9			
	Acenaphthylene	<0.050		0.050	ug/g	12-JAN-22	0.15			
	Anthracene	0.051		0.050	ug/g	12-JAN-22	0.67			
	Benzo(a)anthracene	0.179		0.050	ug/g	12-JAN-22	0.5			
	Benzo(a)pyrene	0.193		0.050	ug/g	12-JAN-22	0.3			

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-22	BH305 SS1 0-2'									
Sampled By:	CLIENT on 07-JAN-22 @ 09:30									
Matrix:	SOIL						#1			
Polycyclic Aromatic Hydrocarbons										
	Benzo(b&j)fluoranthene	0.232		0.050	ug/g	12-JAN-22	0.78			
	Benzo(g,h,i)perylene	0.295		0.050	ug/g	12-JAN-22	6.6			
	Benzo(k)fluoranthene	0.100		0.050	ug/g	12-JAN-22	0.78			
	Chrysene	0.161		0.050	ug/g	12-JAN-22	7			
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	12-JAN-22	0.1			
	Fluoranthene	0.335		0.050	ug/g	12-JAN-22	0.69			
	Fluorene	<0.050		0.050	ug/g	12-JAN-22	62			
	Indeno(1,2,3-cd)pyrene	0.154		0.050	ug/g	12-JAN-22	0.38			
	1+2-Methylnaphthalenes	<0.085		0.085	ug/g	12-JAN-22	0.99			
	1-Methylnaphthalene	<0.060	DLM	0.060	ug/g	12-JAN-22	0.99			
	2-Methylnaphthalene	<0.060	DLM	0.060	ug/g	12-JAN-22	0.99			
	Naphthalene	<0.065	DLM	0.065	ug/g	12-JAN-22	0.6			
	Phenanthrene	0.169		0.046	ug/g	12-JAN-22	6.2			
	Pyrene	0.287		0.050	ug/g	12-JAN-22	78			
	Surrogate: 2-Fluorobiphenyl	87.3		50-140	%	12-JAN-22				
	Surrogate: d14-Terphenyl	86.3		50-140	%	12-JAN-22				
L2677593-23	BH305 SS101 0-2'									
Sampled By:	CLIENT on 07-JAN-22 @ 09:30									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	10.2		0.25	%	10-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	3.8		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	49.4		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	<0.50		0.50	ug/g	14-JAN-22	4			
	Boron (B)	6.7		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	26.4		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	4.7		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	17.9		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	15.8		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	9.2		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	26.9		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	64.8		5.0	ug/g	14-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-23	BH305 SS101 0-2'									
Sampled By:	CLIENT on 07-JAN-22 @ 09:30									
Matrix:	SOIL						#1			
Volatile Organic Compounds										
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	94.1		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	99.2		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<20	DLM	20	ug/g	12-JAN-22	98			
	F2-Naphth	<20		20	ug/g	12-JAN-22				
	F3 (C16-C34)	350		100	ug/g	12-JAN-22	*300			
	F3-PAH	350		100	ug/g	12-JAN-22				
	F4 (C34-C50)	1220		100	ug/g	12-JAN-22	2800			
	F4G-SG (GHH-Silica)	5170		250	ug/g	14-JAN-22	*2800			
	Total Hydrocarbons (C6-C50)	1570		140	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	NO			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	88.0		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	94.1		60-140	%	12-JAN-22				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	12-JAN-22	7.9			
	Acenaphthylene	<0.050		0.050	ug/g	12-JAN-22	0.15			
	Anthracene	<0.050		0.050	ug/g	12-JAN-22	0.67			
	Benzo(a)anthracene	0.137		0.050	ug/g	12-JAN-22	0.5			
	Benzo(a)pyrene	0.132		0.050	ug/g	12-JAN-22	0.3			
	Benzo(b&j)fluoranthene	0.140		0.050	ug/g	12-JAN-22	0.78			
	Benzo(g,h,i)perylene	0.275		0.050	ug/g	12-JAN-22	6.6			
	Benzo(k)fluoranthene	0.079		0.050	ug/g	12-JAN-22	0.78			
	Chrysene	0.098		0.050	ug/g	12-JAN-22	7			
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	12-JAN-22	0.1			
	Fluoranthene	0.194		0.050	ug/g	12-JAN-22	0.69			
	Fluorene	<0.050		0.050	ug/g	12-JAN-22	62			
	Indeno(1,2,3-cd)pyrene	0.104		0.050	ug/g	12-JAN-22	0.38			
	1+2-Methylnaphthalenes	<0.085		0.085	ug/g	12-JAN-22	0.99			
	1-Methylnaphthalene	<0.060	DLM	0.060	ug/g	12-JAN-22	0.99			
	2-Methylnaphthalene	<0.060	DLM	0.060	ug/g	12-JAN-22	0.99			
	Naphthalene	<0.065	DLM	0.065	ug/g	12-JAN-22	0.6			
	Phenanthrene	0.090		0.046	ug/g	12-JAN-22	6.2			
	Pyrene	0.156		0.050	ug/g	12-JAN-22	78			
	Surrogate: 2-Fluorobiphenyl	86.4		50-140	%	12-JAN-22				
	Surrogate: d14-Terphenyl	81.3		50-140	%	12-JAN-22				
L2677593-24	BH305 SS2 2.5-4.5'									
Sampled By:	CLIENT on 07-JAN-22 @ 10:00									
Matrix:	SOIL						#1			
Physical Tests										
	Conductivity	0.674		0.0040	mS/cm	14-JAN-22	0.7			

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-24	BH305 SS2 2.5-4.5'									
Sampled By:	CLIENT on 07-JAN-22 @ 10:00									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	9.96		0.25	%	10-JAN-22				
Saturated Paste Extractables										
	SAR	>34.	SAR:L	0.10	SAR	14-JAN-22	*5			
	Calcium (Ca)	<0.50		0.50	mg/L	14-JAN-22				
	Magnesium (Mg)	<0.50		0.50	mg/L	14-JAN-22				
	Sodium (Na)	142		0.50	mg/L	14-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	5.7		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	63.0		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	0.58		0.50	ug/g	14-JAN-22	4			
	Boron (B)	8.9		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	19.9		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	13.0		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	36.8		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	8.6		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	24.4		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	28.8		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	51.5		5.0	ug/g	14-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	87.8		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	97.3		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F2-Naphth	<10		10	ug/g	12-JAN-22				
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F3-PAH	<50		50	ug/g	12-JAN-22				
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	85.0		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	80.2		60-140	%	12-JAN-22				

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-24	BH305 SS2 2.5-4.5'									
Sampled By:	CLIENT on 07-JAN-22 @ 10:00									
Matrix:	SOIL						#1			
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	12-JAN-22	7.9			
	Acenaphthylene	<0.050		0.050	ug/g	12-JAN-22	0.15			
	Anthracene	<0.050		0.050	ug/g	12-JAN-22	0.67			
	Benzo(a)anthracene	<0.050		0.050	ug/g	12-JAN-22	0.5			
	Benzo(a)pyrene	<0.050		0.050	ug/g	12-JAN-22	0.3			
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	12-JAN-22	0.78			
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	12-JAN-22	6.6			
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	12-JAN-22	0.78			
	Chrysene	<0.050		0.050	ug/g	12-JAN-22	7			
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	12-JAN-22	0.1			
	Fluoranthene	<0.050		0.050	ug/g	12-JAN-22	0.69			
	Fluorene	<0.050		0.050	ug/g	12-JAN-22	62			
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	12-JAN-22	0.38			
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	12-JAN-22	0.99			
	1-Methylnaphthalene	<0.030		0.030	ug/g	12-JAN-22	0.99			
	2-Methylnaphthalene	<0.030		0.030	ug/g	12-JAN-22	0.99			
	Naphthalene	<0.013		0.013	ug/g	12-JAN-22	0.6			
	Phenanthrene	<0.046		0.046	ug/g	12-JAN-22	6.2			
	Pyrene	<0.050		0.050	ug/g	12-JAN-22	78			
	Surrogate: 2-Fluorobiphenyl	91.8		50-140	%	12-JAN-22				
	Surrogate: d14-Terphenyl	88.8		50-140	%	12-JAN-22				
L2677593-26	BH305 SS4 7.5-9.5'									
Sampled By:	CLIENT on 07-JAN-22 @ 10:40									
Matrix:	SOIL						#1			
Physical Tests										
	Conductivity	0.183		0.0040	mS/cm	14-JAN-22	0.7			
	% Moisture	8.76		0.25	%	10-JAN-22				
Saturated Paste Extractables										
	SAR	12.6	SAR:M	0.10	SAR	14-JAN-22	*5			
	Calcium (Ca)	0.84		0.50	mg/L	14-JAN-22				
	Magnesium (Mg)	<0.50		0.50	mg/L	14-JAN-22				
	Sodium (Na)	42.2		0.50	mg/L	14-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	11.6		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	65.3		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	0.51		0.50	ug/g	14-JAN-22	4			
	Boron (B)	9.0		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	18.9		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	14.0		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	38.9		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	8.5		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	23.0		1.0	ug/g	14-JAN-22				

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-26	BH305 SS4 7.5-9.5'									
Sampled By:	CLIENT on 07-JAN-22 @ 10:40									
Matrix:	SOIL						#1			
Metals										
							100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	3.1		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	27.4		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	47.6		5.0	ug/g	14-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	99.0		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	107.8		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	87.6		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	94.0		60-140	%	12-JAN-22				
L2677593-28	BH305 SS6 15-17'									
Sampled By:	CLIENT on 07-JAN-22 @ 11:15									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	17.5		0.25	%	10-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	4.9		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	109		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	0.79		0.50	ug/g	14-JAN-22	4			
	Boron (B)	13.3		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	29.0		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	14.6		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	26.4		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	10.1		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	31.0		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-28	BH305 SS6 15-17'									
Sampled By:	CLIENT on 07-JAN-22 @ 11:15									
Matrix:	SOIL						#1			
Metals										
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	37.7		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	62.3		5.0	ug/g	14-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	90.6		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	96.6		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	16		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	83		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	99		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	83.8		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	60.4		60-140	%	12-JAN-22				
L2677593-32	BH304 SS1 0-2'									
Sampled By:	CLIENT on 07-JAN-00 @ 12:20									
Matrix:	SOIL						#1			
Physical Tests										
	Conductivity	0.762		0.0040	mS/cm	12-JAN-22	*0.7			
	% Moisture	10.4		0.25	%	10-JAN-22				
Cyanides										
	Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	14-JAN-22	0.051			
Saturated Paste Extractables										
	SAR	6.08		0.10	SAR	12-JAN-22	*5			
	Calcium (Ca)	16.3		0.50	mg/L	12-JAN-22				
	Magnesium (Mg)	4.11		0.50	mg/L	12-JAN-22				
	Sodium (Na)	106		0.50	mg/L	12-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	5.2		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	49.4		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	<0.50		0.50	ug/g	12-JAN-22	4			
	Boron (B)	10.3		5.0	ug/g	12-JAN-22	120			
	Boron (B), Hot Water Ext.	0.34		0.10	ug/g	12-JAN-22	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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-32	BH304 SS1 0-2'									
Sampled By:	CLIENT on 07-JAN-00 @ 12:20									
Matrix:	SOIL						#1			
Metals										
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	15.8		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	6.9		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	25.0		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	26.1		1.0	ug/g	12-JAN-22	120			
	Mercury (Hg)	0.0161		0.0050	ug/g	12-JAN-22	0.27			
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	15.1		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	21.6		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	98.9		5.0	ug/g	12-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	93.3		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	108.1		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	13-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	13-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	13-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	85.3		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	95.9		60-140	%	13-JAN-22				
L2677593-33	BH304 SS101 0-2'									
Sampled By:	CLIENT on 07-JAN-22 @ 12:40									
Matrix:	SOIL						#1			
Physical Tests										
	Conductivity	0.755		0.0040	mS/cm	12-JAN-22	*0.7			
	% Moisture	9.19		0.25	%	12-JAN-22				
Cyanides										
	Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	14-JAN-22	0.051			
Saturated Paste Extractables										
	SAR	4.79		0.10	SAR	12-JAN-22	5			
	Calcium (Ca)	22.4		0.50	mg/L	12-JAN-22				

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-33	BH304 SS101 0-2'									
Sampled By:	CLIENT on 07-JAN-22 @ 12:40									
Matrix:	SOIL						#1			
Saturated Paste Extractables										
	Magnesium (Mg)	5.28		0.50	mg/L	12-JAN-22				
	Sodium (Na)	97.1		0.50	mg/L	12-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	12-JAN-22	7.5			
	Arsenic (As)	5.5		1.0	ug/g	12-JAN-22	18			
	Barium (Ba)	47.0		1.0	ug/g	12-JAN-22	390			
	Beryllium (Be)	<0.50		0.50	ug/g	12-JAN-22	4			
	Boron (B)	9.0		5.0	ug/g	12-JAN-22	120			
	Boron (B), Hot Water Ext.	0.32		0.10	ug/g	12-JAN-22	1.5			
	Cadmium (Cd)	<0.50		0.50	ug/g	12-JAN-22	1.2			
	Chromium (Cr)	16.0		1.0	ug/g	12-JAN-22	160			
	Cobalt (Co)	7.6		1.0	ug/g	12-JAN-22	22			
	Copper (Cu)	28.2		1.0	ug/g	12-JAN-22	140			
	Lead (Pb)	21.4		1.0	ug/g	12-JAN-22	120			
	Mercury (Hg)	0.0160		0.0050	ug/g	12-JAN-22	0.27			
	Molybdenum (Mo)	<1.0		1.0	ug/g	12-JAN-22	6.9			
	Nickel (Ni)	16.9		1.0	ug/g	12-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	12-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	12-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	12-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	12-JAN-22	23			
	Vanadium (V)	22.5		1.0	ug/g	12-JAN-22	86			
	Zinc (Zn)	80.4		5.0	ug/g	12-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	13-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	13-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	13-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	13-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	13-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	13-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	95.5		50-140	%	13-JAN-22				
	Surrogate: 1,4-Difluorobenzene	98.1		50-140	%	13-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	13-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	13-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	13-JAN-22	98			
	F3 (C16-C34)	101		50	ug/g	13-JAN-22	300			
	F4 (C34-C50)	241		50	ug/g	13-JAN-22	2800			
	F4G-SG (GHH-Silica)	1460		250	ug/g	13-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	342		72	ug/g	13-JAN-22				
	Chrom. to baseline at nC50	NO			No Unit	13-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	83.5		60-140	%	13-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	83.1		60-140	%	13-JAN-22				

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-35	BH304 SS3 5-7'									
Sampled By:	CLIENT on 07-JAN-22 @ 13:20									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	11.3		0.25	%	10-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	4.6		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	54.3		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	0.51		0.50	ug/g	14-JAN-22	4			
	Boron (B)	8.3		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	17.4		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	10.1		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	31.7		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	7.2		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	19.9		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	26.0		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	46.1		5.0	ug/g	14-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	92.3		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	99.5		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	13-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	13-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	13-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	13-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	13-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	13-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	89.2		60-140	%	13-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	72.1		60-140	%	12-JAN-22				
L2677593-37	BH304 SS5 10-12'									
Sampled By:	CLIENT on 07-JAN-22 @ 14:00									
Matrix:	SOIL						#1			
Physical Tests										
	Conductivity	0.197		0.0040	mS/cm	14-JAN-22	0.7			
	% Moisture	7.97		0.25	%	11-JAN-22				

** 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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-37	BH304 SS5 10-12'									
Sampled By:	CLIENT on 07-JAN-22 @ 14:00									
Matrix:	SOIL						#1			
Saturated Paste Extractables										
	SAR	0.33		0.10	SAR	14-JAN-22	5			
	Calcium (Ca)	16.1		0.50	mg/L	14-JAN-22				
	Magnesium (Mg)	8.08		0.50	mg/L	14-JAN-22				
	Sodium (Na)	6.42		0.50	mg/L	14-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	3.7		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	34.6		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	<0.50		0.50	ug/g	14-JAN-22	4			
	Boron (B)	6.9		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	15.1		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	7.4		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	23.5		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	5.4		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	15.4		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	22.8		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	39.4		5.0	ug/g	14-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	92.5		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	100.2		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	86.3		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	82.2		60-140	%	12-JAN-22				
L2677593-42	MW309 SS1 0-2'									
Sampled By:	CLIENT on 07-JAN-22 @ 15:10									
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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-42	MW309 SS1 0-2'									
Sampled By:	CLIENT on 07-JAN-22 @ 15:10									
Matrix:	SOIL						#1			
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	6.2		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	77.2		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	<0.50		0.50	ug/g	14-JAN-22	4			
	Boron (B)	7.5		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	24.0		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	8.5		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	32.7		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	50.2		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	18.3		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	30.7		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	77.4		5.0	ug/g	14-JAN-22	340			
L2677593-43	MW309 SS101 0-2'									
Sampled By:	CLIENT on 07-JAN-22 @ 15:20									
Matrix:	SOIL						#1			
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	6.0		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	65.5		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	0.52		0.50	ug/g	14-JAN-22	4			
	Boron (B)	7.1		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	20.7		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	8.6		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	32.7		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	47.6		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	18.7		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	27.8		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	80.6		5.0	ug/g	14-JAN-22	340			
L2677593-44	MW309 SS2 2.5-4.5'									
Sampled By:	CLIENT on 07-JAN-22 @ 15:30									
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:

T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-44	MW309 SS2 2.5-4.5'									
Sampled By:	CLIENT on 07-JAN-22 @ 15:30									
Matrix:	SOIL						#1			
Physical Tests										
	Conductivity	0.181		0.0040	mS/cm	14-JAN-22	0.7			
	% Moisture	16.7		0.25	%	11-JAN-22				
Saturated Paste Extractables										
	SAR	0.42		0.10	SAR	14-JAN-22	5			
	Calcium (Ca)	29.6		0.50	mg/L	14-JAN-22				
	Magnesium (Mg)	3.39		0.50	mg/L	14-JAN-22				
	Sodium (Na)	9.04		0.50	mg/L	14-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	11.0		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	98.8		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	0.68		0.50	ug/g	14-JAN-22	4			
	Boron (B)	7.5		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	20.8		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	9.5		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	35.0		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	59.8		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	20.7		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	1.4		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	31.5		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	89.7		5.0	ug/g	14-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	12-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	88.3		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	93.9		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	12-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F3 (C16-C34)	101		50	ug/g	12-JAN-22	300			
	F4 (C34-C50)	239		50	ug/g	12-JAN-22	2800			
	F4G-SG (GHH-Silica)	1400		250	ug/g	14-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	340		72	ug/g	12-JAN-22				
	Chrom. to baseline at nC50	NO			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	81.1		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	60.8		60-140	%	12-JAN-22				

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-45	MW309 SS3 5-7'									
Sampled By:	CLIENT on 07-JAN-22 @ 15:40									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	13.9		0.25	%	11-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	5.0		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	80.7		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	0.59		0.50	ug/g	14-JAN-22	4			
	Boron (B)	7.5		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	22.5		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	10.4		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	31.5		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	16.0		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	22.6		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	31.0		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	56.5		5.0	ug/g	14-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	13-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	13-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	13-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	13-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	13-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	13-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	119.2		50-140	%	13-JAN-22				
	Surrogate: 1,4-Difluorobenzene	118.6		50-140	%	13-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	13-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	13-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F2-Naphth	<10		10	ug/g	13-JAN-22				
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F3-PAH	<50		50	ug/g	13-JAN-22				
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	13-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	82.3		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	105.4		60-140	%	13-JAN-22				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	12-JAN-22	7.9			
	Acenaphthylene	<0.050		0.050	ug/g	12-JAN-22	0.15			
	Anthracene	<0.050		0.050	ug/g	12-JAN-22	0.67			
	Benzo(a)anthracene	<0.050		0.050	ug/g	12-JAN-22	0.5			

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-45	MW309 SS3 5-7'									
Sampled By:	CLIENT on 07-JAN-22 @ 15:40									
Matrix:	SOIL						#1			
Polycyclic Aromatic Hydrocarbons										
	Benzo(a)pyrene	<0.050		0.050	ug/g	12-JAN-22	0.3			
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	12-JAN-22	0.78			
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	12-JAN-22	6.6			
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	12-JAN-22	0.78			
	Chrysene	<0.050		0.050	ug/g	12-JAN-22	7			
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	12-JAN-22	0.1			
	Fluoranthene	<0.050		0.050	ug/g	12-JAN-22	0.69			
	Fluorene	<0.050		0.050	ug/g	12-JAN-22	62			
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	12-JAN-22	0.38			
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	12-JAN-22	0.99			
	1-Methylnaphthalene	<0.030		0.030	ug/g	12-JAN-22	0.99			
	2-Methylnaphthalene	<0.030		0.030	ug/g	12-JAN-22	0.99			
	Naphthalene	<0.013		0.013	ug/g	12-JAN-22	0.6			
	Phenanthrene	<0.046		0.046	ug/g	12-JAN-22	6.2			
	Pyrene	<0.050		0.050	ug/g	12-JAN-22	78			
	Surrogate: 2-Fluorobiphenyl	95.0		50-140	%	12-JAN-22				
	Surrogate: d14-Terphenyl	93.6		50-140	%	12-JAN-22				
Polychlorinated Biphenyls										
	Aroclor 1242	<0.010		0.010	ug/g	13-JAN-22				
	Aroclor 1248	<0.010		0.010	ug/g	13-JAN-22				
	Aroclor 1254	<0.010		0.010	ug/g	13-JAN-22				
	Aroclor 1260	<0.010		0.010	ug/g	13-JAN-22				
	Total PCBs	<0.020		0.020	ug/g	13-JAN-22	0.35			
	Surrogate: d14-Terphenyl	106.6		60-140	%	13-JAN-22				
L2677593-47	MW309 SS5 10-12'									
Sampled By:	CLIENT on 07-JAN-22 @ 16:00									
Matrix:	SOIL						#1			
Physical Tests										
	% Moisture	14.6		0.25	%	11-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	14-JAN-22	7.5			
	Arsenic (As)	6.6		1.0	ug/g	14-JAN-22	18			
	Barium (Ba)	110		1.0	ug/g	14-JAN-22	390			
	Beryllium (Be)	0.72		0.50	ug/g	14-JAN-22	4			
	Boron (B)	7.0		5.0	ug/g	14-JAN-22	120			
	Cadmium (Cd)	<0.50		0.50	ug/g	14-JAN-22	1.2			
	Chromium (Cr)	22.0		1.0	ug/g	14-JAN-22	160			
	Cobalt (Co)	11.1		1.0	ug/g	14-JAN-22	22			
	Copper (Cu)	35.9		1.0	ug/g	14-JAN-22	140			
	Lead (Pb)	9.2		1.0	ug/g	14-JAN-22	120			
	Molybdenum (Mo)	<1.0		1.0	ug/g	14-JAN-22	6.9			
	Nickel (Ni)	26.3		1.0	ug/g	14-JAN-22	100			
	Selenium (Se)	<1.0		1.0	ug/g	14-JAN-22	2.4			
	Silver (Ag)	<0.20		0.20	ug/g	14-JAN-22	20			
	Thallium (Tl)	<0.50		0.50	ug/g	14-JAN-22	1			

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-47	MW309 SS5 10-12'									
Sampled By:	CLIENT on 07-JAN-22 @ 16:00									
Matrix:	SOIL						#1			
Metals										
	Uranium (U)	<1.0		1.0	ug/g	14-JAN-22	23			
	Vanadium (V)	32.4		1.0	ug/g	14-JAN-22	86			
	Zinc (Zn)	57.5		5.0	ug/g	14-JAN-22	340			
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	12-JAN-22	0.21			
	Ethylbenzene	<0.018		0.018	ug/g	12-JAN-22	2			
	Toluene	<0.080		0.080	ug/g	12-JAN-22	2.3			
	o-Xylene	<0.020		0.020	ug/g	12-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	12-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	13-JAN-22	3.1			
	Surrogate: 4-Bromofluorobenzene	103.2		50-140	%	12-JAN-22				
	Surrogate: 1,4-Difluorobenzene	105.8		50-140	%	12-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	12-JAN-22	55			
	F1-BTEX	<5.0		5.0	ug/g	13-JAN-22	55			
	F2 (C10-C16)	<10		10	ug/g	12-JAN-22	98			
	F2-Naphth	<10		10	ug/g	13-JAN-22				
	F3 (C16-C34)	<50		50	ug/g	12-JAN-22	300			
	F3-PAH	<50		50	ug/g	13-JAN-22				
	F4 (C34-C50)	<50		50	ug/g	12-JAN-22	2800			
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	13-JAN-22				
	Chrom. to baseline at nC50	YES			ppm	12-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	84.9		60-140	%	12-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	50.5	SURR-ND	60-140	%	12-JAN-22				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	12-JAN-22	7.9			
	Acenaphthylene	<0.050		0.050	ug/g	12-JAN-22	0.15			
	Anthracene	<0.050		0.050	ug/g	12-JAN-22	0.67			
	Benzo(a)anthracene	<0.050		0.050	ug/g	12-JAN-22	0.5			
	Benzo(a)pyrene	<0.050		0.050	ug/g	12-JAN-22	0.3			
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	12-JAN-22	0.78			
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	12-JAN-22	6.6			
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	12-JAN-22	0.78			
	Chrysene	<0.050		0.050	ug/g	12-JAN-22	7			
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	12-JAN-22	0.1			
	Fluoranthene	<0.050		0.050	ug/g	12-JAN-22	0.69			
	Fluorene	<0.050		0.050	ug/g	12-JAN-22	62			
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	12-JAN-22	0.38			
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	12-JAN-22	0.99			
	1-Methylnaphthalene	<0.030		0.030	ug/g	12-JAN-22	0.99			
	2-Methylnaphthalene	<0.030		0.030	ug/g	12-JAN-22	0.99			
	Naphthalene	<0.013		0.013	ug/g	12-JAN-22	0.6			
	Phenanthrene	<0.046		0.046	ug/g	12-JAN-22	6.2			
	Pyrene	<0.050		0.050	ug/g	12-JAN-22	78			
	Surrogate: 2-Fluorobiphenyl	95.1		50-140	%	12-JAN-22				

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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

ANALYTICAL GUIDELINE REPORT

46372-101

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2677593-47	MW309 SS5 10-12'									
Sampled By:	CLIENT on 07-JAN-22 @ 16:00									
Matrix:	SOIL						#1			
Polycyclic Aromatic Hydrocarbons										
	Surrogate: d14-Terphenyl	92.7		50-140	%	12-JAN-22				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
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T3-Soil-Res/Park/Inst. Property Use (Coarse)

#1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
SURR-ND	Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be unaffected.
SAR:M	Reported SAR represents a maximum value. Actual SAR may be lower if both Ca and Mg were detectable.
SAR:L	SAR is incalculable due to Ca and Mg below DL (with Na above DL). Lowest possible SAR is reported as minimum value.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).

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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

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.

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 and as of November 30, 2020), 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 and as of November 30, 2020), 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 and as of November 30, 2020), 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 200.2/6020B (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 and as of November 30, 2020), 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

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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

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 and as of November 30, 2020), 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: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT	**Soil**							
Batch R5693440								
WG3684000-4 DUP		**L2676350-4**						
Boron (B), Hot Water Ext.		0.17	0.16		ug/g	7.0	30	12-JAN-22
WG3684000-2 IRM		**WT SAR4**						
Boron (B), Hot Water Ext.			109.6		%		70-130	12-JAN-22
WG3684000-3 LCS								
Boron (B), Hot Water Ext.			106.0		%		70-130	12-JAN-22
WG3684000-1 MB								
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	12-JAN-22
Batch R5695938								
WG3684987-4 DUP		**L2678620-4**						
Boron (B), Hot Water Ext.		0.67	0.62		ug/g	8.4	30	14-JAN-22
WG3684987-2 IRM		**WT SAR4**						
Boron (B), Hot Water Ext.			121.5		%		70-130	14-JAN-22
WG3684987-3 LCS								
Boron (B), Hot Water Ext.			105.0		%		70-130	14-JAN-22
WG3684987-1 MB								
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	14-JAN-22
BTX-511-HS-WT	**Soil**							
Batch R5692399								
WG3683940-4 DUP		**WG3683940-3**						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	12-JAN-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	12-JAN-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	12-JAN-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	12-JAN-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	12-JAN-22
WG3683940-2 LCS								
Benzene			115.1		%		70-130	12-JAN-22
Ethylbenzene			111.7		%		70-130	12-JAN-22
m+p-Xylenes			109.2		%		70-130	12-JAN-22
o-Xylene			112.7		%		70-130	12-JAN-22
Toluene			118.7		%		70-130	12-JAN-22
WG3683940-1 MB								
Benzene			<0.0068		ug/g		0.0068	12-JAN-22
Ethylbenzene			<0.018		ug/g		0.018	12-JAN-22
m+p-Xylenes			<0.030		ug/g		0.03	12-JAN-22
o-Xylene			<0.020		ug/g		0.02	12-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Soil**							
Batch R5692399								
WG3683940-1 MB								
Toluene			<0.080		ug/g		0.08	12-JAN-22
Surrogate: 1,4-Difluorobenzene			108.1		%		50-140	12-JAN-22
Surrogate: 4-Bromofluorobenzene			88.0		%		50-140	12-JAN-22
WG3683940-5 MS		**WG3683940-3**						
Benzene			123.6		%		60-140	12-JAN-22
Ethylbenzene			111.5		%		60-140	12-JAN-22
m+p-Xylenes			106.5		%		60-140	12-JAN-22
o-Xylene			109.8		%		60-140	12-JAN-22
Toluene			119.8		%		60-140	12-JAN-22
Batch R5692780								
WG3683953-4 DUP		**WG3683953-3**						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	12-JAN-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	12-JAN-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	12-JAN-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	12-JAN-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	12-JAN-22
WG3683953-2 LCS								
Benzene			105.5		%		70-130	12-JAN-22
Ethylbenzene			89.2		%		70-130	12-JAN-22
m+p-Xylenes			90.6		%		70-130	12-JAN-22
o-Xylene			89.1		%		70-130	12-JAN-22
Toluene			96.4		%		70-130	12-JAN-22
WG3683953-1 MB								
Benzene			<0.0068		ug/g		0.0068	12-JAN-22
Ethylbenzene			<0.018		ug/g		0.018	12-JAN-22
m+p-Xylenes			<0.030		ug/g		0.03	12-JAN-22
o-Xylene			<0.020		ug/g		0.02	12-JAN-22
Toluene			<0.080		ug/g		0.08	12-JAN-22
Surrogate: 1,4-Difluorobenzene			116.8		%		50-140	12-JAN-22
Surrogate: 4-Bromofluorobenzene			104.6		%		50-140	12-JAN-22
WG3683953-5 MS		**WG3683953-3**						
Benzene			106.7		%		60-140	12-JAN-22
Ethylbenzene			85.3		%		60-140	12-JAN-22
m+p-Xylenes			87.7		%		60-140	12-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Soil**							
Batch R5692780								
WG3683953-5 MS		**WG3683953-3**						
o-Xylene			84.7		%		60-140	12-JAN-22
Toluene			94.8		%		60-140	12-JAN-22
Batch R5693759								
WG3684408-4 DUP		**WG3684408-3**						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	13-JAN-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	13-JAN-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	13-JAN-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	13-JAN-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	13-JAN-22
WG3684408-2 LCS								
Benzene			92.0		%		70-130	13-JAN-22
Ethylbenzene			95.7		%		70-130	13-JAN-22
m+p-Xylenes			93.9		%		70-130	13-JAN-22
o-Xylene			92.9		%		70-130	13-JAN-22
Toluene			94.2		%		70-130	13-JAN-22
WG3684408-1 MB								
Benzene			<0.0068		ug/g		0.0068	13-JAN-22
Ethylbenzene			<0.018		ug/g		0.018	13-JAN-22
m+p-Xylenes			<0.030		ug/g		0.03	13-JAN-22
o-Xylene			<0.020		ug/g		0.02	13-JAN-22
Toluene			<0.080		ug/g		0.08	13-JAN-22
Surrogate: 1,4-Difluorobenzene			123.0		%		50-140	13-JAN-22
Surrogate: 4-Bromofluorobenzene			121.6		%		50-140	13-JAN-22
WG3684408-5 MS		**WG3684408-3**						
Benzene			105.9		%		60-140	13-JAN-22
Ethylbenzene			108.6		%		60-140	13-JAN-22
m+p-Xylenes			105.6		%		60-140	13-JAN-22
o-Xylene			104.1		%		60-140	13-JAN-22
Toluene			109.1		%		60-140	13-JAN-22
CN-WAD-R511-WT	**Soil**							
Batch R5695759								
WG3683970-3 DUP		**L2677947-5**						
Cyanide, Weak Acid Diss		<0.050	<0.050	RPD-NA	ug/g	N/A	35	14-JAN-22
WG3683970-2 LCS								

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-WAD-R511-WT	**Soil**							
Batch R5695759								
WG3683970-2 LCS								
Cyanide, Weak Acid Diss			97.0		%		80-120	14-JAN-22
WG3683970-1 MB								
Cyanide, Weak Acid Diss			<0.050		ug/g		0.05	14-JAN-22
WG3683970-4 MS		**L2677947-5**						
Cyanide, Weak Acid Diss			100.7		%		70-130	14-JAN-22
EC-WT	**Soil**							
Batch R5693316								
WG3684020-4 DUP		**WG3684020-3**						
Conductivity		0.339	0.318		mS/cm	6.4	20	12-JAN-22
WG3684020-2 IRM		**WT SAR4**						
Conductivity			121.2		%		70-130	12-JAN-22
WG3684396-1 LCS								
Conductivity			107.7		%		90-110	12-JAN-22
WG3684020-1 MB								
Conductivity			<0.0040		mS/cm		0.004	12-JAN-22
Batch R5694501								
WG3684485-4 DUP		**WG3684485-3**						
Conductivity		1.07	1.02		mS/cm	4.0	20	13-JAN-22
WG3684485-2 IRM		**WT SAR4**						
Conductivity			104.6		%		70-130	13-JAN-22
WG3684705-1 LCS								
Conductivity			96.2		%		90-110	13-JAN-22
WG3684485-1 MB								
Conductivity			<0.0040		mS/cm		0.004	13-JAN-22
Batch R5696156								
WG3684988-4 DUP		**WG3684988-3**						
Conductivity		0.636	0.635		mS/cm	0.2	20	14-JAN-22
WG3684988-2 IRM		**WT SAR4**						
Conductivity			105.6		%		70-130	14-JAN-22
WG3685255-1 LCS								
Conductivity			94.6		%		90-110	14-JAN-22
WG3684988-1 MB								
Conductivity			<0.0040		mS/cm		0.004	14-JAN-22
Batch R5696648								
WG3685339-4 DUP		**WG3685339-3**						
Conductivity		4.30	4.34		mS/cm	0.9	20	14-JAN-22
WG3685339-2 IRM		**WT SAR4**						

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-WT	**Soil**							
Batch R5696648								
WG3685339-2 IRM		**WT SAR4**						
Conductivity			106.2		%		70-130	14-JAN-22
WG3685378-1 LCS								
Conductivity			91.6		%		90-110	14-JAN-22
WG3685339-1 MB								
Conductivity			<0.0040		mS/cm		0.004	14-JAN-22
F1-HS-511-WT	**Soil**							
Batch R5692399								
WG3683940-4 DUP		**WG3683940-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	12-JAN-22
WG3683940-2 LCS								
F1 (C6-C10)			111.6		%		80-120	12-JAN-22
WG3683940-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	12-JAN-22
Surrogate: 3,4-Dichlorotoluene			98.3		%		60-140	12-JAN-22
WG3683940-5 MS		**WG3683940-3**						
F1 (C6-C10)			84.3		%		60-140	12-JAN-22
Batch R5692780								
WG3683953-4 DUP		**WG3683953-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	13-JAN-22
WG3683953-2 LCS								
F1 (C6-C10)			82.9		%		80-120	12-JAN-22
WG3683953-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	12-JAN-22
Surrogate: 3,4-Dichlorotoluene			83.4		%		60-140	12-JAN-22
WG3683953-5 MS		**WG3683953-3**						
F1 (C6-C10)			86.6		%		60-140	13-JAN-22
Batch R5693759								
WG3684408-4 DUP		**WG3684408-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	13-JAN-22
WG3684408-2 LCS								
F1 (C6-C10)			100.6		%		80-120	13-JAN-22
WG3684408-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	13-JAN-22
Surrogate: 3,4-Dichlorotoluene			102.2		%		60-140	13-JAN-22
WG3684408-5 MS		**WG3684408-3**						
F1 (C6-C10)			97.5		%		60-140	13-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	**Soil**							
Batch R5692605								
WG3683546-3 DUP		**WG3683546-5**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	12-JAN-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	12-JAN-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	12-JAN-22
WG3683546-2 LCS								
F2 (C10-C16)			91.3		%		80-120	12-JAN-22
F3 (C16-C34)			89.4		%		80-120	12-JAN-22
F4 (C34-C50)			87.4		%		80-120	12-JAN-22
WG3683546-1 MB								
F2 (C10-C16)			<10		ug/g		10	12-JAN-22
F3 (C16-C34)			<50		ug/g		50	12-JAN-22
F4 (C34-C50)			<50		ug/g		50	12-JAN-22
Surrogate: 2-Bromobenzotrifluoride			88.6		%		60-140	12-JAN-22
WG3683546-4 MS		**WG3683546-5**						
F2 (C10-C16)			94.2		%		60-140	12-JAN-22
F3 (C16-C34)			89.7		%		60-140	12-JAN-22
F4 (C34-C50)			90.0		%		60-140	12-JAN-22
Batch R5693976								
WG3684009-3 DUP		**WG3684009-5**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	13-JAN-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	13-JAN-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	13-JAN-22
WG3684009-2 LCS								
F2 (C10-C16)			88.5		%		80-120	13-JAN-22
F3 (C16-C34)			83.9		%		80-120	13-JAN-22
F4 (C34-C50)			82.4		%		80-120	13-JAN-22
WG3684009-1 MB								
F2 (C10-C16)			<10		ug/g		10	13-JAN-22
F3 (C16-C34)			<50		ug/g		50	13-JAN-22
F4 (C34-C50)			<50		ug/g		50	13-JAN-22
Surrogate: 2-Bromobenzotrifluoride			85.6		%		60-140	13-JAN-22
WG3684009-4 MS		**WG3684009-5**						
F2 (C10-C16)			90.0		%		60-140	13-JAN-22
F3 (C16-C34)			86.5		%		60-140	13-JAN-22
F4 (C34-C50)			79.9		%		60-140	13-JAN-22
F4G-ADD-511-WT	**Soil**							

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F4G-ADD-511-WT	**Soil**							
Batch R5694797								
WG3684920-2 LCS								
F4G-SG (GHH-Silica)			80.2		%		60-140	13-JAN-22
WG3684920-1 MB								
F4G-SG (GHH-Silica)			<250		ug/g		250	13-JAN-22
Batch R5695376								
WG3685098-2 LCS								
F4G-SG (GHH-Silica)			81.8		%		60-140	14-JAN-22
WG3685098-1 MB								
F4G-SG (GHH-Silica)			<250		ug/g		250	14-JAN-22
HG-200.2-CVAA-WT	**Soil**							
Batch R5692587								
WG3684019-2 CRM		**WT-SS-2**						
Mercury (Hg)			99.6		%		70-130	12-JAN-22
WG3684019-6 DUP		**WG3684019-5**						
Mercury (Hg)		0.0201	0.0222		ug/g	9.8	40	12-JAN-22
WG3684019-3 LCS								
Mercury (Hg)			107.0		%		80-120	12-JAN-22
WG3684019-1 MB								
Mercury (Hg)			<0.0050		mg/kg		0.005	12-JAN-22
MET-200.2-CCMS-WT	**Soil**							
Batch R5692603								
WG3684019-2 CRM		**WT-SS-2**						
Antimony (Sb)			98.0		%		70-130	12-JAN-22
Arsenic (As)			107.2		%		70-130	12-JAN-22
Barium (Ba)			110.1		%		70-130	12-JAN-22
Beryllium (Be)			103.0		%		70-130	12-JAN-22
Boron (B)			9.0		mg/kg		3.5-13.5	12-JAN-22
Cadmium (Cd)			122.5		%		70-130	12-JAN-22
Chromium (Cr)			101.7		%		70-130	12-JAN-22
Cobalt (Co)			104.0		%		70-130	12-JAN-22
Copper (Cu)			113.0		%		70-130	12-JAN-22
Lead (Pb)			104.2		%		70-130	12-JAN-22
Molybdenum (Mo)			102.5		%		70-130	12-JAN-22
Nickel (Ni)			108.4		%		70-130	12-JAN-22
Selenium (Se)			0.13		mg/kg		0-0.34	12-JAN-22
Silver (Ag)			92.6		%		70-130	12-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5692603								
WG3684019-2 CRM		**WT-SS-2**						
Thallium (Tl)			0.069		mg/kg		0.029-0.129	12-JAN-22
Uranium (U)			102.1		%		70-130	12-JAN-22
Vanadium (V)			103.7		%		70-130	12-JAN-22
Zinc (Zn)			106.4		%		70-130	12-JAN-22
WG3684019-6 DUP		**WG3684019-5**						
Antimony (Sb)		0.10	<0.10	RPD-NA	ug/g	N/A	30	12-JAN-22
Arsenic (As)		6.30	6.15		ug/g	2.4	30	12-JAN-22
Barium (Ba)		48.5	45.7		ug/g	6.0	40	12-JAN-22
Beryllium (Be)		0.36	0.39		ug/g	7.8	30	12-JAN-22
Boron (B)		7.9	8.1		ug/g	2.3	30	12-JAN-22
Cadmium (Cd)		0.187	0.177		ug/g	5.3	30	12-JAN-22
Chromium (Cr)		15.8	15.8		ug/g	0.0	30	12-JAN-22
Cobalt (Co)		5.05	4.90		ug/g	3.1	30	12-JAN-22
Copper (Cu)		12.9	12.6		ug/g	2.7	30	12-JAN-22
Lead (Pb)		14.7	15.4		ug/g	4.3	40	12-JAN-22
Molybdenum (Mo)		0.31	0.31		ug/g	0.0	40	12-JAN-22
Nickel (Ni)		10.5	10.2		ug/g	3.3	30	12-JAN-22
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	12-JAN-22
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	12-JAN-22
Thallium (Tl)		0.076	0.076		ug/g	0.2	30	12-JAN-22
Uranium (U)		0.600	0.635		ug/g	5.7	30	12-JAN-22
Vanadium (V)		26.7	26.5		ug/g	0.4	30	12-JAN-22
Zinc (Zn)		60.5	59.3		ug/g	2.0	30	12-JAN-22
WG3684019-4 LCS								
Antimony (Sb)			108.6		%		80-120	12-JAN-22
Arsenic (As)			114.8		%		80-120	12-JAN-22
Barium (Ba)			112.8		%		80-120	12-JAN-22
Beryllium (Be)			104.7		%		80-120	12-JAN-22
Boron (B)			102.0		%		80-120	12-JAN-22
Cadmium (Cd)			103.6		%		80-120	12-JAN-22
Chromium (Cr)			112.2		%		80-120	12-JAN-22
Cobalt (Co)			109.2		%		80-120	12-JAN-22
Copper (Cu)			110.0		%		80-120	12-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5692603								
WG3684019-4 LCS								
Lead (Pb)			105.7		%		80-120	12-JAN-22
Molybdenum (Mo)			101.7		%		80-120	12-JAN-22
Nickel (Ni)			110.4		%		80-120	12-JAN-22
Selenium (Se)			111.1		%		80-120	12-JAN-22
Silver (Ag)			88.0		%		80-120	12-JAN-22
Thallium (Tl)			105.4		%		80-120	12-JAN-22
Uranium (U)			104.0		%		80-120	12-JAN-22
Vanadium (V)			112.4		%		80-120	12-JAN-22
Zinc (Zn)			109.6		%		80-120	12-JAN-22
WG3684019-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	12-JAN-22
Arsenic (As)			<0.10		mg/kg		0.1	12-JAN-22
Barium (Ba)			<0.50		mg/kg		0.5	12-JAN-22
Beryllium (Be)			<0.10		mg/kg		0.1	12-JAN-22
Boron (B)			<5.0		mg/kg		5	12-JAN-22
Cadmium (Cd)			<0.020		mg/kg		0.02	12-JAN-22
Chromium (Cr)			<0.50		mg/kg		0.5	12-JAN-22
Cobalt (Co)			<0.10		mg/kg		0.1	12-JAN-22
Copper (Cu)			<0.50		mg/kg		0.5	12-JAN-22
Lead (Pb)			<0.50		mg/kg		0.5	12-JAN-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	12-JAN-22
Nickel (Ni)			<0.50		mg/kg		0.5	12-JAN-22
Selenium (Se)			<0.20		mg/kg		0.2	12-JAN-22
Silver (Ag)			<0.10		mg/kg		0.1	12-JAN-22
Thallium (Tl)			<0.050		mg/kg		0.05	12-JAN-22
Uranium (U)			<0.050		mg/kg		0.05	12-JAN-22
Vanadium (V)			<0.20		mg/kg		0.2	12-JAN-22
Zinc (Zn)			<2.0		mg/kg		2	12-JAN-22
Batch R5694348								
WG3684482-2 CRM		**WT-SS-2**						
Antimony (Sb)			113.4		%		70-130	13-JAN-22
Arsenic (As)			122.7		%		70-130	13-JAN-22
Barium (Ba)			120.9		%		70-130	13-JAN-22
Beryllium (Be)			108.1		%		70-130	13-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5694348								
WG3684482-2 CRM		**WT-SS-2**						
Boron (B)			8.9		mg/kg		3.5-13.5	13-JAN-22
Cadmium (Cd)			123.6		%		70-130	13-JAN-22
Chromium (Cr)			118.8		%		70-130	13-JAN-22
Cobalt (Co)			118.5		%		70-130	13-JAN-22
Copper (Cu)			118.9		%		70-130	13-JAN-22
Lead (Pb)			110.8		%		70-130	13-JAN-22
Molybdenum (Mo)			111.9		%		70-130	13-JAN-22
Nickel (Ni)			127.8		%		70-130	13-JAN-22
Selenium (Se)			0.17		mg/kg		0-0.34	13-JAN-22
Thallium (Tl)			0.079		mg/kg		0.029-0.129	13-JAN-22
Uranium (U)			104.8		%		70-130	13-JAN-22
Vanadium (V)			121.4		%		70-130	13-JAN-22
Zinc (Zn)			109.5		%		70-130	13-JAN-22
WG3684482-6 DUP		**WG3684482-5**						
Antimony (Sb)		<0.10	0.18	RPD-NA	ug/g	N/A	30	13-JAN-22
Arsenic (As)		3.37	3.64		ug/g	7.7	30	13-JAN-22
Barium (Ba)		65.6	72.1		ug/g	9.4	40	13-JAN-22
Beryllium (Be)		0.41	0.47		ug/g	14	30	13-JAN-22
Boron (B)		7.3	8.5		ug/g	16	30	13-JAN-22
Cadmium (Cd)		0.059	0.079		ug/g	28	30	13-JAN-22
Chromium (Cr)		18.1	20.8		ug/g	13	30	13-JAN-22
Cobalt (Co)		7.72	8.41		ug/g	8.5	30	13-JAN-22
Copper (Cu)		16.4	18.4		ug/g	12	30	13-JAN-22
Lead (Pb)		6.55	7.33		ug/g	11	40	13-JAN-22
Molybdenum (Mo)		0.34	0.40		ug/g	17	40	13-JAN-22
Nickel (Ni)		17.1	18.7		ug/g	9.1	30	13-JAN-22
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	13-JAN-22
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	13-JAN-22
Thallium (Tl)		0.094	0.112		ug/g	17	30	13-JAN-22
Uranium (U)		0.657	0.685		ug/g	4.2	30	13-JAN-22
Vanadium (V)		26.5	30.9		ug/g	15	30	13-JAN-22
Zinc (Zn)		33.2	39.3		ug/g	17	30	13-JAN-22
WG3684482-4 LCS								

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5694348								
WG3684482-4 LCS								
Antimony (Sb)			111.5		%		80-120	13-JAN-22
Arsenic (As)			109.2		%		80-120	13-JAN-22
Barium (Ba)			108.0		%		80-120	13-JAN-22
Beryllium (Be)			94.3		%		80-120	13-JAN-22
Boron (B)			83.8		%		80-120	13-JAN-22
Cadmium (Cd)			100.1		%		80-120	13-JAN-22
Chromium (Cr)			110.6		%		80-120	13-JAN-22
Cobalt (Co)			104.4		%		80-120	13-JAN-22
Copper (Cu)			107.8		%		80-120	13-JAN-22
Lead (Pb)			102.4		%		80-120	13-JAN-22
Molybdenum (Mo)			100.6		%		80-120	13-JAN-22
Nickel (Ni)			107.6		%		80-120	13-JAN-22
Selenium (Se)			105.5		%		80-120	13-JAN-22
Silver (Ag)			81.8		%		80-120	13-JAN-22
Thallium (Tl)			103.5		%		80-120	13-JAN-22
Uranium (U)			97.9		%		80-120	13-JAN-22
Vanadium (V)			112.1		%		80-120	13-JAN-22
Zinc (Zn)			99.0		%		80-120	13-JAN-22
WG3684482-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	13-JAN-22
Arsenic (As)			<0.10		mg/kg		0.1	13-JAN-22
Barium (Ba)			<0.50		mg/kg		0.5	13-JAN-22
Beryllium (Be)			<0.10		mg/kg		0.1	13-JAN-22
Boron (B)			<5.0		mg/kg		5	13-JAN-22
Cadmium (Cd)			<0.020		mg/kg		0.02	13-JAN-22
Chromium (Cr)			<0.50		mg/kg		0.5	13-JAN-22
Cobalt (Co)			<0.10		mg/kg		0.1	13-JAN-22
Copper (Cu)			<0.50		mg/kg		0.5	13-JAN-22
Lead (Pb)			<0.50		mg/kg		0.5	13-JAN-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	13-JAN-22
Nickel (Ni)			<0.50		mg/kg		0.5	13-JAN-22
Selenium (Se)			<0.20		mg/kg		0.2	13-JAN-22
Silver (Ag)			<0.10		mg/kg		0.1	13-JAN-22
Thallium (Tl)			<0.050		mg/kg		0.05	13-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5694348								
WG3684482-1 MB								
Uranium (U)			<0.050		mg/kg		0.05	13-JAN-22
Vanadium (V)			<0.20		mg/kg		0.2	13-JAN-22
Zinc (Zn)			<2.0		mg/kg		2	13-JAN-22
Batch R5695408								
WG3684676-2 CRM		**WT-SS-2**						
Antimony (Sb)			102.2		%		70-130	13-JAN-22
Arsenic (As)			111.5		%		70-130	13-JAN-22
Barium (Ba)			124.5		%		70-130	13-JAN-22
Beryllium (Be)			105.4		%		70-130	13-JAN-22
Boron (B)			8.3		mg/kg		3.5-13.5	13-JAN-22
Cadmium (Cd)			105.6		%		70-130	13-JAN-22
Chromium (Cr)			110.3		%		70-130	13-JAN-22
Cobalt (Co)			105.5		%		70-130	13-JAN-22
Copper (Cu)			115.9		%		70-130	13-JAN-22
Lead (Pb)			111.8		%		70-130	13-JAN-22
Molybdenum (Mo)			107.2		%		70-130	13-JAN-22
Nickel (Ni)			109.5		%		70-130	13-JAN-22
Selenium (Se)			0.13		mg/kg		0-0.34	13-JAN-22
Silver (Ag)			98.2		%		70-130	13-JAN-22
Thallium (Tl)			0.075		mg/kg		0.029-0.129	13-JAN-22
Uranium (U)			104.2		%		70-130	13-JAN-22
Vanadium (V)			108.0		%		70-130	13-JAN-22
Zinc (Zn)			98.0		%		70-130	13-JAN-22
WG3684676-6 DUP		**WG3684676-5**						
Antimony (Sb)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	13-JAN-22
Arsenic (As)		4.18	3.53		ug/g	17	30	13-JAN-22
Barium (Ba)		76.3	63.3		ug/g	19	40	13-JAN-22
Beryllium (Be)		0.33	0.31		ug/g	7.7	30	13-JAN-22
Boron (B)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	13-JAN-22
Cadmium (Cd)		0.102	0.090		ug/g	13	30	13-JAN-22
Chromium (Cr)		27.2	23.0		ug/g	17	30	13-JAN-22
Cobalt (Co)		5.90	5.12		ug/g	14	30	13-JAN-22
Copper (Cu)		12.1	10.5		ug/g	15	30	13-JAN-22
Lead (Pb)		8.10	7.06		ug/g	14	40	13-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5695408								
WG3684676-6 DUP		**WG3684676-5**						
Molybdenum (Mo)		0.44	0.37		ug/g	17	40	13-JAN-22
Nickel (Ni)		14.2	12.3		ug/g	14	30	13-JAN-22
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	13-JAN-22
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	13-JAN-22
Thallium (Tl)		0.101	0.092		ug/g	9.2	30	13-JAN-22
Uranium (U)		0.650	0.555		ug/g	16	30	13-JAN-22
Vanadium (V)		33.7	29.1		ug/g	15	30	13-JAN-22
Zinc (Zn)		41.6	35.2		ug/g	17	30	13-JAN-22
WG3684676-4 LCS								
Antimony (Sb)			108.5		%		80-120	13-JAN-22
Arsenic (As)			114.0		%		80-120	13-JAN-22
Barium (Ba)			113.4		%		80-120	13-JAN-22
Beryllium (Be)			103.1		%		80-120	13-JAN-22
Boron (B)			98.2		%		80-120	13-JAN-22
Cadmium (Cd)			104.5		%		80-120	13-JAN-22
Chromium (Cr)			111.3		%		80-120	13-JAN-22
Cobalt (Co)			108.1		%		80-120	13-JAN-22
Copper (Cu)			108.8		%		80-120	13-JAN-22
Lead (Pb)			113.5		%		80-120	13-JAN-22
Molybdenum (Mo)			104.8		%		80-120	13-JAN-22
Nickel (Ni)			110.1		%		80-120	13-JAN-22
Selenium (Se)			110.4		%		80-120	13-JAN-22
Silver (Ag)			85.0		%		80-120	13-JAN-22
Thallium (Tl)			110.0		%		80-120	13-JAN-22
Uranium (U)			105.4		%		80-120	13-JAN-22
Vanadium (V)			113.6		%		80-120	13-JAN-22
Zinc (Zn)			99.3		%		80-120	13-JAN-22
WG3684676-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	13-JAN-22
Arsenic (As)			<0.10		mg/kg		0.1	13-JAN-22
Barium (Ba)			<0.50		mg/kg		0.5	13-JAN-22
Beryllium (Be)			<0.10		mg/kg		0.1	13-JAN-22
Boron (B)			<5.0		mg/kg		5	13-JAN-22
Cadmium (Cd)			<0.020		mg/kg		0.02	13-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5695408								
WG3684676-1 MB								
Chromium (Cr)			<0.50		mg/kg		0.5	13-JAN-22
Cobalt (Co)			<0.10		mg/kg		0.1	13-JAN-22
Copper (Cu)			<0.50		mg/kg		0.5	13-JAN-22
Lead (Pb)			<0.50		mg/kg		0.5	13-JAN-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	13-JAN-22
Nickel (Ni)			<0.50		mg/kg		0.5	13-JAN-22
Selenium (Se)			<0.20		mg/kg		0.2	13-JAN-22
Silver (Ag)			<0.10		mg/kg		0.1	13-JAN-22
Thallium (Tl)			<0.050		mg/kg		0.05	13-JAN-22
Uranium (U)			<0.050		mg/kg		0.05	13-JAN-22
Vanadium (V)			<0.20		mg/kg		0.2	13-JAN-22
Zinc (Zn)			<2.0		mg/kg		2	13-JAN-22
Batch R5695817								
WG3684984-2 CRM		**WT-SS-2**						
Antimony (Sb)			102.8		%		70-130	14-JAN-22
Arsenic (As)			103.1		%		70-130	14-JAN-22
Barium (Ba)			104.6		%		70-130	14-JAN-22
Beryllium (Be)			109.4		%		70-130	14-JAN-22
Boron (B)			7.2		mg/kg		3.5-13.5	14-JAN-22
Cadmium (Cd)			106.5		%		70-130	14-JAN-22
Chromium (Cr)			99.0		%		70-130	14-JAN-22
Cobalt (Co)			102.8		%		70-130	14-JAN-22
Copper (Cu)			107.7		%		70-130	14-JAN-22
Lead (Pb)			99.8		%		70-130	14-JAN-22
Molybdenum (Mo)			98.5		%		70-130	14-JAN-22
Nickel (Ni)			106.2		%		70-130	14-JAN-22
Selenium (Se)			0.15		mg/kg		0-0.34	14-JAN-22
Silver (Ag)			111.3		%		70-130	14-JAN-22
Thallium (Tl)			0.075		mg/kg		0.029-0.129	14-JAN-22
Uranium (U)			92.1		%		70-130	14-JAN-22
Vanadium (V)			100.1		%		70-130	14-JAN-22
Zinc (Zn)			101.0		%		70-130	14-JAN-22
WG3684984-4 DUP		**L2677593-35**						
Antimony (Sb)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	14-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5695817								
WG3684984-4 DUP		**L2677593-35**						
Arsenic (As)		4.6	4.6		ug/g	0.1	30	14-JAN-22
Barium (Ba)		54.3	56.6		ug/g	4.1	40	14-JAN-22
Beryllium (Be)		0.51	<0.50	RPD-NA	ug/g	N/A	30	14-JAN-22
Boron (B)		8.3	7.5		ug/g	10	30	14-JAN-22
Cadmium (Cd)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	14-JAN-22
Chromium (Cr)		17.4	17.4		ug/g	0.2	30	14-JAN-22
Cobalt (Co)		10.1	10.6		ug/g	5.4	30	14-JAN-22
Copper (Cu)		31.7	32.2		ug/g	1.8	30	14-JAN-22
Lead (Pb)		7.2	7.3		ug/g	2.0	40	14-JAN-22
Molybdenum (Mo)		<1.0	<1.0	RPD-NA	ug/g	N/A	40	14-JAN-22
Nickel (Ni)		19.9	21.0		ug/g	5.4	30	14-JAN-22
Selenium (Se)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	14-JAN-22
Silver (Ag)		<0.20	<0.20	RPD-NA	ug/g	N/A	40	14-JAN-22
Thallium (Tl)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	14-JAN-22
Uranium (U)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	14-JAN-22
Vanadium (V)		26.0	26.2		ug/g	1.0	30	14-JAN-22
Zinc (Zn)		46.1	52.8		ug/g	14	30	14-JAN-22
WG3684984-3 LCS								
Antimony (Sb)			99.6		%		80-120	14-JAN-22
Arsenic (As)			99.4		%		80-120	14-JAN-22
Barium (Ba)			98.6		%		80-120	14-JAN-22
Beryllium (Be)			96.8		%		80-120	14-JAN-22
Boron (B)			89.4		%		80-120	14-JAN-22
Cadmium (Cd)			107.5		%		80-120	14-JAN-22
Chromium (Cr)			100.4		%		80-120	14-JAN-22
Cobalt (Co)			100.6		%		80-120	14-JAN-22
Copper (Cu)			98.9		%		80-120	14-JAN-22
Lead (Pb)			101.3		%		80-120	14-JAN-22
Molybdenum (Mo)			98.2		%		80-120	14-JAN-22
Nickel (Ni)			97.4		%		80-120	14-JAN-22
Selenium (Se)			111.6		%		80-120	14-JAN-22
Silver (Ag)			85.9		%		80-120	14-JAN-22
Thallium (Tl)			107.6		%		80-120	14-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5695817								
WG3684984-3 LCS								
Uranium (U)			98.6		%		80-120	14-JAN-22
Vanadium (V)			102.8		%		80-120	14-JAN-22
Zinc (Zn)			96.9		%		80-120	14-JAN-22
WG3684984-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	14-JAN-22
Arsenic (As)			<0.10		mg/kg		0.1	14-JAN-22
Barium (Ba)			<0.50		mg/kg		0.5	14-JAN-22
Beryllium (Be)			<0.10		mg/kg		0.1	14-JAN-22
Boron (B)			<5.0		mg/kg		5	14-JAN-22
Cadmium (Cd)			<0.020		mg/kg		0.02	14-JAN-22
Chromium (Cr)			<0.50		mg/kg		0.5	14-JAN-22
Cobalt (Co)			<0.10		mg/kg		0.1	14-JAN-22
Copper (Cu)			<0.50		mg/kg		0.5	14-JAN-22
Lead (Pb)			<0.50		mg/kg		0.5	14-JAN-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	14-JAN-22
Nickel (Ni)			<0.50		mg/kg		0.5	14-JAN-22
Selenium (Se)			<0.20		mg/kg		0.2	14-JAN-22
Silver (Ag)			<0.10		mg/kg		0.1	14-JAN-22
Thallium (Tl)			<0.050		mg/kg		0.05	14-JAN-22
Uranium (U)			<0.050		mg/kg		0.05	14-JAN-22
Vanadium (V)			<0.20		mg/kg		0.2	14-JAN-22
Zinc (Zn)			<2.0		mg/kg		2	14-JAN-22
MOISTURE-WT	**Soil**							
Batch R5690897								
WG3683552-3 DUP		**L2677774-7**						
% Moisture		20.8	22.3		%	7.1	20	11-JAN-22
WG3683552-2 LCS								
% Moisture			100.1		%		90-110	10-JAN-22
WG3683552-1 MB								
% Moisture			<0.25		%		0.25	10-JAN-22
Batch R5692222								
WG3683742-3 DUP		**L2677599-3**						
% Moisture		14.8	13.9		%	6.5	20	12-JAN-22
WG3683742-2 LCS								
% Moisture			98.9		%		90-110	12-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT	**Soil**							
Batch R5692222								
WG3683742-1 MB								
% Moisture			<0.25		%		0.25	12-JAN-22
PAH-511-WT	**Soil**							
Batch R5693423								
WG3684011-3 DUP		**WG3684011-5**						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	12-JAN-22
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	12-JAN-22
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	12-JAN-22
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	12-JAN-22
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	12-JAN-22
WG3684011-2 LCS								
1-Methylnaphthalene			94.4		%		50-140	12-JAN-22
2-Methylnaphthalene			94.6		%		50-140	12-JAN-22
Acenaphthene			91.0		%		50-140	12-JAN-22
Acenaphthylene			90.5		%		50-140	12-JAN-22
Anthracene			84.7		%		50-140	12-JAN-22
Benzo(a)anthracene			90.5		%		50-140	12-JAN-22
Benzo(a)pyrene			93.4		%		50-140	12-JAN-22
Benzo(b&j)fluoranthene			93.9		%		50-140	12-JAN-22
Benzo(g,h,i)perylene			87.1		%		50-140	12-JAN-22
Benzo(k)fluoranthene			93.4				50-140	

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5693423								
WG3684011-2 LCS								
Benzo(k)fluoranthene			93.4		%		50-140	12-JAN-22
Chrysene			92.3		%		50-140	12-JAN-22
Dibenz(a,h)anthracene			98.9		%		50-140	12-JAN-22
Fluoranthene			91.4		%		50-140	12-JAN-22
Fluorene			90.6		%		50-140	12-JAN-22
Indeno(1,2,3-cd)pyrene			83.9		%		50-140	12-JAN-22
Naphthalene			91.3		%		50-140	12-JAN-22
Phenanthrene			91.2		%		50-140	12-JAN-22
Pyrene			91.5		%		50-140	12-JAN-22
WG3684011-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	12-JAN-22
2-Methylnaphthalene			<0.030		ug/g		0.03	12-JAN-22
Acenaphthene			<0.050		ug/g		0.05	12-JAN-22
Acenaphthylene			<0.050		ug/g		0.05	12-JAN-22
Anthracene			<0.050		ug/g		0.05	12-JAN-22
Benzo(a)anthracene			<0.050		ug/g		0.05	12-JAN-22
Benzo(a)pyrene			<0.050		ug/g		0.05	12-JAN-22
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	12-JAN-22
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	12-JAN-22
Benzo(k)fluoranthene			<0.050		ug/g		0.05	12-JAN-22
Chrysene			<0.050		ug/g		0.05	12-JAN-22
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	12-JAN-22
Fluoranthene			<0.050		ug/g		0.05	12-JAN-22
Fluorene			<0.050		ug/g		0.05	12-JAN-22
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	12-JAN-22
Naphthalene			<0.013		ug/g		0.013	12-JAN-22
Phenanthrene			<0.046		ug/g		0.046	12-JAN-22
Pyrene			<0.050		ug/g		0.05	12-JAN-22
Surrogate: 2-Fluorobiphenyl			96.6		%		50-140	12-JAN-22
Surrogate: d14-Terphenyl			91.9		%		50-140	12-JAN-22
WG3684011-4 MS		**WG3684011-5**						
1-Methylnaphthalene			95.5		%		50-140	12-JAN-22
2-Methylnaphthalene			95.3		%		50-140	12-JAN-22
Acenaphthene			93.8		%		50-140	12-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5693423								
WG3684011-4 MS		**WG3684011-5**						
Acenaphthylene			93.8		%		50-140	12-JAN-22
Anthracene			87.4		%		50-140	12-JAN-22
Benzo(a)anthracene			96.4		%		50-140	12-JAN-22
Benzo(a)pyrene			96.3		%		50-140	12-JAN-22
Benzo(b&j)fluoranthene			96.7		%		50-140	12-JAN-22
Benzo(g,h,i)perylene			108.9		%		50-140	12-JAN-22
Benzo(k)fluoranthene			91.8		%		50-140	12-JAN-22
Chrysene			91.3		%		50-140	12-JAN-22
Dibenz(a,h)anthracene			125.8		%		50-140	12-JAN-22
Fluoranthene			94.7		%		50-140	12-JAN-22
Fluorene			94.6		%		50-140	12-JAN-22
Indeno(1,2,3-cd)pyrene			108.6		%		50-140	12-JAN-22
Naphthalene			91.2		%		50-140	12-JAN-22
Phenanthrene			91.0		%		50-140	12-JAN-22
Pyrene			94.7		%		50-140	12-JAN-22
PCB-511-WT	**Soil**							
Batch R5693617								
WG3684011-3 DUP		**WG3684011-5**						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	13-JAN-22
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	13-JAN-22
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	13-JAN-22
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	13-JAN-22
WG3684011-2 LCS								
Aroclor 1242			108.0		%		60-140	13-JAN-22
Aroclor 1248			91.2		%		60-140	13-JAN-22
Aroclor 1254			98.5		%		60-140	13-JAN-22
Aroclor 1260			93.7		%		60-140	13-JAN-22
WG3684011-1 MB								
Aroclor 1242			<0.010		ug/g		0.01	13-JAN-22
Aroclor 1248			<0.010		ug/g		0.01	13-JAN-22
Aroclor 1254			<0.010		ug/g		0.01	13-JAN-22
Aroclor 1260			<0.010		ug/g		0.01	13-JAN-22
Surrogate: d14-Terphenyl			92.8		%		60-140	13-JAN-22
WG3684011-4 MS		**WG3684011-5**						

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-511-WT	**Soil**							
Batch R5693617								
WG3684011-4 MS		**WG3684011-5**						
Aroclor 1242			107.6		%		60-140	13-JAN-22
Aroclor 1254			100.0		%		60-140	13-JAN-22
Aroclor 1260			96.3		%		60-140	13-JAN-22
PH-WT	**Soil**							
Batch R5691700								
WG3683562-2 DUP		**L2677105-29**						
pH		8.15	8.20	J	pH units	0.05	0.3	11-JAN-22
WG3683737-1 LCS								
pH			7.00		pH units		6.9-7.1	11-JAN-22
SAR-R511-WT	**Soil**							
Batch R5693176								
WG3684020-4 DUP		**WG3684020-3**						
Calcium (Ca)		29.7	28.5		mg/L	4.1	30	12-JAN-22
Sodium (Na)		35.3	33.6		mg/L	4.9	30	12-JAN-22
Magnesium (Mg)		3.29	3.17		mg/L	3.7	30	12-JAN-22
WG3684020-2 IRM		**WT SAR4**						
Calcium (Ca)			97.9		%		70-130	12-JAN-22
Sodium (Na)			96.4		%		70-130	12-JAN-22
Magnesium (Mg)			100.9		%		70-130	12-JAN-22
WG3684020-5 LCS								
Calcium (Ca)			102.0		%		80-120	12-JAN-22
Sodium (Na)			101.4		%		80-120	12-JAN-22
Magnesium (Mg)			99.4		%		80-120	12-JAN-22
WG3684020-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	12-JAN-22
Sodium (Na)			<0.50		mg/L		0.5	12-JAN-22
Magnesium (Mg)			<0.50		mg/L		0.5	12-JAN-22
Batch R5694701								
WG3684485-4 DUP		**WG3684485-3**						
Calcium (Ca)		176	167		mg/L	5.2	30	13-JAN-22
Sodium (Na)		7.68	7.53		mg/L	2.0	30	13-JAN-22
Magnesium (Mg)		40.8	39.2		mg/L	4.0	30	13-JAN-22
WG3684485-2 IRM		**WT SAR4**						
Calcium (Ca)			98.4		%		70-130	13-JAN-22
Sodium (Na)			93.7		%		70-130	13-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAR-R511-WT	**Soil**							
Batch R5694701								
WG3684485-2 IRM		**WT SAR4**						
Magnesium (Mg)			100.0		%		70-130	13-JAN-22
WG3684485-5 LCS								
Calcium (Ca)			102.3		%		80-120	13-JAN-22
Sodium (Na)			102.4		%		80-120	13-JAN-22
Magnesium (Mg)			100.2		%		80-120	13-JAN-22
WG3684485-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	13-JAN-22
Sodium (Na)			<0.50		mg/L		0.5	13-JAN-22
Magnesium (Mg)			<0.50		mg/L		0.5	13-JAN-22
Batch R5695918								
WG3684988-4 DUP		**WG3684988-3**						
Calcium (Ca)		13.7	13.7		mg/L	0.0	30	14-JAN-22
Sodium (Na)		106	108		mg/L	1.9	30	14-JAN-22
Magnesium (Mg)		2.29	2.29		mg/L	0.0	30	14-JAN-22
WG3684988-2 IRM		**WT SAR4**						
Calcium (Ca)			104.0		%		70-130	14-JAN-22
Sodium (Na)			92.3		%		70-130	14-JAN-22
Magnesium (Mg)			104.3		%		70-130	14-JAN-22
WG3684988-5 LCS								
Calcium (Ca)			100.7		%		80-120	14-JAN-22
Sodium (Na)			98.8		%		80-120	14-JAN-22
Magnesium (Mg)			98.4		%		80-120	14-JAN-22
WG3684988-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	14-JAN-22
Sodium (Na)			<0.50		mg/L		0.5	14-JAN-22
Magnesium (Mg)			<0.50		mg/L		0.5	14-JAN-22
Batch R5696649								
WG3685339-4 DUP		**WG3685339-3**						
Calcium (Ca)		133	139		mg/L	4.4	30	14-JAN-22
Sodium (Na)		716	730		mg/L	1.9	30	14-JAN-22
Magnesium (Mg)		19.1	19.6		mg/L	2.6	30	14-JAN-22
WG3685339-2 IRM		**WT SAR4**						
Calcium (Ca)			114.5		%		70-130	14-JAN-22
Sodium (Na)			97.0		%		70-130	14-JAN-22
Magnesium (Mg)			112.8		%		70-130	14-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAR-R511-WT	**Soil**							
Batch R5696649								
WG3685339-5 LCS								
Calcium (Ca)			102.7		%		80-120	14-JAN-22
Sodium (Na)			102.0		%		80-120	14-JAN-22
Magnesium (Mg)			99.8		%		80-120	14-JAN-22
WG3685339-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	14-JAN-22
Sodium (Na)			<0.50		mg/L		0.5	14-JAN-22
Magnesium (Mg)			<0.50		mg/L		0.5	14-JAN-22

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

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.

Quality Control Report

Workorder: L2677593 Report Date: 18-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Conductivity (EC)							
	32	07-JAN-00 12:20	11-JAN-22 23:00	30	8040	days	EHTR
Cyanides							
Cyanide (WAD)-O.Reg 153/04 (July 2011)							
	32	07-JAN-00 12:20	11-JAN-22 19:00	14	8040	days	EHTR
Saturated Paste Extractables							
SAR-O.Reg 153/04 (July 2011)							
	32	07-JAN-00 12:20	11-JAN-22 23:00	180	8040	days	EHTR
Metals							
Metals in Soil by CRC ICPMS							
	32	07-JAN-00 12:20	11-JAN-22 23:00	180	8040	days	EHTR
Volatile Organic Compounds							
BTEX-O.Reg 153/04 (July 2011)							
	32	07-JAN-00 12:20	01-NOV-22 18:26	14	8334	days	EHTR
Hydrocarbons							
F1-O.Reg 153/04 (July 2011)							
	32	07-JAN-00 12:20	13-JAN-22 09:05	40	8042	days	EHTR
F2-F4-O.Reg 153/04 (July 2011)							
	32	07-JAN-00 12:20	11-JAN-22 02:00	14	8040	days	EHTR

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 L2677593 were received on 08-JAN-22 09:00.

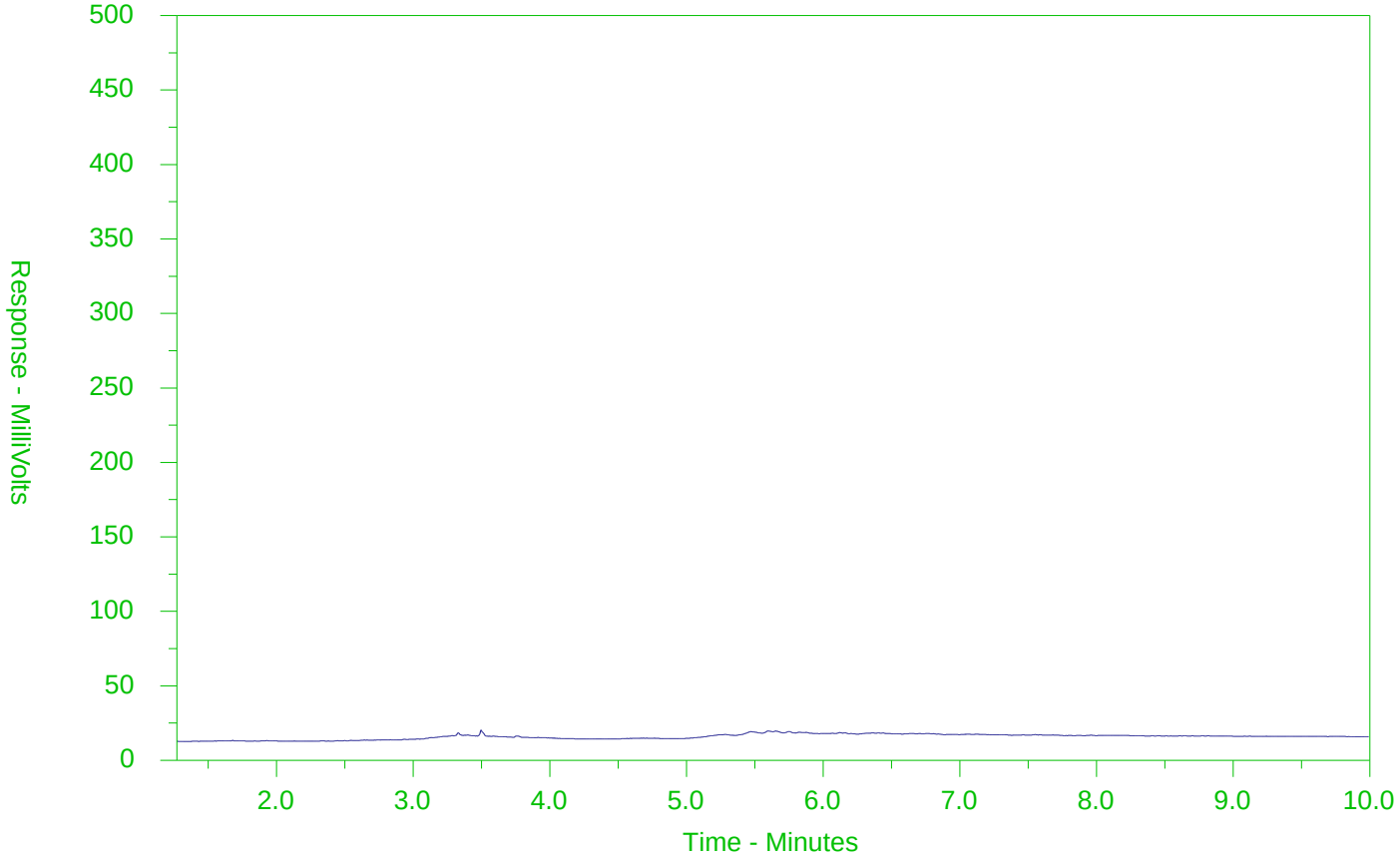
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where 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: L2677593-2
Client Sample ID: BH311 SS2 2.3-4.5'



←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.

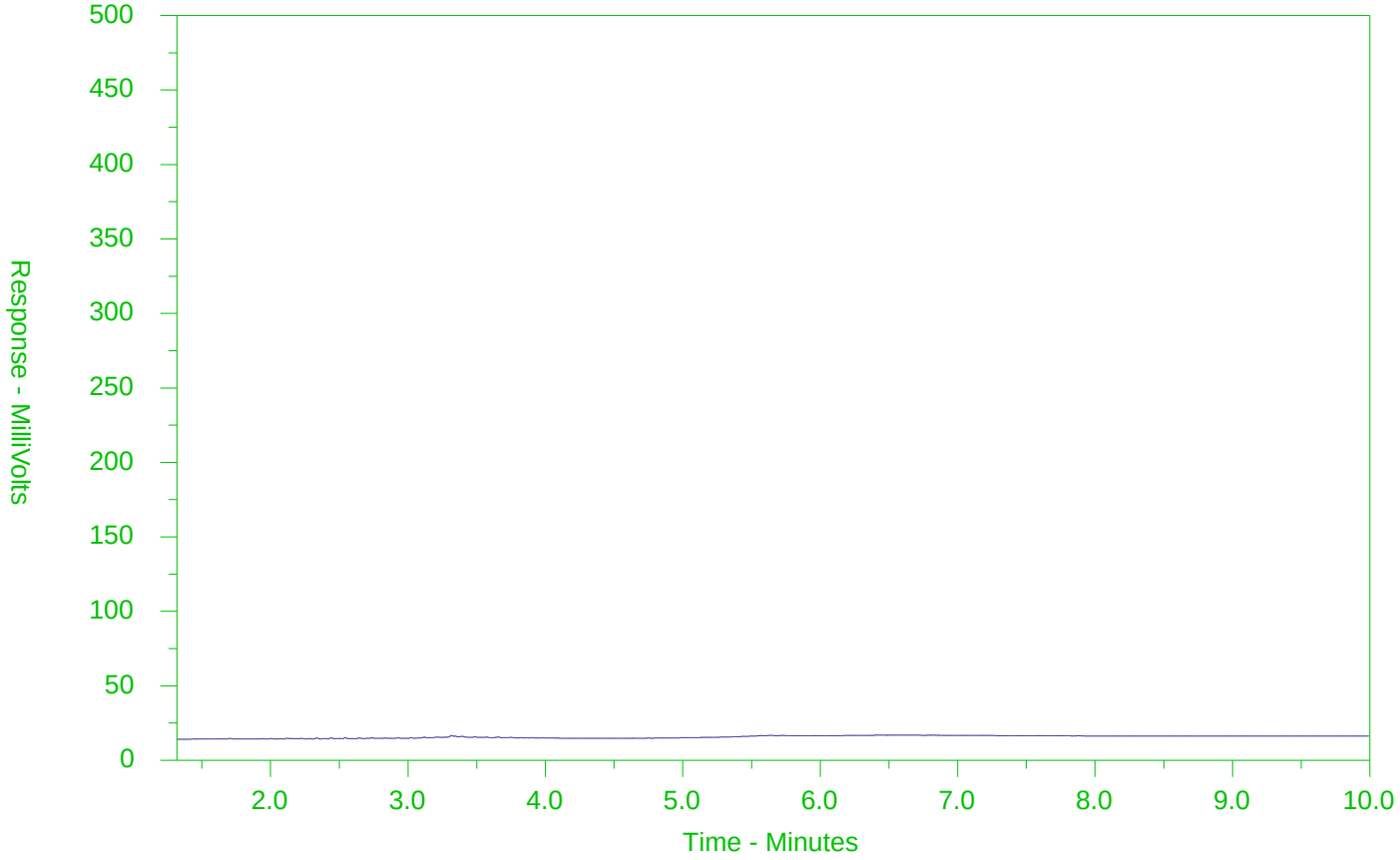
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-4
Client Sample ID: BH311 SS4 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.

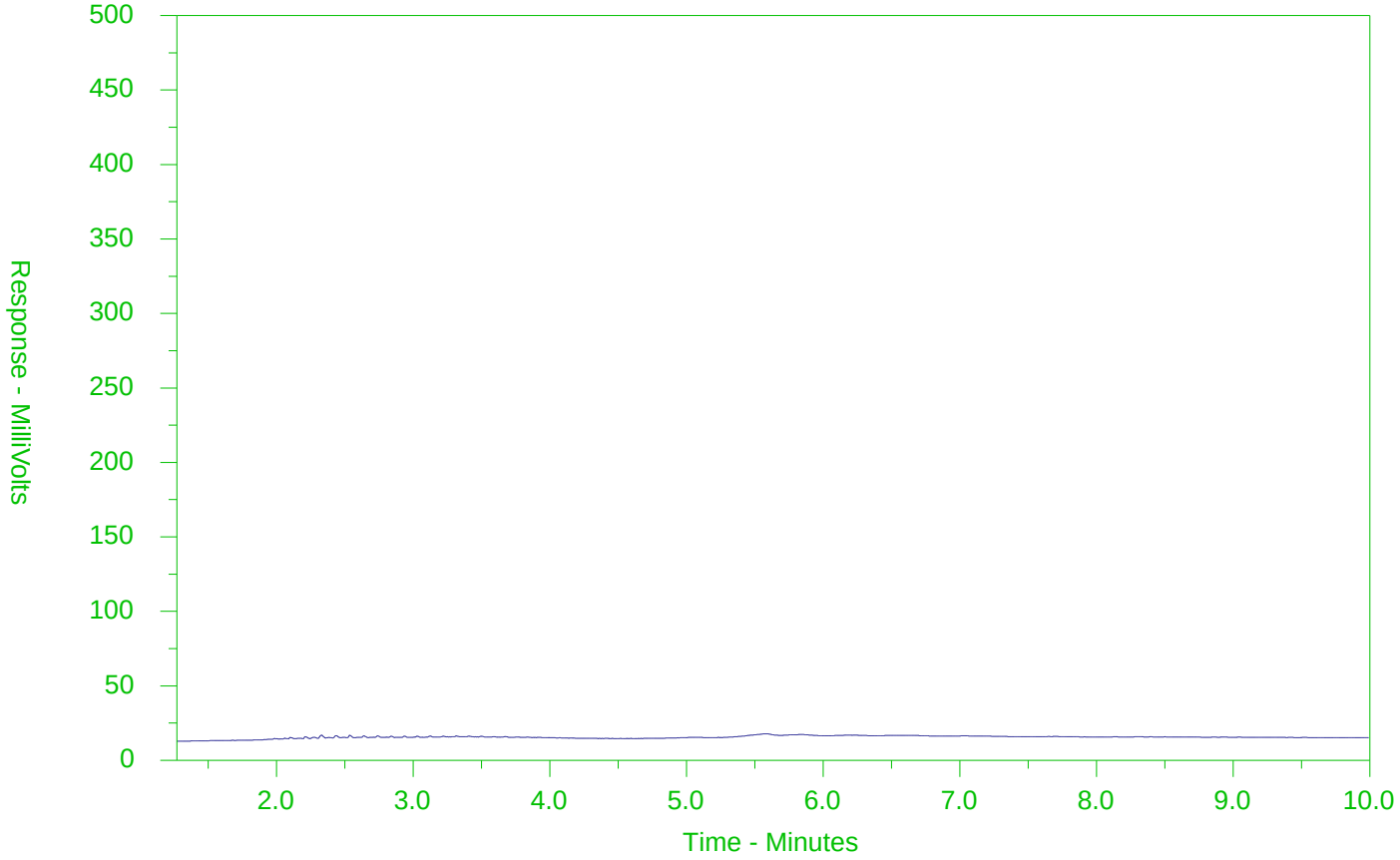
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-6
Client Sample ID: BH311 SS6 13-17'



←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.

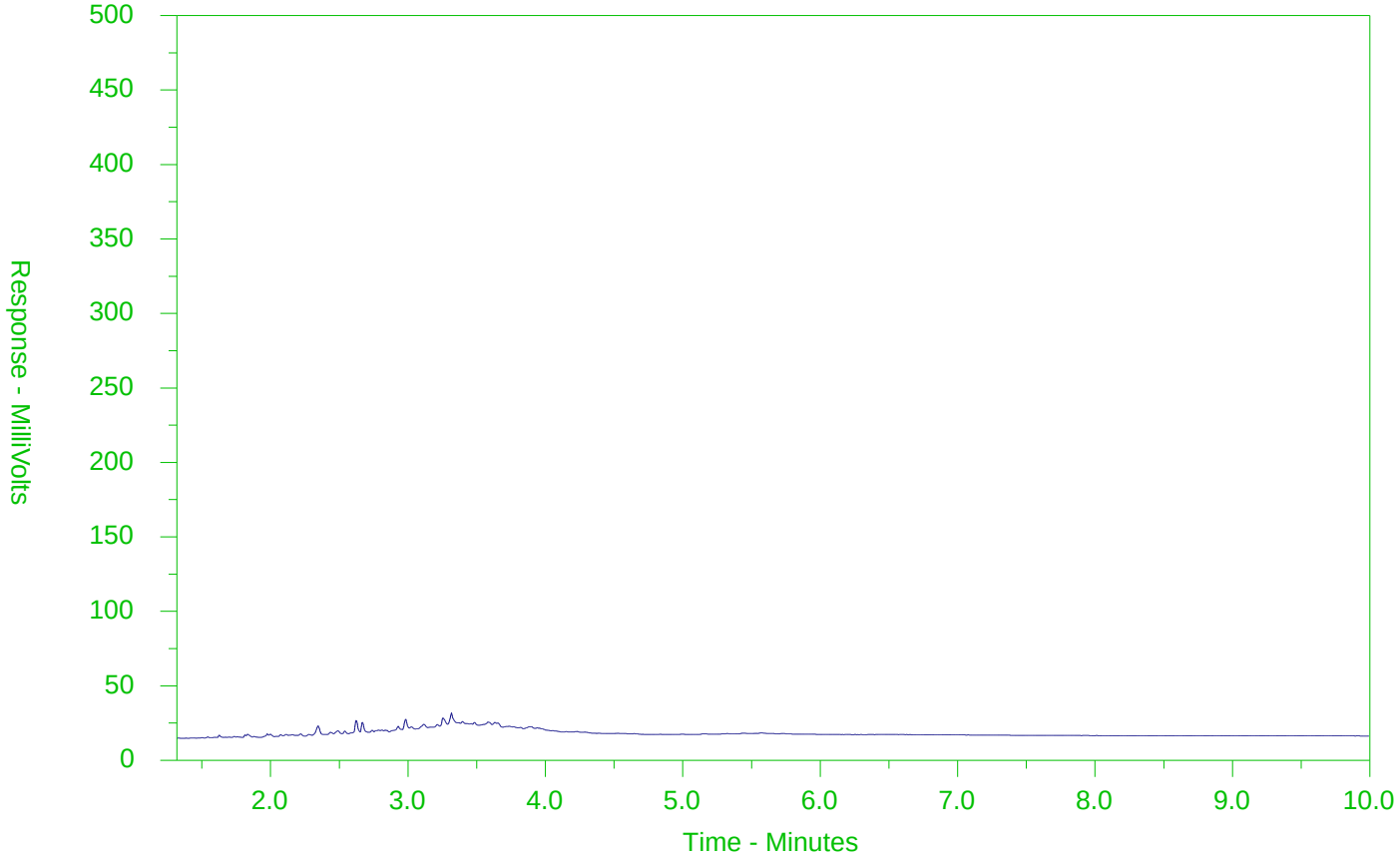
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-12
Client Sample ID: MW310 SS1 0-2'



←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.

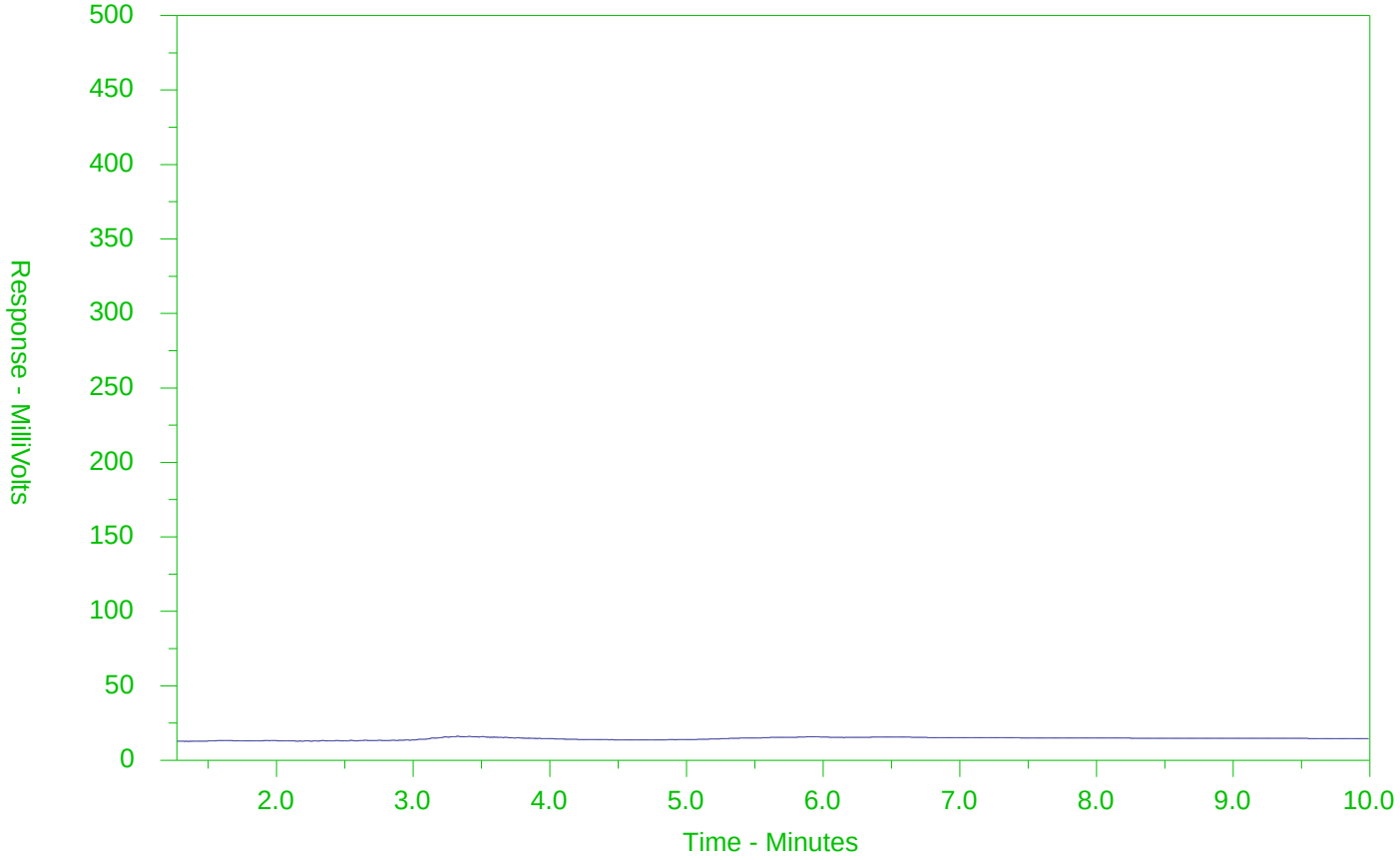
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-14
Client Sample ID: MW310 SS3 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.

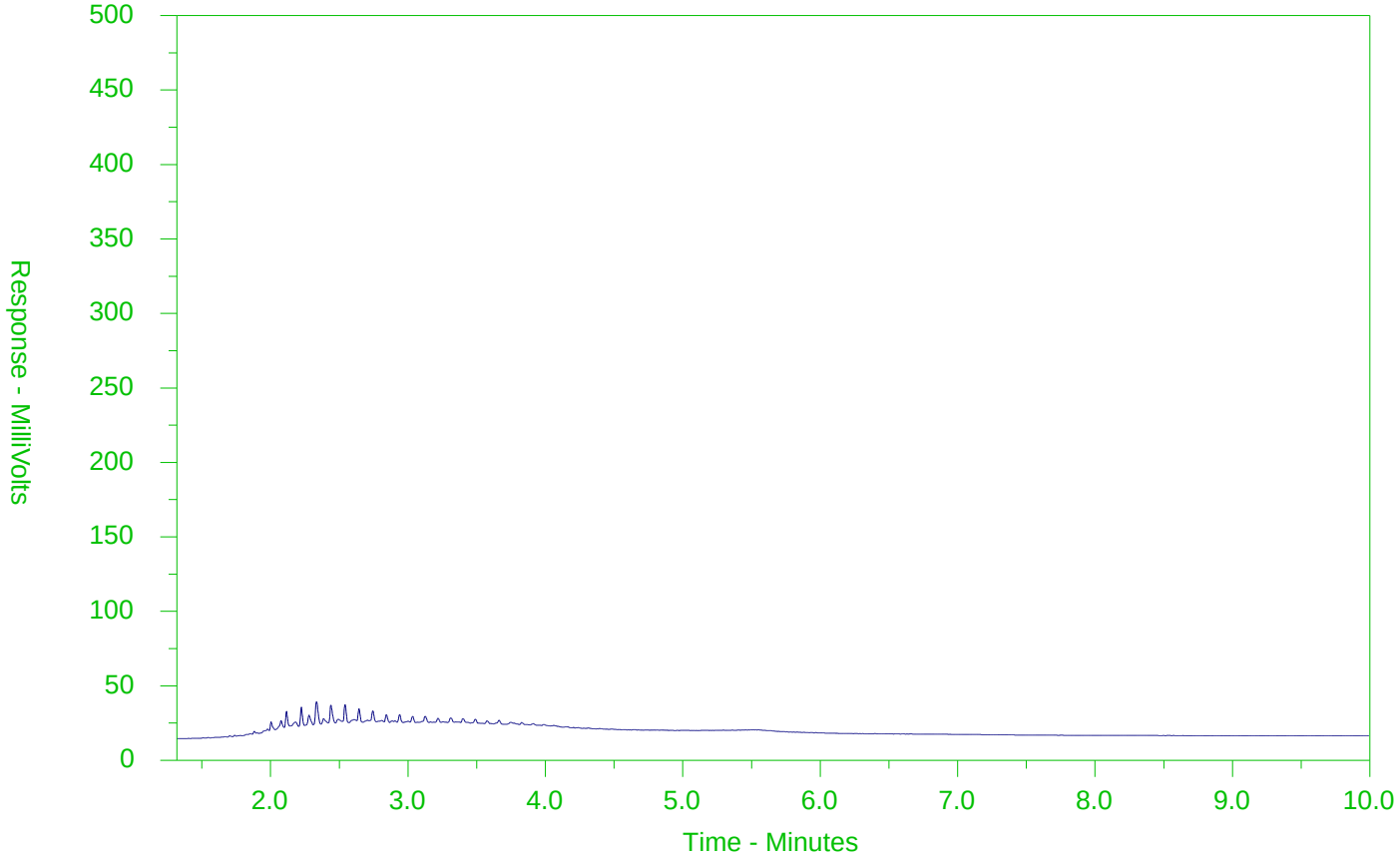
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-18
Client Sample ID: MW310 SS7 20-22'



←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.

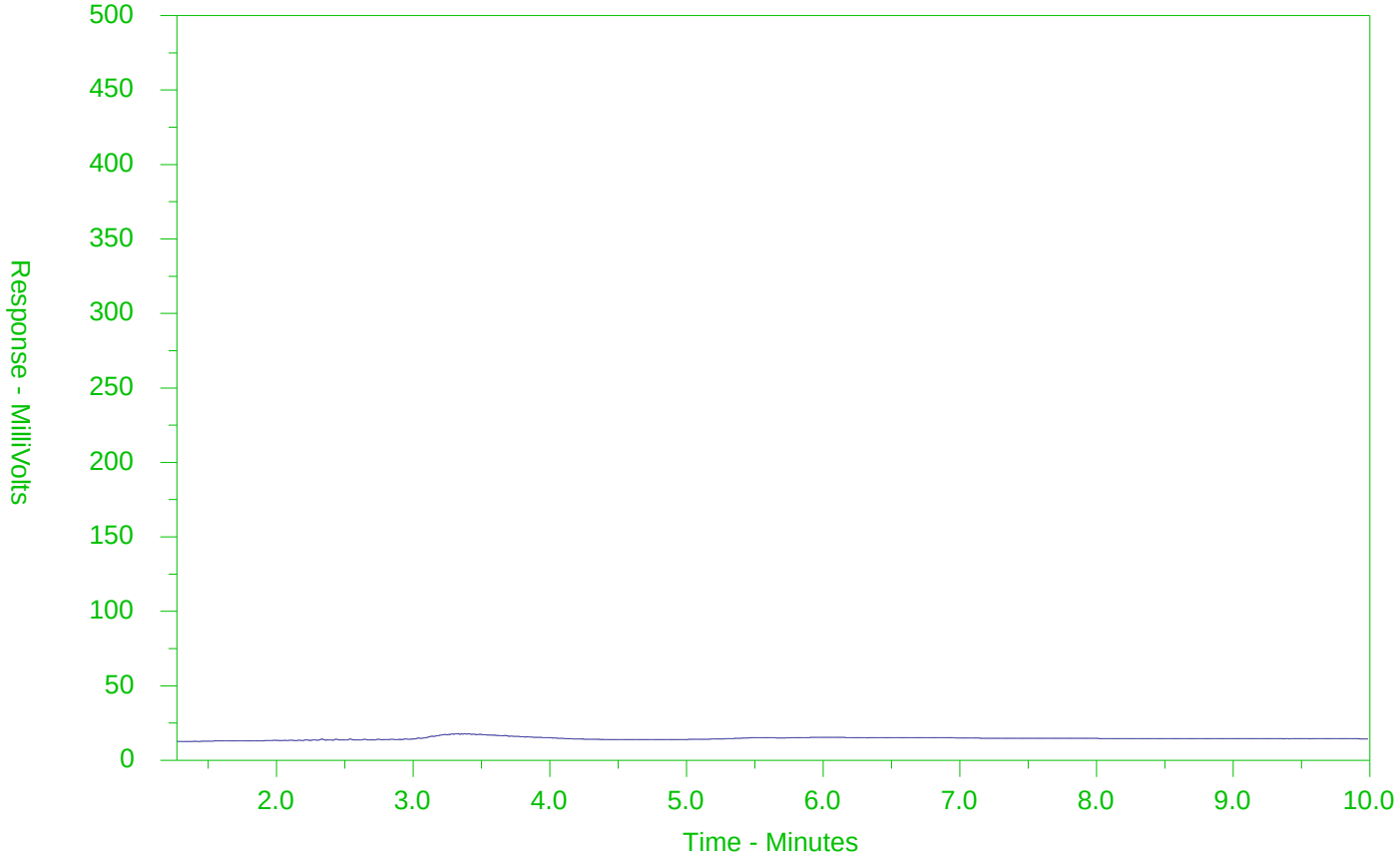
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-20
Client Sample ID: MW310 SS9 30-32'



←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.

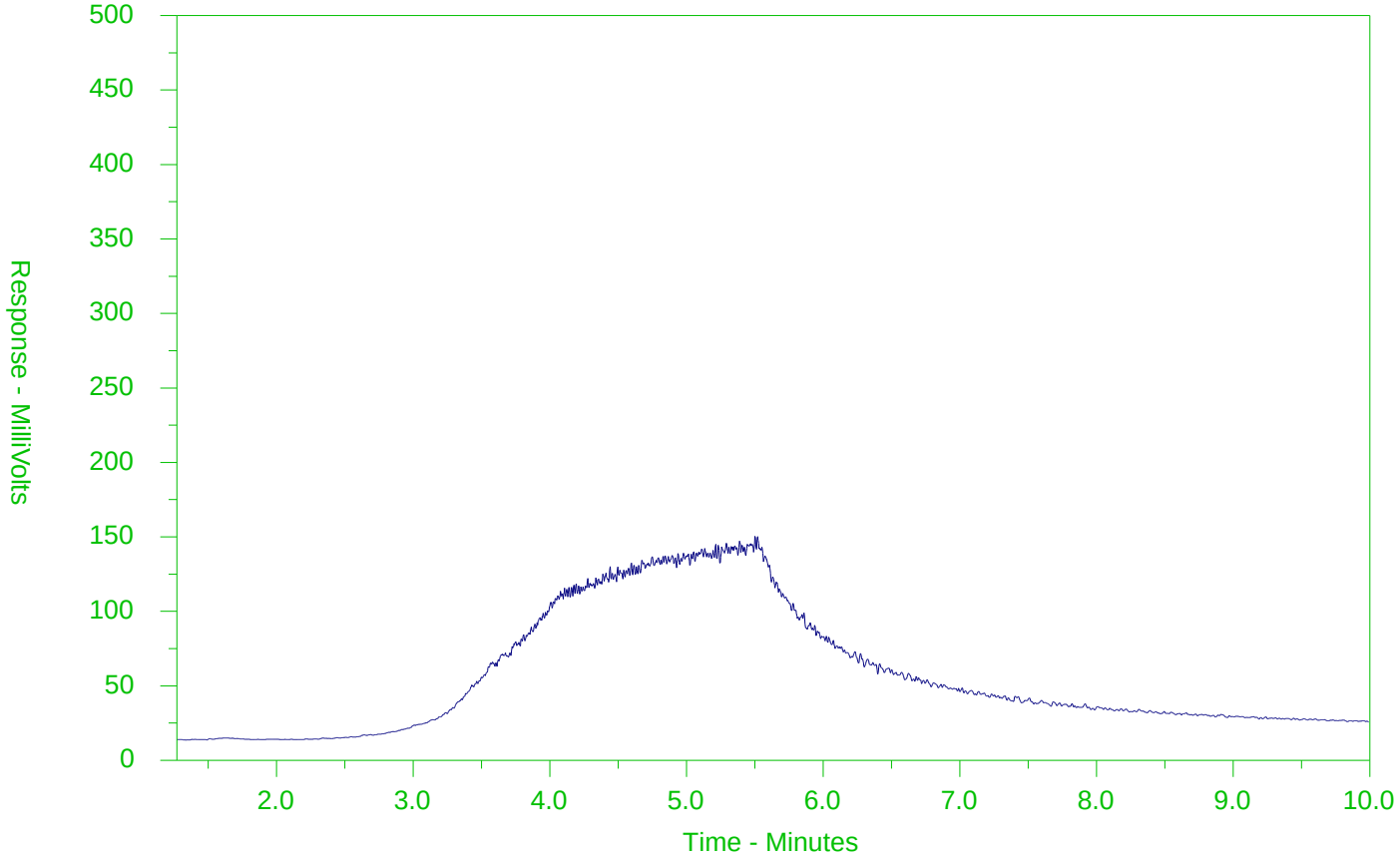
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-22
Client Sample ID: BH305 SS1 0-2'



←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.

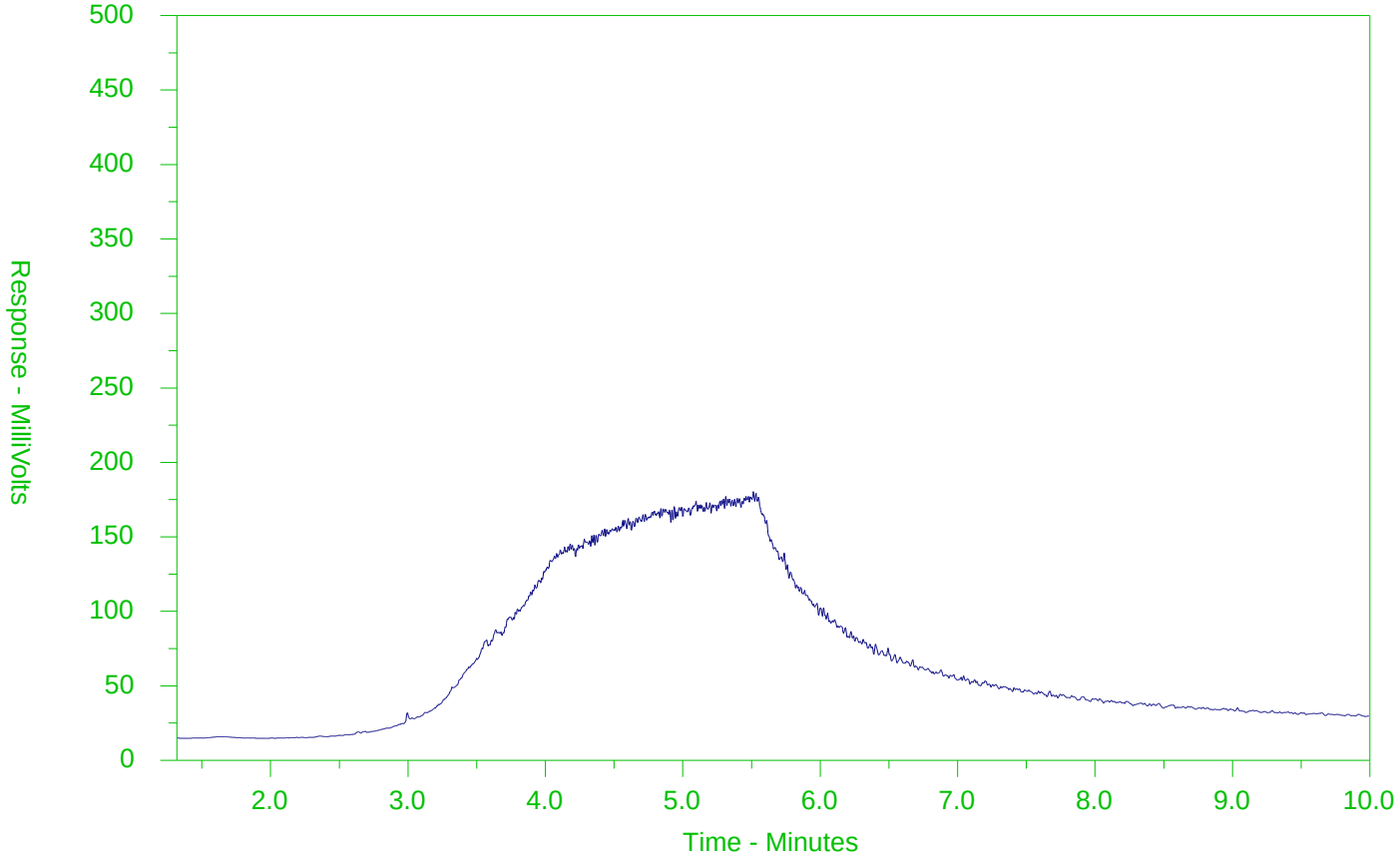
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-23
Client Sample ID: BH305 SS101 0-2'



←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.

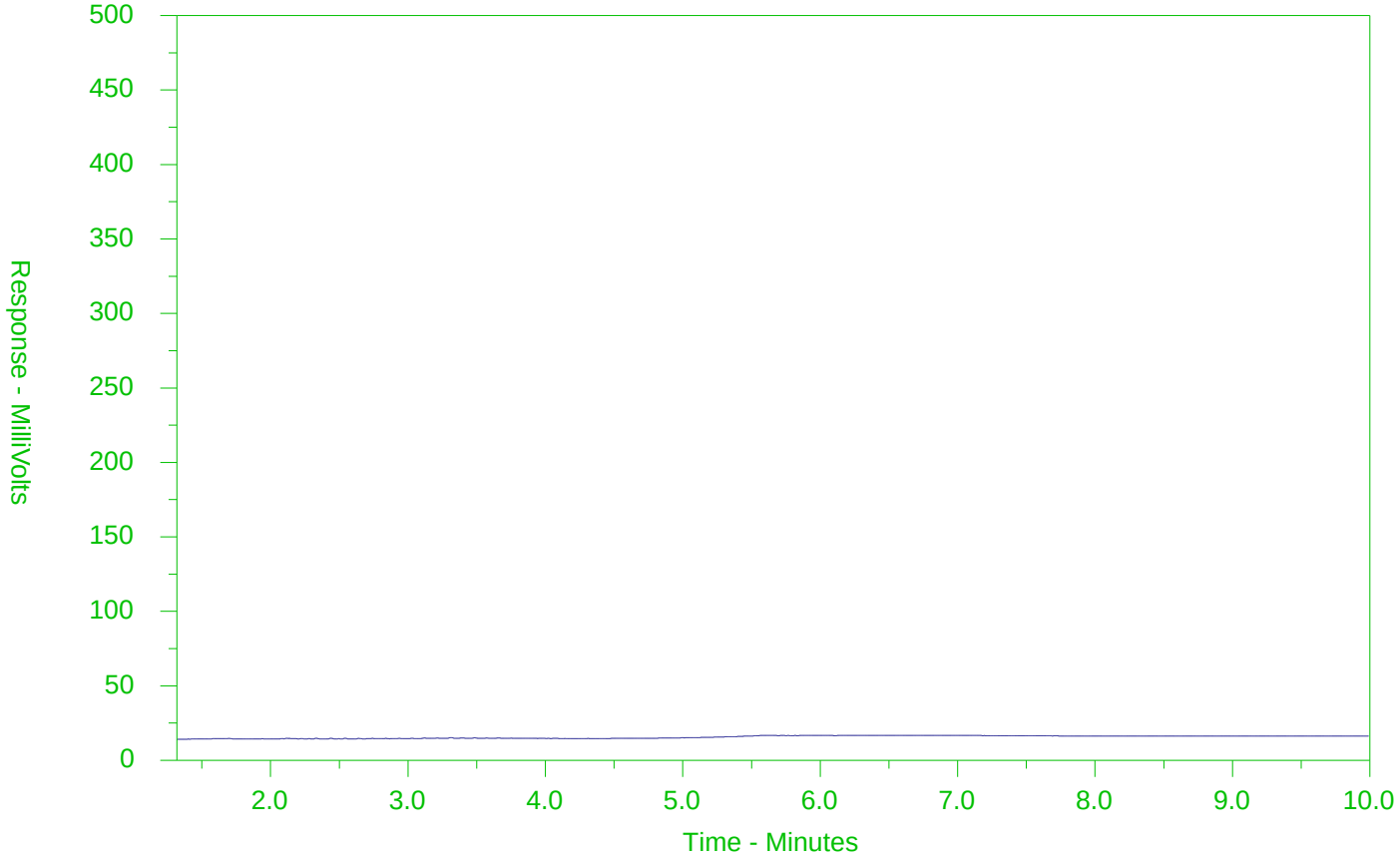
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-24
Client Sample ID: BH305 SS2 2.5-4.5'



←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.

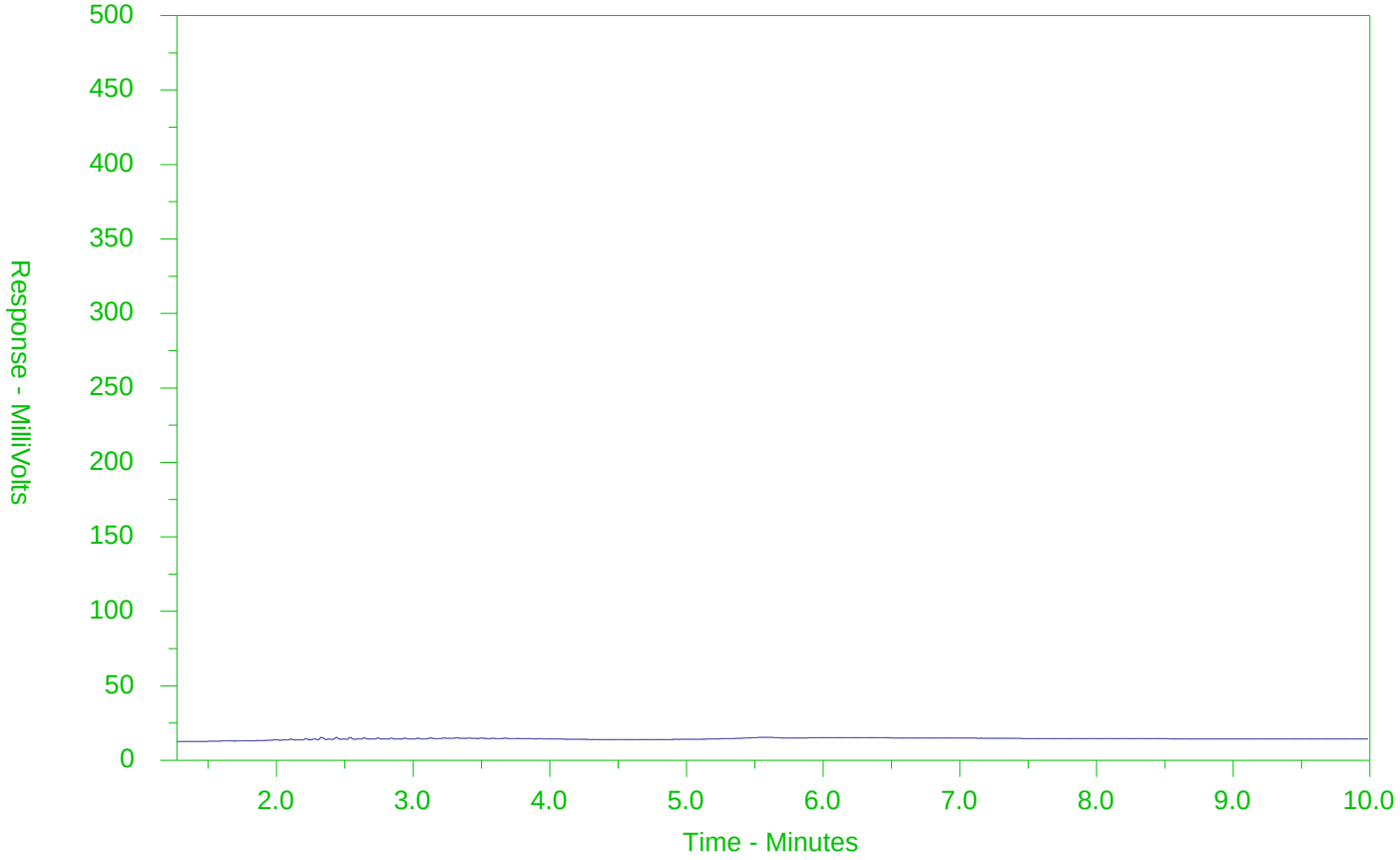
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-26
Client Sample ID: BH305 SS4 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.

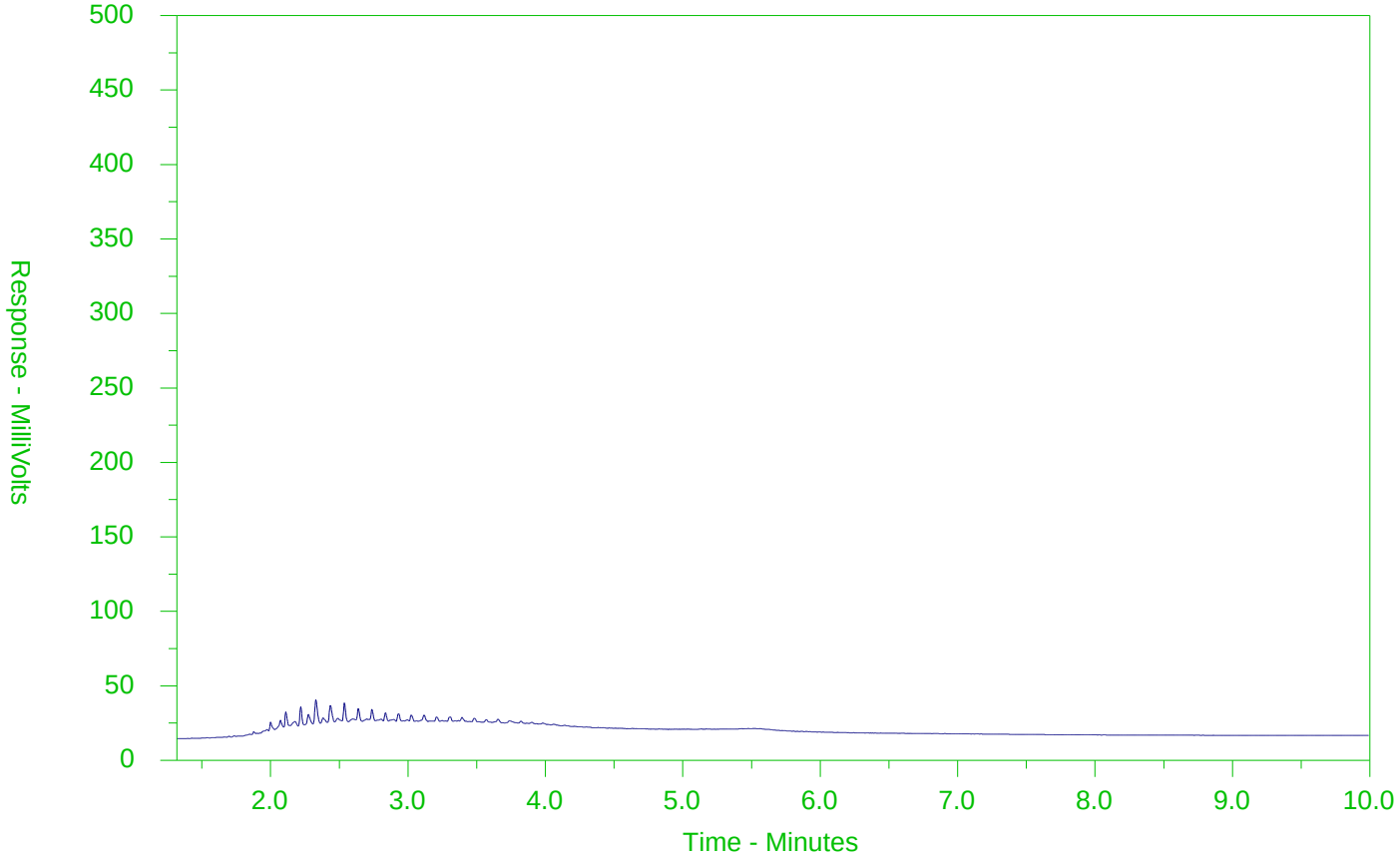
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-28
Client Sample ID: BH305 SS6 15-17'



←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.

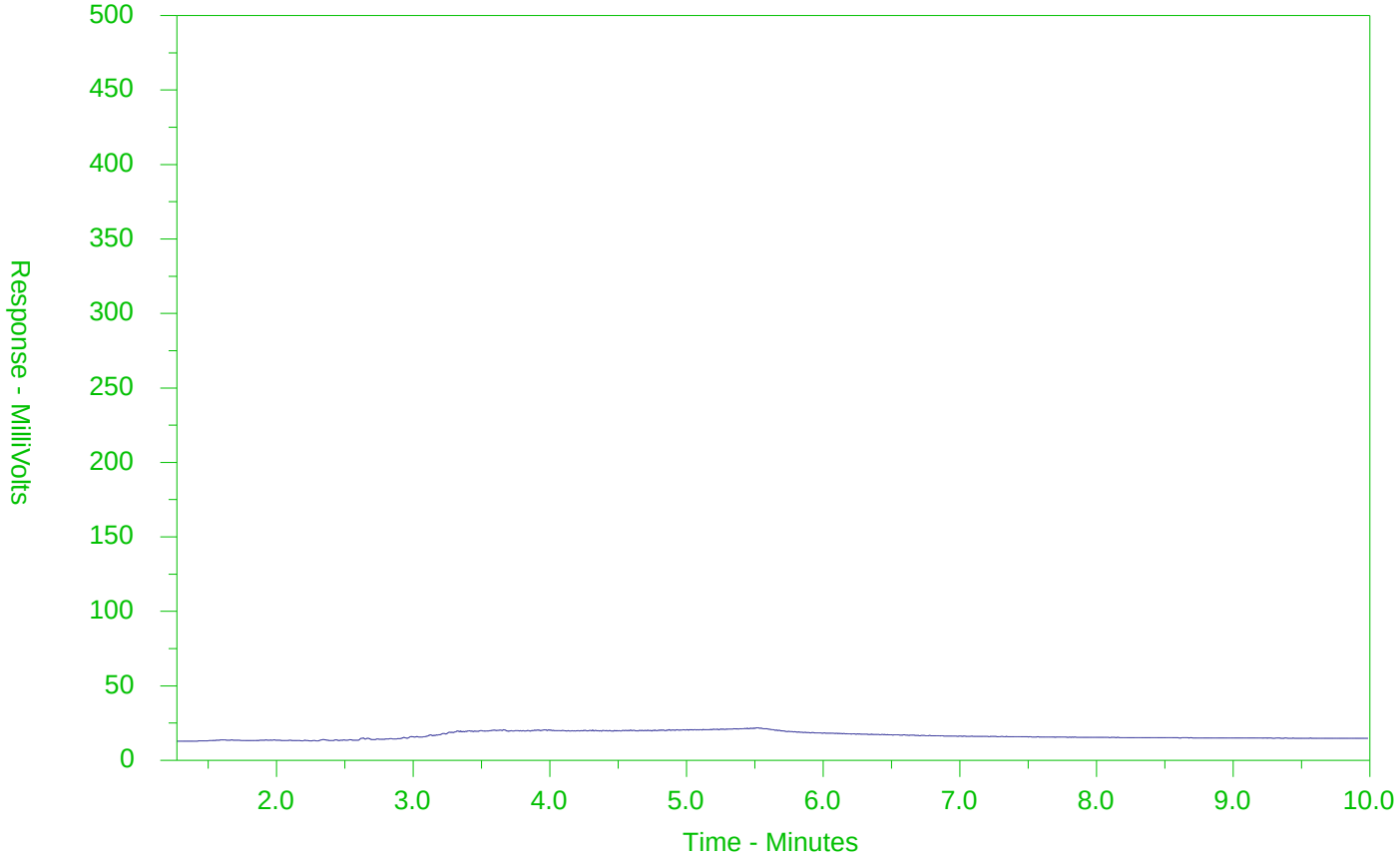
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-32
Client Sample ID: BH304 SS1 0-2'



←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.

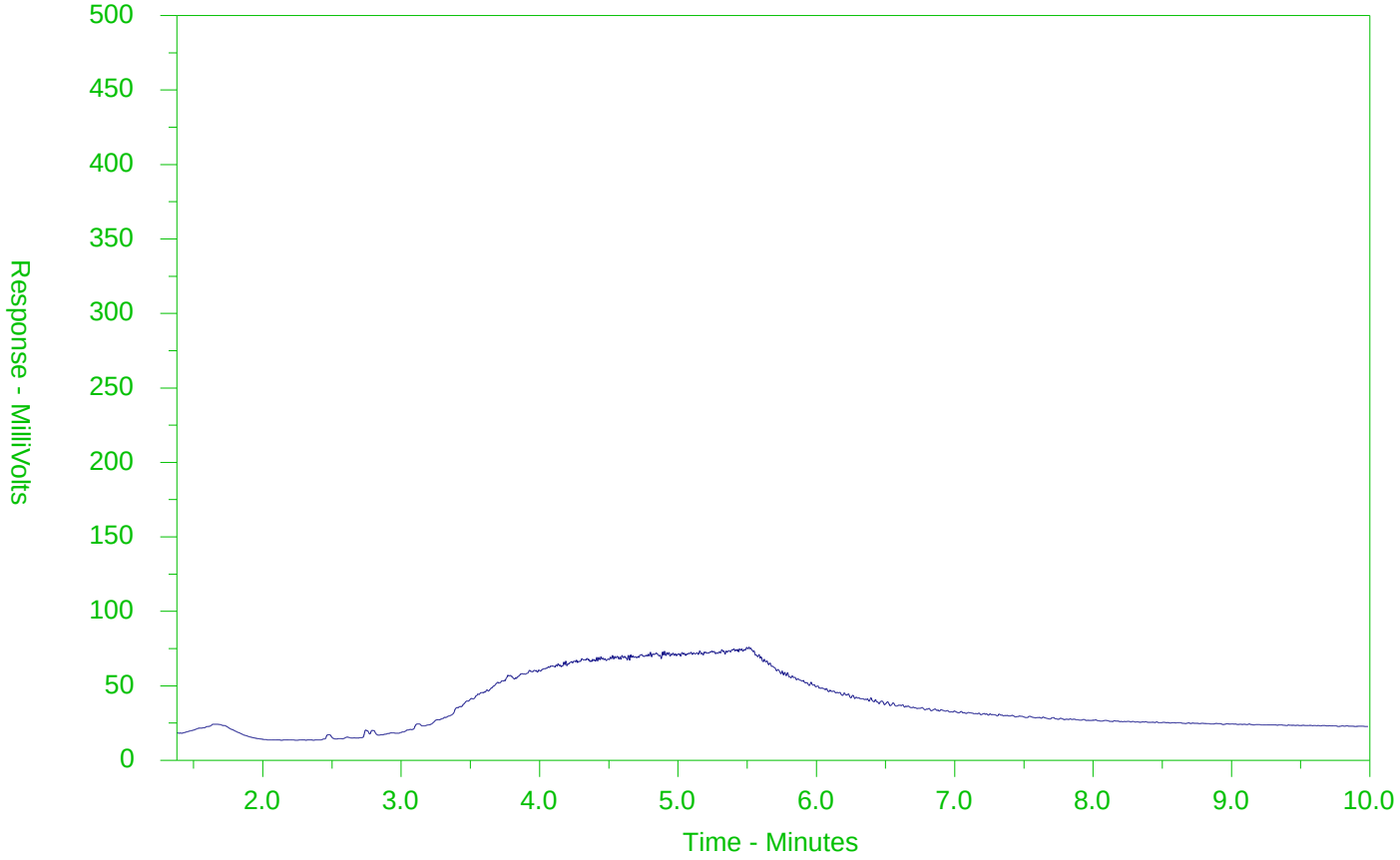
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-33
Client Sample ID: BH304 SS101 0-2'



←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.

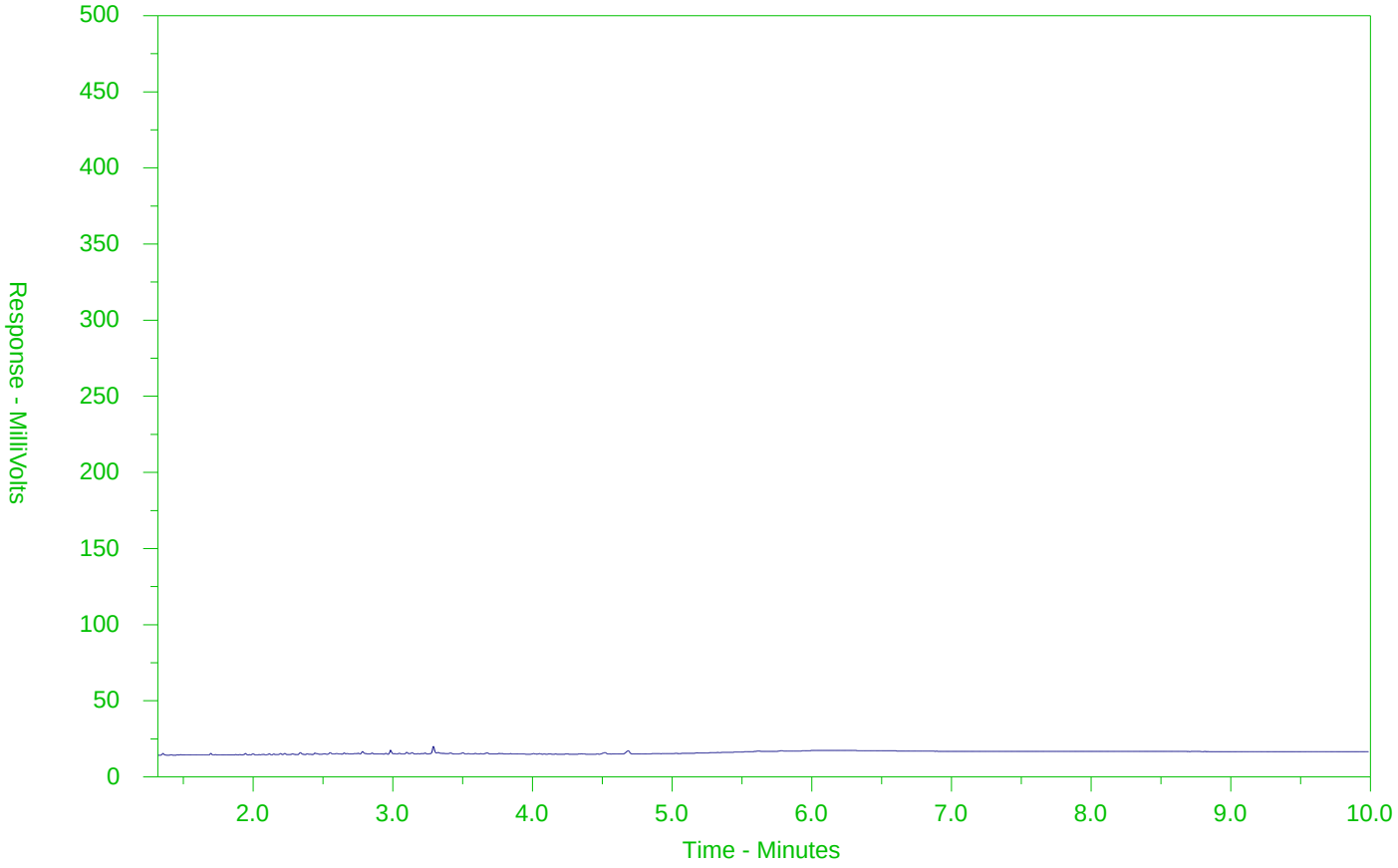
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-35
Client Sample ID: BH304 SS3 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.

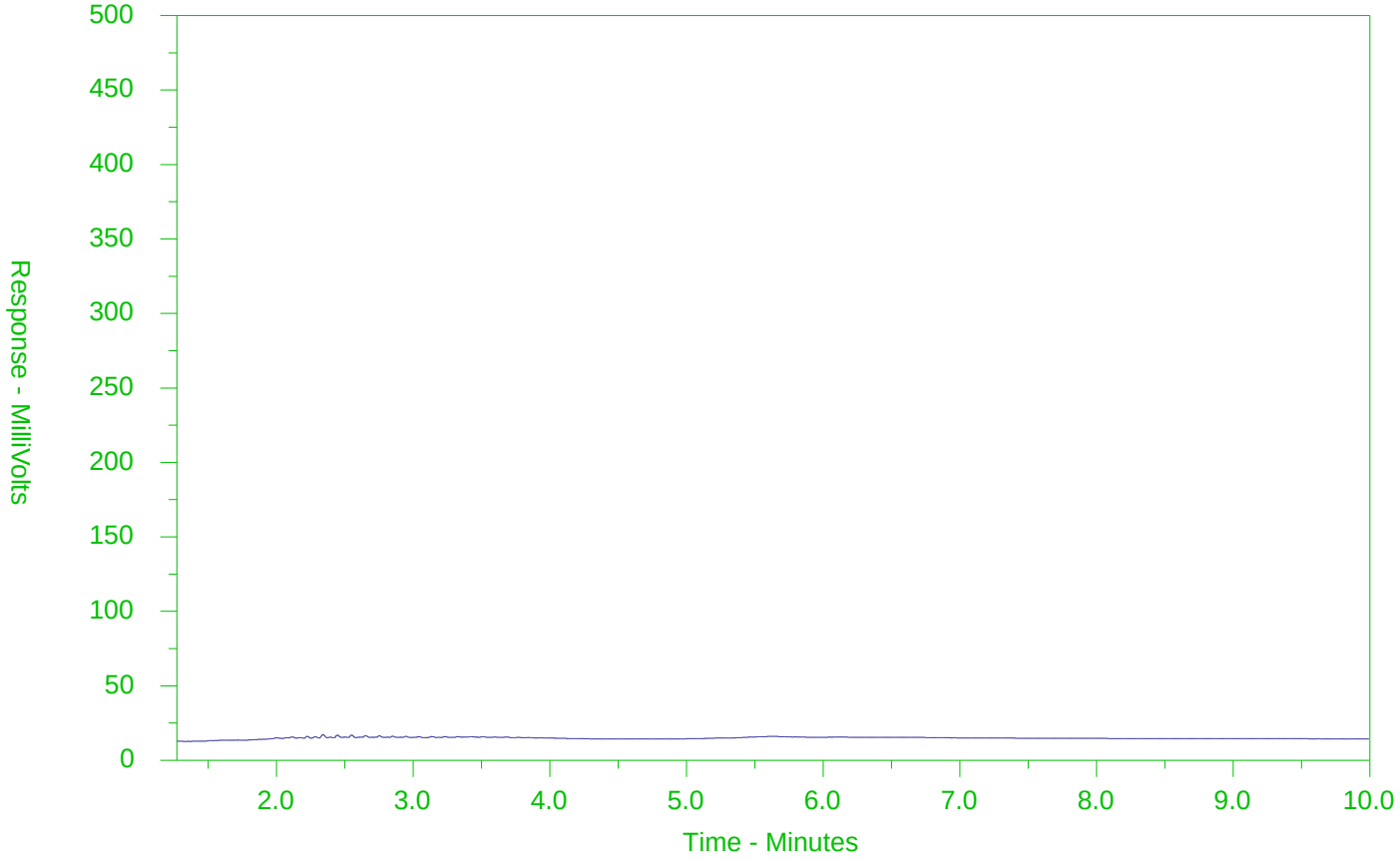
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-37
Client Sample ID: BH304 SS5 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.

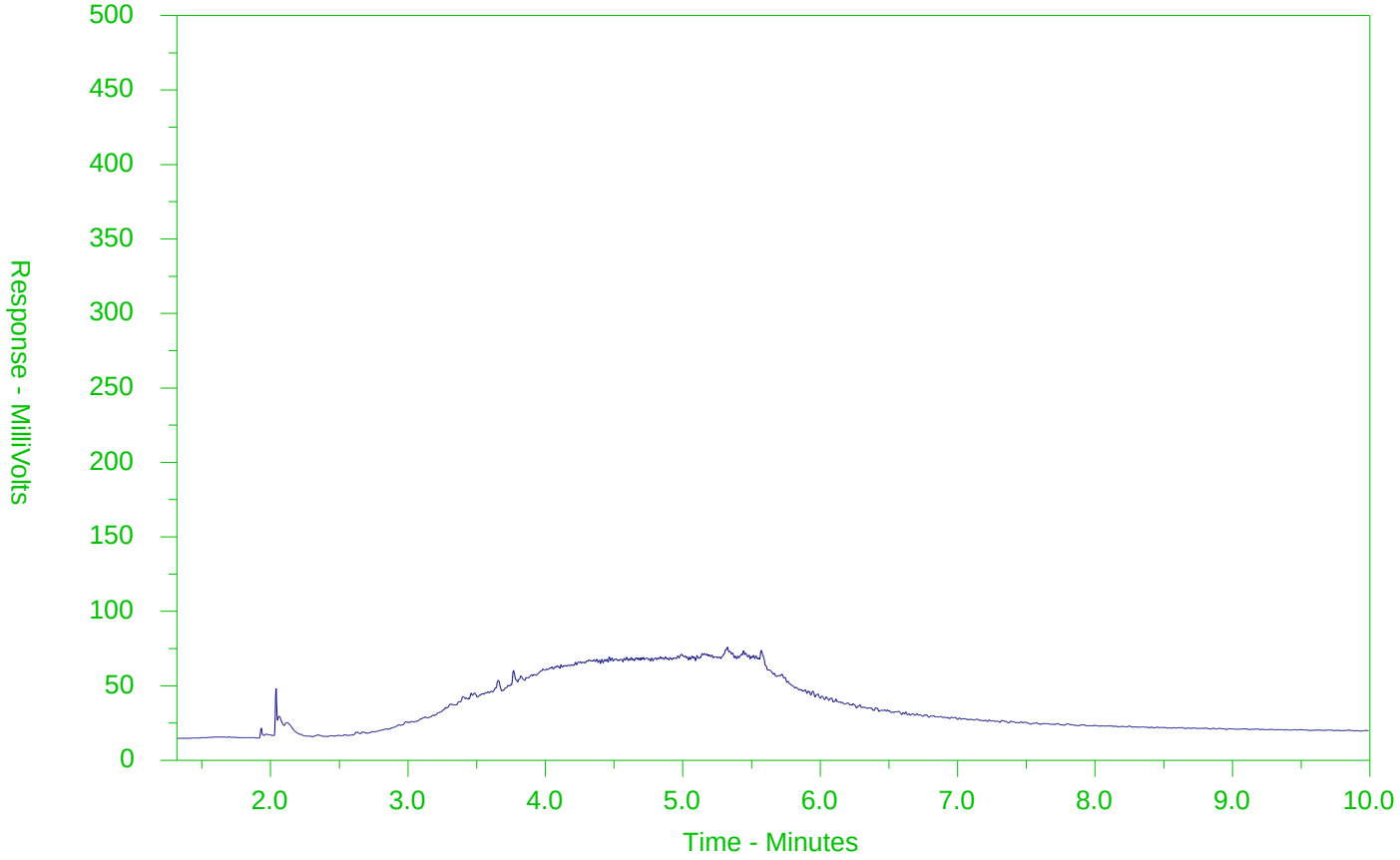
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-44
Client Sample ID: MW309 SS2 2.5-4.5'



←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.

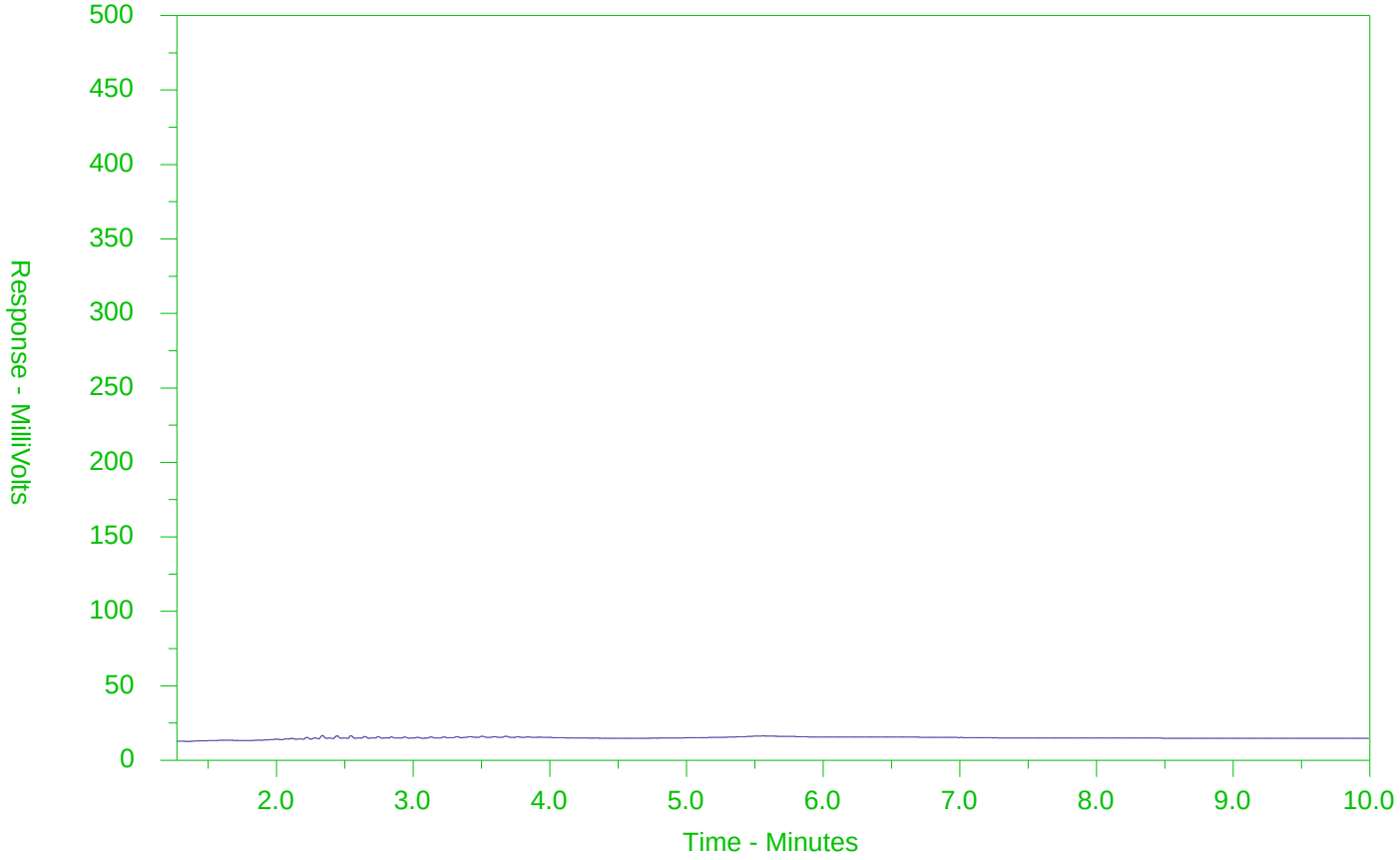
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-45
Client Sample ID: MW309 SS3 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.

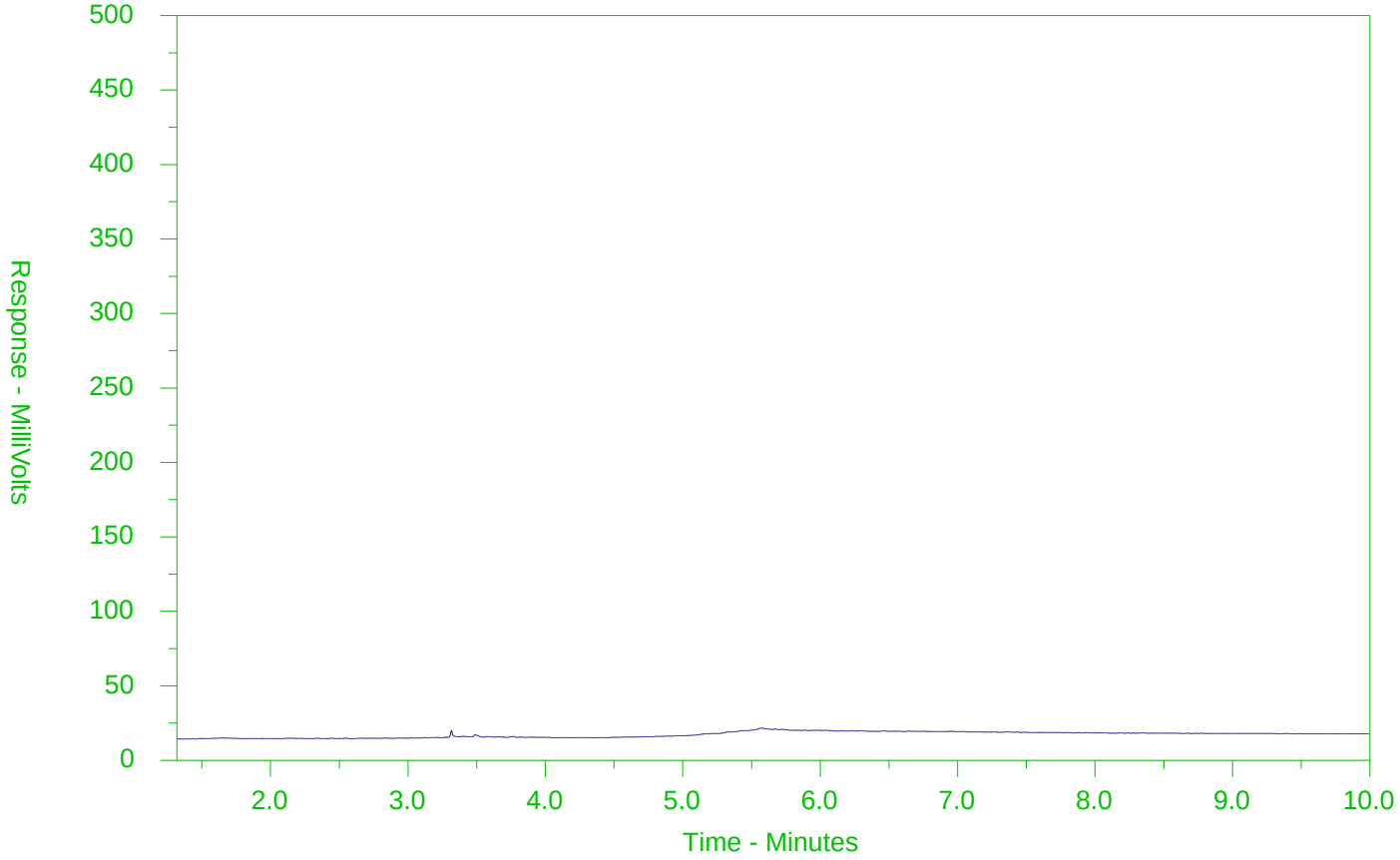
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2677593-47
Client Sample ID: MW309 SS5 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.

Chain of Custody (COC) / Request Form

L2677593-COFC

I here

COC Number: 17 -

Canada Toll Free: 1 800 668

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants Inc.
Contact:	Jen Lambke / Spencer Buck
Phone:	519-502-3268 / 289-795-7467 (cells)
	Company address below will appear on the final report
Street:	520 Bingeman Centre Drive
City/Province:	Kitchener
Postal Code:	
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 lambke@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)		EMERGENCY	
	4 day [P4-20%] ☐		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: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information

ALS Account # / Quote #: Q85986

Job #: 46372-301

PO / AFE: Elizabeth & George

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): L2677593KLP

ALS Contact: Emily Hansen 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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	TH311 SS1 0-2'	06/01/22	9:00	Soil	4									x	
	" SS2 2.5-4.5'	"	9:15	"	3									x	
	" SS3 5-7'	"	9:30	"	3									x	
	" SS4 7.5-9.5'	"	9:45	"	3									x	
	" SS5 10-12'	"	10:00	"	3									x	
	" SS6 13-17'	"	10:15	"	3									x	
	" SS7 20-22'	"	10:30	"	3									x	
	" SS8 25-27'	"	10:45	"	3									x	
	" SS9 30-32'	"	11:00	"	3									x	
	" SS10 35-37'	"	11:15	"	3									x	
	" AS	"	11:30	"	3									x	
	MW310 SS1 0-2'	"	11:45	"	4									x	

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)

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			
				3.9	2.1		

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
Harman Sandhu	Jan 7/22	21:50

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
[illegible]	Jan 8/21	900

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY JUNE 2018 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) / Analytic Request Form

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

L2677593-COFC

COC Number: 17 -

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants Inc.
Contact:	Jen Lambke / Spencer Buck
Phone:	519-502-3268 / 289-795-7467 (cells)
	Company address below will appear on the final report
Street:	520 Bingeman Centre Drive
City/Province:	Kitchener
Postal Code:	
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Fo.

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 jlambke@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: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information

ALS Account # / Quote #: Q85986

Job #: 46372-301

PO / AFE: Elizabeth & George

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): L2677593

ALS Contact: Emily Hansen 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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	MW310 552 ~~[illegible]~~ 2.5-4.5'	06/01/22	12:15	Soil	3									x	
	" 553 ~~[illegible]~~ 5-7'	"	12:30	"	3									x	
	" 554 ~~[illegible]~~ 7.5-9.5'	"	13:00	"	3									x	
	" 555 ~~[illegible]~~ 10-12'	"	13:20	"	3									x	
	" 556 ~~[illegible]~~ 15-17'	"	13:40	"	3									x	
	" 557 ~~[illegible]~~ 20-22'	"	14:00	"	3									x	
	" 558 ~~[illegible]~~ 25-27'	"	14:30	"	3									x	
	" 559 ~~[illegible]~~ 30-32'	"	14:45	"	3									x	
	" A-S ~~[illegible]~~	"	15:00	"	3									x	
	BH305 551 0-2'	07/01/22	9:30	"	4									x	
	" 5510 0-2'	"	9:50	"	3									x	
	" 552 2.5-4.5'	"	10:00	"	3									x	

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)

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			
				3.9			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date: Jan 7/22	Time: 21:00	Received by:	Date:	Time:	Received by:	Date: Jan 8/22	Time: 900

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 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

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

L2677593-COFC

COC Number: 17 -

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants Inc.
Contact:	Jen Lambke / Spencer Buck
Phone:	519-502-3268 / 289-795-7467 (cells)
	Company address below will appear on the final report
Street:	520 Bingeman Centre Drive
City/Province:	Kitchener
Postal Code:	

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: jlambke@mte85.com

Email 2: sbuck@mte85.com

Email 3:

Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days)		EMERGENCY	
	4 day [P4-20%] ☐		1 Business day [E - 100%] ☐
	3 day [P3-25%] ☐		Same Day, Weekend or Statutory holiday [E2 -200%] ☐
	2 day [P2-50%] ☐		(Laboratory opening fees may apply)]

Date and Time Required for all E&P TATs: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: accounting@mte85.com

Email 2:

Project Information

ALS Account # / Quote #:	Q85986
Job #:	46372-301
PO / AFE:	Elizabeth & George
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): L2677593 KH

ALS Contact: Emily Hansen

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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	BH305 553 5-7'	07/01/22	10:20	Soil	3									x	
	" 554 7.5-9.5'	"	10:40	"	3									x	
	" 555 10-12'	"	11:00	"	3									x	
	" 556 15-17'	"	11:15	"	3									x	
	" 557 20-22'	"	11:30	"	3									x	
	" 558 25-27'	"	11:45	"	3									x	
	" A5 [illegible]	"	12:00	"	3									x	
	BH304 551 0-2'	"	12:20	"	4									x	
	552 0-2'	"	12:40	"	3									x	
	557 2.5-4.5'	"	13:00	"	3									x	
	553 5-7'	"	13:20	"	3									x	
	554 7.5-9.5'	"	13:45	"	3									x	

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)

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
	3.9

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: YLS	Date: Jan 7/22	Time: 17:30	Received by:	Date:	Time:	Received by:	Date: Jan 8/22	Time: 900

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 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

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

L2677593-COFC

COC Number: 17 -

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants Inc.
Contact:	Jen Lambke / Spencer Buck
Phone:	519-502-3268 / 289-795-7467 (cells)
	Company address below will appear on the final report
Street:	520 Bingeman Centre Drive
City/Province:	Kitchener
Postal Code:	

Report Form.

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: lambke@mte85.com

Email 2: sbuck@mte85.com

Email 3:

ow - 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)		EMERGENCY	
	4 day [P4-20%] ☐		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: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: accounting@mte85.com

Email 2:

Project Information

ALS Account # / Quote #:	Q85986
Job #:	46372-301
PO / AFE:	Elizabeth & George
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): L2677593-COFC

ALS Contact: Emily Hansen

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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	BH304 SS5 10-12'	07/01/22	14:00	Soil	3									x	
	" SS6 15-17'	"	14:15	"	3									x	
	" SS7 20-22'	"	14:30	"	3									x	
	" SS8 25-27'	"	14:45	"	3									x	
	" AS	"	15:00	"	3									x	
	MW309 SS1 0-2'	"	15:10	"	4									x	
	" SS101 0-2'	"	15:20	"	3									x	
	" SS2 2.5-4.5'	"	15:30	"	3									x	
	" SS3 5-7'	"	15:40	"	3									x	
	" SS4 7.5-9.5'	"	15:50	"	3									x	
	" SS5 10-12'	"	16:00	"	3									x	
														x	

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)

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			
				3.9			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date: Jun 7/22	Time: 21:30	Received by:	Date:	Time:	Received by:	Date: Jan 8/22	Time: 900

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 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: JEN LAMBKE
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Date Received: 13-JAN-22
Report Date: 28-JAN-22 15:08 (MT)
Version: FINAL REV. 2

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2678641

Project P.O. #: ELIZABETH & GEORGE
Job Reference: 46372-301
C of C Numbers: 1, 2, 3
Legal Site Desc:

Comments: ADDITIONAL 24-JAN-22 08:21
ADDITIONAL 14-JAN-22 08:55

Emily Hansen
Account Manager

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ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-6	MW 308-22 SS1 0-2								
Sampled By:	CLIENT on 11-JAN-22 @ 12:00								
Matrix:	SOIL								
Physical Tests									
	Conductivity	0.300		0.0040	mS/cm	20-JAN-22	0.57	1.4	0.7
	% Moisture	10.6		0.25	%	15-JAN-22			
Saturated Paste Extractables									
	SAR	7.45		0.10	SAR	19-JAN-22	*2.4	12	*5
	Calcium (Ca)	4.07		0.50	mg/L	19-JAN-22			
	Magnesium (Mg)	1.09		0.50	mg/L	19-JAN-22			
	Sodium (Na)	65.5		0.50	mg/L	19-JAN-22			
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	19-JAN-22	1.3	40	7.5
	Arsenic (As)	5.4		1.0	ug/g	19-JAN-22	18	18	18
	Barium (Ba)	78.1		1.0	ug/g	19-JAN-22	220	670	390
	Beryllium (Be)	<0.50		0.50	ug/g	19-JAN-22	2.5	8	4
	Boron (B)	10.9		5.0	ug/g	19-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	19-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	21.4		1.0	ug/g	19-JAN-22	70	160	160
	Cobalt (Co)	6.8		1.0	ug/g	19-JAN-22	21	80	22
	Copper (Cu)	29.3		1.0	ug/g	19-JAN-22	92	230	140
	Lead (Pb)	60.4		1.0	ug/g	19-JAN-22	120	120	120
	Molybdenum (Mo)	1.0		1.0	ug/g	19-JAN-22	2	40	6.9
	Nickel (Ni)	14.5		1.0	ug/g	19-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	19-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	19-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	19-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	19-JAN-22	2.5	33	23
	Vanadium (V)	24.5		1.0	ug/g	19-JAN-22	86	86	86
	Zinc (Zn)	75.9		5.0	ug/g	19-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	18-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	18-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	97.3		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	95.0		50-140	%	18-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	19-JAN-22	10	26	10
	F2-Naphth	<10		10	ug/g	19-JAN-22			
	F3 (C16-C34)	51		50	ug/g	19-JAN-22	240	1700	300
	F3-PAH	<50		50	ug/g	19-JAN-22			
	F4 (C34-C50)	76		50	ug/g	19-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	126		72	ug/g	19-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	93.0		60-140	%	19-JAN-22			

** 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 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-6	MW 308-22 SS1 0-2								
Sampled By:	CLIENT on 11-JAN-22 @ 12:00								
Matrix:	SOIL								
Hydrocarbons									
	Surrogate: 3,4-Dichlorotoluene	82.3		60-140	%	18-JAN-22			
Polycyclic Aromatic Hydrocarbons									
	Acenaphthene	0.103		0.050	ug/g	17-JAN-22	*0.072	15	*0.093
	Acenaphthylene	<0.050		0.050	ug/g	17-JAN-22	0.093	0.093	14
	Anthracene	0.189		0.050	ug/g	17-JAN-22	*0.16	*0.16	*0.16
	Benzo(a)anthracene	0.589		0.050	ug/g	17-JAN-22	*0.36	1	*0.5
	Benzo(a)pyrene	0.684		0.050	ug/g	17-JAN-22	*0.3	0.7	*0.57
	Benzo(b&j)fluoranthene	0.806		0.050	ug/g	17-JAN-22	*0.47	7	5.7
	Benzo(g,h,i)perylene	0.436		0.050	ug/g	17-JAN-22	0.68	13	6.6
	Benzo(k)fluoranthene	0.281		0.050	ug/g	17-JAN-22	0.48	7	5.7
	Chrysene	0.622		0.050	ug/g	17-JAN-22	2.8	14	7
	Dibenz(a,h)anthracene	0.094		0.050	ug/g	17-JAN-22	0.1	0.7	0.57
	Fluoranthene	1.65		0.050	ug/g	17-JAN-22	*0.56	70	*0.69
	Fluorene	0.101		0.050	ug/g	17-JAN-22	0.12	6.8	6.8
	Indeno(1,2,3-cd)pyrene	0.345		0.050	ug/g	17-JAN-22	*0.23	0.76	0.38
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	17-JAN-22	0.59	8.7	0.92
	1-Methylnaphthalene	<0.030		0.030	ug/g	17-JAN-22	0.59	8.7	0.92
	2-Methylnaphthalene	0.031		0.030	ug/g	17-JAN-22	0.59	8.7	0.92
	Naphthalene	0.074		0.013	ug/g	17-JAN-22	0.09	1.8	0.59
	Phenanthrene	1.14		0.046	ug/g	17-JAN-22	*0.69	12	6.2
	Pyrene	1.34		0.050	ug/g	17-JAN-22	*1	70	70
	Surrogate: 2-Fluorobiphenyl	88.7		50-140	%	17-JAN-22			
	Surrogate: d14-Terphenyl	91.5		50-140	%	17-JAN-22			
L2678641-7	MW 308-22 SS101 0-2								
Sampled By:	CLIENT on 11-JAN-22 @ 12:13								
Matrix:	SOIL								
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	19-JAN-22	1.3	40	7.5
	Arsenic (As)	6.1		1.0	ug/g	19-JAN-22	18	18	18
	Barium (Ba)	102		1.0	ug/g	19-JAN-22	220	670	390
	Beryllium (Be)	0.57		0.50	ug/g	19-JAN-22	2.5	8	4
	Boron (B)	12.4		5.0	ug/g	19-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	19-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	22.1		1.0	ug/g	19-JAN-22	70	160	160
	Cobalt (Co)	8.6		1.0	ug/g	19-JAN-22	21	80	22
	Copper (Cu)	36.9		1.0	ug/g	19-JAN-22	92	230	140
	Lead (Pb)	88.9		1.0	ug/g	19-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	19-JAN-22	2	40	6.9
	Nickel (Ni)	18.7		1.0	ug/g	19-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	19-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	19-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	19-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	19-JAN-22	2.5	33	23
	Vanadium (V)	28.5		1.0	ug/g	19-JAN-22	86	86	86

** 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 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-7	MW 308-22 SS101 0-2								
Sampled By:	CLIENT on 11-JAN-22 @ 12:13								
Matrix:	SOIL								
Metals									
	Zinc (Zn)	85.8		5.0	ug/g	19-JAN-22	290	340	340
L2678641-8	MW 308-22 SS2 2.5-4.5								
Sampled By:	CLIENT on 11-JAN-22 @ 12:30								
Matrix:	SOIL								
Physical Tests									
	% Moisture	14.5		0.25	%	15-JAN-22			
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	19-JAN-22	1.3	40	7.5
	Arsenic (As)	6.4		1.0	ug/g	19-JAN-22	18	18	18
	Barium (Ba)	88.1		1.0	ug/g	19-JAN-22	220	670	390
	Beryllium (Be)	0.66		0.50	ug/g	19-JAN-22	2.5	8	4
	Boron (B)	9.8		5.0	ug/g	19-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	19-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	21.5		1.0	ug/g	19-JAN-22	70	160	160
	Cobalt (Co)	10.3		1.0	ug/g	19-JAN-22	21	80	22
	Copper (Cu)	38.9		1.0	ug/g	19-JAN-22	92	230	140
	Lead (Pb)	50.1		1.0	ug/g	19-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	19-JAN-22	2	40	6.9
	Nickel (Ni)	22.4		1.0	ug/g	19-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	19-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	19-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	19-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	19-JAN-22	2.5	33	23
	Vanadium (V)	32.1		1.0	ug/g	19-JAN-22	86	86	86
	Zinc (Zn)	78.0		5.0	ug/g	19-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	18-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	18-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	102.6		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	105.6		50-140	%	18-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	19-JAN-22	10	26	10
	F3 (C16-C34)	<50		50	ug/g	19-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	19-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	19-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	94.0		60-140	%	19-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	96.0		60-140	%	18-JAN-22			

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

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#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-9	MW 308-22 SS3 5-7								
Sampled By:	CLIENT on 11-JAN-22 @ 13:00								
Matrix:	SOIL								
Physical Tests									
	Conductivity	1.53		0.0040	mS/cm	20-JAN-22	*0.57	*1.4	*0.7
	% Moisture	16.2		0.25	%	15-JAN-22			
Saturated Paste Extractables									
	SAR	2.46		0.10	SAR	19-JAN-22	*2.4	12	5
	Calcium (Ca)	137		0.50	mg/L	19-JAN-22			
	Magnesium (Mg)	17.1		0.50	mg/L	19-JAN-22			
	Sodium (Na)	115		0.50	mg/L	19-JAN-22			
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	19-JAN-22	1.3	40	7.5
	Arsenic (As)	5.8		1.0	ug/g	19-JAN-22	18	18	18
	Barium (Ba)	83.9		1.0	ug/g	19-JAN-22	220	670	390
	Beryllium (Be)	0.66		0.50	ug/g	19-JAN-22	2.5	8	4
	Boron (B)	8.7		5.0	ug/g	19-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	19-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	22.1		1.0	ug/g	19-JAN-22	70	160	160
	Cobalt (Co)	10.9		1.0	ug/g	19-JAN-22	21	80	22
	Copper (Cu)	35.8		1.0	ug/g	19-JAN-22	92	230	140
	Lead (Pb)	23.0		1.0	ug/g	19-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	19-JAN-22	2	40	6.9
	Nickel (Ni)	22.5		1.0	ug/g	19-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	19-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	19-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	19-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	19-JAN-22	2.5	33	23
	Vanadium (V)	33.8		1.0	ug/g	19-JAN-22	86	86	86
	Zinc (Zn)	66.4		5.0	ug/g	19-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	18-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	18-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	95.7		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	98.8		50-140	%	18-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	19-JAN-22	10	26	10
	F3 (C16-C34)	<50		50	ug/g	19-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	19-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	19-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	91.5		60-140	%	19-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	99.5		60-140	%	18-JAN-22			
Polycyclic Aromatic Hydrocarbons									

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-9	MW 308-22 SS3 5-7								
Sampled By:	CLIENT on 11-JAN-22 @ 13:00								
Matrix:	SOIL								
Polycyclic Aromatic Hydrocarbons									
	Acenaphthene	<0.050		0.050	ug/g	26-JAN-22	0.072	15	0.093
	Acenaphthylene	<0.050		0.050	ug/g	26-JAN-22	0.093	0.093	14
	Anthracene	<0.050		0.050	ug/g	26-JAN-22	0.16	0.16	0.16
	Benzo(a)anthracene	<0.050		0.050	ug/g	26-JAN-22	0.36	1	0.5
	Benzo(a)pyrene	<0.050		0.050	ug/g	26-JAN-22	0.3	0.7	0.57
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.47	7	5.7
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	26-JAN-22	0.68	13	6.6
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.48	7	5.7
	Chrysene	<0.050		0.050	ug/g	26-JAN-22	2.8	14	7
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	26-JAN-22	0.1	0.7	0.57
	Fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.56	70	0.69
	Fluorene	<0.050		0.050	ug/g	26-JAN-22	0.12	6.8	6.8
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	26-JAN-22	0.23	0.76	0.38
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	26-JAN-22	0.59	8.7	0.92
	1-Methylnaphthalene	<0.030		0.030	ug/g	26-JAN-22	0.59	8.7	0.92
	2-Methylnaphthalene	<0.030		0.030	ug/g	26-JAN-22	0.59	8.7	0.92
	Naphthalene	<0.013		0.013	ug/g	26-JAN-22	0.09	1.8	0.59
	Phenanthrene	<0.046		0.046	ug/g	26-JAN-22	0.69	12	6.2
	Pyrene	<0.050		0.050	ug/g	26-JAN-22	1	70	70
	Surrogate: 2-Fluorobiphenyl	89.4		50-140	%	26-JAN-22			
	Surrogate: d14-Terphenyl	91.7		50-140	%	26-JAN-22			
Organochlorine Pesticides									
	Aldrin	<0.00020		0.00020	ug/g	19-JAN-22	0.05	0.088	0.05
	Lindane	<0.00020		0.00020	ug/g	19-JAN-22	0.01	0.01	0.01
	a-chlordane	<0.00030		0.00030	ug/g	19-JAN-22			
	Chlordane (Total)	<0.00042		0.00042	ug/g	19-JAN-22	0.05	0.05	0.05
	g-chlordane	<0.00030		0.00030	ug/g	19-JAN-22			
	o,p-DDD	<0.00030		0.00030	ug/g	19-JAN-22			
	pp-DDD	<0.00030		0.00030	ug/g	19-JAN-22			
	Total DDD	<0.00042		0.00042	ug/g	19-JAN-22	0.05	4.6	3.3
	o,p-DDE	<0.00030		0.00030	ug/g	19-JAN-22			
	pp-DDE	<0.00030		0.00030	ug/g	19-JAN-22			
	Total DDE	<0.00042		0.00042	ug/g	19-JAN-22	0.05	0.52	0.26
	op-DDT	<0.00030		0.00030	ug/g	19-JAN-22			
	pp-DDT	<0.00030		0.00030	ug/g	19-JAN-22			
	Total DDT	<0.00042		0.00042	ug/g	19-JAN-22	1.4	1.4	1.4
	Dieldrin	<0.00020		0.00020	ug/g	19-JAN-22	0.05	0.088	0.05
	alpha-Endosulfan	<0.00030		0.00030	ug/g	19-JAN-22			
	beta-Endosulfan	<0.00030		0.00030	ug/g	19-JAN-22			
	Endosulfan (Total)	<0.00042		0.00042	ug/g	19-JAN-22	0.04	0.3	0.04
	Endrin	<0.00050		0.00050	ug/g	19-JAN-22	0.04	0.04	0.04
	Heptachlor	<0.00020		0.00020	ug/g	19-JAN-22	0.05	0.072	0.072
	Heptachlor Epoxide	<0.00020		0.00020	ug/g	19-JAN-22	0.05	0.05	0.05
	Hexachlorobenzene	<0.00050		0.00050	ug/g	19-JAN-22	0.01	0.66	0.52
	Hexachlorobutadiene	<0.00050		0.00050	ug/g	19-JAN-22	0.01	0.01	0.01
	Hexachloroethane	<0.00050		0.00050	ug/g	19-JAN-22	0.01	0.13	0.01

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#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-9	MW 308-22 SS3 5-7								
Sampled By:	CLIENT on 11-JAN-22 @ 13:00								
Matrix:	SOIL								
Organochlorine Pesticides									
	Methoxychlor	<0.00050		0.00050	ug/g	19-JAN-22	0.05	0.19	0.13
	Surrogate: Decachlorobiphenyl	98.0		50-150	%	19-JAN-22			
	Surrogate: Tetrachloro-m-xylene	81.3		50-150	%	19-JAN-22			
L2678641-10	MW 307-22 SS1 0-2								
Sampled By:	CLIENT on 11-JAN-22 @ 13:20								
Matrix:	SOIL								
Physical Tests									
	% Moisture	20.7		0.25	%	15-JAN-22			
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	19-JAN-22	1.3	40	7.5
	Arsenic (As)	4.9		1.0	ug/g	19-JAN-22	18	18	18
	Barium (Ba)	35.8		1.0	ug/g	19-JAN-22	220	670	390
	Beryllium (Be)	<0.50		0.50	ug/g	19-JAN-22	2.5	8	4
	Boron (B)	10.0		5.0	ug/g	19-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	19-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	8.9		1.0	ug/g	19-JAN-22	70	160	160
	Cobalt (Co)	4.3		1.0	ug/g	19-JAN-22	21	80	22
	Copper (Cu)	15.8		1.0	ug/g	19-JAN-22	92	230	140
	Lead (Pb)	43.9		1.0	ug/g	19-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	19-JAN-22	2	40	6.9
	Nickel (Ni)	9.4		1.0	ug/g	19-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	19-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	19-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	19-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	19-JAN-22	2.5	33	23
	Vanadium (V)	12.7		1.0	ug/g	19-JAN-22	86	86	86
	Zinc (Zn)	134		5.0	ug/g	19-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	18-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	18-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	98.7		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	100.3		50-140	%	18-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	19-JAN-22	10	26	10
	F3 (C16-C34)	70		50	ug/g	19-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	19-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	19-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	94.0		60-140	%	19-JAN-22			

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-10 MW 307-22 SS1 0-2									
Sampled By: CLIENT on 11-JAN-22 @ 13:20									
Matrix: SOIL									
Hydrocarbons									
	Surrogate: 3,4-Dichlorotoluene	97.6		60-140	%	18-JAN-22			
L2678641-11 MW 307-22 SS101 0-2									
Sampled By: CLIENT on 11-JAN-22 @ 13:40									
Matrix: SOIL									
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	19-JAN-22	1.3	40	7.5
	Arsenic (As)	5.3		1.0	ug/g	19-JAN-22	18	18	18
	Barium (Ba)	56.1		1.0	ug/g	19-JAN-22	220	670	390
	Beryllium (Be)	<0.50		0.50	ug/g	19-JAN-22	2.5	8	4
	Boron (B)	11.2		5.0	ug/g	19-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	19-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	12.7		1.0	ug/g	19-JAN-22	70	160	160
	Cobalt (Co)	5.8		1.0	ug/g	19-JAN-22	21	80	22
	Copper (Cu)	21.8		1.0	ug/g	19-JAN-22	92	230	140
	Lead (Pb)	55.7		1.0	ug/g	19-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	19-JAN-22	2	40	6.9
	Nickel (Ni)	12.6		1.0	ug/g	19-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	19-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	19-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	19-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	19-JAN-22	2.5	33	23
	Vanadium (V)	19.0		1.0	ug/g	19-JAN-22	86	86	86
	Zinc (Zn)	153		5.0	ug/g	19-JAN-22	290	340	340
L2678641-12 MW 307-22 SS2 2.5-4.5									
Sampled By: CLIENT on 11-JAN-22 @ 14:00									
Matrix: SOIL									
Physical Tests									
	% Moisture	13.9		0.25	%	15-JAN-22			
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	19-JAN-22	1.3	40	7.5
	Arsenic (As)	6.0		1.0	ug/g	19-JAN-22	18	18	18
	Barium (Ba)	81.6		1.0	ug/g	19-JAN-22	220	670	390
	Beryllium (Be)	0.68		0.50	ug/g	19-JAN-22	2.5	8	4
	Boron (B)	8.3		5.0	ug/g	19-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	19-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	21.1		1.0	ug/g	19-JAN-22	70	160	160
	Cobalt (Co)	10.5		1.0	ug/g	19-JAN-22	21	80	22
	Copper (Cu)	34.3		1.0	ug/g	19-JAN-22	92	230	140
	Lead (Pb)	22.6		1.0	ug/g	19-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	19-JAN-22	2	40	6.9
	Nickel (Ni)	21.8		1.0	ug/g	19-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	19-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	19-JAN-22	0.5	40	20

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#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-12	MW 307-22 SS2 2.5-4.5								
Sampled By:	CLIENT on 11-JAN-22 @ 14:00								
Matrix:	SOIL								
Metals									
	Thallium (Tl)	<0.50		0.50	ug/g	19-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	19-JAN-22	2.5	33	23
	Vanadium (V)	31.4		1.0	ug/g	19-JAN-22	86	86	86
	Zinc (Zn)	67.9		5.0	ug/g	19-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	18-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	18-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	89.7		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	93.4		50-140	%	18-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	19-JAN-22	10	26	10
	F2-Naphth	<10		10	ug/g	19-JAN-22			
	F3 (C16-C34)	<50		50	ug/g	19-JAN-22	240	1700	300
	F3-PAH	<50		50	ug/g	19-JAN-22			
	F4 (C34-C50)	<50		50	ug/g	19-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	19-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	92.3		60-140	%	19-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	89.9		60-140	%	18-JAN-22			
Polycyclic Aromatic Hydrocarbons									
	Acenaphthene	<0.050		0.050	ug/g	17-JAN-22	0.072	15	0.093
	Acenaphthylene	<0.050		0.050	ug/g	17-JAN-22	0.093	0.093	14
	Anthracene	<0.050		0.050	ug/g	17-JAN-22	0.16	0.16	0.16
	Benzo(a)anthracene	<0.050		0.050	ug/g	17-JAN-22	0.36	1	0.5
	Benzo(a)pyrene	<0.050		0.050	ug/g	17-JAN-22	0.3	0.7	0.57
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	17-JAN-22	0.47	7	5.7
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	17-JAN-22	0.68	13	6.6
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	17-JAN-22	0.48	7	5.7
	Chrysene	<0.050		0.050	ug/g	17-JAN-22	2.8	14	7
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	17-JAN-22	0.1	0.7	0.57
	Fluoranthene	<0.050		0.050	ug/g	17-JAN-22	0.56	70	0.69
	Fluorene	<0.050		0.050	ug/g	17-JAN-22	0.12	6.8	6.8
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	17-JAN-22	0.23	0.76	0.38
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	17-JAN-22	0.59	8.7	0.92
	1-Methylnaphthalene	<0.030		0.030	ug/g	17-JAN-22	0.59	8.7	0.92
	2-Methylnaphthalene	<0.030		0.030	ug/g	17-JAN-22	0.59	8.7	0.92
	Naphthalene	<0.013		0.013	ug/g	17-JAN-22	0.09	1.8	0.59
	Phenanthrene	<0.046		0.046	ug/g	17-JAN-22	0.69	12	6.2
	Pyrene	<0.050		0.050	ug/g	17-JAN-22	1	70	70
	Surrogate: 2-Fluorobiphenyl	91.9		50-140	%	17-JAN-22			

** 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 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2678641-12	MW 307-22 SS2 2.5-4.5									
Sampled By:	CLIENT on 11-JAN-22 @ 14:00									
Matrix:	SOIL						#1	#2	#3	
Polycyclic Aromatic Hydrocarbons										
	Surrogate: d14-Terphenyl	95.7		50-140	%	17-JAN-22				
L2678641-13	MW 307-22 SS3 5-7									
Sampled By:	CLIENT on 11-JAN-22 @ 14:15									
Matrix:	SOIL						#1	#2	#3	
Physical Tests										
	% Moisture	15.5		0.25	%	15-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	19-JAN-22	1.3	40	7.5	
	Arsenic (As)	6.6		1.0	ug/g	19-JAN-22	18	18	18	
	Barium (Ba)	86.1		1.0	ug/g	19-JAN-22	220	670	390	
	Beryllium (Be)	0.71		0.50	ug/g	19-JAN-22	2.5	8	4	
	Boron (B)	8.0		5.0	ug/g	19-JAN-22	36	120	120	
	Cadmium (Cd)	<0.50		0.50	ug/g	19-JAN-22	1.2	1.9	1.2	
	Chromium (Cr)	22.7		1.0	ug/g	19-JAN-22	70	160	160	
	Cobalt (Co)	11.2		1.0	ug/g	19-JAN-22	21	80	22	
	Copper (Cu)	36.2		1.0	ug/g	19-JAN-22	92	230	140	
	Lead (Pb)	30.7		1.0	ug/g	19-JAN-22	120	120	120	
	Molybdenum (Mo)	<1.0		1.0	ug/g	19-JAN-22	2	40	6.9	
	Nickel (Ni)	23.6		1.0	ug/g	19-JAN-22	82	270	100	
	Selenium (Se)	<1.0		1.0	ug/g	19-JAN-22	1.5	5.5	2.4	
	Silver (Ag)	<0.20		0.20	ug/g	19-JAN-22	0.5	40	20	
	Thallium (Tl)	<0.50		0.50	ug/g	19-JAN-22	1	3.3	1	
	Uranium (U)	<1.0		1.0	ug/g	19-JAN-22	2.5	33	23	
	Vanadium (V)	33.4		1.0	ug/g	19-JAN-22	86	86	86	
	Zinc (Zn)	74.1		5.0	ug/g	19-JAN-22	290	340	340	
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02	
	Ethylbenzene	<0.018		0.018	ug/g	18-JAN-22	0.05	1.9	1.9	
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99	
	o-Xylene	<0.020		0.020	ug/g	18-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	18-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	18-JAN-22	0.05	3	0.9	
	Surrogate: 4-Bromofluorobenzene	96.2		50-140	%	18-JAN-22				
	Surrogate: 1,4-Difluorobenzene	99.8		50-140	%	18-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25	
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25	
	F2 (C10-C16)	<10		10	ug/g	19-JAN-22	10	26	10	
	F3 (C16-C34)	<50		50	ug/g	19-JAN-22	240	1700	300	
	F4 (C34-C50)	<50		50	ug/g	19-JAN-22	120	3300	2800	
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	19-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	19-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	93.7		60-140	%	19-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	87.4		60-140	%	18-JAN-22				

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-14	MW 306-22 SS1 0-2								
Sampled By:	CLIENT on 11-JAN-22 @ 14:30								
Matrix:	SOIL								
Physical Tests									
	% Moisture	13.3		0.25	%	15-JAN-22			
	pH	7.84		0.10	pH units	18-JAN-22			
Metals									
	Antimony (Sb)	1.2		1.0	ug/g	19-JAN-22	1.3	40	7.5
	Arsenic (As)	7.0		1.0	ug/g	19-JAN-22	18	18	18
	Barium (Ba)	94.5		1.0	ug/g	19-JAN-22	220	670	390
	Beryllium (Be)	0.69		0.50	ug/g	19-JAN-22	2.5	8	4
	Boron (B)	12.6		5.0	ug/g	19-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	19-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	22.4		1.0	ug/g	19-JAN-22	70	160	160
	Cobalt (Co)	10.2		1.0	ug/g	19-JAN-22	21	80	22
	Copper (Cu)	40.1		1.0	ug/g	19-JAN-22	92	230	140
	Lead (Pb)	75.9		1.0	ug/g	19-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	19-JAN-22	2	40	6.9
	Nickel (Ni)	22.0		1.0	ug/g	19-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	19-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	19-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	19-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	19-JAN-22	2.5	33	23
	Vanadium (V)	31.4		1.0	ug/g	19-JAN-22	86	86	86
	Zinc (Zn)	95.8		5.0	ug/g	19-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	0.018		0.018	ug/g	18-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	0.031		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	0.079		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	0.110		0.050	ug/g	18-JAN-22	*0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	94.4		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	100.0		50-140	%	18-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F2 (C10-C16)	<50	DLM	50	ug/g	19-JAN-22	**10	**26	**10
	F2-Naphth	<50		50	ug/g	19-JAN-22			
	F3 (C16-C34)	328		250	ug/g	19-JAN-22	*240	1700	*300
	F3-PAH	<250		250	ug/g	19-JAN-22			
	F4 (C34-C50)	<250	DLM	250	ug/g	19-JAN-22	**120	3300	2800
	F4G-SG (GHH-Silica)	260		250	ug/g	18-JAN-22	*120	3300	2800
	Total Hydrocarbons (C6-C50)	<360		360	ug/g	19-JAN-22			
	Chrom. to baseline at nC50	NO			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	97.3		60-140	%	19-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	85.4		60-140	%	18-JAN-22			
Polycyclic Aromatic Hydrocarbons									
	Acenaphthene	1.30		0.050	ug/g	17-JAN-22	*0.072	15	*0.093
	Acenaphthylene	0.051		0.050	ug/g	17-JAN-22	0.093	0.093	14

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-14	MW 306-22 SS1 0-2								
Sampled By:	CLIENT on 11-JAN-22 @ 14:30								
Matrix:	SOIL								
Polycyclic Aromatic Hydrocarbons									
	Anthracene	2.31		0.050	ug/g	17-JAN-22	*0.16	*0.16	*0.16
	Benzo(a)anthracene	6.83		0.050	ug/g	17-JAN-22	*0.36	*1	*0.5
	Benzo(a)pyrene	7.33		0.050	ug/g	17-JAN-22	*0.3	*0.7	*0.57
	Benzo(b&j)fluoranthene	8.18		0.050	ug/g	17-JAN-22	*0.47	*7	*5.7
	Benzo(g,h,i)perylene	4.18		0.050	ug/g	17-JAN-22	*0.68	13	6.6
	Benzo(k)fluoranthene	3.58		0.050	ug/g	17-JAN-22	*0.48	7	5.7
	Chrysene	7.11		0.050	ug/g	17-JAN-22	*2.8	14	*7
	Dibenz(a,h)anthracene	1.02		0.050	ug/g	17-JAN-22	*0.1	*0.7	*0.57
	Fluoranthene	19.4	DLHC	0.50	ug/g	17-JAN-22	*0.56	70	*0.69
	Fluorene	1.40		0.050	ug/g	17-JAN-22	*0.12	6.8	6.8
	Indeno(1,2,3-cd)pyrene	3.89		0.050	ug/g	17-JAN-22	*0.23	*0.76	*0.38
	1+2-Methylnaphthalenes	0.578		0.042	ug/g	17-JAN-22	0.59	8.7	0.92
	1-Methylnaphthalene	0.245		0.030	ug/g	17-JAN-22	0.59	8.7	0.92
	2-Methylnaphthalene	0.333		0.030	ug/g	17-JAN-22	0.59	8.7	0.92
	Naphthalene	0.952		0.013	ug/g	17-JAN-22	*0.09	1.8	*0.59
	Phenanthrene	14.1	DLHC	0.46	ug/g	17-JAN-22	*0.69	*12	*6.2
	Pyrene	15.9	DLHC	0.50	ug/g	17-JAN-22	*1	70	70
	Surrogate: 2-Fluorobiphenyl	90.9		50-140	%	17-JAN-22			
	Surrogate: d14-Terphenyl	88.8		50-140	%	17-JAN-22			
L2678641-15	MW 306-22 SS101 0-2								
Sampled By:	CLIENT on 11-JAN-22 @ 15:00								
Matrix:	SOIL								
Physical Tests									
	% Moisture	15.5		0.25	%	15-JAN-22			
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	18-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	18-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	96.6		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	101.0		50-140	%	18-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	19-JAN-22	10	26	10
	F2-Naphth	<10		10	ug/g	19-JAN-22			
	F3 (C16-C34)	<50		50	ug/g	19-JAN-22	240	1700	300
	F3-PAH	<50		50	ug/g	19-JAN-22			
	F4 (C34-C50)	<50		50	ug/g	19-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	19-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	90.8		60-140	%	19-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	84.9		60-140	%	18-JAN-22			

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-15	MW 306-22 SS101 0-2								
Sampled By:	CLIENT on 11-JAN-22 @ 15:00								
Matrix:	SOIL								
Polycyclic Aromatic Hydrocarbons									
	Acenaphthene	<0.050		0.050	ug/g	17-JAN-22	0.072	15	0.093
	Acenaphthylene	<0.050		0.050	ug/g	17-JAN-22	0.093	0.093	14
	Anthracene	<0.050		0.050	ug/g	17-JAN-22	0.16	0.16	0.16
	Benzo(a)anthracene	0.064		0.050	ug/g	17-JAN-22	0.36	1	0.5
	Benzo(a)pyrene	0.074		0.050	ug/g	17-JAN-22	0.3	0.7	0.57
	Benzo(b&j)fluoranthene	0.094		0.050	ug/g	17-JAN-22	0.47	7	5.7
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	17-JAN-22	0.68	13	6.6
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	17-JAN-22	0.48	7	5.7
	Chrysene	0.072		0.050	ug/g	17-JAN-22	2.8	14	7
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	17-JAN-22	0.1	0.7	0.57
	Fluoranthene	0.163		0.050	ug/g	17-JAN-22	0.56	70	0.69
	Fluorene	<0.050		0.050	ug/g	17-JAN-22	0.12	6.8	6.8
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	17-JAN-22	0.23	0.76	0.38
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	17-JAN-22	0.59	8.7	0.92
	1-Methylnaphthalene	<0.030		0.030	ug/g	17-JAN-22	0.59	8.7	0.92
	2-Methylnaphthalene	<0.030		0.030	ug/g	17-JAN-22	0.59	8.7	0.92
	Naphthalene	<0.013		0.013	ug/g	17-JAN-22	0.09	1.8	0.59
	Phenanthrene	0.108		0.046	ug/g	17-JAN-22	0.69	12	6.2
	Pyrene	0.135		0.050	ug/g	17-JAN-22	1	70	70
	Surrogate: 2-Fluorobiphenyl	85.6		50-140	%	17-JAN-22			
	Surrogate: d14-Terphenyl	89.0		50-140	%	17-JAN-22			
L2678641-16	MW 306-22 SS2 2.5-4.5								
Sampled By:	CLIENT on 11-JAN-22 @ 15:15								
Matrix:	SOIL								
Physical Tests									
	% Moisture	13.8		0.25	%	15-JAN-22			
	pH	7.57		0.10	pH units	18-JAN-22			
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	18-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	18-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	105.0		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	108.7		50-140	%	18-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	19-JAN-22	10	26	10
	F3 (C16-C34)	<50		50	ug/g	19-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	19-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	19-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	91.8		60-140	%	19-JAN-22			

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-16	MW 306-22 SS2 2.5-4.5								
Sampled By:	CLIENT on 11-JAN-22 @ 15:15								
Matrix:	SOIL								
Hydrocarbons									
	Surrogate: 3,4-Dichlorotoluene	67.2		60-140	%	18-JAN-22			
L2678641-17	MW 306-22 SS3 5-7								
Sampled By:	CLIENT on 11-JAN-22 @ 15:30								
Matrix:	SOIL								
Physical Tests									
	% Moisture	14.7		0.25	%	15-JAN-22			
	pH	7.87		0.10	pH units	18-JAN-22			
Metals									
	Antimony (Sb)	1.2		1.0	ug/g	19-JAN-22	1.3	40	7.5
	Arsenic (As)	7.0		1.0	ug/g	19-JAN-22	18	18	18
	Barium (Ba)	96.6		1.0	ug/g	19-JAN-22	220	670	390
	Beryllium (Be)	0.67		0.50	ug/g	19-JAN-22	2.5	8	4
	Boron (B)	13.4		5.0	ug/g	19-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	19-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	22.9		1.0	ug/g	19-JAN-22	70	160	160
	Cobalt (Co)	9.7		1.0	ug/g	19-JAN-22	21	80	22
	Copper (Cu)	40.5		1.0	ug/g	19-JAN-22	92	230	140
	Lead (Pb)	76.1		1.0	ug/g	19-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	19-JAN-22	2	40	6.9
	Nickel (Ni)	21.5		1.0	ug/g	19-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	19-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	19-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	19-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	19-JAN-22	2.5	33	23
	Vanadium (V)	31.2		1.0	ug/g	19-JAN-22	86	86	86
	Zinc (Zn)	102		5.0	ug/g	19-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	0.0082		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	4.30		0.018	ug/g	18-JAN-22	*0.05	*1.9	*1.9
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	6.22		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	17.6		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	23.8		0.050	ug/g	18-JAN-22	*0.05	*3	*0.9
	Surrogate: 4-Bromofluorobenzene	95.3		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	98.2		50-140	%	18-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	174		5.0	ug/g	18-JAN-22	*25	*25	*25
	F1-BTEX	146		5.0	ug/g	19-JAN-22	*25	*25	*25
	F2 (C10-C16)	<50	DLM	50	ug/g	19-JAN-22	**10	**26	**10
	F2-Naphth	<50		50	ug/g	19-JAN-22			
	F3 (C16-C34)	511		250	ug/g	19-JAN-22	*240	1700	*300
	F3-PAH	300		250	ug/g	19-JAN-22			
	F4 (C34-C50)	<250	DLM	250	ug/g	19-JAN-22	**120	3300	2800
	F4G-SG (GHH-Silica)	430		250	ug/g	18-JAN-22	*120	3300	2800
	Total Hydrocarbons (C6-C50)	680		360	ug/g	19-JAN-22			

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-17	MW 306-22 SS3 5-7								
Sampled By:	CLIENT on 11-JAN-22 @ 15:30								
Matrix:	SOIL								
Hydrocarbons									
	Chrom. to baseline at nC50	NO			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	94.2		60-140	%	19-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	89.9		60-140	%	18-JAN-22			
Polycyclic Aromatic Hydrocarbons									
	Acenaphthene	3.70		0.050	ug/g	17-JAN-22	*0.072	15	*0.093
	Acenaphthylene	0.130		0.050	ug/g	17-JAN-22	*0.093	*0.093	14
	Anthracene	6.11		0.050	ug/g	17-JAN-22	*0.16	*0.16	*0.16
	Benzo(a)anthracene	17.8	DLHC	0.50	ug/g	17-JAN-22	*0.36	*1	*0.5
	Benzo(a)pyrene	20.6	DLHC	0.50	ug/g	17-JAN-22	*0.3	*0.7	*0.57
	Benzo(b&j)fluoranthene	23.9	DLHC	0.50	ug/g	17-JAN-22	*0.47	*7	*5.7
	Benzo(g,h,i)perylene	10.5		0.050	ug/g	17-JAN-22	*0.68	13	*6.6
	Benzo(k)fluoranthene	7.94	DUPH	0.050	ug/g	17-JAN-22	*0.48	*7	*5.7
	Chrysene	18.4	DLHC	0.50	ug/g	17-JAN-22	*2.8	*14	*7
	Dibenz(a,h)anthracene	2.70		0.050	ug/g	17-JAN-22	*0.1	*0.7	*0.57
	Fluoranthene	49.9	DLHC	0.50	ug/g	17-JAN-22	*0.56	70	*0.69
	Fluorene	4.05		0.050	ug/g	17-JAN-22	*0.12	6.8	6.8
	Indeno(1,2,3-cd)pyrene	10.3		0.050	ug/g	17-JAN-22	*0.23	*0.76	*0.38
	1+2-Methylnaphthalenes	1.70		0.042	ug/g	17-JAN-22	*0.59	8.7	*0.92
	1-Methylnaphthalene	0.689		0.030	ug/g	17-JAN-22	*0.59	8.7	0.92
	2-Methylnaphthalene	1.01		0.030	ug/g	17-JAN-22	*0.59	8.7	*0.92
	Naphthalene	3.03		0.013	ug/g	17-JAN-22	*0.09	*1.8	*0.59
	Phenanthrene	37.9	DLHC	0.46	ug/g	17-JAN-22	*0.69	*12	*6.2
	Pyrene	40.7	DLHC	0.50	ug/g	17-JAN-22	*1	70	70
	Surrogate: 2-Fluorobiphenyl	91.9		50-140	%	17-JAN-22			
	Surrogate: d14-Terphenyl	87.5		50-140	%	17-JAN-22			

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-18	MW 319-22 SS1 0-2								
Sampled By:	CLIENT on 12-JAN-22 @ 09:00								
Matrix:	SOIL								
Physical Tests									
	% Moisture	14.2		0.25	%	15-JAN-22			
	pH	9.66		0.10	pH units	18-JAN-22			
Metals									
	Antimony (Sb)	1.3		1.0	ug/g	19-JAN-22	1.3	40	7.5
	Arsenic (As)	6.4		1.0	ug/g	19-JAN-22	18	18	18
	Barium (Ba)	86.0		1.0	ug/g	19-JAN-22	220	670	390
	Beryllium (Be)	0.57		0.50	ug/g	19-JAN-22	2.5	8	4
	Boron (B)	11.7		5.0	ug/g	19-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	19-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	19.0		1.0	ug/g	19-JAN-22	70	160	160
	Cobalt (Co)	7.1		1.0	ug/g	19-JAN-22	21	80	22
	Copper (Cu)	34.6		1.0	ug/g	19-JAN-22	92	230	140
	Lead (Pb)	51.0		1.0	ug/g	19-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	19-JAN-22	2	40	6.9
	Nickel (Ni)	20.2		1.0	ug/g	19-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	19-JAN-22	1.5	5.5	2.4

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

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Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-18	MW 319-22 SS1 0-2								
Sampled By:	CLIENT on 12-JAN-22 @ 09:00								
Matrix:	SOIL								
Metals									
	Silver (Ag)	<0.20		0.20	ug/g	19-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	19-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	19-JAN-22	2.5	33	23
	Vanadium (V)	29.9		1.0	ug/g	19-JAN-22	86	86	86
	Zinc (Zn)	95.0		5.0	ug/g	19-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	18-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	18-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	98.6		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	102.1		50-140	%	18-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F2 (C10-C16)	<100	DLM	100	ug/g	19-JAN-22	**10	**26	**10
	F3 (C16-C34)	944		500	ug/g	19-JAN-22	*240	1700	*300
	F4 (C34-C50)	2810		500	ug/g	19-JAN-22	*120	3300	*2800
	F4G-SG (GHH-Silica)	7450		250	ug/g	18-JAN-22	*120	*3300	*2800
	Total Hydrocarbons (C6-C50)	3750		710	ug/g	19-JAN-22			
	Chrom. to baseline at nC50	NO			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	96.1		60-140	%	19-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	64.9		60-140	%	18-JAN-22			
L2678641-19	MW 319-22 SS101 0-2								
Sampled By:	CLIENT on 12-JAN-22 @ 09:30								
Matrix:	SOIL								
Physical Tests									
	% Moisture	7.42		0.25	%	15-JAN-22			
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	18-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	18-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	97.5		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	101.6		50-140	%	18-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F2 (C10-C16)	<100	DLM	100	ug/g	19-JAN-22	**10	**26	**10
	F3 (C16-C34)	618		500	ug/g	19-JAN-22	*240	1700	*300
	F4 (C34-C50)	1870		500	ug/g	19-JAN-22	*120	3300	2800

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

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Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-19	MW 319-22 SS101 0-2								
Sampled By:	CLIENT on 12-JAN-22 @ 09:30								
Matrix:	SOIL								
Hydrocarbons									
	F4G-SG (GHH-Silica)	4470		250	ug/g	18-JAN-22	*120	*3300	*2800
	Total Hydrocarbons (C6-C50)	2490		710	ug/g	19-JAN-22			
	Chrom. to baseline at nC50	NO			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	97.1		60-140	%	19-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	79.4		60-140	%	18-JAN-22			
L2678641-20	MW 319-22 SS2 2.5-4.5								
Sampled By:	CLIENT on 12-JAN-22 @ 10:00								
Matrix:	SOIL								
Physical Tests									
	Conductivity	0.227		0.0040	mS/cm	20-JAN-22	0.57	1.4	0.7
	% Moisture	8.78		0.25	%	15-JAN-22			
Saturated Paste Extractables									
	SAR	1.00		0.10	SAR	19-JAN-22	2.4	12	5
	Calcium (Ca)	17.0		0.50	mg/L	19-JAN-22			
	Magnesium (Mg)	5.00		0.50	mg/L	19-JAN-22			
	Sodium (Na)	18.3		0.50	mg/L	19-JAN-22			
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	19-JAN-22	1.3	40	7.5
	Arsenic (As)	5.7		1.0	ug/g	19-JAN-22	18	18	18
	Barium (Ba)	84.1		1.0	ug/g	19-JAN-22	220	670	390
	Beryllium (Be)	0.66		0.50	ug/g	19-JAN-22	2.5	8	4
	Boron (B)	13.6		5.0	ug/g	19-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	19-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	23.2		1.0	ug/g	19-JAN-22	70	160	160
	Cobalt (Co)	10.9		1.0	ug/g	19-JAN-22	21	80	22
	Copper (Cu)	38.2		1.0	ug/g	19-JAN-22	92	230	140
	Lead (Pb)	11.7		1.0	ug/g	19-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	19-JAN-22	2	40	6.9
	Nickel (Ni)	22.2		1.0	ug/g	19-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	19-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	19-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	19-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	19-JAN-22	2.5	33	23
	Vanadium (V)	32.4		1.0	ug/g	19-JAN-22	86	86	86
	Zinc (Zn)	53.4		5.0	ug/g	19-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	18-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	18-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	99.5		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	103.6		50-140	%	18-JAN-22			
Hydrocarbons									

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

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Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-20	MW 319-22 SS2 2.5-4.5								
Sampled By:	CLIENT on 12-JAN-22 @ 10:00								
Matrix:	SOIL								
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	19-JAN-22	10	26	10
	F3 (C16-C34)	<50		50	ug/g	19-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	19-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	19-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	89.8		60-140	%	19-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	67.7		60-140	%	18-JAN-22			
L2678641-21	MW 319-22 SS3 5-7								
Sampled By:	CLIENT on 12-JAN-22 @ 10:30								
Matrix:	SOIL								
Physical Tests									
	pH	7.71		0.10	pH units	19-JAN-22			
L2678641-23	MW 319-22 SS5 10-12								
Sampled By:	CLIENT on 12-JAN-22 @ 11:30								
Matrix:	SOIL								
Physical Tests									
	% Moisture	9.18		0.25	%	15-JAN-22			
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	18-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	18-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	93.3		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	97.6		50-140	%	18-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	19-JAN-22	10	26	10
	F3 (C16-C34)	<50		50	ug/g	19-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	19-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	19-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	63.7		60-140	%	19-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	76.9		60-140	%	18-JAN-22			
L2678641-24	MW 319-22 SS6 15-17								
Sampled By:	CLIENT on 12-JAN-22 @ 12:00								
Matrix:	SOIL								
Physical Tests									
	% Moisture	10.3		0.25	%	15-JAN-22			

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-24	MW 319-22 SS6 15-17								
Sampled By:	CLIENT on 12-JAN-22 @ 12:00								
Matrix:	SOIL								
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	19-JAN-22	1.3	40	7.5
	Arsenic (As)	4.5		1.0	ug/g	19-JAN-22	18	18	18
	Barium (Ba)	47.5		1.0	ug/g	19-JAN-22	220	670	390
	Beryllium (Be)	0.50		0.50	ug/g	19-JAN-22	2.5	8	4
	Boron (B)	11.7		5.0	ug/g	19-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	19-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	17.6		1.0	ug/g	19-JAN-22	70	160	160
	Cobalt (Co)	8.2		1.0	ug/g	19-JAN-22	21	80	22
	Copper (Cu)	22.3		1.0	ug/g	19-JAN-22	92	230	140
	Lead (Pb)	15.6		1.0	ug/g	19-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	19-JAN-22	2	40	6.9
	Nickel (Ni)	17.5		1.0	ug/g	19-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	19-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	19-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	19-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	19-JAN-22	2.5	33	23
	Vanadium (V)	27.0		1.0	ug/g	19-JAN-22	86	86	86
	Zinc (Zn)	38.8		5.0	ug/g	19-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	18-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	18-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	100.3		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	103.3		50-140	%	18-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	19-JAN-22	10	26	10
	F3 (C16-C34)	<50		50	ug/g	19-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	19-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	19-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	88.2		60-140	%	19-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	77.8		60-140	%	18-JAN-22			
L2678641-25	MW 319-22 SS7 20-22								
Sampled By:	CLIENT on 12-JAN-22 @ 12:30								
Matrix:	SOIL								
Physical Tests									
	% Moisture	16.2		0.25	%	15-JAN-22			
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	18-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	18-JAN-22	0.05	1.9	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:

Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2678641-25	MW 319-22 SS7 20-22								
Sampled By:	CLIENT on 12-JAN-22 @ 12:30								
Matrix:	SOIL								
Volatile Organic Compounds									
	Toluene	<0.080		0.080	ug/g	18-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	18-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	18-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	18-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	91.9		50-140	%	18-JAN-22			
	Surrogate: 1,4-Difluorobenzene	95.5		50-140	%	18-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	18-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	19-JAN-22	10	26	10
	F3 (C16-C34)	56		50	ug/g	19-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	19-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	19-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	19-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	92.6		60-140	%	19-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	70.8		60-140	%	18-JAN-22			

** 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 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
DUPH	Duplicate results outside ALS DQO, due to sample heterogeneity.
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***
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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

CHLORDANE-T-CALC-WT	Soil	Chlordane Total sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

DDD-DDE-DDT-CALC-WT	Soil	DDD, DDE, DDT sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

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).

ENDOSULFAN-T-CALC-WT	Soil	Endosulfan Total sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

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 and as of November 30, 2020), 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 and as of November 30, 2020), 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 and as of November 30, 2020), 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 200.2/6020B (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)
OCP-TRACE-WT	Soil	Low level OC Pesticides in Soil/Sediment	SW846 8270

A 5g representative sub-sample of the soil sample is mixed with methanol and extracted with toluene. An aliquot is taken and analyzed by 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).

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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

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 and as of November 30, 2020), 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:

1 2 3

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: L2678641 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Soil**							
Batch R5698421								
WG3685589-9 DUP		**WG3685589-8**						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	18-JAN-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	18-JAN-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	18-JAN-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-JAN-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	18-JAN-22
WG3685589-7 LCS								
Benzene			90.1		%		70-130	18-JAN-22
Ethylbenzene			88.6		%		70-130	18-JAN-22
m+p-Xylenes			88.7		%		70-130	18-JAN-22
o-Xylene			89.0		%		70-130	18-JAN-22
Toluene			91.3		%		70-130	18-JAN-22
WG3685589-6 MB								
Benzene			<0.0068		ug/g		0.0068	18-JAN-22
Ethylbenzene			<0.018		ug/g		0.018	18-JAN-22
m+p-Xylenes			<0.030		ug/g		0.03	18-JAN-22
o-Xylene			<0.020		ug/g		0.02	18-JAN-22
Toluene			<0.080		ug/g		0.08	18-JAN-22
Surrogate: 1,4-Difluorobenzene			101.9		%		50-140	18-JAN-22
Surrogate: 4-Bromofluorobenzene			98.7		%		50-140	18-JAN-22
WG3685589-10 MS		**WG3685589-8**						
Benzene			99.9		%		60-140	18-JAN-22
Ethylbenzene			93.7		%		60-140	18-JAN-22
m+p-Xylenes			95.2		%		60-140	18-JAN-22
o-Xylene			94.5		%		60-140	18-JAN-22
Toluene			98.7		%		60-140	18-JAN-22
EC-WT	**Soil**							
Batch R5701616								
WG3686574-4 DUP		**WG3686574-3**						
Conductivity		0.0878	0.0867		mS/cm	1.3	20	20-JAN-22
WG3686574-2 IRM		**WT SAR4**						
Conductivity			113.1		%		70-130	20-JAN-22
WG3686927-1 LCS								
Conductivity			101.7		%		90-110	20-JAN-22
WG3686574-1 MB								
Conductivity			<0.0040		mS/cm		0.004	20-JAN-22

Quality Control Report

Workorder: L2678641 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Soil**							
Batch R5698421								
WG3685589-6 MB								
F1 (C6-C10)			<5.0		ug/g		5	18-JAN-22
Surrogate: 3,4-Dichlorotoluene			108.4		%		60-140	18-JAN-22
F2-F4-511-WT	**Soil**							
Batch R5700598								
WG3685880-3 DUP		**WG3685880-5**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	19-JAN-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	19-JAN-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	19-JAN-22
WG3685880-2 LCS								
F2 (C10-C16)			107.3		%		80-120	19-JAN-22
F3 (C16-C34)			102.5		%		80-120	19-JAN-22
F4 (C34-C50)			81.8		%		80-120	19-JAN-22
WG3685880-1 MB								
F2 (C10-C16)			<10		ug/g		10	19-JAN-22
F3 (C16-C34)			<50		ug/g		50	19-JAN-22
F4 (C34-C50)			<50		ug/g		50	19-JAN-22
Surrogate: 2-Bromobenzotrifluoride			94.6		%		60-140	19-JAN-22
WG3685880-4 MS		**WG3685880-5**						
F2 (C10-C16)			98.3		%		60-140	19-JAN-22
F3 (C16-C34)			98.8		%		60-140	19-JAN-22
F4 (C34-C50)			105.0		%		60-140	19-JAN-22
Batch R5701096								
WG3685881-3 DUP		**WG3685881-5**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	19-JAN-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	19-JAN-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	19-JAN-22
WG3685881-2 LCS								
F2 (C10-C16)			94.3		%		80-120	19-JAN-22
F3 (C16-C34)			88.9		%		80-120	19-JAN-22
F4 (C34-C50)			88.5		%		80-120	19-JAN-22
WG3685881-1 MB								
F2 (C10-C16)			<10		ug/g		10	19-JAN-22
F3 (C16-C34)			<50		ug/g		50	19-JAN-22
F4 (C34-C50)			<50		ug/g		50	19-JAN-22
Surrogate: 2-Bromobenzotrifluoride			93.2		%		60-140	19-JAN-22

Quality Control Report

Workorder: L2678641 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	**Soil**							
Batch R5701096								
WG3685881-4 MS		**WG3685881-5**						
F2 (C10-C16)			97.0		%		60-140	19-JAN-22
F3 (C16-C34)			94.4		%		60-140	19-JAN-22
F4 (C34-C50)			101.3		%		60-140	19-JAN-22
F4G-ADD-511-WT	**Soil**							
Batch R5701420								
WG3686878-2 LCS								
F4G-SG (GHH-Silica)			88.2		%		60-140	18-JAN-22
WG3686878-1 MB								
F4G-SG (GHH-Silica)			<250		ug/g		250	18-JAN-22
MET-200.2-CCMS-WT	**Soil**							
Batch R5700997								
WG3686522-9 CRM		**WT-SS-2**						
Antimony (Sb)			106.6		%		70-130	19-JAN-22
Arsenic (As)			110.7		%		70-130	19-JAN-22
Barium (Ba)			121.7		%		70-130	19-JAN-22
Beryllium (Be)			109.9		%		70-130	19-JAN-22
Boron (B)			9.6		mg/kg		3.5-13.5	19-JAN-22
Cadmium (Cd)			106.4		%		70-130	19-JAN-22
Chromium (Cr)			105.0		%		70-130	19-JAN-22
Cobalt (Co)			109.5		%		70-130	19-JAN-22
Copper (Cu)			110.4		%		70-130	19-JAN-22
Lead (Pb)			105.8		%		70-130	19-JAN-22
Molybdenum (Mo)			114.0		%		70-130	19-JAN-22
Nickel (Ni)			109.9		%		70-130	19-JAN-22
Selenium (Se)			0.16		mg/kg		0-0.34	19-JAN-22
Silver (Ag)			94.9		%		70-130	19-JAN-22
Thallium (Tl)			0.088		mg/kg		0.029-0.129	19-JAN-22
Uranium (U)			106.5		%		70-130	19-JAN-22
Vanadium (V)			108.1		%		70-130	19-JAN-22
Zinc (Zn)			108.3		%		70-130	19-JAN-22
WG3686522-13 DUP		**WG3686522-12**						
Antimony (Sb)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	19-JAN-22
Arsenic (As)		2.07	1.86		ug/g	10	30	19-JAN-22
Barium (Ba)		36.4	35.4		ug/g	2.8	40	19-JAN-22

Quality Control Report

Workorder: L2678641 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5700997								
WG3686522-13 DUP		**WG3686522-12**						
Beryllium (Be)		0.30	0.28		ug/g	5.0	30	19-JAN-22
Boron (B)		5.8	5.5		ug/g	6.3	30	19-JAN-22
Cadmium (Cd)		0.072	0.076		ug/g	4.9	30	19-JAN-22
Chromium (Cr)		12.1	11.3		ug/g	6.4	30	19-JAN-22
Cobalt (Co)		4.50	4.14		ug/g	8.4	30	19-JAN-22
Copper (Cu)		9.65	9.18		ug/g	5.0	30	19-JAN-22
Lead (Pb)		7.90	8.06		ug/g	2.0	40	19-JAN-22
Molybdenum (Mo)		0.30	0.27		ug/g	11	40	19-JAN-22
Nickel (Ni)		8.35	7.97		ug/g	4.7	30	19-JAN-22
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	19-JAN-22
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	19-JAN-22
Thallium (Tl)		0.092	0.087		ug/g	6.2	30	19-JAN-22
Uranium (U)		0.533	0.427		ug/g	22	30	19-JAN-22
Vanadium (V)		24.9	23.2		ug/g	7.2	30	19-JAN-22
Zinc (Zn)		28.9	27.9		ug/g	3.4	30	19-JAN-22
WG3686522-11 LCS								
Antimony (Sb)			103.6		%		80-120	19-JAN-22
Arsenic (As)			112.4		%		80-120	19-JAN-22
Barium (Ba)			112.5		%		80-120	19-JAN-22
Beryllium (Be)			107.0		%		80-120	19-JAN-22
Boron (B)			106.8		%		80-120	19-JAN-22
Cadmium (Cd)			105.7		%		80-120	19-JAN-22
Chromium (Cr)			109.3		%		80-120	19-JAN-22
Cobalt (Co)			109.2		%		80-120	19-JAN-22
Copper (Cu)			108.5		%		80-120	19-JAN-22
Lead (Pb)			108.4		%		80-120	19-JAN-22
Molybdenum (Mo)			110.0		%		80-120	19-JAN-22
Nickel (Ni)			106.7		%		80-120	19-JAN-22
Selenium (Se)			109.6		%		80-120	19-JAN-22
Silver (Ag)			92.2		%		80-120	19-JAN-22
Thallium (Tl)			103.9		%		80-120	19-JAN-22
Uranium (U)			110.1		%		80-120	19-JAN-22
Vanadium (V)			111.3		%		80-120	19-JAN-22

Quality Control Report

Workorder: L2678641 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5700997								
WG3686522-11 LCS								
Zinc (Zn)			107.5		%		80-120	19-JAN-22
WG3686522-8 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	19-JAN-22
Arsenic (As)			<0.10		mg/kg		0.1	19-JAN-22
Barium (Ba)			<0.50		mg/kg		0.5	19-JAN-22
Beryllium (Be)			<0.10		mg/kg		0.1	19-JAN-22
Boron (B)			<5.0		mg/kg		5	19-JAN-22
Cadmium (Cd)			<0.020		mg/kg		0.02	19-JAN-22
Chromium (Cr)			<0.50		mg/kg		0.5	19-JAN-22
Cobalt (Co)			<0.10		mg/kg		0.1	19-JAN-22
Copper (Cu)			<0.50		mg/kg		0.5	19-JAN-22
Lead (Pb)			<0.50		mg/kg		0.5	19-JAN-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	19-JAN-22
Nickel (Ni)			<0.50		mg/kg		0.5	19-JAN-22
Selenium (Se)			<0.20		mg/kg		0.2	19-JAN-22
Silver (Ag)			<0.10		mg/kg		0.1	19-JAN-22
Thallium (Tl)			<0.050		mg/kg		0.05	19-JAN-22
Uranium (U)			<0.050		mg/kg		0.05	19-JAN-22
Vanadium (V)			<0.20		mg/kg		0.2	19-JAN-22
Zinc (Zn)			<2.0		mg/kg		2	19-JAN-22
MOISTURE-WT	**Soil**							
Batch R5696977								
WG3685238-3 DUP		**L2678852-2**						
% Moisture		14.7	13.8		%	5.9	20	15-JAN-22
WG3685238-2 LCS								
% Moisture			100.1		%		90-110	15-JAN-22
WG3685238-1 MB								
% Moisture			<0.25		%		0.25	15-JAN-22
OCP-TRACE-WT	**Soil**							
Batch R5700578								
WG3685906-3 DUP		**WG3685906-5**						
Aldrin		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	21-JAN-22
a-chlordane		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
g-chlordane		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22

Quality Control Report

Workorder: L2678641 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT	**Soil**							
Batch R5700578								
WG3685906-3 DUP		**WG3685906-5**						
o,p-DDD		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
pp-DDD		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
o,p-DDE		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
pp-DDE		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
op-DDT		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
pp-DDT		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
Dieldrin		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	21-JAN-22
alpha-Endosulfan		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
beta-Endosulfan		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
Endrin		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	21-JAN-22
Heptachlor		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	21-JAN-22
Heptachlor Epoxide		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	21-JAN-22
Hexachlorobenzene		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	21-JAN-22
Hexachlorobutadiene		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	21-JAN-22
Hexachloroethane		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	21-JAN-22
Lindane		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	21-JAN-22
Methoxychlor		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	21-JAN-22
WG3685906-2 LCS								
Aldrin			87.9		%		50-150	19-JAN-22
a-chlordane			85.0		%		50-150	19-JAN-22
g-chlordane			88.4		%		50-150	19-JAN-22
o,p-DDD			81.5		%		50-150	19-JAN-22
pp-DDD			86.9		%		50-150	19-JAN-22
o,p-DDE			78.5		%		50-150	19-JAN-22
pp-DDE			86.4		%		50-150	19-JAN-22
op-DDT			80.8		%		50-150	19-JAN-22
pp-DDT			84.8		%		50-150	19-JAN-22
Dieldrin			86.4		%		50-150	19-JAN-22
alpha-Endosulfan			86.8		%		50-150	19-JAN-22
beta-Endosulfan			85.0		%		50-150	19-JAN-22
Endrin			74.2		%		50-150	19-JAN-22
Heptachlor			87.5		%		50-150	19-JAN-22
Heptachlor Epoxide			89.9		%		50-150	19-JAN-22

Quality Control Report

Workorder: L2678641 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT	**Soil**							
Batch R5700578								
WG3685906-2 LCS								
Hexachlorobenzene			83.3		%		50-150	19-JAN-22
Hexachlorobutadiene			79.3		%		50-150	19-JAN-22
Hexachloroethane			82.3		%		50-150	19-JAN-22
Lindane			83.7		%		50-150	19-JAN-22
Methoxychlor			96.2		%		50-150	19-JAN-22
WG3685906-1 MB								
Aldrin			<0.00020		ug/g		0.0002	19-JAN-22
a-chlordane			<0.00030		ug/g		0.0003	19-JAN-22
g-chlordane			<0.00030		ug/g		0.0003	19-JAN-22
o,p-DDD			<0.00030		ug/g		0.0003	19-JAN-22
pp-DDD			<0.00030		ug/g		0.0003	19-JAN-22
o,p-DDE			<0.00030		ug/g		0.0003	19-JAN-22
pp-DDE			<0.00030		ug/g		0.0003	19-JAN-22
op-DDT			<0.00030		ug/g		0.0003	19-JAN-22
pp-DDT			<0.00030		ug/g		0.0003	19-JAN-22
Dieldrin			<0.00020		ug/g		0.0002	19-JAN-22
alpha-Endosulfan			<0.00030		ug/g		0.0003	19-JAN-22
beta-Endosulfan			<0.00030		ug/g		0.0003	19-JAN-22
Endrin			<0.00050		ug/g		0.0005	19-JAN-22
Heptachlor			<0.00020		ug/g		0.0002	19-JAN-22
Heptachlor Epoxide			<0.00020		ug/g		0.0002	19-JAN-22
Hexachlorobenzene			<0.00050		ug/g		0.0005	19-JAN-22
Hexachlorobutadiene			<0.00050		ug/g		0.0005	19-JAN-22
Hexachloroethane			<0.00050		ug/g		0.0005	19-JAN-22
Lindane			<0.00020		ug/g		0.0002	19-JAN-22
Methoxychlor			<0.00050		ug/g		0.0005	19-JAN-22
Surrogate: Tetrachloro-m-xylene			89.8		%		50-150	19-JAN-22
Surrogate: Decachlorobiphenyl			108.3		%		50-150	19-JAN-22
WG3685906-4 MS		**WG3685906-5**						
Aldrin			87.5		%		50-150	21-JAN-22
a-chlordane			73.4		%		50-150	21-JAN-22
g-chlordane			76.6		%		50-150	21-JAN-22
o,p-DDD			73.1		%		50-150	21-JAN-22
pp-DDD			69.9		%		50-150	21-JAN-22

Quality Control Report

Workorder: L2678641 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT	**Soil**							
Batch R5700578								
WG3685906-4 MS		**WG3685906-5**						
o,p-DDE			68.3		%		50-150	21-JAN-22
pp-DDE			75.5		%		50-150	21-JAN-22
op-DDT			79.3		%		50-150	21-JAN-22
pp-DDT			84.7		%		50-150	21-JAN-22
Dieldrin			74.1		%		50-150	21-JAN-22
alpha-Endosulfan			78.1		%		50-150	21-JAN-22
beta-Endosulfan			75.5		%		50-150	21-JAN-22
Endrin			95.7		%		50-150	21-JAN-22
Heptachlor			87.0		%		50-150	21-JAN-22
Heptachlor Epoxide			76.0		%		50-150	21-JAN-22
Hexachlorobenzene			78.9		%		50-150	21-JAN-22
Hexachlorobutadiene			74.2		%		50-150	21-JAN-22
Hexachloroethane			63.7		%		50-150	21-JAN-22
Lindane			80.5		%		50-150	21-JAN-22
Methoxychlor			105.6		%		50-150	21-JAN-22
PAH-511-WT	**Soil**							
Batch R5697436								
WG3685000-3 DUP		**WG3685000-5**						
1-Methylnaphthalene		0.689	0.865		ug/g	23	40	17-JAN-22
2-Methylnaphthalene		1.01	1.24		ug/g	20	40	17-JAN-22
Acenaphthene		3.70	4.80		ug/g	26	40	17-JAN-22
Acenaphthylene		0.130	0.164		ug/g	24	40	17-JAN-22
Anthracene		6.11	8.53		ug/g	33	40	17-JAN-22
Benzo(a)anthracene		17.8	24.6		ug/g	32	40	17-JAN-22
Benzo(a)pyrene		20.6	28.6		ug/g	32	40	17-JAN-22
Benzo(b&j)fluoranthene		23.9	32.5		ug/g	30	40	17-JAN-22
Benzo(g,h,i)perylene		10.5	13.9		ug/g	28	40	17-JAN-22
Benzo(k)fluoranthene		7.94	13.0	DUP-H	ug/g	48	40	17-JAN-22
Chrysene		18.4	25.6		ug/g	33	40	17-JAN-22
Dibenz(a,h)anthracene		2.70	3.72		ug/g	32	40	17-JAN-22
Fluoranthene		49.9	68.9		ug/g	32	40	17-JAN-22
Fluorene		4.05	5.30		ug/g	27	40	17-JAN-22
Indeno(1,2,3-cd)pyrene		10.3	13.4		ug/g	26	40	17-JAN-22

Quality Control Report

Workorder: L2678641 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5697436								
WG3685000-3 DUP		**WG3685000-5**						
Naphthalene		3.03	3.42		ug/g	12	40	17-JAN-22
Phenanthrene		37.9	51.9		ug/g	31	40	17-JAN-22
Pyrene		40.7	56.2		ug/g	32	40	17-JAN-22
WG3685000-2 LCS								
1-Methylnaphthalene			83.6		%		50-140	17-JAN-22
2-Methylnaphthalene			83.8		%		50-140	17-JAN-22
Acenaphthene			82.0		%		50-140	17-JAN-22
Acenaphthylene			80.6		%		50-140	17-JAN-22
Anthracene			75.6		%		50-140	17-JAN-22
Benzo(a)anthracene			82.1		%		50-140	17-JAN-22
Benzo(a)pyrene			82.2		%		50-140	17-JAN-22
Benzo(b&j)fluoranthene			81.4		%		50-140	17-JAN-22
Benzo(g,h,i)perylene			84.3		%		50-140	17-JAN-22
Benzo(k)fluoranthene			80.8		%		50-140	17-JAN-22
Chrysene			83.0		%		50-140	17-JAN-22
Dibenz(a,h)anthracene			81.2		%		50-140	17-JAN-22
Fluoranthene			83.7		%		50-140	17-JAN-22
Fluorene			79.3		%		50-140	17-JAN-22
Indeno(1,2,3-cd)pyrene			82.0		%		50-140	17-JAN-22
Naphthalene			83.0		%		50-140	17-JAN-22
Phenanthrene			82.8		%		50-140	17-JAN-22
Pyrene			83.6		%		50-140	17-JAN-22
WG3685000-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	17-JAN-22
2-Methylnaphthalene			<0.030		ug/g		0.03	17-JAN-22
Acenaphthene			<0.050		ug/g		0.05	17-JAN-22
Acenaphthylene			<0.050		ug/g		0.05	17-JAN-22
Anthracene			<0.050		ug/g		0.05	17-JAN-22
Benzo(a)anthracene			<0.050		ug/g		0.05	17-JAN-22
Benzo(a)pyrene			<0.050		ug/g		0.05	17-JAN-22
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	17-JAN-22
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	17-JAN-22
Benzo(k)fluoranthene			<0.050		ug/g		0.05	17-JAN-22
Chrysene			<0.050		ug/g		0.05	17-JAN-22

Quality Control Report

Workorder: L2678641 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5697436								
WG3685000-1 MB								
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	17-JAN-22
Fluoranthene			<0.050		ug/g		0.05	17-JAN-22
Fluorene			<0.050		ug/g		0.05	17-JAN-22
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	17-JAN-22
Naphthalene			<0.013		ug/g		0.013	17-JAN-22
Phenanthrene			<0.046		ug/g		0.046	17-JAN-22
Pyrene			<0.050		ug/g		0.05	17-JAN-22
Surrogate: 2-Fluorobiphenyl			83.9		%		50-140	17-JAN-22
Surrogate: d14-Terphenyl			85.8		%		50-140	17-JAN-22
WG3685000-4 MS		**WG3685000-5**						
1-Methylnaphthalene			57.7		%		50-140	17-JAN-22
2-Methylnaphthalene			N/A	MS-B	%		-	17-JAN-22
Acenaphthene			N/A	MS-B	%		-	17-JAN-22
Acenaphthylene			83.8		%		50-140	17-JAN-22
Anthracene			N/A	MS-B	%		-	17-JAN-22
Benzo(a)anthracene			N/A	MS-B	%		-	17-JAN-22
Benzo(a)pyrene			N/A	MS-B	%		-	17-JAN-22
Benzo(b&j)fluoranthene			N/A	MS-B	%		-	17-JAN-22
Benzo(g,h,i)perylene			N/A	MS-B	%		-	17-JAN-22
Benzo(k)fluoranthene			N/A	MS-B	%		-	17-JAN-22
Chrysene			N/A	MS-B	%		-	17-JAN-22
Dibenz(a,h)anthracene			N/A	MS-B	%		-	17-JAN-22
Fluoranthene			N/A	MS-B	%		-	17-JAN-22
Fluorene			N/A	MS-B	%		-	17-JAN-22
Indeno(1,2,3-cd)pyrene			N/A	MS-B	%		-	17-JAN-22
Naphthalene			N/A	MS-B	%		-	17-JAN-22
Phenanthrene			N/A	MS-B	%		-	17-JAN-22
Pyrene			N/A	MS-B	%		-	17-JAN-22
Batch R5707916								
WG3688331-8 DUP		**WG3688331-10**						
1-Methylnaphthalene		0.108	0.136		ug/g	23	40	26-JAN-22
2-Methylnaphthalene		0.125	0.152		ug/g	20	40	26-JAN-22
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-JAN-22
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-JAN-22

Quality Control Report

Workorder: L2678641 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5707916								
WG3688331-8 DUP		**WG3688331-10**						
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-JAN-22
Benzo(a)anthracene		0.132	0.143		ug/g	7.4	40	26-JAN-22
Benzo(a)pyrene		0.145	0.156		ug/g	7.2	40	26-JAN-22
Benzo(b&j)fluoranthene		0.149	0.196		ug/g	28	40	26-JAN-22
Benzo(g,h,i)perylene		0.104	0.117		ug/g	12	40	26-JAN-22
Benzo(k)fluoranthene		<0.050	0.059	RPD-NA	ug/g	N/A	40	26-JAN-22
Chrysene		0.168	0.157		ug/g	7.0	40	26-JAN-22
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-JAN-22
Fluoranthene		0.199	0.275		ug/g	32	40	26-JAN-22
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-JAN-22
Indeno(1,2,3-cd)pyrene		0.077	0.100		ug/g	27	40	26-JAN-22
Naphthalene		0.094	0.107		ug/g	13	40	26-JAN-22
Phenanthrene		0.198	0.237		ug/g	18	40	26-JAN-22
Pyrene		0.241	0.239		ug/g	0.9	40	26-JAN-22
WG3688331-7 LCS								
1-Methylnaphthalene			91.2		%		50-140	26-JAN-22
2-Methylnaphthalene			92.4		%		50-140	26-JAN-22
Acenaphthene			90.3		%		50-140	26-JAN-22
Acenaphthylene			93.9		%		50-140	26-JAN-22
Anthracene			86.3		%		50-140	26-JAN-22
Benzo(a)anthracene			96.2		%		50-140	26-JAN-22
Benzo(a)pyrene			90.3		%		50-140	26-JAN-22
Benzo(b&j)fluoranthene			89.8		%		50-140	26-JAN-22
Benzo(g,h,i)perylene			77.7		%		50-140	26-JAN-22
Benzo(k)fluoranthene			91.1		%		50-140	26-JAN-22
Chrysene			88.7		%		50-140	26-JAN-22
Dibenz(a,h)anthracene			75.8		%		50-140	26-JAN-22
Fluoranthene			92.2		%		50-140	26-JAN-22
Fluorene			89.6		%		50-140	26-JAN-22
Indeno(1,2,3-cd)pyrene			85.8		%		50-140	26-JAN-22
Naphthalene			90.9		%		50-140	26-JAN-22
Phenanthrene			88.0		%		50-140	26-JAN-22
Pyrene			90.0		%		50-140	26-JAN-22

Quality Control Report

Workorder: L2678641 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5707916								
WG3688331-6 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	26-JAN-22
2-Methylnaphthalene			<0.030		ug/g		0.03	26-JAN-22
Acenaphthene			<0.050		ug/g		0.05	26-JAN-22
Acenaphthylene			<0.050		ug/g		0.05	26-JAN-22
Anthracene			<0.050		ug/g		0.05	26-JAN-22
Benzo(a)anthracene			<0.050		ug/g		0.05	26-JAN-22
Benzo(a)pyrene			<0.050		ug/g		0.05	26-JAN-22
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	26-JAN-22
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	26-JAN-22
Benzo(k)fluoranthene			<0.050		ug/g		0.05	26-JAN-22
Chrysene			<0.050		ug/g		0.05	26-JAN-22
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	26-JAN-22
Fluoranthene			<0.050		ug/g		0.05	26-JAN-22
Fluorene			<0.050		ug/g		0.05	26-JAN-22
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	26-JAN-22
Naphthalene			<0.013		ug/g		0.013	26-JAN-22
Phenanthrene			<0.046		ug/g		0.046	26-JAN-22
Pyrene			<0.050		ug/g		0.05	26-JAN-22
Surrogate: 2-Fluorobiphenyl			76.6		%		50-140	26-JAN-22
Surrogate: d14-Terphenyl			77.6		%		50-140	26-JAN-22
WG3688331-9 MS		**WG3688331-10**						
1-Methylnaphthalene			94.8		%		50-140	26-JAN-22
2-Methylnaphthalene			96.4		%		50-140	26-JAN-22
Acenaphthene			96.9		%		50-140	26-JAN-22
Acenaphthylene			100.7		%		50-140	26-JAN-22
Anthracene			92.0		%		50-140	26-JAN-22
Benzo(a)anthracene			106.4		%		50-140	26-JAN-22
Benzo(a)pyrene			94.4		%		50-140	26-JAN-22
Benzo(b&j)fluoranthene			101.3		%		50-140	26-JAN-22
Benzo(g,h,i)perylene			79.2		%		50-140	26-JAN-22
Benzo(k)fluoranthene			95.4		%		50-140	26-JAN-22
Chrysene			90.8		%		50-140	26-JAN-22
Dibenz(a,h)anthracene			80.8		%		50-140	26-JAN-22
Fluoranthene			112.8		%		50-140	26-JAN-22

Quality Control Report

Workorder: L2678641 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5707916								
WG3688331-9 MS		**WG3688331-10**						
Fluorene			99.6		%		50-140	26-JAN-22
Indeno(1,2,3-cd)pyrene			98.0		%		50-140	26-JAN-22
Naphthalene			91.2		%		50-140	26-JAN-22
Phenanthrene			93.5		%		50-140	26-JAN-22
Pyrene			102.4		%		50-140	26-JAN-22
PH-WT	**Soil**							
Batch R5698897								
WG3685735-1 DUP		**L2678801-1**						
pH		7.76	7.82	J	pH units	0.06	0.3	18-JAN-22
WG3685975-1 LCS								
pH			7.01		pH units		6.9-7.1	18-JAN-22
Batch R5700698								
WG3685908-1 DUP		**L2678793-3**						
pH		7.55	7.48	J	pH units	0.07	0.3	19-JAN-22
WG3686005-1 LCS								
pH			7.01		pH units		6.9-7.1	19-JAN-22
SAR-R511-WT	**Soil**							
Batch R5700978								
WG3686574-4 DUP		**WG3686574-3**						
Calcium (Ca)		9.84	9.86		mg/L	0.2	30	19-JAN-22
Sodium (Na)		1.91	1.89		mg/L	1.1	30	19-JAN-22
Magnesium (Mg)		2.23	2.37		mg/L	6.1	30	19-JAN-22
WG3686574-2 IRM		**WT SAR4**						
Calcium (Ca)			112.4		%		70-130	19-JAN-22
Sodium (Na)			100.1		%		70-130	19-JAN-22
Magnesium (Mg)			111.1		%		70-130	19-JAN-22
WG3686574-5 LCS								
Calcium (Ca)			103.0		%		80-120	19-JAN-22
Sodium (Na)			102.4		%		80-120	19-JAN-22
Magnesium (Mg)			100.0		%		80-120	19-JAN-22
WG3686574-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	19-JAN-22
Sodium (Na)			<0.50		mg/L		0.5	19-JAN-22
Magnesium (Mg)			<0.50		mg/L		0.5	19-JAN-22

Quality Control Report

Workorder: L2678641 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: JEN LAMBKE

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.
J	Duplicate results and limits are expressed in terms of absolute difference.
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.

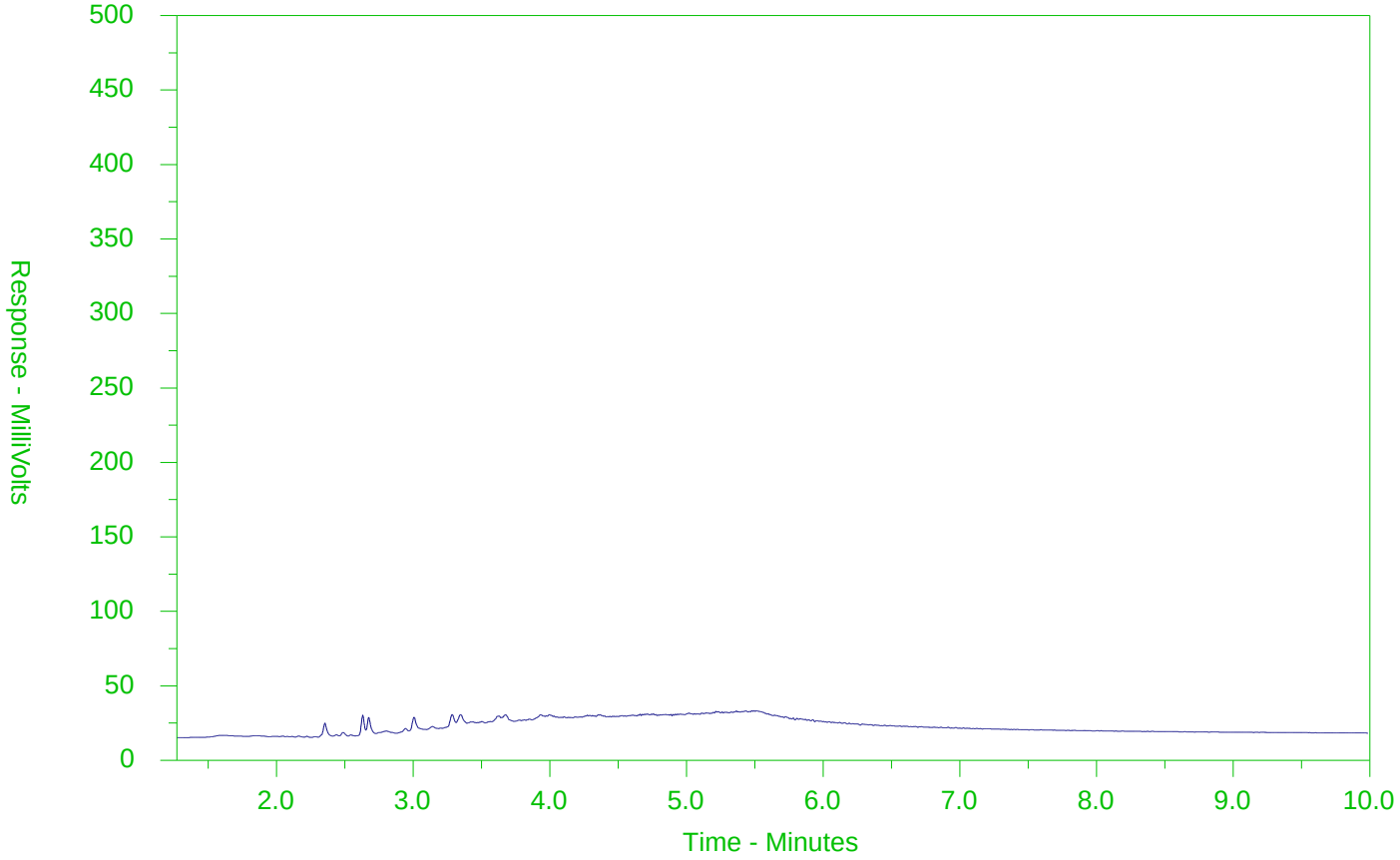
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where 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: L2678641-6
Client Sample ID: MW 308-22 SS1 0-2



←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.

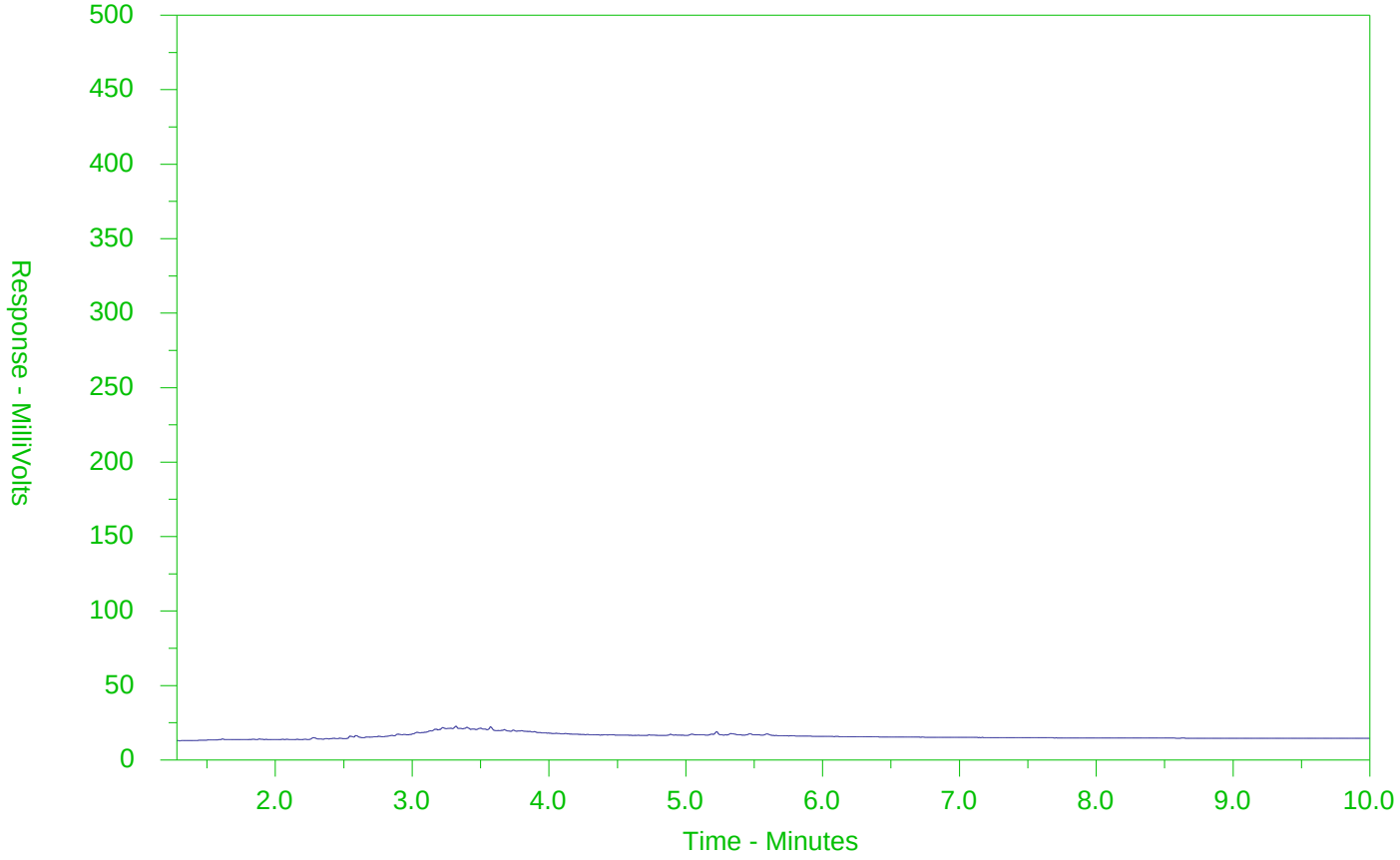
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-8
Client Sample ID: MW 308-22 SS2 2.5-4.5



←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.

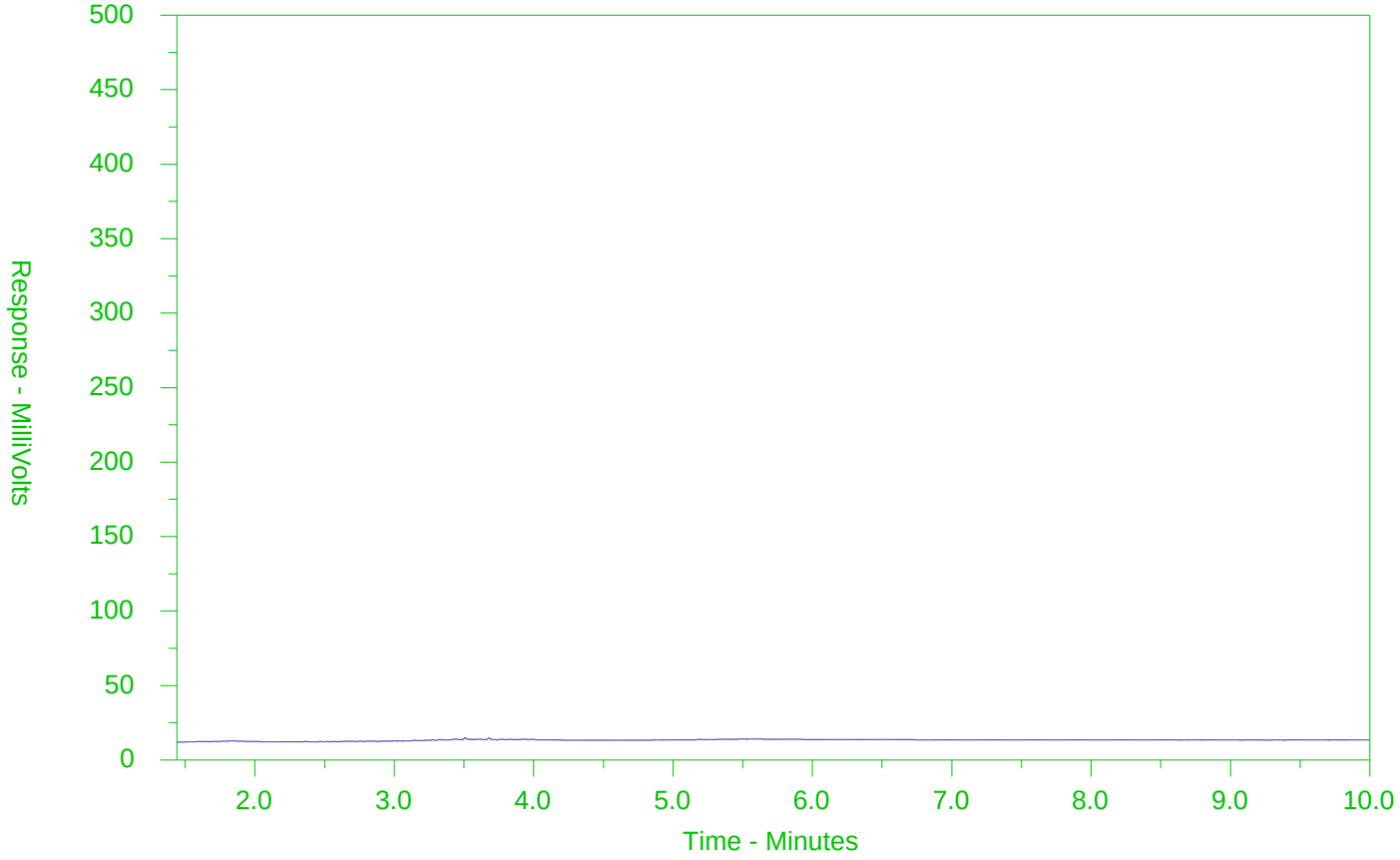
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-9
Client Sample ID: MW 308-22 SS3 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.

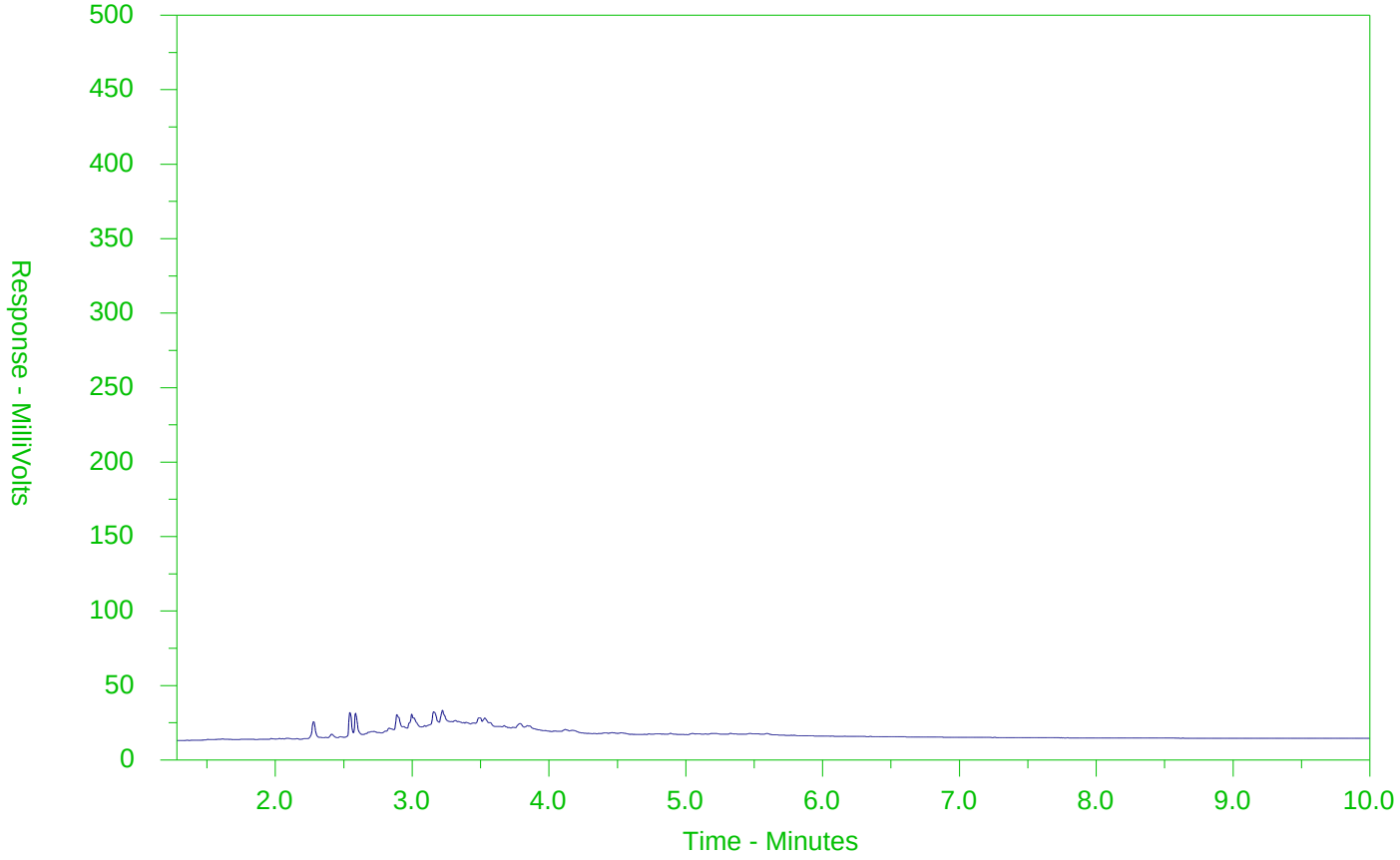
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-10
Client Sample ID: MW 307-22 SS1 0-2



←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.

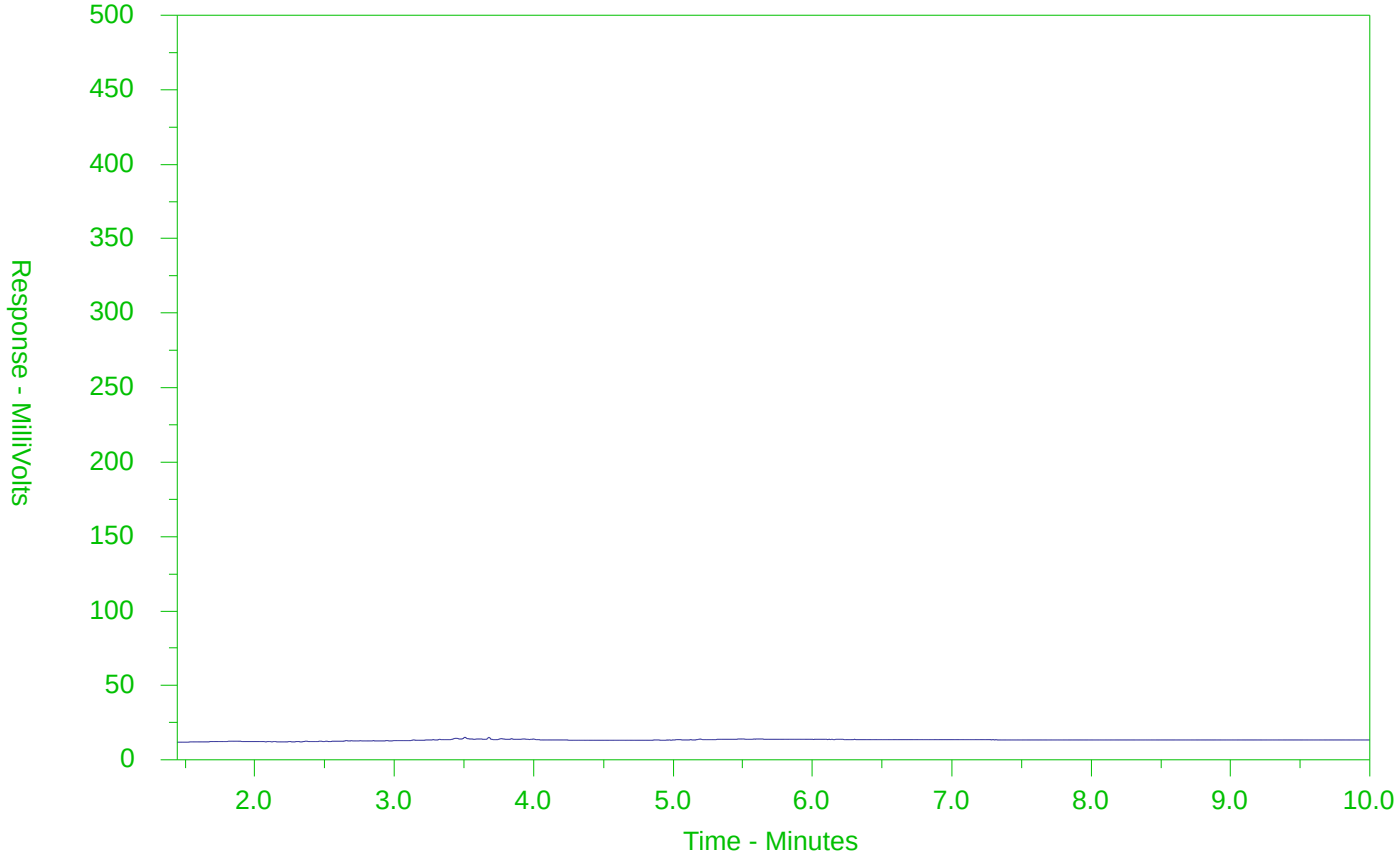
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-12
Client Sample ID: MW 307-22 SS2 2.5-4.5



←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.

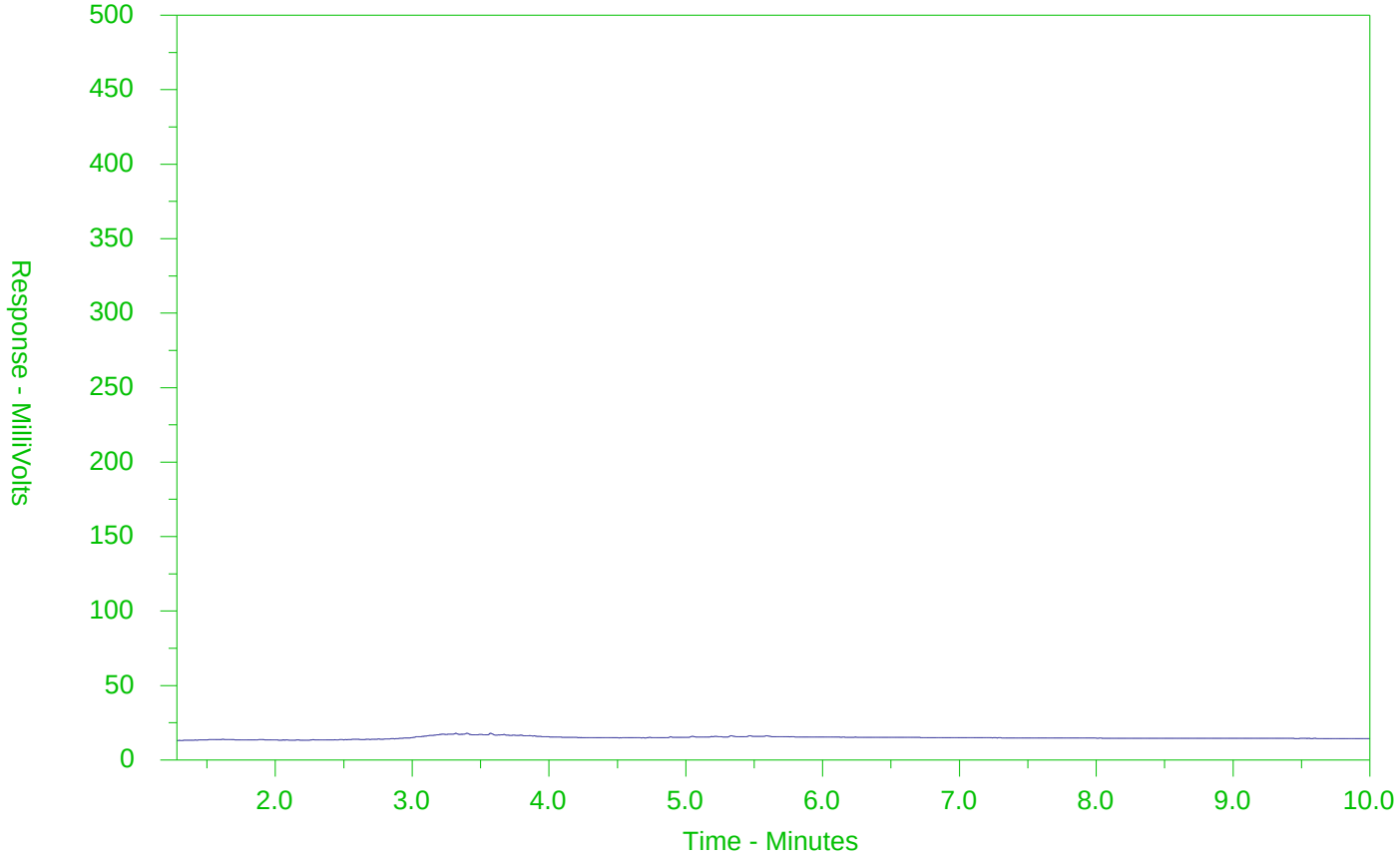
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-13
Client Sample ID: MW 307-22 SS3 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.

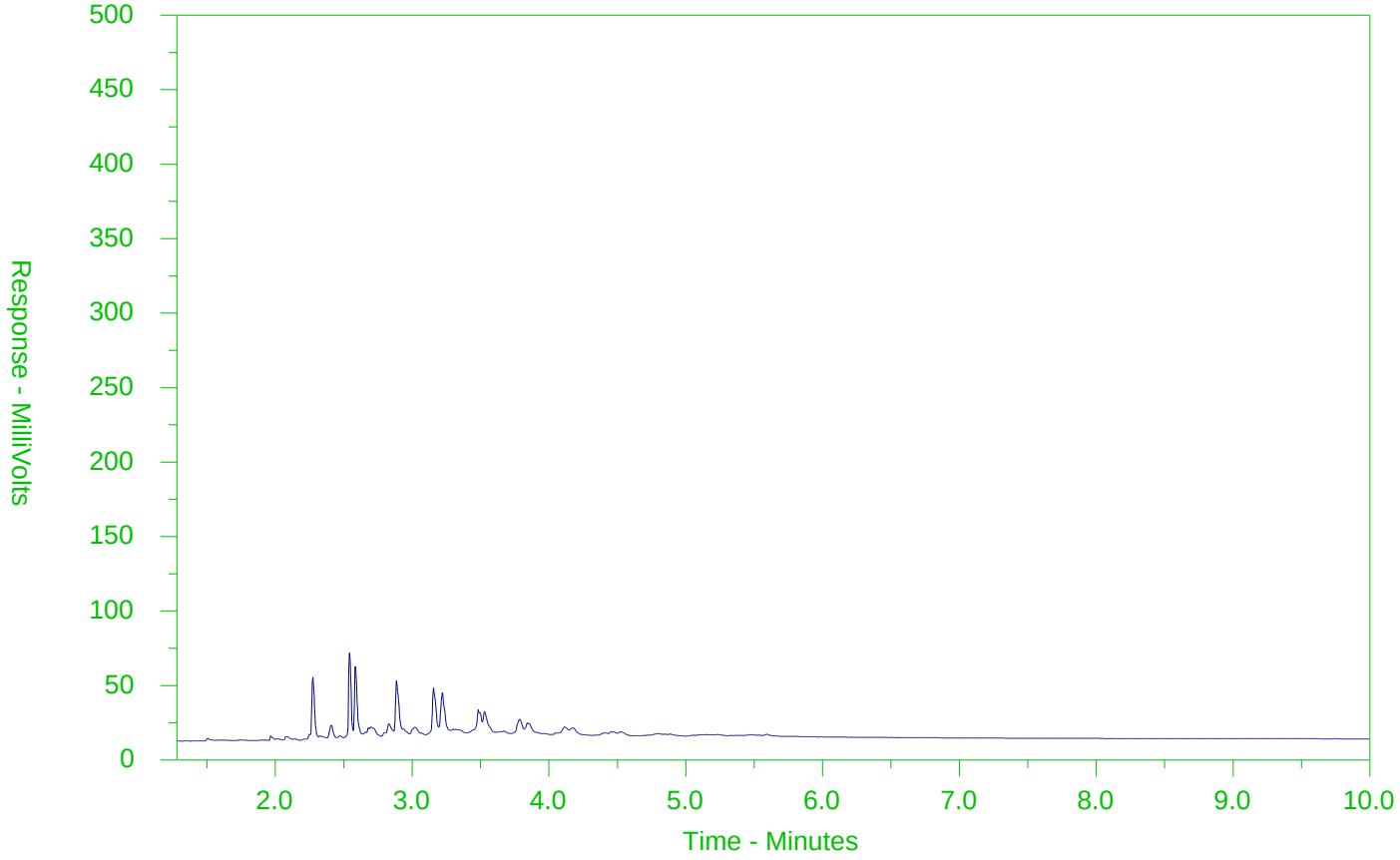
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-14
Client Sample ID: MW 306-22 SS1 0-2



←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.

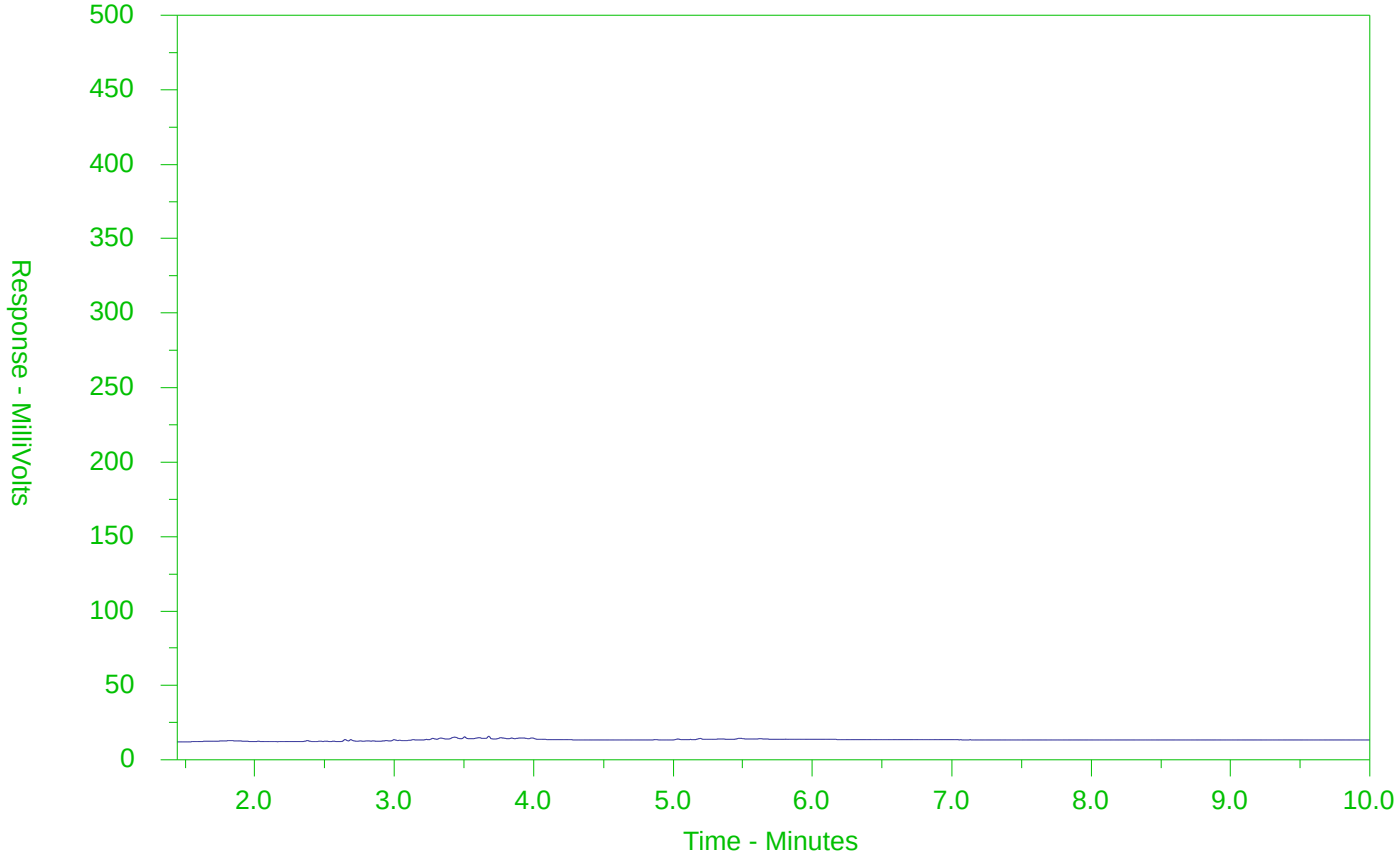
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-15
Client Sample ID: MW 306-22 SS101 0-2



←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.

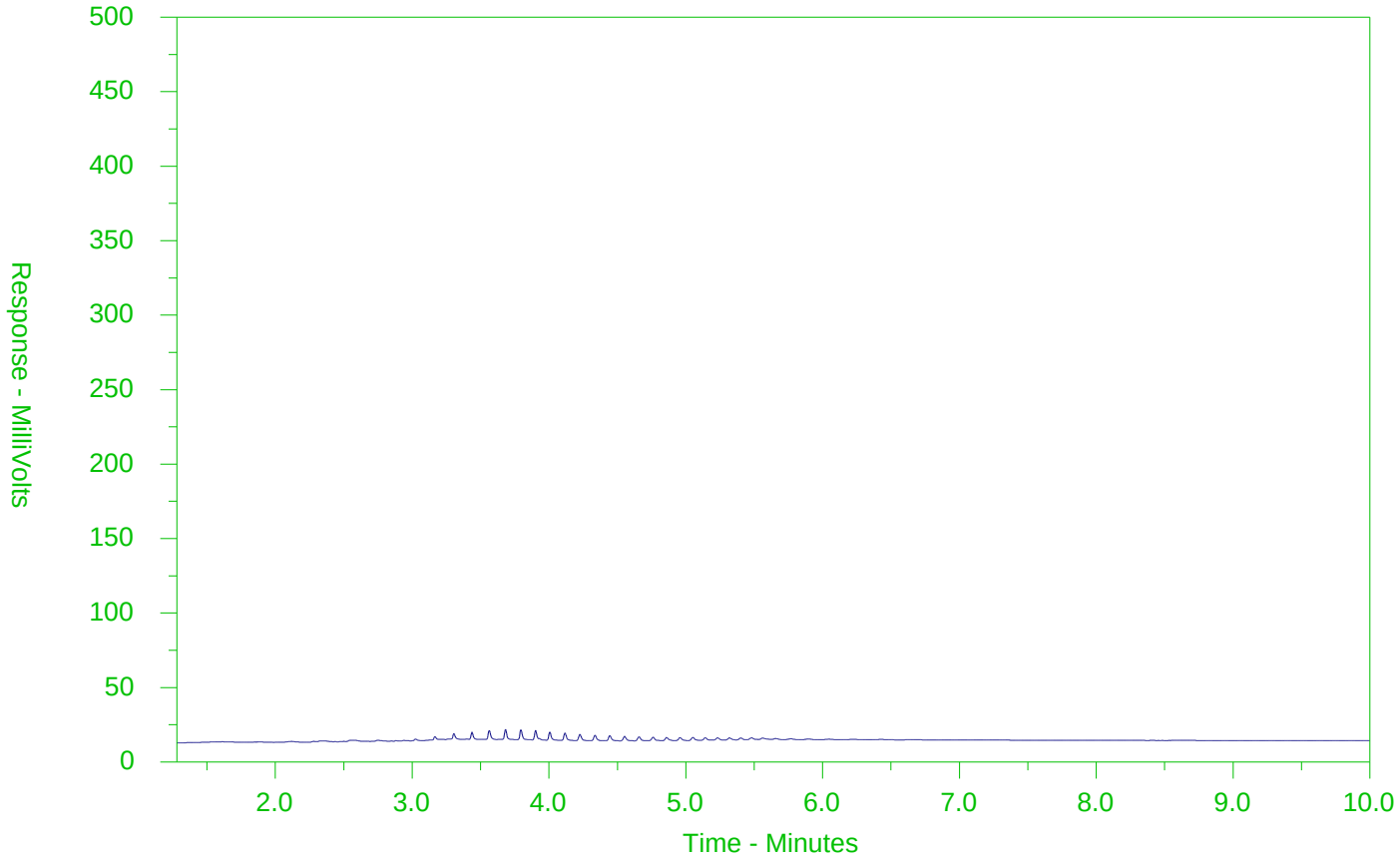
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-16
Client Sample ID: MW 306-22 SS2 2.5-4.5



←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.

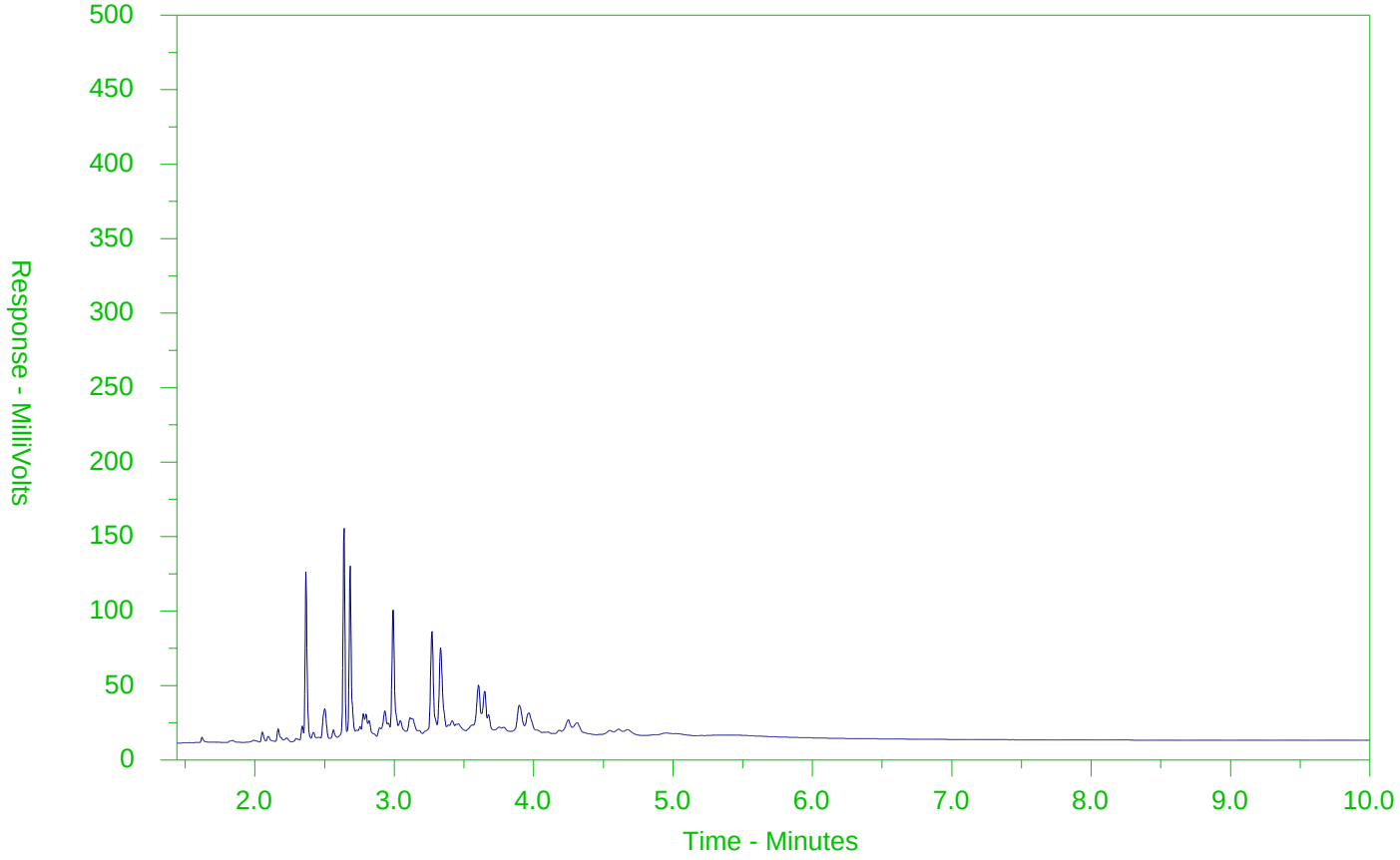
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-17
Client Sample ID: MW 306-22 SS3 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.

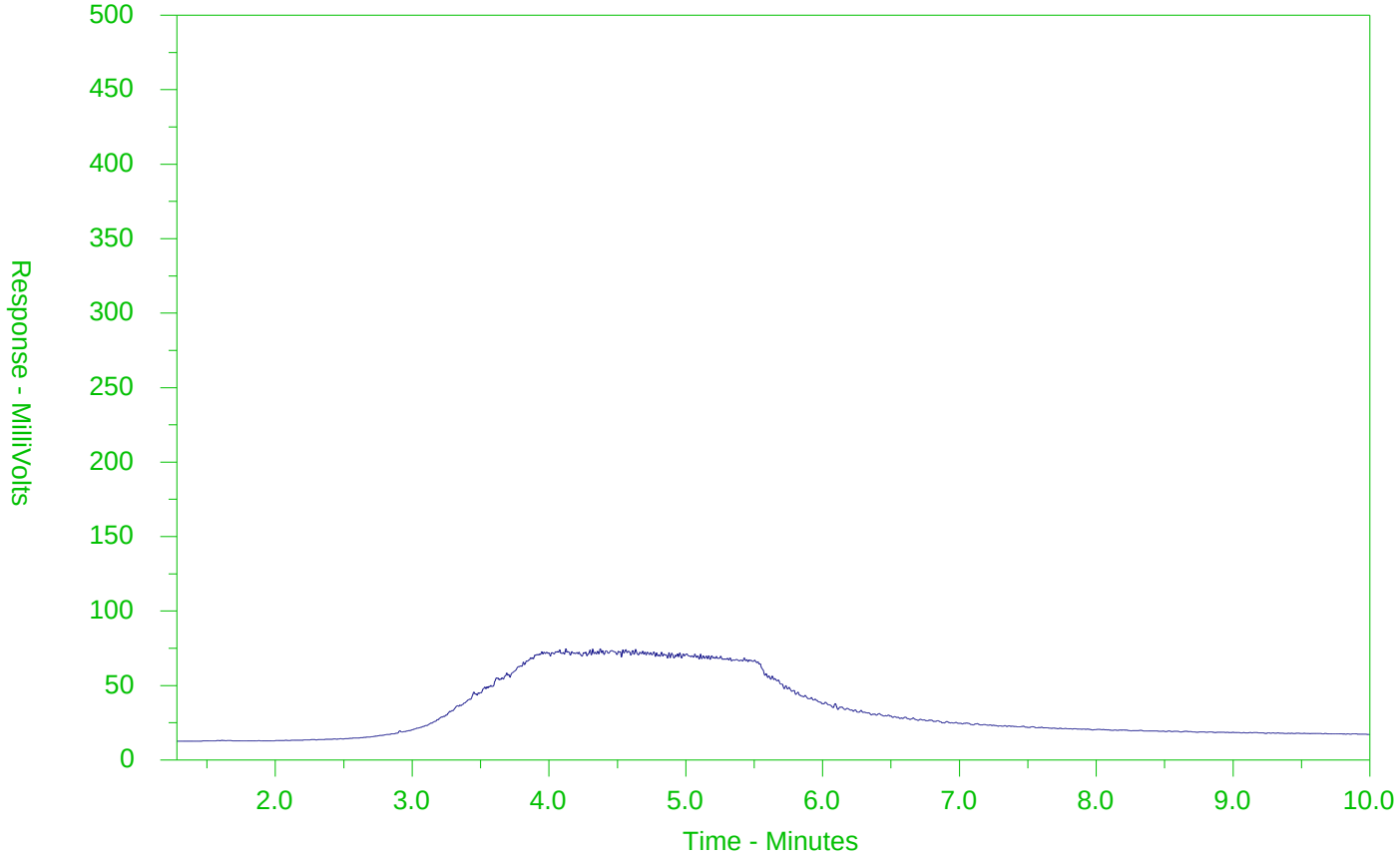
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-18
Client Sample ID: MW 319-22 SS1 0-2



←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.

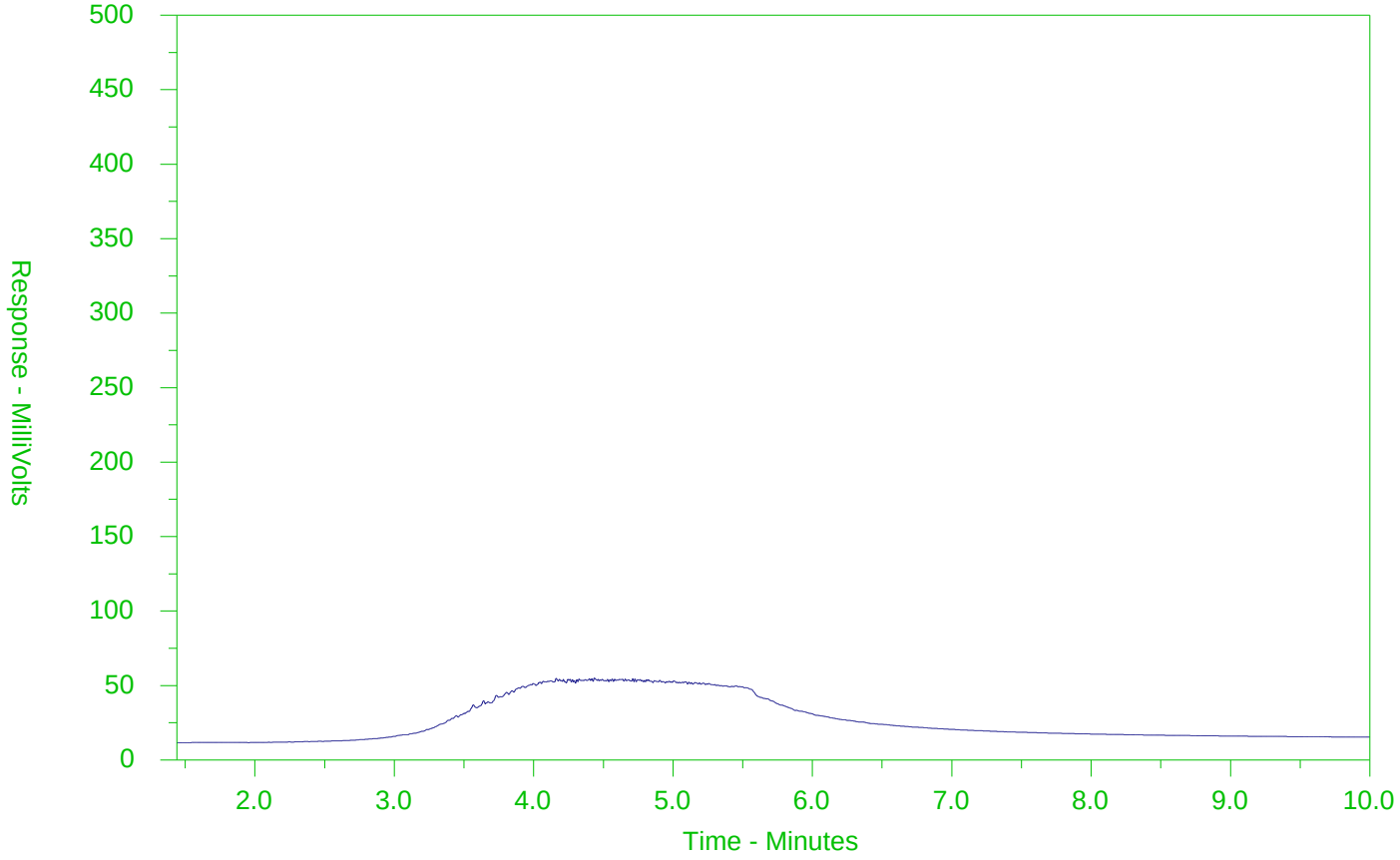
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-19
Client Sample ID: MW 319-22 SS101 0-2



←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.

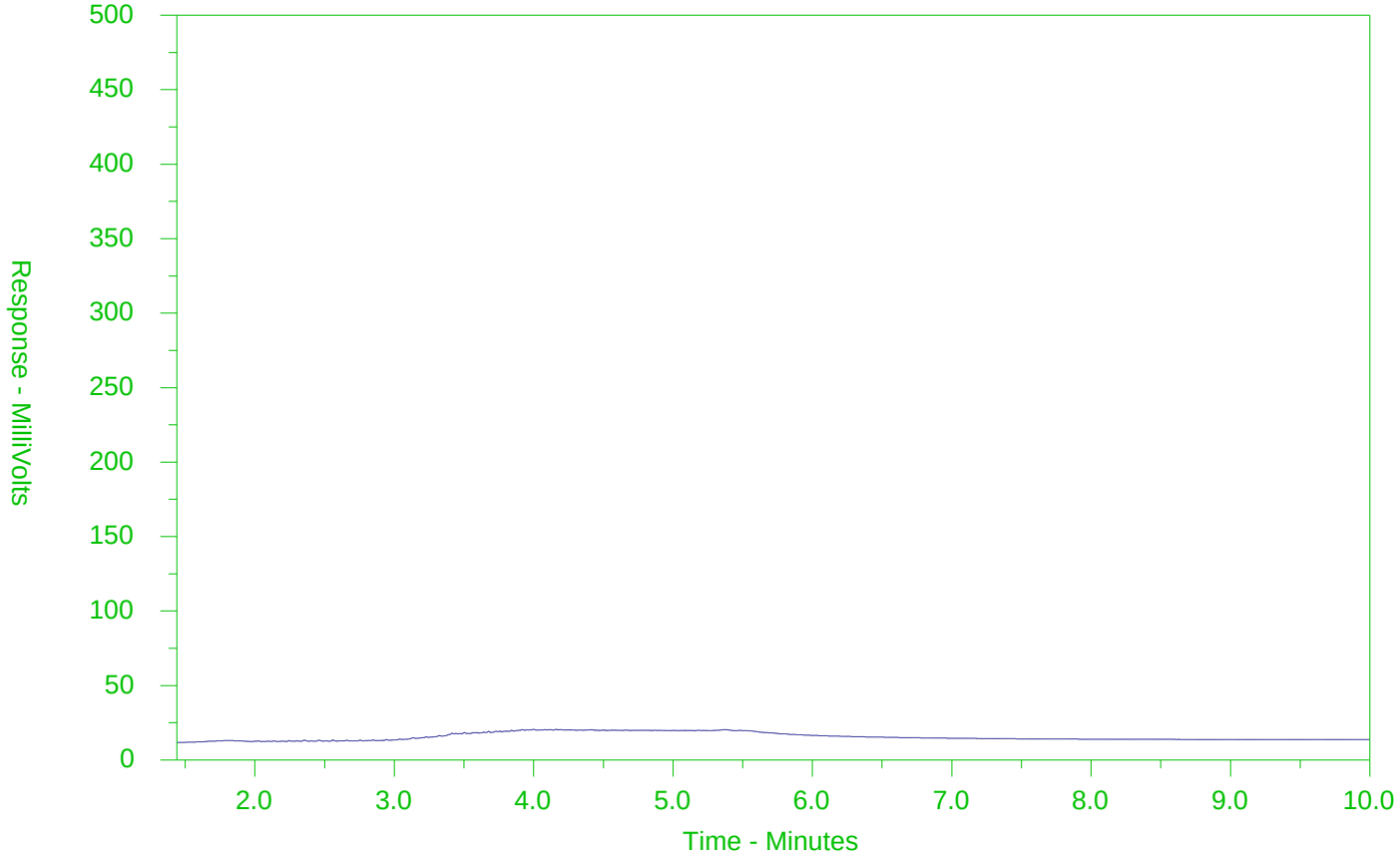
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-20
Client Sample ID: MW 319-22 SS2 2.5-4.5



←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.

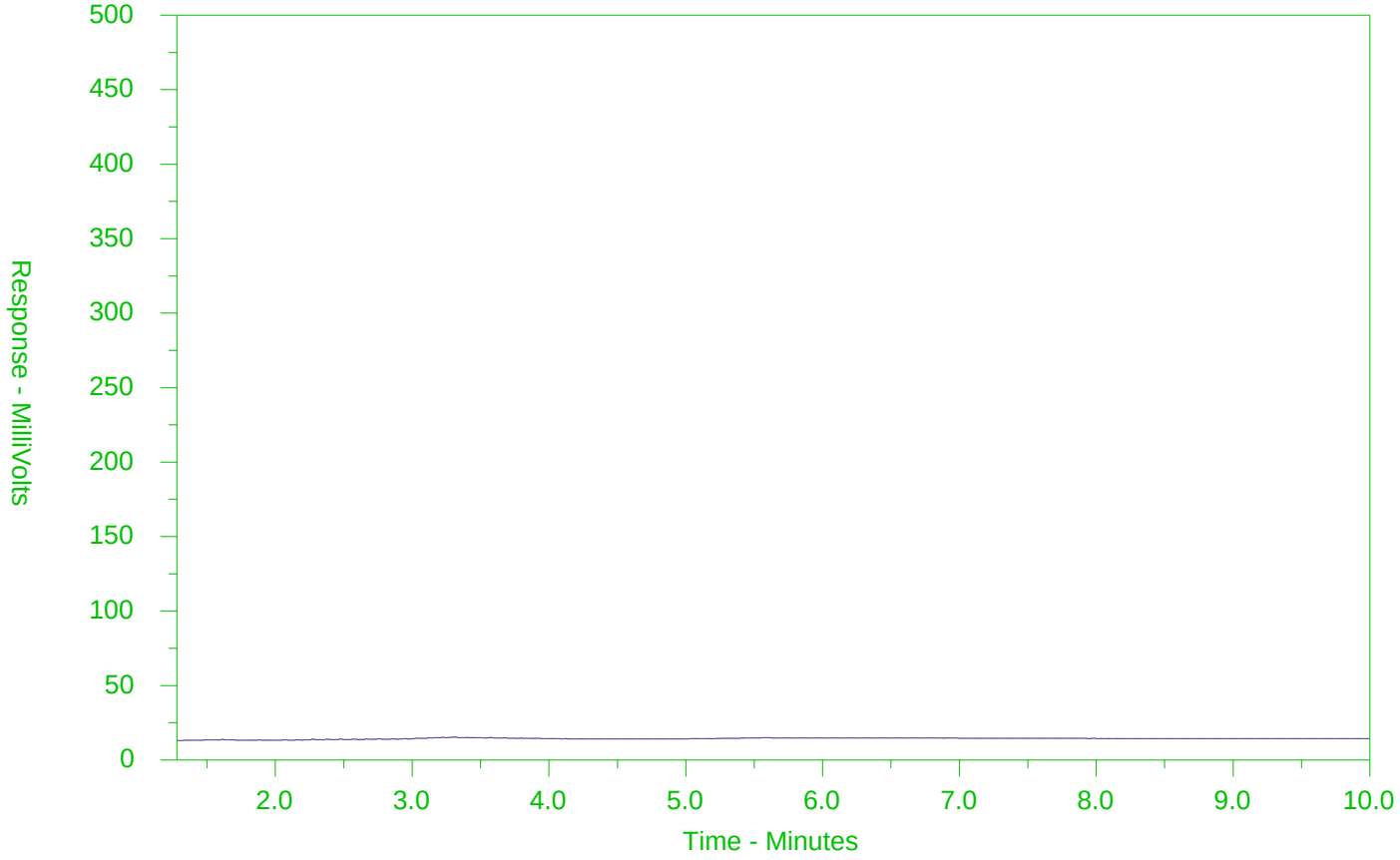
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-23
Client Sample ID: MW 319-22 SS5 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.

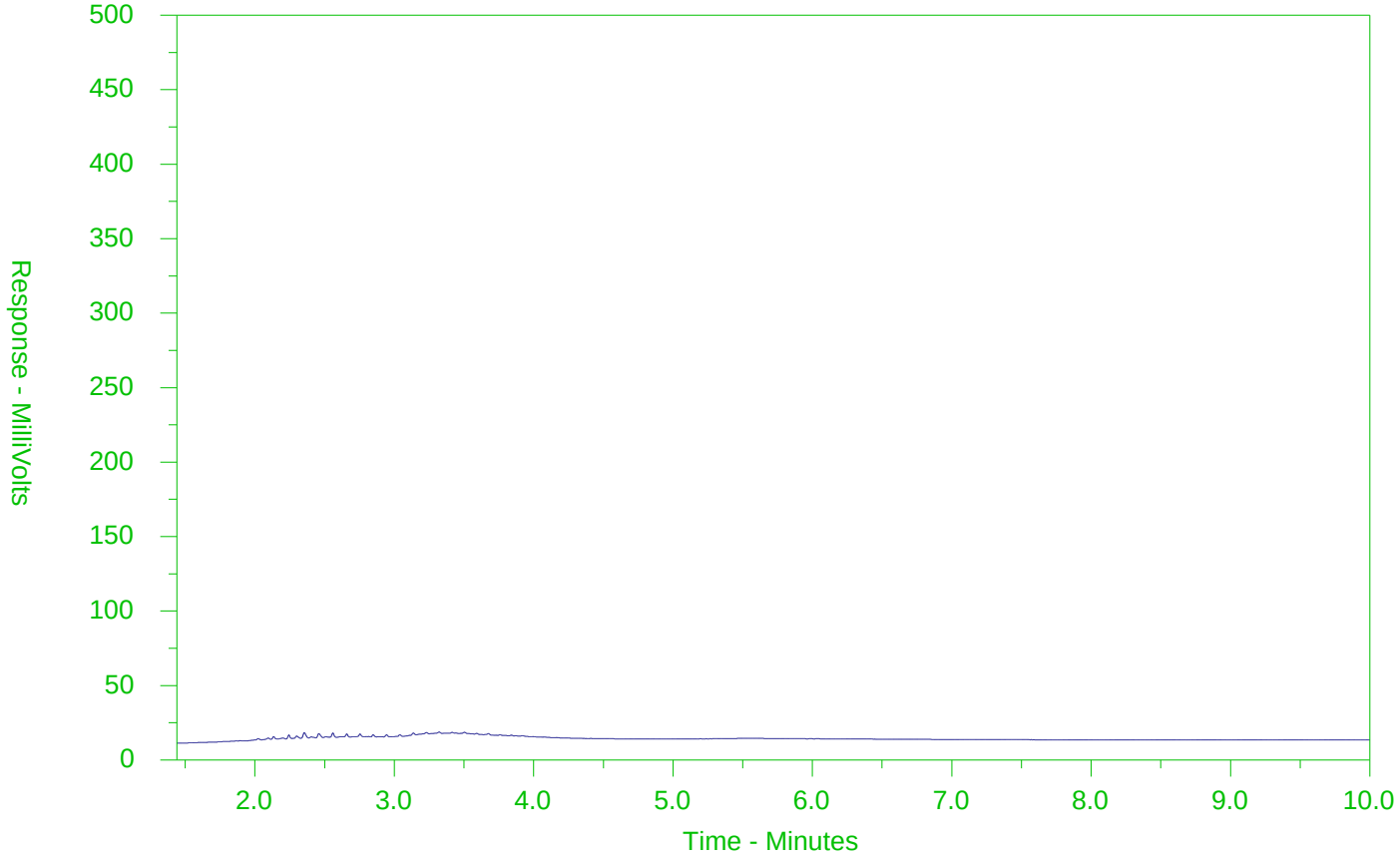
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-24
Client Sample ID: MW 319-22 SS6 15-17



←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.

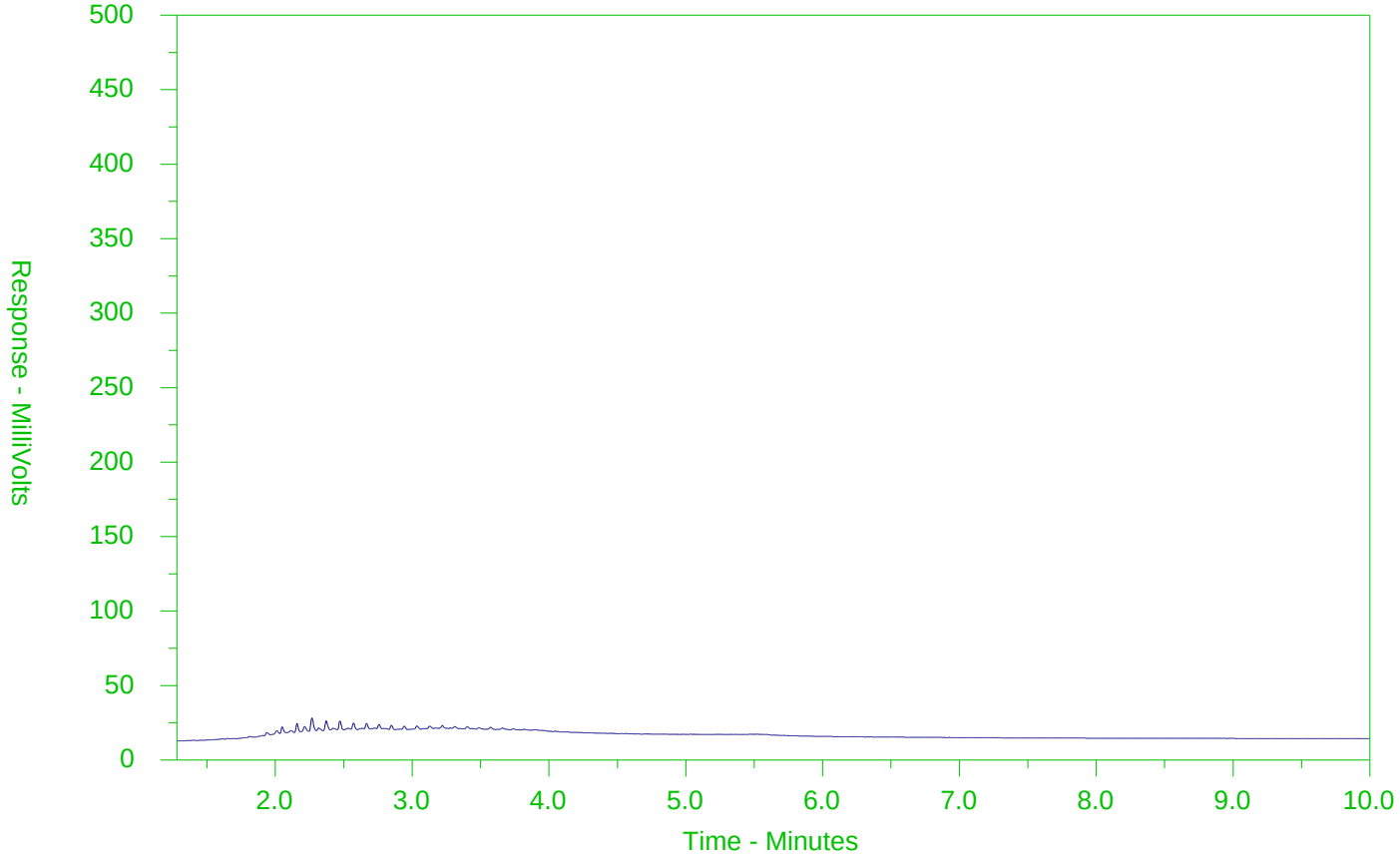
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2678641-25
Client Sample ID: MW 319-22 SS7 20-22



←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

L2678641-COFC

COC Number: 17 -

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants Inc.
Contact:	Jen Lambke / Spencer Buck
Phone:	519-502-3268 / 289-795-7467 (cells)
	Company address below will appear on the final report
Street:	520 Bingeman Centre Drive
City/Province:	Kitchener
Postal Code:	
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: jlambke@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)		EMERGENCY	
4 day [P4-20%]	☐	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: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information

ALS Account # / Quote #: Q85986

Job #: 46372-301

PO / AFE: Elizabeth & George

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): L2678641 P

ALS Contact: Emily Hansen

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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	MW 309-22 SS6 13-17'	11/01/22	10:20	Soil	3									x	
	" SS7 20-22'		10:40		3									x	
	" SS8 25-27'		10:50		3									x	
	" SS9 30-32'		11:15		3									x	
	" AS		11:30		3									x	
	BH308-22 SS1 0-2'		12:00		4									x	
	" SS101 0-2'		12:13		3									x	
	" SS2 2.5-4.5'		12:30		3									x	
	" SS3 5-7'		13:00		3									x	
	BH307-22 SS1 0-2'		13:20		4									x	
	" SS101 0-2'		13:40		3									x	
	" SS2 2.5-4.5'		14:00		3									x	

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)

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	0.4		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: Harman Sandhu	Date: 2/01/22	Time: 20:00	Received by:	Date:	Time:	Received by: P	Date: 13 JAN 22	Time: 9:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY JUNE 2018 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

L2678641-COFC

COC Number: 17 -

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	
Company:	MTE Consultants Inc.	Select Report Format:	☑ PDF ☑ EXCEL ☑ EDD (DIGITAL)
Contact:	Jen Lambke / Spencer Buck	Quality Control (QC) Report with Report	☑ YES ☐ NO
Phone:	519-502-3268 / 289-795-7467 (cells)	☑ Compare Results to Criteria on Report - provide details below if box checked	
	Company address below will appear on the final report	Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Street:	520 Bingeman Centre Drive	Email 1 or Fax	lambke@mte85.com
City/Province:	Kitchener	Email 2	sbuck@mte85.com
Postal Code:		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	accounting@mte85.com
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #: Q85986		AFE/Cost Center:	PO#
Job #:	46372-301	Major/Minor Code:	Routing Code:
PO / AFE:	Elizabeth & George	Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):	L2678641	ALS Contact: Emily Hansen	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)		EMERGENCY	
4 day [P4-20%]	☐	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: TS / 5 business days

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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	BH307-22 SS3 5-7'	11/01/22	14:15	Soil	3									x	
	BH306-22 SS1 0-2'	↓	14:30	↓	4									x	
	" SS101 0-2'		13:00		3									x	
	" SS2 2.5-4.5'		13:15		3									x	
	" SS3 5-7'	↓	13:30		3									x	
	MW319-22 SS1 0-2'	12/01/22	9:00		4									x	
	" SS101 0-2'	↓	9:30	↓	3									x	
	" SS2 2.5-4.5'		10:00		3									x	
	" SS3 5-7'		10:30		3									x	
	" SS4 7.5-9.5'		11:00		3									x	
	" SS5 10-12'		11:30		3									x	
	" SS6 15-17'	↓	12:00	↓	3									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 ☐ NO	
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			
				1.4	0.4		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: Harman Sandhu	Date: 12/01/22	Time: 20:30	Received by:	Date:	Time:	Received by:	Date: 13 JAN 22	Time: 9:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 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

L2678641-COFC

COC Number: 17 -

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants Inc.
Contact:	Jen Lambke / Spencer Buck
Phone:	519-502-3268 / 289-795-7467 (cells)
	Company address below will appear on the final report
Street:	520 Bingeman Centre Drive
City/Province:	Kitchener
Postal Code:	

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: jlambke@mte85.com
Email 2: sbuck@mte85.com
Email 3:

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: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: accounting@mte85.com
Email 2:

Project Information

ALS Account # / Quote #: Q85986
Job #: 46372-301
PO / AFE: Elizabeth & George
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): L
ALS Contact: Emily Hansen
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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	MW319-22 557 20-22'	12/01/22	12:30	Soil	3									x	
	" 558 23-27'	↓	13:30	↓	3									x	
	" 559 30-32'	↓	14:30	↓	3									x	
	" 5510 33-37'	↓	15:30	↓	3									x	
														x	
														x	
														x	
														x	
														x	
														x	
														x	
														x	

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)

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	0.4		

SHIPMENT RELEASE (client use)

Released by: Harman Sandhu Date: 12/01/22 Time: 20:30

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by: Date: 13 JAN 22 Time: 9:00

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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: JEN LAMBKE
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Date Received: 15-JAN-22
Report Date: 25-JAN-22 15:25 (MT)
Version: FINAL REV. 2

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2679135
Project P.O. #: elizabeth and george
Job Reference: 46372-301
C of C Numbers:
Legal Site Desc:

Comments: ADDITIONAL 17-JAN-22 10:41

Emily Hansen
Account Manager

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ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2679135-1	BH313-22 SS1 0-2'								
Sampled By:	CLIENT on 12-JAN-22 @ 09:30								
Matrix:	SOIL								
Physical Tests									
	% Moisture	13.6		0.25	%	20-JAN-22			
Metals									
	Antimony (Sb)	3.3		1.0	ug/g	24-JAN-22	*1.3	40	7.5
	Arsenic (As)	12.8		1.0	ug/g	24-JAN-22	18	18	18
	Barium (Ba)	428		1.0	ug/g	24-JAN-22	*220	670	*390
	Beryllium (Be)	0.53		0.50	ug/g	24-JAN-22	2.5	8	4
	Boron (B)	13.8		5.0	ug/g	24-JAN-22	36	120	120
	Cadmium (Cd)	0.84		0.50	ug/g	24-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	31.3		1.0	ug/g	24-JAN-22	70	160	160
	Cobalt (Co)	8.6		1.0	ug/g	24-JAN-22	21	80	22
	Copper (Cu)	49.9		1.0	ug/g	24-JAN-22	92	230	140
	Lead (Pb)	891		1.0	ug/g	24-JAN-22	*120	*120	*120
	Molybdenum (Mo)	<1.0		1.0	ug/g	24-JAN-22	2	40	6.9
	Nickel (Ni)	18.3		1.0	ug/g	24-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	24-JAN-22	1.5	5.5	2.4
	Silver (Ag)	0.27		0.20	ug/g	24-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	24-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	24-JAN-22	2.5	33	23
	Vanadium (V)	30.3		1.0	ug/g	24-JAN-22	86	86	86
	Zinc (Zn)	654		5.0	ug/g	24-JAN-22	*290	*340	*340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	19-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	19-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	19-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	19-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	19-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	21-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	102.7		50-140	%	19-JAN-22			
	Surrogate: 1,4-Difluorobenzene	108.2		50-140	%	19-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	21-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	21-JAN-22	10	26	10
	F3 (C16-C34)	69		50	ug/g	21-JAN-22	240	1700	300
	F4 (C34-C50)	94		50	ug/g	21-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	163		72	ug/g	21-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	21-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	80.4		60-140	%	21-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	98.2		60-140	%	19-JAN-22			
Organochlorine Pesticides									
	Aldrin	<0.0020	DLM	0.0020	ug/g	21-JAN-22	0.05	0.088	0.05
	Lindane	<0.0020	DLM	0.0020	ug/g	21-JAN-22	0.01	0.01	0.01
	a-chlordane	<0.0030	DLM	0.0030	ug/g	21-JAN-22			
	Chlordane (Total)	<0.0042		0.0042	ug/g	21-JAN-22	0.05	0.05	0.05
	g-chlordane	<0.0030	DLM	0.0030	ug/g	21-JAN-22			
	o,p-DDD	0.0042	DLM	0.0030	ug/g	21-JAN-22			

** 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 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2679135-1	BH313-22 SS1 0-2'								
Sampled By:	CLIENT on 12-JAN-22 @ 09:30								
Matrix:	SOIL								
Organochlorine Pesticides									
	pp-DDD	0.0287	DLM	0.0030	ug/g	21-JAN-22			
	Total DDD	0.0328		0.0042	ug/g	21-JAN-22	0.05	4.6	3.3
	o,p-DDE	0.0039	DLM	0.0030	ug/g	21-JAN-22			
	pp-DDE	0.277	DLM	0.0030	ug/g	21-JAN-22			
	Total DDE	0.281		0.0042	ug/g	21-JAN-22	*0.05	0.52	*0.26
	op-DDT	0.0807	DLM	0.0030	ug/g	21-JAN-22			
	pp-DDT	0.354	DLM	0.0030	ug/g	21-JAN-22			
	Total DDT	0.435		0.0042	ug/g	21-JAN-22	1.4	1.4	1.4
	Dieldrin	0.134	DLM	0.0020	ug/g	21-JAN-22	*0.05	*0.088	*0.05
	alpha-Endosulfan	<0.0030	DLM	0.0030	ug/g	21-JAN-22			
	beta-Endosulfan	<0.0030	DLM	0.0030	ug/g	21-JAN-22			
	Endosulfan (Total)	<0.0042		0.0042	ug/g	21-JAN-22	0.04	0.3	0.04
	Endrin	<0.0050	DLM	0.0050	ug/g	21-JAN-22	0.04	0.04	0.04
	Heptachlor	<0.0020	DLM	0.0020	ug/g	21-JAN-22	0.05	0.072	0.072
	Heptachlor Epoxide	<0.0020	DLM	0.0020	ug/g	21-JAN-22	0.05	0.05	0.05
	Hexachlorobenzene	<0.0050	DLM	0.0050	ug/g	21-JAN-22	0.01	0.66	0.52
	Hexachlorobutadiene	<0.0050	DLM	0.0050	ug/g	21-JAN-22	0.01	0.01	0.01
	Hexachloroethane	<0.0050	DLM	0.0050	ug/g	21-JAN-22	0.01	0.13	0.01
	Methoxychlor	<0.0050	DLM	0.0050	ug/g	21-JAN-22	0.05	0.19	0.13
	Surrogate: Decachlorobiphenyl	127.7		50-150	%	21-JAN-22			
	Surrogate: Tetrachloro-m-xylene	80.4		50-150	%	21-JAN-22			
L2679135-2	BH313-22 SS101 0-2'								
Sampled By:	CLIENT on 12-JAN-22 @ 10:00								
Matrix:	SOIL								
Physical Tests									
	% Moisture	14.5		0.25	%	20-JAN-22			
Metals									
	Antimony (Sb)	2.8		1.0	ug/g	24-JAN-22	*1.3	40	7.5
	Arsenic (As)	10.8		1.0	ug/g	24-JAN-22	18	18	18
	Barium (Ba)	384		1.0	ug/g	24-JAN-22	*220	670	390
	Beryllium (Be)	0.54		0.50	ug/g	24-JAN-22	2.5	8	4
	Boron (B)	11.2		5.0	ug/g	24-JAN-22	36	120	120
	Cadmium (Cd)	0.95		0.50	ug/g	24-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	29.7		1.0	ug/g	24-JAN-22	70	160	160
	Cobalt (Co)	8.7		1.0	ug/g	24-JAN-22	21	80	22
	Copper (Cu)	47.7		1.0	ug/g	24-JAN-22	92	230	140
	Lead (Pb)	822		1.0	ug/g	24-JAN-22	*120	*120	*120
	Molybdenum (Mo)	<1.0		1.0	ug/g	24-JAN-22	2	40	6.9
	Nickel (Ni)	18.2		1.0	ug/g	24-JAN-22	82	270	100
	Selenium (Se)	1.1		1.0	ug/g	24-JAN-22	1.5	5.5	2.4
	Silver (Ag)	0.27		0.20	ug/g	24-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	24-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	24-JAN-22	2.5	33	23
	Vanadium (V)	29.8		1.0	ug/g	24-JAN-22	86	86	86
	Zinc (Zn)	599		5.0	ug/g	24-JAN-22	*290	*340	*340

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#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2679135-2	BH313-22 SS101 0-2'								
Sampled By:	CLIENT on 12-JAN-22 @ 10:00								
Matrix:	SOIL								
Organochlorine Pesticides									
	Aldrin	<0.0020	DLM	0.0020	ug/g	21-JAN-22	0.05	0.088	0.05
	Lindane	<0.0020	DLM	0.0020	ug/g	21-JAN-22	0.01	0.01	0.01
	a-chlordane	<0.0030	DLM	0.0030	ug/g	21-JAN-22			
	Chlordane (Total)	<0.0042		0.0042	ug/g	21-JAN-22	0.05	0.05	0.05
	g-chlordane	<0.0030	DLM	0.0030	ug/g	21-JAN-22			
	o,p-DDD	0.0097	DLM	0.0030	ug/g	21-JAN-22			
	pp-DDD	0.0914	DLM	0.0030	ug/g	21-JAN-22			
	Total DDD	0.101		0.0042	ug/g	21-JAN-22	*0.05	4.6	3.3
	o,p-DDE	0.0082	DLM	0.0030	ug/g	21-JAN-22			
	pp-DDE	0.505	DLM	0.0030	ug/g	21-JAN-22			
	Total DDE	0.514		0.0042	ug/g	21-JAN-22	*0.05	0.52	*0.26
	op-DDT	0.157	DLM	0.0030	ug/g	21-JAN-22			
	pp-DDT	0.571	DLM	0.0030	ug/g	21-JAN-22			
	Total DDT	0.729		0.0042	ug/g	21-JAN-22	1.4	1.4	1.4
	Dieldrin	0.268	DLM	0.0020	ug/g	21-JAN-22	*0.05	*0.088	*0.05
	alpha-Endosulfan	<0.0030	DLM	0.0030	ug/g	21-JAN-22			
	beta-Endosulfan	<0.0030	DLM	0.0030	ug/g	21-JAN-22			
	Endosulfan (Total)	<0.0042		0.0042	ug/g	21-JAN-22	0.04	0.3	0.04
	Endrin	<0.0050	DLM	0.0050	ug/g	21-JAN-22	0.04	0.04	0.04
	Heptachlor	<0.0020	DLM	0.0020	ug/g	21-JAN-22	0.05	0.072	0.072
	Heptachlor Epoxide	<0.0020	DLM	0.0020	ug/g	21-JAN-22	0.05	0.05	0.05
	Hexachlorobenzene	<0.0050	DLM	0.0050	ug/g	21-JAN-22	0.01	0.66	0.52
	Hexachlorobutadiene	<0.0050	DLM	0.0050	ug/g	21-JAN-22	0.01	0.01	0.01
	Hexachloroethane	<0.0050	DLM	0.0050	ug/g	21-JAN-22	0.01	0.13	0.01
	Methoxychlor	<0.0050	DLM	0.0050	ug/g	21-JAN-22	0.05	0.19	0.13
	Surrogate: Decachlorobiphenyl	120.7		50-150	%	21-JAN-22			
	Surrogate: Tetrachloro-m-xylene	79.6		50-150	%	21-JAN-22			
L2679135-3	BH313-22 SS2 2.5-4.5'								
Sampled By:	CLIENT on 12-JAN-22 @ 10:20								
Matrix:	SOIL								
Physical Tests									
	% Moisture	12.6		0.25	%	20-JAN-22			
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	24-JAN-22	1.3	40	7.5
	Arsenic (As)	6.0		1.0	ug/g	24-JAN-22	18	18	18
	Barium (Ba)	65.0		1.0	ug/g	24-JAN-22	220	670	390
	Beryllium (Be)	0.70		0.50	ug/g	24-JAN-22	2.5	8	4
	Boron (B)	8.5		5.0	ug/g	24-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	24-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	22.1		1.0	ug/g	24-JAN-22	70	160	160
	Cobalt (Co)	12.5		1.0	ug/g	24-JAN-22	21	80	22
	Copper (Cu)	33.5		1.0	ug/g	24-JAN-22	92	230	140
	Lead (Pb)	12.7		1.0	ug/g	24-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	24-JAN-22	2	40	6.9
	Nickel (Ni)	25.6		1.0	ug/g	24-JAN-22	82	270	100

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#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2679135-3	BH313-22 SS2 2.5-4.5'								
Sampled By:	CLIENT on 12-JAN-22 @ 10:20								
Matrix:	SOIL								
Metals									
	Selenium (Se)	<1.0		1.0	ug/g	24-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	24-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	24-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	24-JAN-22	2.5	33	23
	Vanadium (V)	31.6		1.0	ug/g	24-JAN-22	86	86	86
	Zinc (Zn)	59.3		5.0	ug/g	24-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	19-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	19-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	19-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	19-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	19-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	21-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	103.8		50-140	%	19-JAN-22			
	Surrogate: 1,4-Difluorobenzene	108.0		50-140	%	19-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	21-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	21-JAN-22	10	26	10
	F3 (C16-C34)	<50		50	ug/g	21-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	21-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	21-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	21-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	85.8		60-140	%	21-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	101.8		60-140	%	19-JAN-22			
L2679135-5	BH313-22 SS4 7.5-9.5'								
Sampled By:	CLIENT on 12-JAN-22 @ 11:20								
Matrix:	SOIL								
Physical Tests									
	Conductivity	0.198		0.0040	mS/cm	24-JAN-22	0.57	1.4	0.7
	% Moisture	9.01		0.25	%	20-JAN-22			
Saturated Paste Extractables									
	SAR	0.61		0.10	SAR	24-JAN-22	2.4	12	5
	Calcium (Ca)	15.0		0.50	mg/L	24-JAN-22			
	Magnesium (Mg)	7.81		0.50	mg/L	24-JAN-22			
	Sodium (Na)	11.7		0.50	mg/L	24-JAN-22			
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	24-JAN-22	1.3	40	7.5
	Arsenic (As)	5.2		1.0	ug/g	24-JAN-22	18	18	18
	Barium (Ba)	68.5		1.0	ug/g	24-JAN-22	220	670	390
	Beryllium (Be)	0.55		0.50	ug/g	24-JAN-22	2.5	8	4
	Boron (B)	9.4		5.0	ug/g	24-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	24-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	18.4		1.0	ug/g	24-JAN-22	70	160	160
	Cobalt (Co)	10.6		1.0	ug/g	24-JAN-22	21	80	22

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2679135-5	BH313-22 SS4 7.5-9.5'								
Sampled By:	CLIENT on 12-JAN-22 @ 11:20								
Matrix:	SOIL								
Metals									
	Copper (Cu)	34.0		1.0	ug/g	24-JAN-22	92	230	140
	Lead (Pb)	9.3		1.0	ug/g	24-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	24-JAN-22	2	40	6.9
	Nickel (Ni)	21.8		1.0	ug/g	24-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	24-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	24-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	24-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	24-JAN-22	2.5	33	23
	Vanadium (V)	27.1		1.0	ug/g	24-JAN-22	86	86	86
	Zinc (Zn)	49.4		5.0	ug/g	24-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	19-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	19-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	19-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	19-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	19-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	21-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	105.4		50-140	%	19-JAN-22			
	Surrogate: 1,4-Difluorobenzene	111.0		50-140	%	19-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	21-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	21-JAN-22	10	26	10
	F3 (C16-C34)	<50		50	ug/g	21-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	21-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	21-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	21-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	84.7		60-140	%	21-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	107.5		60-140	%	19-JAN-22			
L2679135-7	BH313-22 SS6 13-17'								
Sampled By:	CLIENT on 12-JAN-22 @ 12:30								
Matrix:	SOIL								
Physical Tests									
	% Moisture	9.23		0.25	%	20-JAN-22			
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	24-JAN-22	1.3	40	7.5
	Arsenic (As)	4.4		1.0	ug/g	24-JAN-22	18	18	18
	Barium (Ba)	38.1		1.0	ug/g	24-JAN-22	220	670	390
	Beryllium (Be)	<0.50		0.50	ug/g	24-JAN-22	2.5	8	4
	Boron (B)	10.1		5.0	ug/g	24-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	24-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	17.6		1.0	ug/g	24-JAN-22	70	160	160
	Cobalt (Co)	9.0		1.0	ug/g	24-JAN-22	21	80	22
	Copper (Cu)	26.6		1.0	ug/g	24-JAN-22	92	230	140
	Lead (Pb)	6.6		1.0	ug/g	24-JAN-22	120	120	120

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2679135-7	BH313-22 SS6 13-17'								
Sampled By:	CLIENT on 12-JAN-22 @ 12:30								
Matrix:	SOIL								
Metals									
	Molybdenum (Mo)	<1.0		1.0	ug/g	24-JAN-22	2	40	6.9
	Nickel (Ni)	19.1		1.0	ug/g	24-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	24-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	24-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	24-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	24-JAN-22	2.5	33	23
	Vanadium (V)	26.0		1.0	ug/g	24-JAN-22	86	86	86
	Zinc (Zn)	43.1		5.0	ug/g	24-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	19-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	19-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	19-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	19-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	19-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	21-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	107.9		50-140	%	19-JAN-22			
	Surrogate: 1,4-Difluorobenzene	115.0		50-140	%	19-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	21-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	21-JAN-22	10	26	10
	F3 (C16-C34)	<50		50	ug/g	21-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	21-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	21-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	21-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	84.5		60-140	%	21-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	97.6		60-140	%	19-JAN-22			
L2679135-12	BH316-22 SS1 0-2'								
Sampled By:	CLIENT on 13-JAN-22 @ 14:00								
Matrix:	SOIL								
Physical Tests									
	% Moisture	14.3		0.25	%	20-JAN-22			
	pH	7.67		0.10	pH units	20-JAN-22			
Metals									
	Antimony (Sb)	5.8		1.0	ug/g	24-JAN-22	*1.3	40	7.5
	Arsenic (As)	11.4		1.0	ug/g	24-JAN-22	18	18	18
	Barium (Ba)	156		1.0	ug/g	24-JAN-22	220	670	390
	Beryllium (Be)	<0.50		0.50	ug/g	24-JAN-22	2.5	8	4
	Boron (B)	8.6		5.0	ug/g	24-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	24-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	23.1		1.0	ug/g	24-JAN-22	70	160	160
	Cobalt (Co)	9.8		1.0	ug/g	24-JAN-22	21	80	22
	Copper (Cu)	172		1.0	ug/g	24-JAN-22	*92	230	*140
	Lead (Pb)	526		1.0	ug/g	24-JAN-22	*120	*120	*120
	Molybdenum (Mo)	1.7		1.0	ug/g	24-JAN-22	2	40	6.9

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2679135-12	BH316-22 SS1 0-2'								
Sampled By:	CLIENT on 13-JAN-22 @ 14:00								
Matrix:	SOIL								
Metals									
	Nickel (Ni)	19.3		1.0	ug/g	24-JAN-22	82	270	100
	Selenium (Se)	1.6		1.0	ug/g	24-JAN-22	*1.5	5.5	2.4
	Silver (Ag)	0.21		0.20	ug/g	24-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	24-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	24-JAN-22	2.5	33	23
	Vanadium (V)	28.3		1.0	ug/g	24-JAN-22	86	86	86
	Zinc (Zn)	136		5.0	ug/g	24-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	19-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	19-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	19-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	19-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	19-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	21-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	97.5		50-140	%	19-JAN-22			
	Surrogate: 1,4-Difluorobenzene	104.6		50-140	%	19-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	21-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	21-JAN-22	10	26	10
	F2-Naphth	<10		10	ug/g	21-JAN-22			
	F3 (C16-C34)	<50		50	ug/g	21-JAN-22	240	1700	300
	F3-PAH	<50		50	ug/g	21-JAN-22			
	F4 (C34-C50)	<50		50	ug/g	21-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	21-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	21-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	86.1		60-140	%	21-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	99.4		60-140	%	19-JAN-22			
Polycyclic Aromatic Hydrocarbons									
	Acenaphthene	0.136		0.050	ug/g	21-JAN-22	*0.072	15	*0.093
	Acenaphthylene	<0.050		0.050	ug/g	21-JAN-22	0.093	0.093	14
	Anthracene	0.583		0.050	ug/g	21-JAN-22	*0.16	*0.16	*0.16
	Benzo(a)anthracene	0.603		0.050	ug/g	21-JAN-22	*0.36	1	*0.5
	Benzo(a)pyrene	0.430		0.050	ug/g	21-JAN-22	*0.3	0.7	0.57
	Benzo(b&j)fluoranthene	0.510		0.050	ug/g	21-JAN-22	*0.47	7	5.7
	Benzo(g,h,i)perylene	0.191		0.050	ug/g	21-JAN-22	0.68	13	6.6
	Benzo(k)fluoranthene	0.218		0.050	ug/g	21-JAN-22	0.48	7	5.7
	Chrysene	0.497		0.050	ug/g	21-JAN-22	2.8	14	7
	Dibenz(a,h)anthracene	0.060		0.050	ug/g	21-JAN-22	0.1	0.7	0.57
	Fluoranthene	1.55		0.050	ug/g	21-JAN-22	*0.56	70	*0.69
	Fluorene	0.278		0.050	ug/g	21-JAN-22	*0.12	6.8	6.8
	Indeno(1,2,3-cd)pyrene	0.221		0.050	ug/g	21-JAN-22	0.23	0.76	0.38
	1+2-Methylnaphthalenes	0.108		0.042	ug/g	21-JAN-22	0.59	8.7	0.92
	1-Methylnaphthalene	0.058		0.030	ug/g	21-JAN-22	0.59	8.7	0.92
	2-Methylnaphthalene	0.050		0.030	ug/g	21-JAN-22	0.59	8.7	0.92
	Naphthalene	0.027		0.013	ug/g	21-JAN-22	0.09	1.8	0.59

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2679135-12	BH316-22 SS1 0-2'								
Sampled By:	CLIENT on 13-JAN-22 @ 14:00								
Matrix:	SOIL								
Polycyclic Aromatic Hydrocarbons									
	Phenanthrene	1.61		0.046	ug/g	21-JAN-22	*0.69	12	6.2
	Pyrene	1.12		0.050	ug/g	21-JAN-22	*1	70	70
	Surrogate: 2-Fluorobiphenyl	104.0		50-140	%	21-JAN-22			
	Surrogate: d14-Terphenyl	106.6		50-140	%	21-JAN-22			
L2679135-13	BH316-22 SS101 0-2'								
Sampled By:	CLIENT on 13-JAN-22 @ 14:10								
Matrix:	SOIL								
Physical Tests									
	% Moisture	16.5		0.25	%	20-JAN-22			
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	19-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	19-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	19-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	19-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	19-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	21-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	102.5		50-140	%	19-JAN-22			
	Surrogate: 1,4-Difluorobenzene	107.6		50-140	%	19-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	21-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	21-JAN-22	10	26	10
	F3 (C16-C34)	67		50	ug/g	21-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	21-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	21-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	21-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	85.3		60-140	%	21-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	92.9		60-140	%	19-JAN-22			
L2679135-15	BH316-22 SS3 5-7'								
Sampled By:	CLIENT on 13-JAN-22 @ 14:45								
Matrix:	SOIL								
Physical Tests									
	% Moisture	10.2		0.25	%	20-JAN-22			
	pH	7.86		0.10	pH units	20-JAN-22			
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	24-JAN-22	1.3	40	7.5
	Arsenic (As)	5.7		1.0	ug/g	24-JAN-22	18	18	18
	Barium (Ba)	65.5		1.0	ug/g	24-JAN-22	220	670	390
	Beryllium (Be)	0.55		0.50	ug/g	24-JAN-22	2.5	8	4
	Boron (B)	8.9		5.0	ug/g	24-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	24-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	18.1		1.0	ug/g	24-JAN-22	70	160	160
	Cobalt (Co)	10.7		1.0	ug/g	24-JAN-22	21	80	22
	Copper (Cu)	33.3		1.0	ug/g	24-JAN-22	92	230	140

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2679135-15	BH316-22 SS3 5-7'								
Sampled By:	CLIENT on 13-JAN-22 @ 14:45								
Matrix:	SOIL								
Metals									
	Lead (Pb)	9.1		1.0	ug/g	24-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	24-JAN-22	2	40	6.9
	Nickel (Ni)	21.8		1.0	ug/g	24-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	24-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	24-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	24-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	24-JAN-22	2.5	33	23
	Vanadium (V)	27.2		1.0	ug/g	24-JAN-22	86	86	86
	Zinc (Zn)	50.2		5.0	ug/g	24-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	19-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	19-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	19-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	19-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	19-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	21-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	100.9		50-140	%	19-JAN-22			
	Surrogate: 1,4-Difluorobenzene	107.4		50-140	%	19-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	21-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	21-JAN-22	10	26	10
	F3 (C16-C34)	<50		50	ug/g	21-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	21-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	21-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	21-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	85.0		60-140	%	21-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	97.8		60-140	%	19-JAN-22			
L2679135-17	BH316-22 SS5 10-12'								
Sampled By:	CLIENT on 13-JAN-22 @ 15:15								
Matrix:	SOIL								
Physical Tests									
	% Moisture	9.10		0.25	%	20-JAN-22			
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	24-JAN-22	1.3	40	7.5
	Arsenic (As)	5.4		1.0	ug/g	24-JAN-22	18	18	18
	Barium (Ba)	61.5		1.0	ug/g	24-JAN-22	220	670	390
	Beryllium (Be)	0.53		0.50	ug/g	24-JAN-22	2.5	8	4
	Boron (B)	8.8		5.0	ug/g	24-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	24-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	18.4		1.0	ug/g	24-JAN-22	70	160	160
	Cobalt (Co)	11.0		1.0	ug/g	24-JAN-22	21	80	22
	Copper (Cu)	41.4		1.0	ug/g	24-JAN-22	92	230	140
	Lead (Pb)	8.1		1.0	ug/g	24-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	24-JAN-22	2	40	6.9

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2679135-17 BH316-22 SS5 10-12'									
Sampled By: CLIENT on 13-JAN-22 @ 15:15									
Matrix: SOIL									
Metals									
	Nickel (Ni)	22.2		1.0	ug/g	24-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	24-JAN-22	1.5	5.5	2.4
	Silver (Ag)	<0.20		0.20	ug/g	24-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	24-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	24-JAN-22	2.5	33	23
	Vanadium (V)	27.0		1.0	ug/g	24-JAN-22	86	86	86
	Zinc (Zn)	50.6		5.0	ug/g	24-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	19-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	19-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	19-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	19-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	19-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	21-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	102.3		50-140	%	19-JAN-22			
	Surrogate: 1,4-Difluorobenzene	106.7		50-140	%	19-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	19-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	21-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	21-JAN-22	10	26	10
	F3 (C16-C34)	<50		50	ug/g	21-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	21-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	21-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	21-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	81.8		60-140	%	21-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	96.0		60-140	%	19-JAN-22			
L2679135-18 BH316-22 SS6 15-17'									
Sampled By: CLIENT on 13-JAN-22 @ 15:30									
Matrix: SOIL									
Physical Tests									
	% Moisture	8.34		0.25	%	20-JAN-22			
Metals									
	Antimony (Sb)	<1.0		1.0	ug/g	24-JAN-22	1.3	40	7.5
	Arsenic (As)	4.6		1.0	ug/g	24-JAN-22	18	18	18
	Barium (Ba)	44.1		1.0	ug/g	24-JAN-22	220	670	390
	Beryllium (Be)	<0.50		0.50	ug/g	24-JAN-22	2.5	8	4
	Boron (B)	9.0		5.0	ug/g	24-JAN-22	36	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	24-JAN-22	1.2	1.9	1.2
	Chromium (Cr)	16.9		1.0	ug/g	24-JAN-22	70	160	160
	Cobalt (Co)	8.9		1.0	ug/g	24-JAN-22	21	80	22
	Copper (Cu)	27.4		1.0	ug/g	24-JAN-22	92	230	140
	Lead (Pb)	11.1		1.0	ug/g	24-JAN-22	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	24-JAN-22	2	40	6.9
	Nickel (Ni)	18.7		1.0	ug/g	24-JAN-22	82	270	100
	Selenium (Se)	<1.0		1.0	ug/g	24-JAN-22	1.5	5.5	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:

Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3
L2679135-18	BH316-22 SS6 15-17'								
Sampled By:	CLIENT on 13-JAN-22 @ 15:30								
Matrix:	SOIL								
Metals									
	Silver (Ag)	<0.20		0.20	ug/g	24-JAN-22	0.5	40	20
	Thallium (Tl)	<0.50		0.50	ug/g	24-JAN-22	1	3.3	1
	Uranium (U)	<1.0		1.0	ug/g	24-JAN-22	2.5	33	23
	Vanadium (V)	24.6		1.0	ug/g	24-JAN-22	86	86	86
	Zinc (Zn)	42.9		5.0	ug/g	24-JAN-22	290	340	340
Volatile Organic Compounds									
	Benzene	<0.0068		0.0068	ug/g	20-JAN-22	0.02	0.034	0.02
	Ethylbenzene	<0.018		0.018	ug/g	20-JAN-22	0.05	1.9	1.9
	Toluene	<0.080		0.080	ug/g	20-JAN-22	0.2	7.8	0.99
	o-Xylene	<0.020		0.020	ug/g	20-JAN-22			
	m+p-Xylenes	<0.030		0.030	ug/g	20-JAN-22			
	Xylenes (Total)	<0.050		0.050	ug/g	21-JAN-22	0.05	3	0.9
	Surrogate: 4-Bromofluorobenzene	106.1		50-140	%	20-JAN-22			
	Surrogate: 1,4-Difluorobenzene	109.3		50-140	%	20-JAN-22			
Hydrocarbons									
	F1 (C6-C10)	<5.0		5.0	ug/g	20-JAN-22	25	25	25
	F1-BTEX	<5.0		5.0	ug/g	21-JAN-22	25	25	25
	F2 (C10-C16)	<10		10	ug/g	21-JAN-22	10	26	10
	F3 (C16-C34)	<50		50	ug/g	21-JAN-22	240	1700	300
	F4 (C34-C50)	<50		50	ug/g	21-JAN-22	120	3300	2800
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	21-JAN-22			
	Chrom. to baseline at nC50	YES			No Unit	21-JAN-22			
	Surrogate: 2-Bromobenzotrifluoride	85.6		60-140	%	21-JAN-22			
	Surrogate: 3,4-Dichlorotoluene	98.8		60-140	%	20-JAN-22			

** 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 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

#3: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).

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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

CHLORDANE-T-CALC-WT	Soil	Chlordane Total sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

DDD-DDE-DDT-CALC-WT	Soil	DDD, DDE, DDT sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

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).

ENDOSULFAN-T-CALC-WT	Soil	Endosulfan Total sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

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 and as of November 30, 2020), 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 and as of November 30, 2020), 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 200.2/6020B (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)

OCP-TRACE-WT Soil Low level OC Pesticides in Soil/Sediment SW846 8270

A 5g representative sub-sample of the soil sample is mixed with methanol and extracted with toluene. An aliquot is taken and analyzed by 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).

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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

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 and as of November 30, 2020), 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	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: L2679135 Report Date: 25-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Soil**							
Batch R5700015								
WG3686349-4 DUP		**WG3686349-3**						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	19-JAN-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	19-JAN-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	19-JAN-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-JAN-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	19-JAN-22
WG3686349-2 LCS								
Benzene			100.5		%		70-130	19-JAN-22
Ethylbenzene			100.9		%		70-130	19-JAN-22
m+p-Xylenes			101.5		%		70-130	19-JAN-22
o-Xylene			100.2		%		70-130	19-JAN-22
Toluene			99.3		%		70-130	19-JAN-22
WG3686349-1 MB								
Benzene			<0.0068		ug/g		0.0068	19-JAN-22
Ethylbenzene			<0.018		ug/g		0.018	19-JAN-22
m+p-Xylenes			<0.030		ug/g		0.03	19-JAN-22
o-Xylene			<0.020		ug/g		0.02	19-JAN-22
Toluene			<0.080		ug/g		0.08	19-JAN-22
Surrogate: 1,4-Difluorobenzene			118.9		%		50-140	19-JAN-22
Surrogate: 4-Bromofluorobenzene			115.0		%		50-140	19-JAN-22
WG3686349-5 MS		**WG3686349-3**						
Benzene			108.0		%		60-140	19-JAN-22
Ethylbenzene			103.9		%		60-140	19-JAN-22
m+p-Xylenes			103.5		%		60-140	19-JAN-22
o-Xylene			104.4		%		60-140	19-JAN-22
Toluene			104.5		%		60-140	19-JAN-22
Batch R5700556								
WG3686368-24 DUP		**WG3686368-23**						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	20-JAN-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	20-JAN-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	20-JAN-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	20-JAN-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	20-JAN-22
WG3686368-22 LCS								
Benzene			107.8		%		70-130	19-JAN-22

Quality Control Report

Workorder: L2679135 Report Date: 25-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Soil**							
Batch R5700556								
WG3686368-22 LCS								
Ethylbenzene			101.2		%		70-130	19-JAN-22
m+p-Xylenes			94.2		%		70-130	19-JAN-22
o-Xylene			99.5		%		70-130	19-JAN-22
Toluene			102.7		%		70-130	19-JAN-22
WG3686368-21 MB								
Benzene			<0.0068		ug/g		0.0068	19-JAN-22
Ethylbenzene			<0.018		ug/g		0.018	19-JAN-22
m+p-Xylenes			<0.030		ug/g		0.03	19-JAN-22
o-Xylene			<0.020		ug/g		0.02	19-JAN-22
Toluene			<0.080		ug/g		0.08	19-JAN-22
Surrogate: 1,4-Difluorobenzene			110.4		%		50-140	19-JAN-22
Surrogate: 4-Bromofluorobenzene			108.7		%		50-140	19-JAN-22
WG3686368-25 MS		**WG3686368-23**						
Benzene			116.4		%		60-140	20-JAN-22
Ethylbenzene			115.6		%		60-140	20-JAN-22
m+p-Xylenes			107.8		%		60-140	20-JAN-22
o-Xylene			113.3		%		60-140	20-JAN-22
Toluene			115.2		%		60-140	20-JAN-22
EC-WT	**Soil**							
Batch R5705199								
WG3687722-4 DUP		**WG3687722-3**						
Conductivity		0.195	0.207		mS/cm	6.2	20	24-JAN-22
WG3687722-2 IRM		**WT SAR4**						
Conductivity			107.0		%		70-130	24-JAN-22
WG3688058-1 LCS								
Conductivity			103.3		%		90-110	24-JAN-22
WG3687722-1 MB								
Conductivity			<0.0040		mS/cm		0.004	24-JAN-22
F1-HS-511-WT	**Soil**							
Batch R5700015								
WG3686349-4 DUP		**WG3686349-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	19-JAN-22
WG3686349-2 LCS								
F1 (C6-C10)			105.5		%		80-120	19-JAN-22
WG3686349-1 MB								

Quality Control Report

Workorder: L2679135 Report Date: 25-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Soil**							
Batch R5700015								
WG3686349-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	19-JAN-22
Surrogate: 3,4-Dichlorotoluene			119.4		%		60-140	19-JAN-22
WG3686349-5 MS		**WG3686349-3**						
F1 (C6-C10)			104.5		%		60-140	19-JAN-22
Batch R5700556								
WG3686368-24 DUP		**WG3686368-23**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	20-JAN-22
WG3686368-22 LCS								
F1 (C6-C10)			102.4		%		80-120	19-JAN-22
WG3686368-21 MB								
F1 (C6-C10)			<5.0		ug/g		5	19-JAN-22
Surrogate: 3,4-Dichlorotoluene			83.2		%		60-140	19-JAN-22
WG3686368-25 MS		**WG3686368-23**						
F1 (C6-C10)			63.9		%		60-140	20-JAN-22
F2-F4-511-WT	**Soil**							
Batch R5703022								
WG3686832-3 DUP		**WG3686832-5**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	21-JAN-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	21-JAN-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	21-JAN-22
WG3686832-2 LCS								
F2 (C10-C16)			93.8		%		80-120	21-JAN-22
F3 (C16-C34)			92.4		%		80-120	21-JAN-22
F4 (C34-C50)			98.5		%		80-120	21-JAN-22
WG3686832-1 MB								
F2 (C10-C16)			<10		ug/g		10	21-JAN-22
F3 (C16-C34)			<50		ug/g		50	21-JAN-22
F4 (C34-C50)			<50		ug/g		50	21-JAN-22
Surrogate: 2-Bromobenzotrifluoride			91.4		%		60-140	21-JAN-22
WG3686832-4 MS		**WG3686832-5**						
F2 (C10-C16)			83.8		%		60-140	21-JAN-22
F3 (C16-C34)			82.6		%		60-140	21-JAN-22
F4 (C34-C50)			87.8		%		60-140	21-JAN-22
MET-200.2-CCMS-WT	**Soil**							

Quality Control Report

Workorder: L2679135 Report Date: 25-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5705317								
WG3687697-9 CRM		**WT-SS-2**						
Antimony (Sb)			92.3		%		70-130	24-JAN-22
Arsenic (As)			104.4		%		70-130	24-JAN-22
Barium (Ba)			112.5		%		70-130	24-JAN-22
Beryllium (Be)			107.0		%		70-130	24-JAN-22
Boron (B)			8.5		mg/kg		3.5-13.5	24-JAN-22
Cadmium (Cd)			103.5		%		70-130	24-JAN-22
Chromium (Cr)			102.7		%		70-130	24-JAN-22
Cobalt (Co)			106.9		%		70-130	24-JAN-22
Copper (Cu)			111.2		%		70-130	24-JAN-22
Lead (Pb)			102.2		%		70-130	24-JAN-22
Molybdenum (Mo)			113.2		%		70-130	24-JAN-22
Nickel (Ni)			106.8		%		70-130	24-JAN-22
Selenium (Se)			0.14		mg/kg		0-0.34	24-JAN-22
Silver (Ag)			105.4		%		70-130	24-JAN-22
Thallium (Tl)			0.076		mg/kg		0.029-0.129	24-JAN-22
Uranium (U)			96.8		%		70-130	24-JAN-22
Vanadium (V)			105.6		%		70-130	24-JAN-22
Zinc (Zn)			105.7		%		70-130	24-JAN-22
WG3687697-13 DUP		**WG3687697-12**						
Antimony (Sb)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	24-JAN-22
Arsenic (As)		1.77	1.73		ug/g	2.5	30	24-JAN-22
Barium (Ba)		19.3	19.0		ug/g	1.3	40	24-JAN-22
Beryllium (Be)		0.19	0.18		ug/g	5.9	30	24-JAN-22
Boron (B)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	24-JAN-22
Cadmium (Cd)		0.045	0.043		ug/g	3.0	30	24-JAN-22
Chromium (Cr)		8.60	9.42		ug/g	9.0	30	24-JAN-22
Cobalt (Co)		3.12	3.23		ug/g	3.3	30	24-JAN-22
Copper (Cu)		9.04	9.00		ug/g	0.4	30	24-JAN-22
Lead (Pb)		4.89	4.77		ug/g	2.4	40	24-JAN-22
Molybdenum (Mo)		0.26	0.26		ug/g	1.9	40	24-JAN-22
Nickel (Ni)		6.07	6.14		ug/g	1.1	30	24-JAN-22
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	24-JAN-22
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	24-JAN-22

Quality Control Report

Workorder: L2679135 Report Date: 25-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5705317								
WG3687697-13 DUP		**WG3687697-12**						
Thallium (Tl)		0.067	0.059		ug/g	13	30	24-JAN-22
Uranium (U)		0.346	0.430		ug/g	22	30	24-JAN-22
Vanadium (V)		20.4	22.1		ug/g	8.0	30	24-JAN-22
Zinc (Zn)		19.4	19.5		ug/g	0.7	30	24-JAN-22
WG3687697-11 LCS								
Antimony (Sb)			105.4		%		80-120	24-JAN-22
Arsenic (As)			105.8		%		80-120	24-JAN-22
Barium (Ba)			103.4		%		80-120	24-JAN-22
Beryllium (Be)			98.6		%		80-120	24-JAN-22
Boron (B)			94.4		%		80-120	24-JAN-22
Cadmium (Cd)			101.0		%		80-120	24-JAN-22
Chromium (Cr)			106.7		%		80-120	24-JAN-22
Cobalt (Co)			105.4		%		80-120	24-JAN-22
Copper (Cu)			103.6		%		80-120	24-JAN-22
Lead (Pb)			105.0		%		80-120	24-JAN-22
Molybdenum (Mo)			102.9		%		80-120	24-JAN-22
Nickel (Ni)			103.9		%		80-120	24-JAN-22
Selenium (Se)			108.2		%		80-120	24-JAN-22
Silver (Ag)			87.1		%		80-120	24-JAN-22
Thallium (Tl)			102.9		%		80-120	24-JAN-22
Uranium (U)			99.3		%		80-120	24-JAN-22
Vanadium (V)			108.4		%		80-120	24-JAN-22
Zinc (Zn)			103.1		%		80-120	24-JAN-22
WG3687697-8 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	24-JAN-22
Arsenic (As)			<0.10		mg/kg		0.1	24-JAN-22
Barium (Ba)			<0.50		mg/kg		0.5	24-JAN-22
Beryllium (Be)			<0.10		mg/kg		0.1	24-JAN-22
Boron (B)			<5.0		mg/kg		5	24-JAN-22
Cadmium (Cd)			<0.020		mg/kg		0.02	24-JAN-22
Chromium (Cr)			<0.50		mg/kg		0.5	24-JAN-22
Cobalt (Co)			<0.10		mg/kg		0.1	24-JAN-22
Copper (Cu)			<0.50		mg/kg		0.5	24-JAN-22
Lead (Pb)			<0.50		mg/kg		0.5	24-JAN-22

Quality Control Report

Workorder: L2679135 Report Date: 25-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5705317								
WG3687697-8 MB								
Molybdenum (Mo)			<0.10		mg/kg		0.1	24-JAN-22
Nickel (Ni)			<0.50		mg/kg		0.5	24-JAN-22
Selenium (Se)			<0.20		mg/kg		0.2	24-JAN-22
Silver (Ag)			<0.10		mg/kg		0.1	24-JAN-22
Thallium (Tl)			<0.050		mg/kg		0.05	24-JAN-22
Uranium (U)			<0.050		mg/kg		0.05	24-JAN-22
Vanadium (V)			<0.20		mg/kg		0.2	24-JAN-22
Zinc (Zn)			<2.0		mg/kg		2	24-JAN-22
MOISTURE-WT	**Soil**							
Batch R5702816								
WG3686840-3 DUP		**L2679134-73**						
% Moisture		4.39	4.29		%	2.3	20	20-JAN-22
WG3686840-2 LCS								
% Moisture			99.7		%		90-110	20-JAN-22
WG3686840-1 MB								
% Moisture			<0.25		%		0.25	20-JAN-22
OCP-TRACE-WT	**Soil**							
Batch R5700578								
WG3685906-3 DUP		**WG3685906-5**						
Aldrin		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	21-JAN-22
a-chlordane		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
g-chlordane		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
o,p-DDD		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
pp-DDD		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
o,p-DDE		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
pp-DDE		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
op-DDT		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
pp-DDT		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
Dieldrin		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	21-JAN-22
alpha-Endosulfan		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
beta-Endosulfan		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	21-JAN-22
Endrin		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	21-JAN-22
Heptachlor		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	21-JAN-22
Heptachlor Epoxide		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	21-JAN-22

Quality Control Report

Workorder: L2679135 Report Date: 25-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT	**Soil**							
Batch R5700578								
WG3685906-3 DUP		**WG3685906-5**						
Hexachlorobenzene		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	21-JAN-22
Hexachlorobutadiene		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	21-JAN-22
Hexachloroethane		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	21-JAN-22
Lindane		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	21-JAN-22
Methoxychlor		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	21-JAN-22
WG3685906-2 LCS								
Aldrin			87.9		%		50-150	19-JAN-22
a-chlordane			85.0		%		50-150	19-JAN-22
g-chlordane			88.4		%		50-150	19-JAN-22
o,p-DDD			81.5		%		50-150	19-JAN-22
pp-DDD			86.9		%		50-150	19-JAN-22
o,p-DDE			78.5		%		50-150	19-JAN-22
pp-DDE			86.4		%		50-150	19-JAN-22
op-DDT			80.8		%		50-150	19-JAN-22
pp-DDT			84.8		%		50-150	19-JAN-22
Dieldrin			86.4		%		50-150	19-JAN-22
alpha-Endosulfan			86.8		%		50-150	19-JAN-22
beta-Endosulfan			85.0		%		50-150	19-JAN-22
Endrin			74.2		%		50-150	19-JAN-22
Heptachlor			87.5		%		50-150	19-JAN-22
Heptachlor Epoxide			89.9		%		50-150	19-JAN-22
Hexachlorobenzene			83.3		%		50-150	19-JAN-22
Hexachlorobutadiene			79.3		%		50-150	19-JAN-22
Hexachloroethane			82.3		%		50-150	19-JAN-22
Lindane			83.7		%		50-150	19-JAN-22
Methoxychlor			96.2		%		50-150	19-JAN-22
WG3685906-1 MB								
Aldrin			<0.00020		ug/g		0.0002	19-JAN-22
a-chlordane			<0.00030		ug/g		0.0003	19-JAN-22
g-chlordane			<0.00030		ug/g		0.0003	19-JAN-22
o,p-DDD			<0.00030		ug/g		0.0003	19-JAN-22
pp-DDD			<0.00030		ug/g		0.0003	19-JAN-22
o,p-DDE			<0.00030		ug/g		0.0003	19-JAN-22
pp-DDE			<0.00030		ug/g		0.0003	19-JAN-22

Quality Control Report

Workorder: L2679135 Report Date: 25-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT	**Soil**							
Batch	**R5700578**							
WG3685906-1	**MB**							
op-DDT			<0.00030		ug/g		0.0003	19-JAN-22
pp-DDT			<0.00030		ug/g		0.0003	19-JAN-22
Dieldrin			<0.00020		ug/g		0.0002	19-JAN-22
alpha-Endosulfan			<0.00030		ug/g		0.0003	19-JAN-22
beta-Endosulfan			<0.00030		ug/g		0.0003	19-JAN-22
Endrin			<0.00050		ug/g		0.0005	19-JAN-22
Heptachlor			<0.00020		ug/g		0.0002	19-JAN-22
Heptachlor Epoxide			<0.00020		ug/g		0.0002	19-JAN-22
Hexachlorobenzene			<0.00050		ug/g		0.0005	19-JAN-22
Hexachlorobutadiene			<0.00050		ug/g		0.0005	19-JAN-22
Hexachloroethane			<0.00050		ug/g		0.0005	19-JAN-22
Lindane			<0.00020		ug/g		0.0002	19-JAN-22
Methoxychlor			<0.00050		ug/g		0.0005	19-JAN-22
Surrogate: Tetrachloro-m-xylene			89.8		%		50-150	19-JAN-22
Surrogate: Decachlorobiphenyl			108.3		%		50-150	19-JAN-22
WG3685906-4	**MS**	**WG3685906-5**						
Aldrin			87.5		%		50-150	21-JAN-22
a-chlordane			73.4		%		50-150	21-JAN-22
g-chlordane			76.6		%		50-150	21-JAN-22
o,p-DDD			73.1		%		50-150	21-JAN-22
pp-DDD			69.9		%		50-150	21-JAN-22
o,p-DDE			68.3		%		50-150	21-JAN-22
pp-DDE			75.5		%		50-150	21-JAN-22
op-DDT			79.3		%		50-150	21-JAN-22
pp-DDT			84.7		%		50-150	21-JAN-22
Dieldrin			74.1		%		50-150	21-JAN-22
alpha-Endosulfan			78.1		%		50-150	21-JAN-22
beta-Endosulfan			75.5		%		50-150	21-JAN-22
Endrin			95.7		%		50-150	21-JAN-22
Heptachlor			87.0		%		50-150	21-JAN-22
Heptachlor Epoxide			76.0		%		50-150	21-JAN-22
Hexachlorobenzene			78.9		%		50-150	21-JAN-22
Hexachlorobutadiene			74.2		%		50-150	21-JAN-22
Hexachloroethane			63.7		%		50-150	21-JAN-22

Quality Control Report

Workorder: L2679135 Report Date: 25-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT	**Soil**							
Batch R5700578								
WG3685906-4 MS		**WG3685906-5**						
Lindane			80.5		%		50-150	21-JAN-22
Methoxychlor			105.6		%		50-150	21-JAN-22
PAH-511-WT	**Soil**							
Batch R5703122								
WG3686839-3 DUP		**WG3686839-5**						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	21-JAN-22
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	21-JAN-22
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-JAN-22
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-JAN-22
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-JAN-22
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-JAN-22
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-JAN-22
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-JAN-22
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-JAN-22
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-JAN-22
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-JAN-22
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-JAN-22
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-JAN-22
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-JAN-22
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-JAN-22
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	21-JAN-22
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	21-JAN-22
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-JAN-22
WG3686839-2 LCS								
1-Methylnaphthalene			96.0		%		50-140	21-JAN-22
2-Methylnaphthalene			91.1		%		50-140	21-JAN-22
Acenaphthene			90.9		%		50-140	21-JAN-22
Acenaphthylene			88.1		%		50-140	21-JAN-22
Anthracene			79.2		%		50-140	21-JAN-22
Benzo(a)anthracene			86.4		%		50-140	21-JAN-22
Benzo(a)pyrene			88.4		%		50-140	21-JAN-22
Benzo(b&j)fluoranthene			92.8		%		50-140	21-JAN-22
Benzo(g,h,i)perylene			92.5		%		50-140	21-JAN-22

Quality Control Report

Workorder: L2679135 Report Date: 25-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5703122								
WG3686839-2 LCS								
Benzo(k)fluoranthene			88.6		%		50-140	21-JAN-22
Chrysene			98.1		%		50-140	21-JAN-22
Dibenz(a,h)anthracene			86.4		%		50-140	21-JAN-22
Fluoranthene			89.8		%		50-140	21-JAN-22
Fluorene			87.5		%		50-140	21-JAN-22
Indeno(1,2,3-cd)pyrene			85.0		%		50-140	21-JAN-22
Naphthalene			94.0		%		50-140	21-JAN-22
Phenanthrene			91.4		%		50-140	21-JAN-22
Pyrene			90.2		%		50-140	21-JAN-22
WG3686839-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	21-JAN-22
2-Methylnaphthalene			<0.030		ug/g		0.03	21-JAN-22
Acenaphthene			<0.050		ug/g		0.05	21-JAN-22
Acenaphthylene			<0.050		ug/g		0.05	21-JAN-22
Anthracene			<0.050		ug/g		0.05	21-JAN-22
Benzo(a)anthracene			<0.050		ug/g		0.05	21-JAN-22
Benzo(a)pyrene			<0.050		ug/g		0.05	21-JAN-22
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	21-JAN-22
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	21-JAN-22
Benzo(k)fluoranthene			<0.050		ug/g		0.05	21-JAN-22
Chrysene			<0.050		ug/g		0.05	21-JAN-22
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	21-JAN-22
Fluoranthene			<0.050		ug/g		0.05	21-JAN-22
Fluorene			<0.050		ug/g		0.05	21-JAN-22
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	21-JAN-22
Naphthalene			<0.013		ug/g		0.013	21-JAN-22
Phenanthrene			<0.046		ug/g		0.046	21-JAN-22
Pyrene			<0.050		ug/g		0.05	21-JAN-22
Surrogate: 2-Fluorobiphenyl			86.2		%		50-140	21-JAN-22
Surrogate: d14-Terphenyl			80.6		%		50-140	21-JAN-22
WG3686839-4 MS		**WG3686839-5**						
1-Methylnaphthalene			89.6		%		50-140	21-JAN-22
2-Methylnaphthalene			87.1		%		50-140	21-JAN-22
Acenaphthene			85.9		%		50-140	21-JAN-22

Quality Control Report

Workorder: L2679135 Report Date: 25-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5703122								
WG3686839-4 MS		**WG3686839-5**						
Acenaphthylene			84.3		%		50-140	21-JAN-22
Anthracene			82.8		%		50-140	21-JAN-22
Benzo(a)anthracene			89.6		%		50-140	21-JAN-22
Benzo(a)pyrene			85.2		%		50-140	21-JAN-22
Benzo(b&j)fluoranthene			92.3		%		50-140	21-JAN-22
Benzo(g,h,i)perylene			83.7		%		50-140	21-JAN-22
Benzo(k)fluoranthene			81.1		%		50-140	21-JAN-22
Chrysene			87.9		%		50-140	21-JAN-22
Dibenz(a,h)anthracene			81.3		%		50-140	21-JAN-22
Fluoranthene			88.6		%		50-140	21-JAN-22
Fluorene			83.4		%		50-140	21-JAN-22
Indeno(1,2,3-cd)pyrene			73.9		%		50-140	21-JAN-22
Naphthalene			88.5		%		50-140	21-JAN-22
Phenanthrene			87.1		%		50-140	21-JAN-22
Pyrene			86.5		%		50-140	21-JAN-22
PH-WT	**Soil**							
Batch R5701999								
WG3686786-1 DUP		**L2679561-5**						
pH		8.11	8.15	J	pH units	0.04	0.3	20-JAN-22
WG3686009-1 LCS								
pH			7.05		pH units		6.9-7.1	20-JAN-22
SAR-R511-WT	**Soil**							
Batch R5705817								
WG3687722-4 DUP		**WG3687722-3**						
Calcium (Ca)		3.16	3.43		mg/L	8.2	30	24-JAN-22
Sodium (Na)		40.3	40.4		mg/L	0.2	30	24-JAN-22
Magnesium (Mg)		<0.50	<0.50	RPD-NA	mg/L	N/A	30	24-JAN-22
WG3687722-2 IRM		**WT SAR4**						
Calcium (Ca)			106.5		%		70-130	24-JAN-22
Sodium (Na)			105.8		%		70-130	24-JAN-22
Magnesium (Mg)			108.2		%		70-130	24-JAN-22
WG3687722-5 LCS								
Calcium (Ca)			107.3		%		80-120	24-JAN-22
Sodium (Na)			104.4		%		80-120	24-JAN-22

Quality Control Report

Workorder: L2679135 Report Date: 25-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAR-R511-WT	**Soil**							
Batch R5705817								
WG3687722-5 LCS								
Magnesium (Mg)			104.4		%		80-120	24-JAN-22
WG3687722-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	24-JAN-22
Sodium (Na)			<0.50		mg/L		0.5	24-JAN-22
Magnesium (Mg)			<0.50		mg/L		0.5	24-JAN-22

Quality Control Report

Workorder: L2679135 Report Date: 25-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: JEN LAMBKE

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.

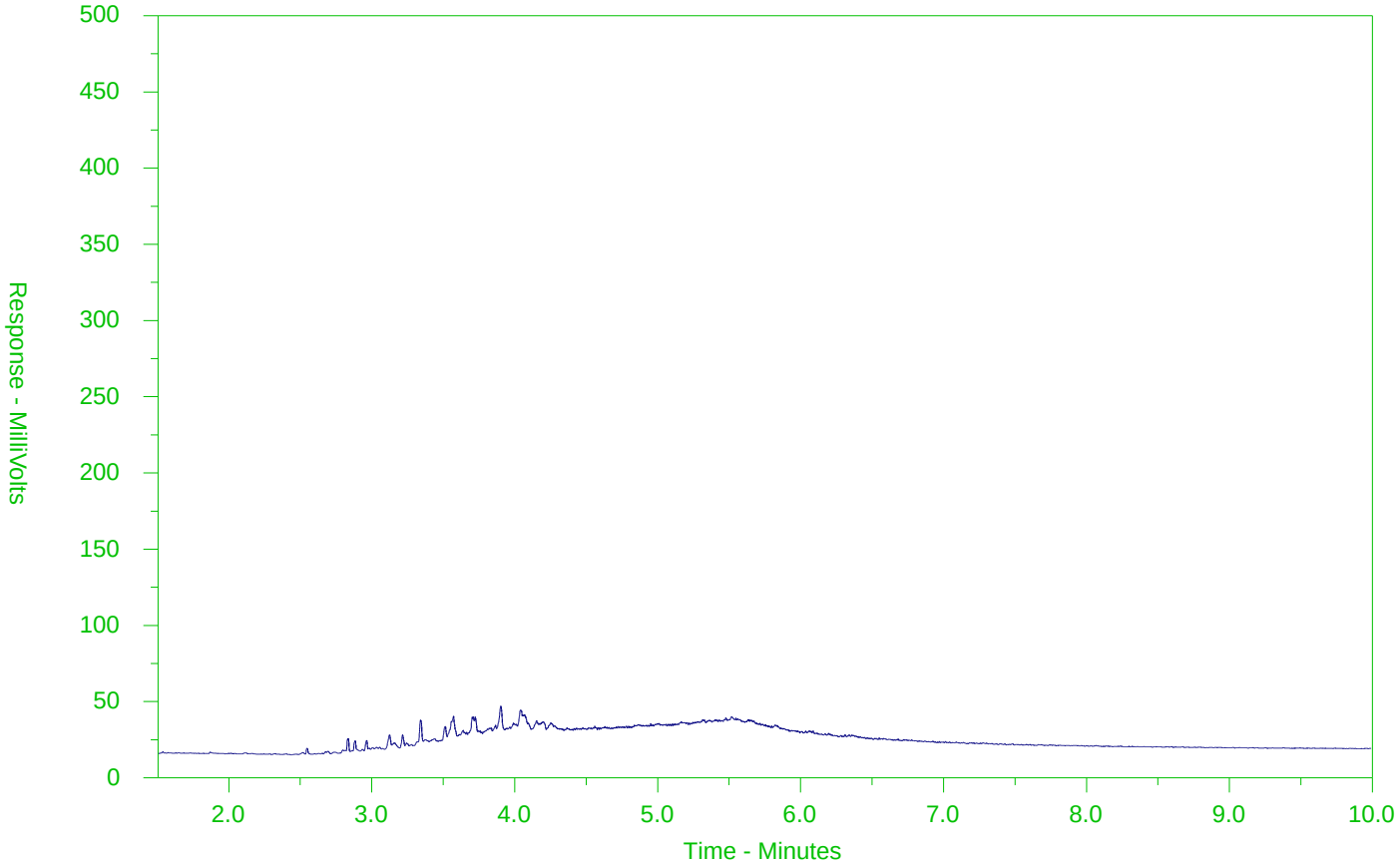
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where 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.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2679135-1
Client Sample ID: BH313-22 SS1 0-2'



←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.

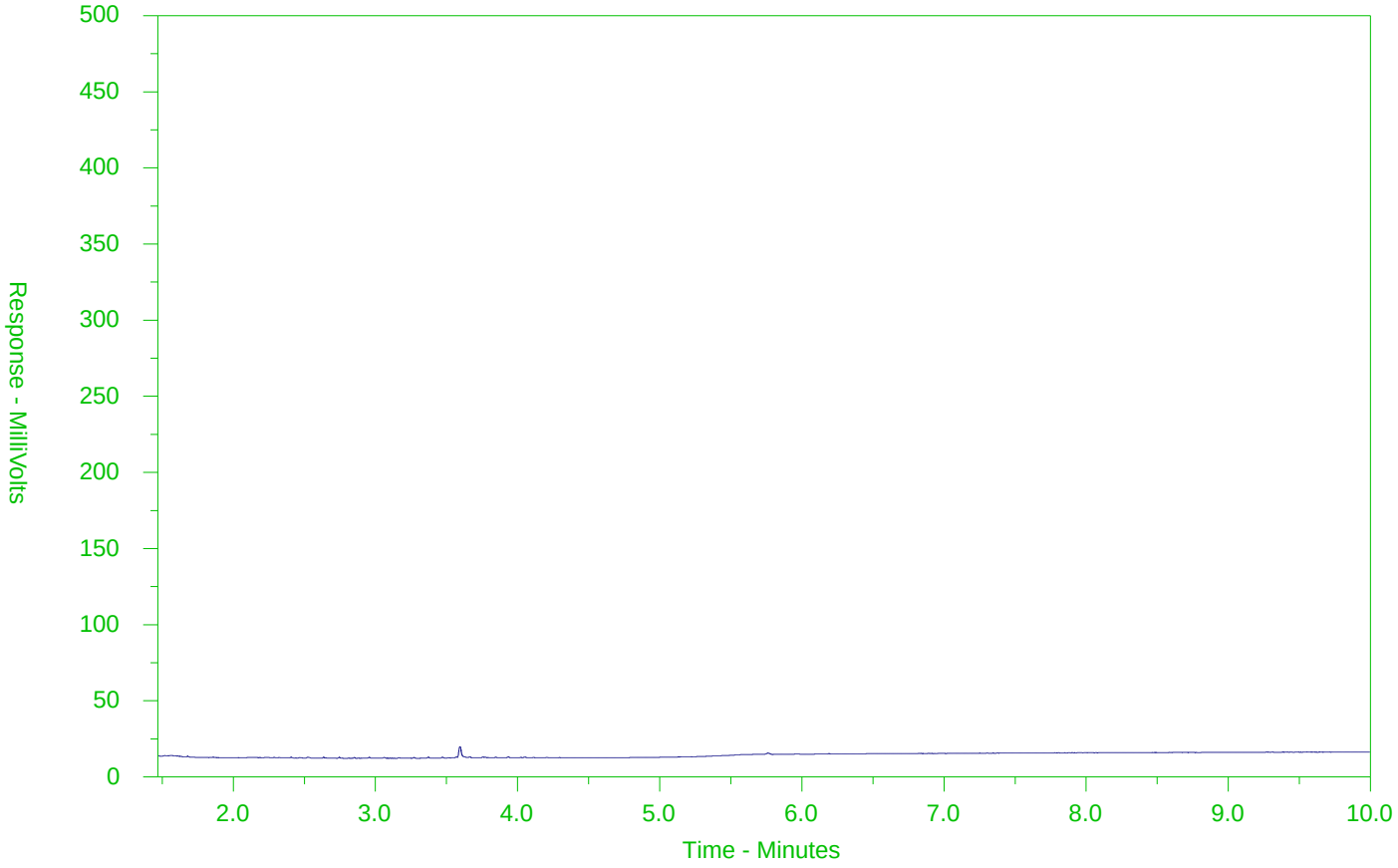
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2679135-3
Client Sample ID: BH313-22 SS2 2.5-4.5'



←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.

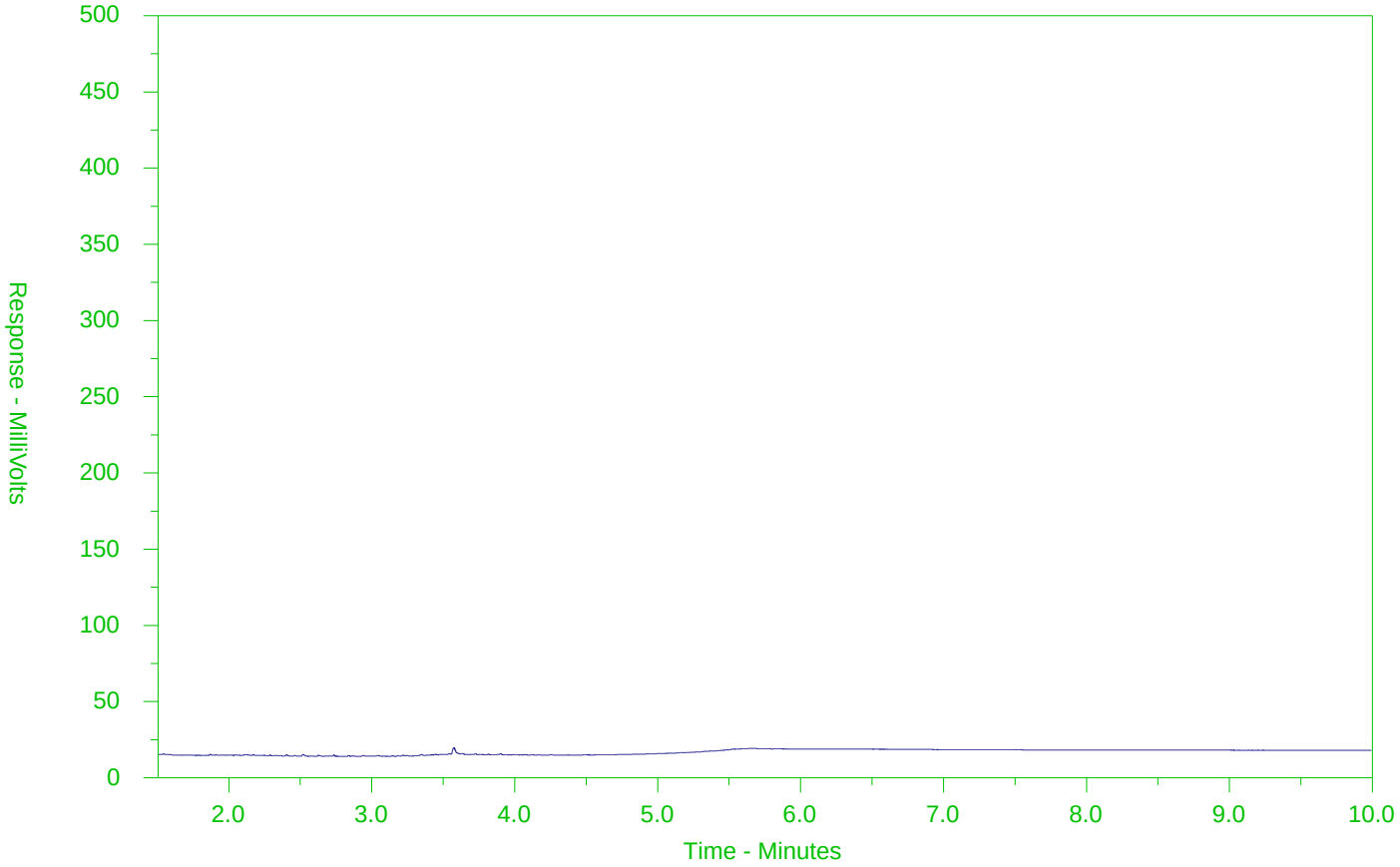
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2679135-5
Client Sample ID: BH313-22 SS4 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.

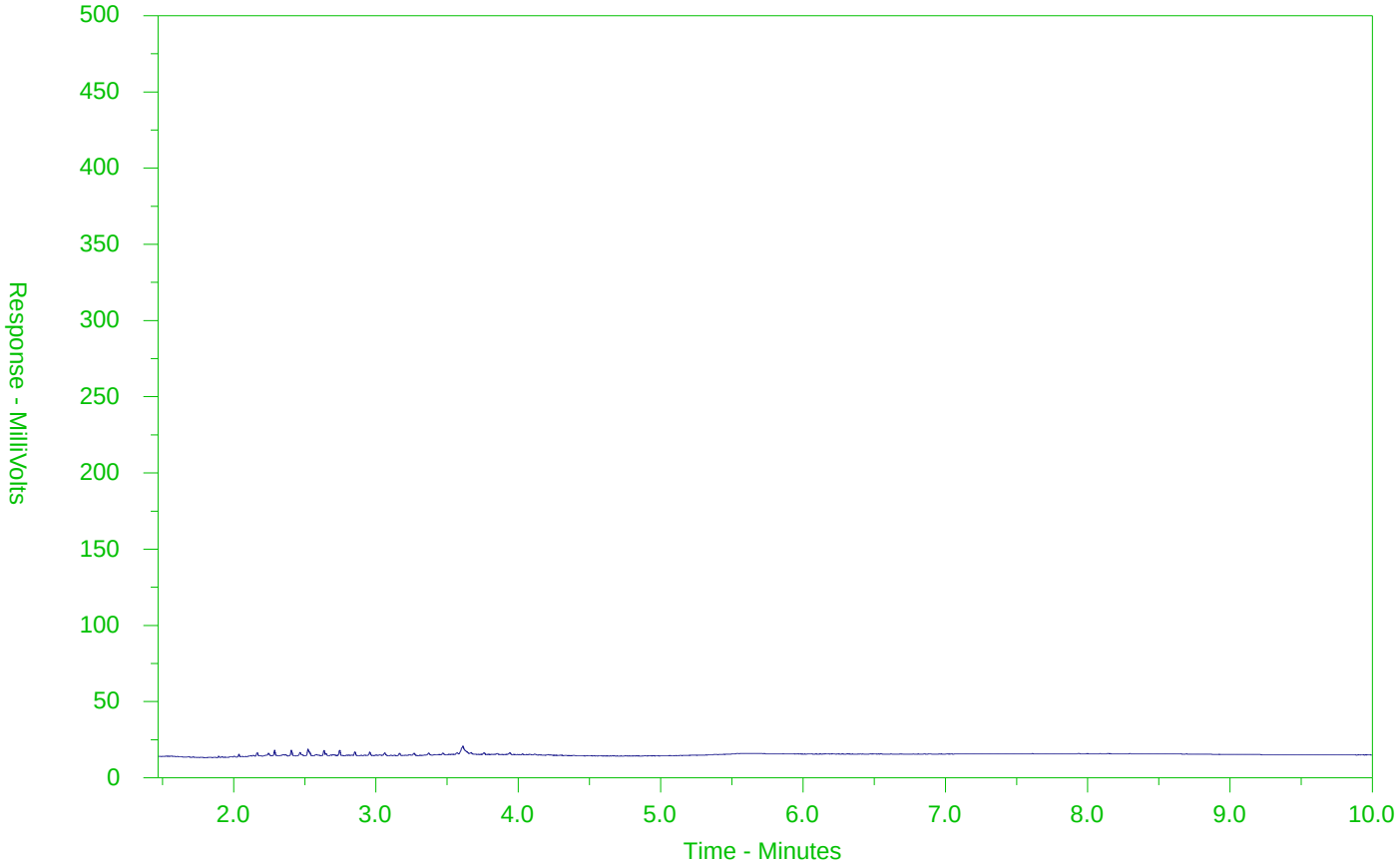
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2679135-7
Client Sample ID: BH313-22 SS6 13-17'



←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.

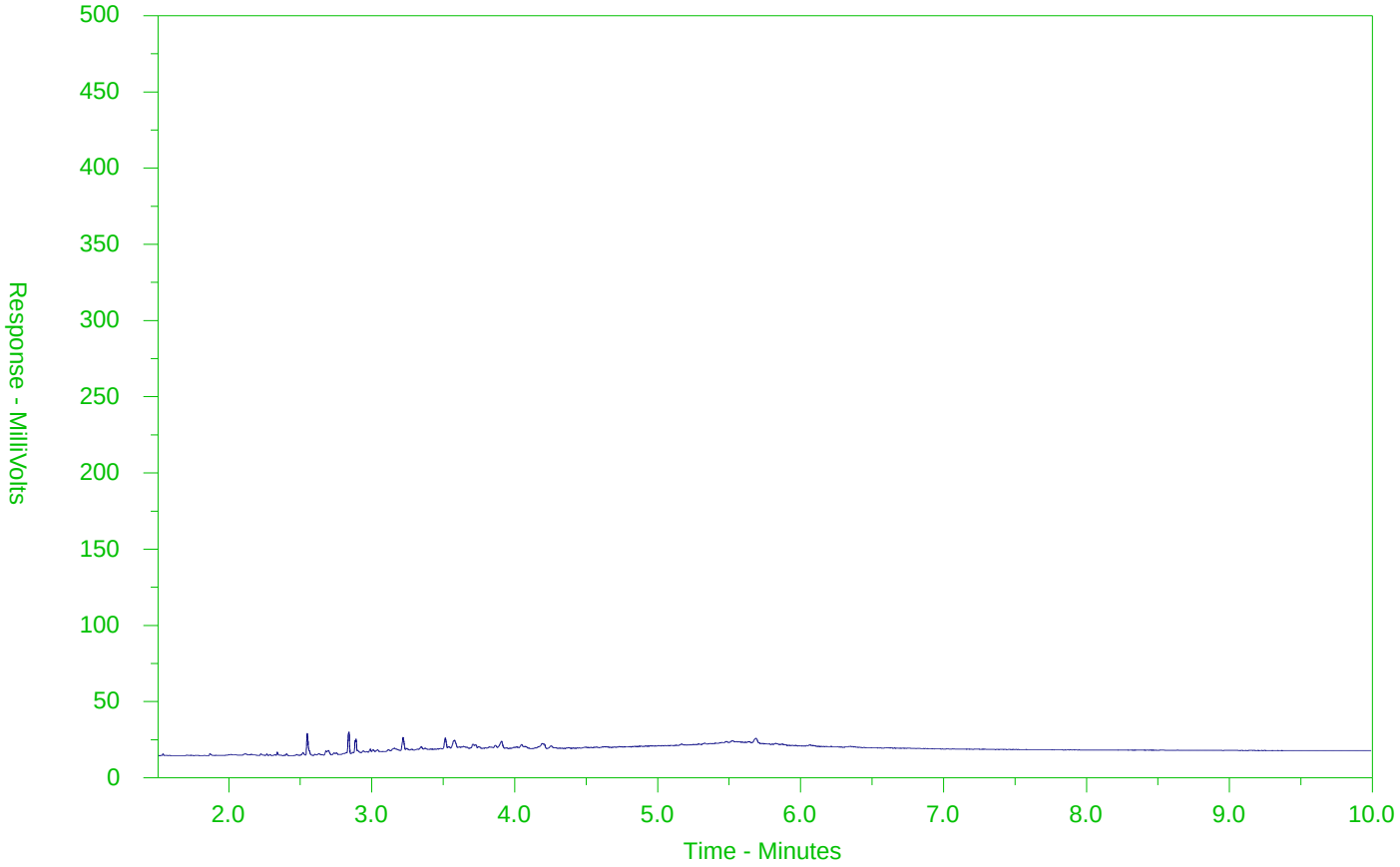
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2679135-12
Client Sample ID: BH316-22 SS1 0-2'



←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.

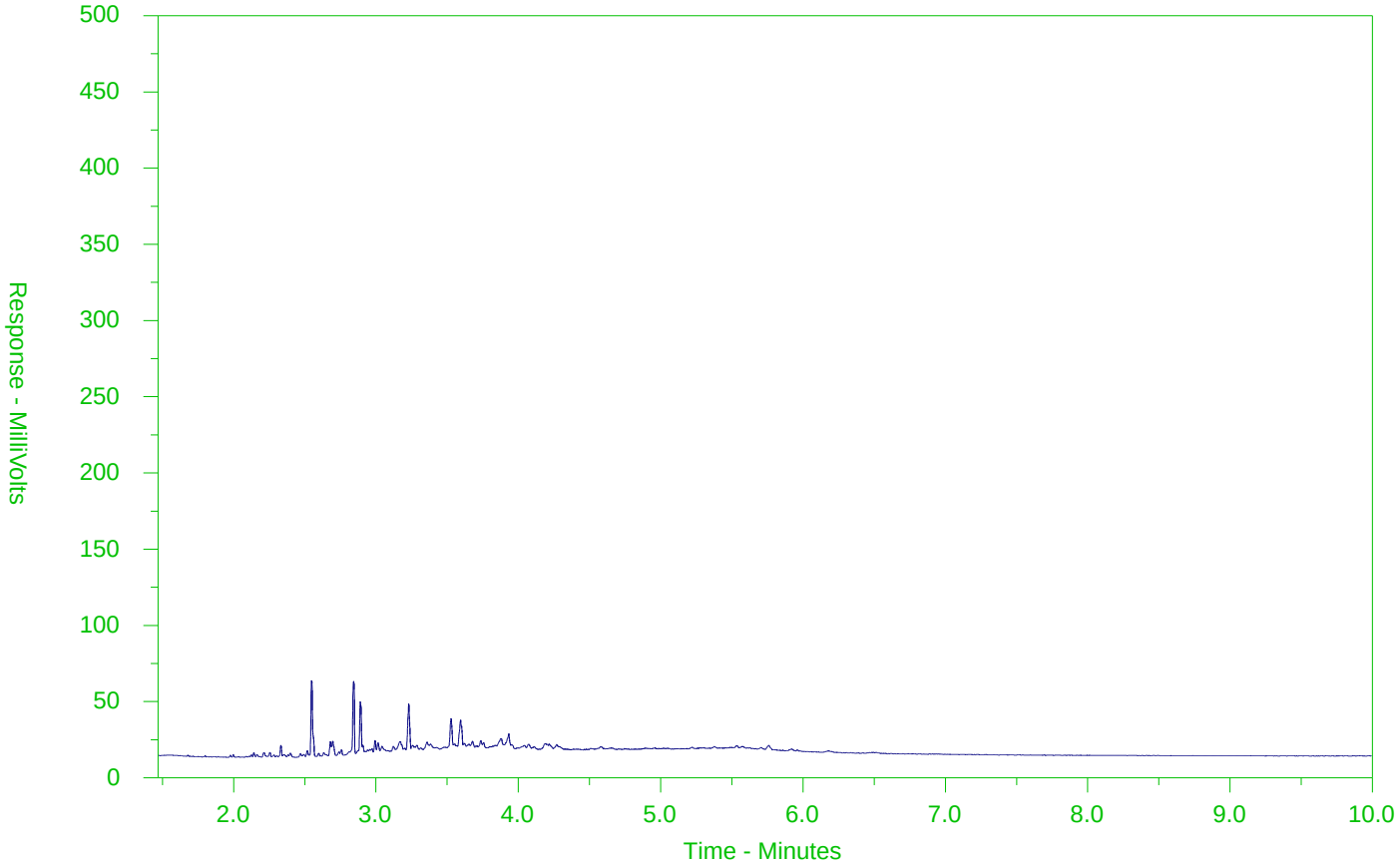
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2679135-13
Client Sample ID: BH316-22 SS101 0-2'



←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.

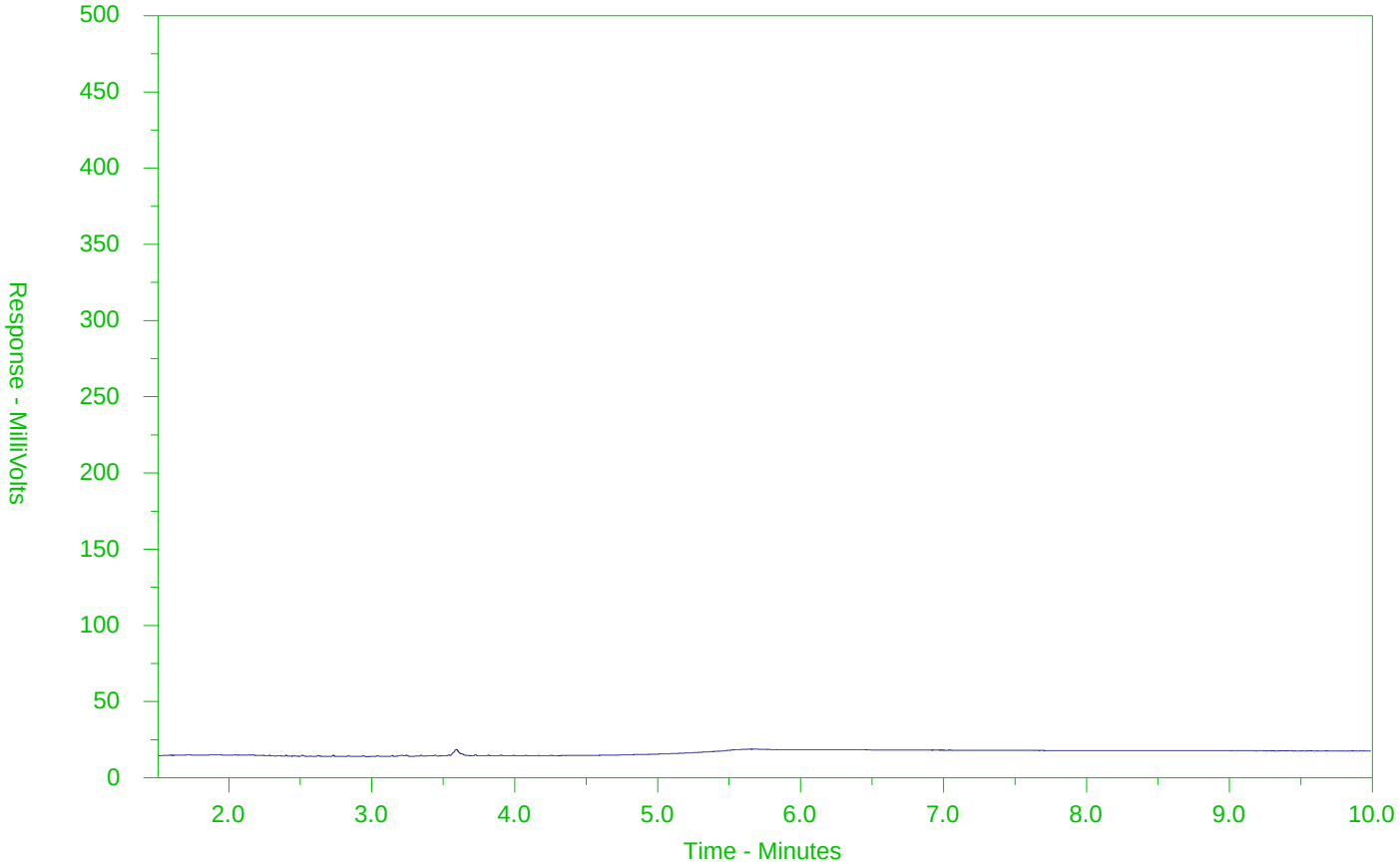
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2679135-15
Client Sample ID: BH316-22 SS3 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.

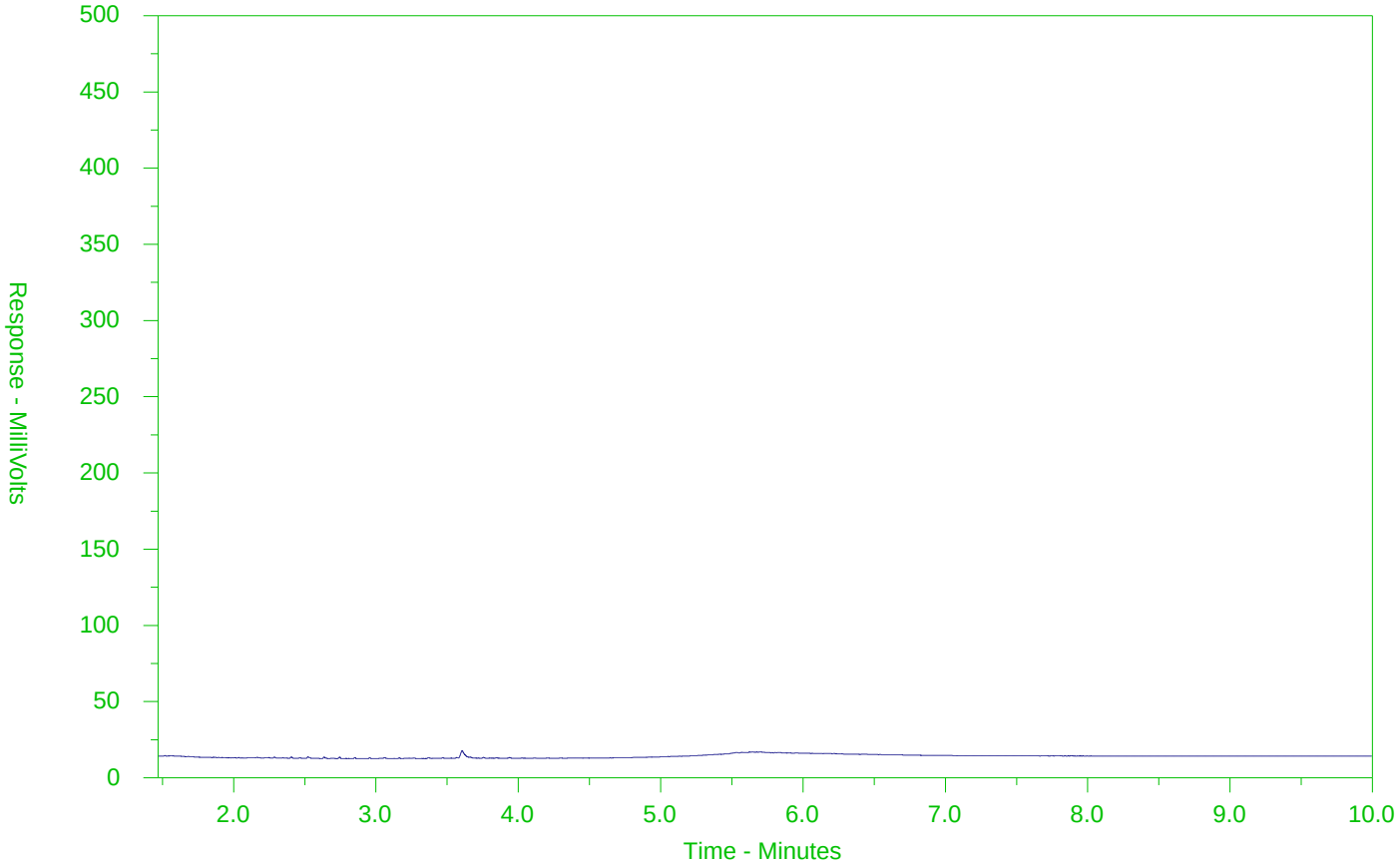
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2679135-17
Client Sample ID: BH316-22 SS5 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.

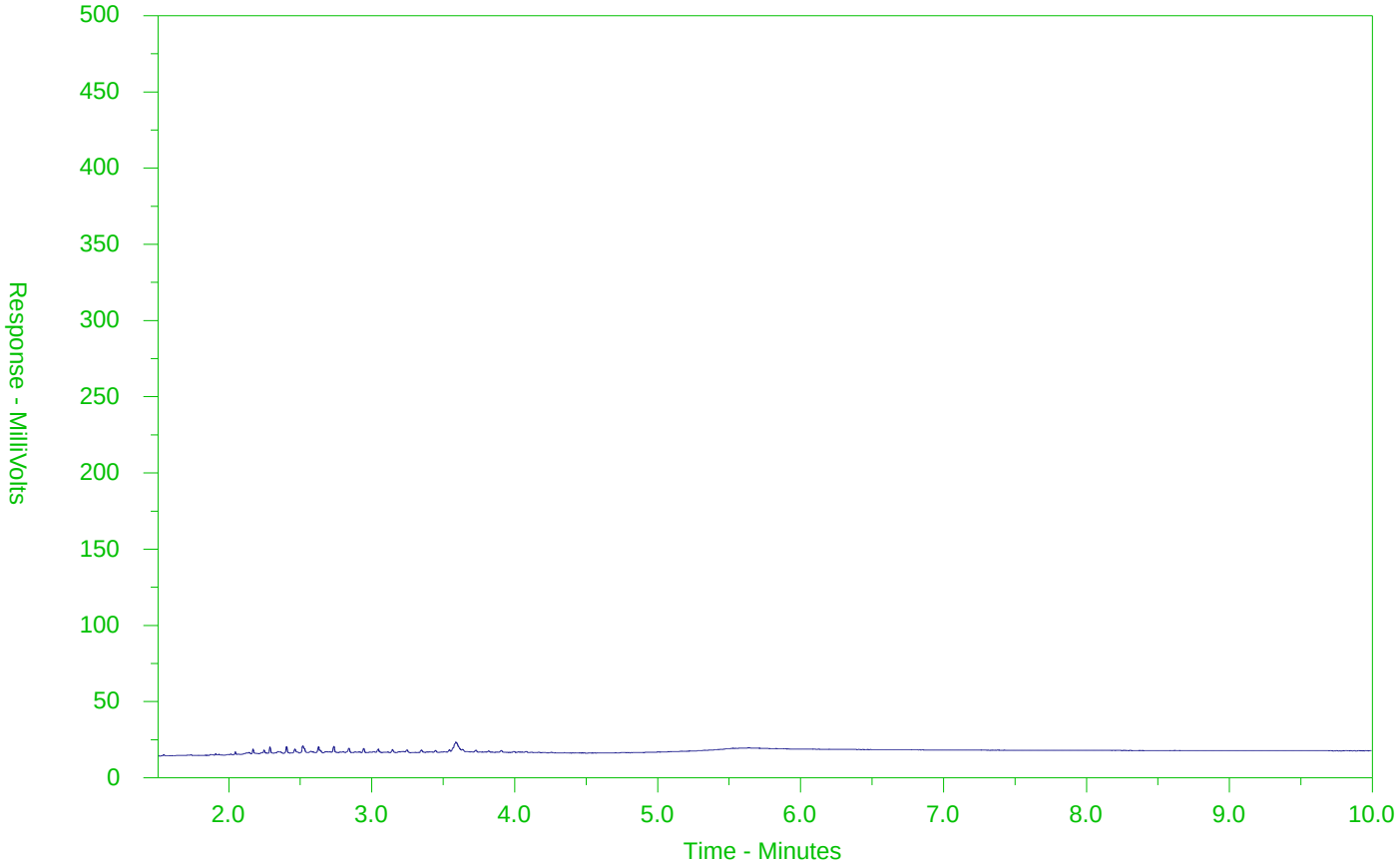
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2679135-18
Client Sample ID: BH316-22 SS6 15-17'



←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

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

L2679135-COFC

COC Number: 17 -

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants Inc.
Contact:	Jen Lambke / Spencer Buck
Phone:	519-502-3268 / 289-795-7467 (cells)
	Company address below will appear on the final report
Street:	520 Bingeman Centre Drive
City/Province:	Kitchener
Postal Code:	

Report Format /

Select Report Format: ☑ PDF ☑

Quality Control (QC) Report with Repo... ☐ YES ☐ NO

☑ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax ilambke@mte85.com

Email 2 sbuck@mte85.com

Email 3

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)		EMERGENCY	
4 day [P4-20%]	☐	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: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Invoice To	Same as Report To	☑ YES ☐ NO
	Copy of Invoice with Report	☐ YES ☐ NO
Company:		
Contact:		

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax accounting@mte85.com

Email 2

Project Information

ALS Account # / Quote #:	Q85986
Job #:	46372-301
PO / AFE:	Elizabeth & George
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): L2679135

ALS Contact: Emily Hansen

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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	BH316-22 551 0-2'	13/01/22	13:10	soil	3									x	
	" 552 2.5-4.5'		14:30		3									x	
	" 553 5-7'		14:45		3									x	
	" 554 7.5-9.5'		15:00		3									x	
	" 555 10-12'		15:15		3									x	
	" 556 15-17'		15:30		3									x	
	~~557~~													x	
														x	
														x	
														x	
														x	
														x	

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)

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			
				0.7			

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
Harman Sandha	13/01/22	9:30

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
	Jan 15/22	800

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 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

L2679135-COFC

COC Number: 17 -

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants Inc.
Contact:	Jen Lambke / Spencer Buck
Phone:	519-502-3268 / 289-795-7467 (cells)
	Company address below will appear on the final report
Street:	520 Bingeman Centre Drive
City/Province:	Kitchener
Postal Code:	
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 jlambke@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)		EMERGENCY	
4 day [P4-20%]	☐	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: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information

ALS Account # / Quote #: Q85986

Job #: 46372-301

PO / AFE: Elizabeth & George

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): L2679135 KLP

ALS Contact: Emily Hansen

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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	BH313-22 SS1 0-2'	12/01/22	9:30	Soil	4									x	
	" SS101 0-2'		10:00		3									x	
	" SS2 2.5-4.5'		10:20		3									x	
	" SS3 5-7'		10:40		3									x	
	" SS4 7.5-9.5'		11:20		3									x	
	" SS5 10-12'		11:40		3									x	
	" SS6 15-17'		12:30		3									x	
	" SS7 20-22'		13:30		3									x	
	" SS8 25-27'		14:30		3									x	
	" SS9 30-32'		15:00		3									x	
	" SS10 35-37'	13/01/22	9:30		3									x	
	BH316-22 SS1 0-2'		12:00		4									x	

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)

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			
				0.7			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: Harman Sandhu	Date: 13/01/22	Time: 7:00	Received by:	Date:	Time:	Received by:	Date: Jan 15/22	Time: 8:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 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: JEN LAMBKE
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Date Received: 20-JAN-22
Report Date: 28-JAN-22 16:28 (MT)
Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2680005

Project P.O. #: ELIZABETH & GEORGE
Job Reference: 46372-301
C of C Numbers: 1, 2, 3, 4
Legal Site Desc:

Comments: ADDITIONAL 21-JAN-22 11:03

Emily Hansen
Account Manager

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ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2		
L2680005-1	BH315-22 SS1 0-2									
Sampled By:	CLIENT on 18-JAN-22 @ 10:20									
Matrix:	SOIL									
Metals										
	Antimony (Sb)	1.4		1.0	ug/g	27-JAN-22	*1.3	7.5		
	Arsenic (As)	9.7		1.0	ug/g	27-JAN-22	18	18		
	Barium (Ba)	161		1.0	ug/g	27-JAN-22	220	390		
	Beryllium (Be)	<0.50		0.50	ug/g	27-JAN-22	2.5	4		
	Boron (B)	11.4		5.0	ug/g	27-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	27-JAN-22	1.2	1.2		
	Chromium (Cr)	17.3		1.0	ug/g	27-JAN-22	70	160		
	Cobalt (Co)	8.7		1.0	ug/g	27-JAN-22	21	22		
	Copper (Cu)	59.8		1.0	ug/g	27-JAN-22	92	140		
	Lead (Pb)	151		1.0	ug/g	27-JAN-22	*120	*120		
	Molybdenum (Mo)	1.3		1.0	ug/g	27-JAN-22	2	6.9		
	Nickel (Ni)	20.6		1.0	ug/g	27-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	27-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	27-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	27-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	27-JAN-22	2.5	23		
	Vanadium (V)	25.0		1.0	ug/g	27-JAN-22	86	86		
	Zinc (Zn)	129		5.0	ug/g	27-JAN-22	290	340		
L2680005-2	BH315-22 SS101 0-2									
Sampled By:	CLIENT on 18-JAN-22 @ 10:40									
Matrix:	SOIL									
Metals										
	Antimony (Sb)	1.5		1.0	ug/g	27-JAN-22	*1.3	7.5		
	Arsenic (As)	10.4		1.0	ug/g	27-JAN-22	18	18		
	Barium (Ba)	150		1.0	ug/g	27-JAN-22	220	390		
	Beryllium (Be)	0.60		0.50	ug/g	27-JAN-22	2.5	4		
	Boron (B)	11.9		5.0	ug/g	27-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	27-JAN-22	1.2	1.2		
	Chromium (Cr)	18.6		1.0	ug/g	27-JAN-22	70	160		
	Cobalt (Co)	9.5		1.0	ug/g	27-JAN-22	21	22		
	Copper (Cu)	65.7		1.0	ug/g	27-JAN-22	92	140		
	Lead (Pb)	137		1.0	ug/g	27-JAN-22	*120	*120		
	Molybdenum (Mo)	1.3		1.0	ug/g	27-JAN-22	2	6.9		
	Nickel (Ni)	22.0		1.0	ug/g	27-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	27-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	27-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	27-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	27-JAN-22	2.5	23		
	Vanadium (V)	27.9		1.0	ug/g	27-JAN-22	86	86		
	Zinc (Zn)	118		5.0	ug/g	27-JAN-22	290	340		
L2680005-3	BH315-22 SS2 2.5-4.5									
Sampled By:	CLIENT on 18-JAN-22 @ 11:00									
Matrix:	SOIL									

** 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 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2		
L2680005-3	BH315-22 SS2 2.5-4.5									
Sampled By:	CLIENT on 18-JAN-22 @ 11:00									
Matrix:	SOIL									
Physical Tests										
	Conductivity	0.185		0.0040	mS/cm	26-JAN-22	0.57	0.7		
	% Moisture	10.9		0.25	%	23-JAN-22				
Saturated Paste Extractables										
	SAR	1.02		0.10	SAR	26-JAN-22	2.4	5		
	Calcium (Ca)	17.9		0.50	mg/L	26-JAN-22				
	Magnesium (Mg)	0.95		0.50	mg/L	26-JAN-22				
	Sodium (Na)	16.3		0.50	mg/L	26-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		
	Arsenic (As)	5.7		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	53.7		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	0.52		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	7.1		5.0	ug/g	26-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	17.5		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	10.8		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	35.2		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	11.6		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	20.9		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	27.1		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	51.2		5.0	ug/g	26-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	99.1		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	105.8		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	91.7		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	89.0		60-140	%	26-JAN-22				

** 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 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-5	BH315-22 SS4 7.5-9.5									
Sampled By:	CLIENT on 18-JAN-22 @ 11:30									
Matrix:	SOIL						#1	#2		
Physical Tests										
	% Moisture	10.6		0.25	%	23-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	27-JAN-22	1.3	7.5		
	Arsenic (As)	6.2		1.0	ug/g	27-JAN-22	18	18		
	Barium (Ba)	72.6		1.0	ug/g	27-JAN-22	220	390		
	Beryllium (Be)	0.65		0.50	ug/g	27-JAN-22	2.5	4		
	Boron (B)	11.3		5.0	ug/g	27-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	27-JAN-22	1.2	1.2		
	Chromium (Cr)	20.0		1.0	ug/g	27-JAN-22	70	160		
	Cobalt (Co)	11.9		1.0	ug/g	27-JAN-22	21	22		
	Copper (Cu)	37.6		1.0	ug/g	27-JAN-22	92	140		
	Lead (Pb)	8.4		1.0	ug/g	27-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	27-JAN-22	2	6.9		
	Nickel (Ni)	23.4		1.0	ug/g	27-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	27-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	27-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	27-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	27-JAN-22	2.5	23		
	Vanadium (V)	30.2		1.0	ug/g	27-JAN-22	86	86		
	Zinc (Zn)	54.7		5.0	ug/g	27-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	102.3		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	107.5		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	91.6		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	95.2		60-140	%	26-JAN-22				
L2680005-7	BH315-22 SS6 13-17									
Sampled By:	CLIENT on 18-JAN-22 @ 12:00									
Matrix:	SOIL						#1	#2		
Physical Tests										
	% Moisture	8.84		0.25	%	23-JAN-22				
Volatile Organic Compounds										

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-7	BH315-22 SS6 13-17									
Sampled By:	CLIENT on 18-JAN-22 @ 12:00									
Matrix:	SOIL						#1	#2		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	101.9		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	107.1		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	93.4		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	95.6		60-140	%	26-JAN-22				
L2680005-8	BH315-22 SS7 20-22									
Sampled By:	CLIENT on 18-JAN-22 @ 12:20									
Matrix:	SOIL						#1	#2		
Physical Tests										
	% Moisture	15.8		0.25	%	23-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	27-JAN-22	1.3	7.5		
	Arsenic (As)	4.2		1.0	ug/g	27-JAN-22	18	18		
	Barium (Ba)	48.4		1.0	ug/g	27-JAN-22	220	390		
	Beryllium (Be)	<0.50		0.50	ug/g	27-JAN-22	2.5	4		
	Boron (B)	9.0		5.0	ug/g	27-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	27-JAN-22	1.2	1.2		
	Chromium (Cr)	16.0		1.0	ug/g	27-JAN-22	70	160		
	Cobalt (Co)	7.7		1.0	ug/g	27-JAN-22	21	22		
	Copper (Cu)	22.7		1.0	ug/g	27-JAN-22	92	140		
	Lead (Pb)	6.5		1.0	ug/g	27-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	27-JAN-22	2	6.9		
	Nickel (Ni)	16.3		1.0	ug/g	27-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	27-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	27-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	27-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	27-JAN-22	2.5	23		
	Vanadium (V)	25.1		1.0	ug/g	27-JAN-22	86	86		
	Zinc (Zn)	41.8		5.0	ug/g	27-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-8	BH315-22 SS7 20-22									
Sampled By:	CLIENT on 18-JAN-22 @ 12:20									
Matrix:	SOIL						#1	#2		
Volatile Organic Compounds										
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	95.5		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	102.8		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	90.8		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	86.3		60-140	%	26-JAN-22				
L2680005-11	BH315-22 SS10 35-37									
Sampled By:	CLIENT on 18-JAN-22 @ 13:15									
Matrix:	SOIL						#1	#2		
Physical Tests										
	% Moisture	11.5		0.25	%	23-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		
	Arsenic (As)	5.6		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	39.6		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	<0.50		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	8.3		5.0	ug/g	26-JAN-22	36	120		
	Boron (B), Hot Water Ext.	0.89		0.10	ug/g	26-JAN-22	36	1.5		
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	15.5		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	8.6		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	32.4		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	6.6		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	17.3		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	24.2		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	46.8		5.0	ug/g	26-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		

** 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 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-11	BH315-22 SS10 35-37									
Sampled By:	CLIENT on 18-JAN-22 @ 13:15									
Matrix:	SOIL						#1	#2		
Volatile Organic Compounds										
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	107.6		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	116.6		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	90.7		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	90.1		60-140	%	26-JAN-22				
L2680005-13	BH317-22 SS1 0-2									
Sampled By:	CLIENT on 18-JAN-22 @ 13:45									
Matrix:	SOIL						#1	#2		
Physical Tests										
	Conductivity	0.267		0.0040	mS/cm	27-JAN-22	0.57	0.7		
	% Moisture	14.7		0.25	%	23-JAN-22				
Saturated Paste Extractables										
	SAR	5.55		0.10	SAR	26-JAN-22	*2.4	*5		
	Calcium (Ca)	5.87		0.50	mg/L	26-JAN-22				
	Magnesium (Mg)	0.62		0.50	mg/L	26-JAN-22				
	Sodium (Na)	52.9		0.50	mg/L	26-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	27-JAN-22	1.3	7.5		
	Arsenic (As)	10.3		1.0	ug/g	27-JAN-22	18	18		
	Barium (Ba)	72.7		1.0	ug/g	27-JAN-22	220	390		
	Beryllium (Be)	0.60		0.50	ug/g	27-JAN-22	2.5	4		
	Boron (B)	9.6		5.0	ug/g	27-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	27-JAN-22	1.2	1.2		
	Chromium (Cr)	18.7		1.0	ug/g	27-JAN-22	70	160		
	Cobalt (Co)	10.1		1.0	ug/g	27-JAN-22	21	22		
	Copper (Cu)	36.5		1.0	ug/g	27-JAN-22	92	140		
	Lead (Pb)	28.0		1.0	ug/g	27-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	27-JAN-22	2	6.9		
	Nickel (Ni)	21.3		1.0	ug/g	27-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	27-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	27-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	27-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	27-JAN-22	2.5	23		
	Vanadium (V)	29.0		1.0	ug/g	27-JAN-22	86	86		
	Zinc (Zn)	82.2		5.0	ug/g	27-JAN-22	290	340		

** 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 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2		
L2680005-13	BH317-22 SS1 0-2									
Sampled By:	CLIENT on 18-JAN-22 @ 13:45									
Matrix:	SOIL									
Volatile Organic Compounds										
	Benzene	0.0085		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	0.026		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	0.068		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	0.094		0.050	ug/g	26-JAN-22	*0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	96.9		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	105.0		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	92.0		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	80.8		60-140	%	26-JAN-22				
L2680005-14	BH317-22 SS101 0-2									
Sampled By:	CLIENT on 18-JAN-22 @ 14:00									
Matrix:	SOIL									
Physical Tests										
	% Moisture	14.6		0.25	%	23-JAN-22				
Volatile Organic Compounds										
	Benzene	0.0107		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	0.096		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	0.028		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	0.081		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	0.109		0.050	ug/g	26-JAN-22	*0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	105.9		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	115.5		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	91.2		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	90.9		60-140	%	26-JAN-22				

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-15	BH317-22 SS2 2.5-4.5									
Sampled By:	CLIENT on 18-JAN-22 @ 14:15									
Matrix:	SOIL						#1	#2		
Physical Tests										
	% Moisture	10.2		0.25	%	23-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		
	Arsenic (As)	5.4		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	57.6		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	0.54		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	8.2		5.0	ug/g	26-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	17.3		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	9.9		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	32.0		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	10.2		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	20.2		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	26.3		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	49.4		5.0	ug/g	26-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	105.1		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	112.5		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	91.7		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	99.2		60-140	%	26-JAN-22				
L2680005-16	BH317-22 SS3 5-7									
Sampled By:	CLIENT on 18-JAN-22 @ 14:30									
Matrix:	SOIL						#1	#2		
Physical Tests										
	Conductivity	0.189		0.0040	mS/cm	27-JAN-22	0.57	0.7		
	% Moisture	11.7		0.25	%	23-JAN-22				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-16	BH317-22 SS3 5-7									
Sampled By:	CLIENT on 18-JAN-22 @ 14:30									
Matrix:	SOIL						#1	#2		
Saturated Paste Extractables										
	SAR	0.31		0.10	SAR	26-JAN-22	2.4	5		
	Calcium (Ca)	19.9		0.50	mg/L	26-JAN-22				
	Magnesium (Mg)	5.75		0.50	mg/L	26-JAN-22				
	Sodium (Na)	6.14		0.50	mg/L	26-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		
	Arsenic (As)	5.5		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	69.7		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	0.54		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	9.4		5.0	ug/g	26-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	17.2		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	11.3		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	34.9		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	9.3		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	21.9		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	26.0		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	50.0		5.0	ug/g	26-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	106.0		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	116.2		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	90.7		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	96.0		60-140	%	26-JAN-22				
L2680005-18	BH317-22 SS5 10-12									
Sampled By:	CLIENT on 18-JAN-22 @ 15:00									
Matrix:	SOIL						#1	#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:

Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-18	BH317-22 SS5 10-12									
Sampled By:	CLIENT on 18-JAN-22 @ 15:00									
Matrix:	SOIL						#1	#2		
Physical Tests										
	% Moisture	9.91		0.25	%	23-JAN-22				
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	97.0		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	104.4		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	94.2		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	88.8		60-140	%	26-JAN-22				
L2680005-19	BH317-22 SS6 15-17									
Sampled By:	CLIENT on 18-JAN-22 @ 15:10									
Matrix:	SOIL						#1	#2		
Physical Tests										
	% Moisture	9.21		0.25	%	23-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		
	Arsenic (As)	4.4		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	38.6		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	<0.50		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	10.3		5.0	ug/g	26-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	16.2		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	8.0		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	25.2		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	6.3		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	17.5		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	24.3		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	40.7		5.0	ug/g	26-JAN-22	290	340		
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:

Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-19	BH317-22 SS6 15-17									
Sampled By:	CLIENT on 18-JAN-22 @ 15:10									
Matrix:	SOIL						#1	#2		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	101.8		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	109.7		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	93.1		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	93.7		60-140	%	26-JAN-22				
L2680005-20	BH318-22 SS1 0-2									
Sampled By:	CLIENT on 18-JAN-22 @ 15:20									
Matrix:	SOIL						#1	#2		
Physical Tests										
	Conductivity	0.269		0.0040	mS/cm	27-JAN-22	0.57	0.7		
	% Moisture	35.3		0.25	%	23-JAN-22				
	pH	8.63		0.10	pH units	25-JAN-22				
Saturated Paste Extractables										
	SAR	0.13		0.10	SAR	26-JAN-22	2.4	5		
	Calcium (Ca)	46.0		0.50	mg/L	26-JAN-22				
	Magnesium (Mg)	1.49		0.50	mg/L	26-JAN-22				
	Sodium (Na)	3.37		0.50	mg/L	26-JAN-22				
Metals										
	Antimony (Sb)	1.7		1.0	ug/g	26-JAN-22	*1.3	7.5		
	Arsenic (As)	9.0		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	83.5		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	0.59		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	8.9		5.0	ug/g	26-JAN-22	36	120		
	Cadmium (Cd)	0.51		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	19.8		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	9.7		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	46.3		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	99.3		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	22.1		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2		
L2680005-20	BH318-22 SS1 0-2									
Sampled By:	CLIENT on 18-JAN-22 @ 15:20									
Matrix:	SOIL									
Metals										
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	27.5		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	95.5		5.0	ug/g	26-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	0.023		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	0.052		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	0.075		0.050	ug/g	26-JAN-22	*0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	104.8		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	114.9		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	274		50	ug/g	27-JAN-22	*240	300		
	F4 (C34-C50)	138		50	ug/g	27-JAN-22	*120	2800		
	F4G-SG (GHH-Silica)	620		250	ug/g	25-JAN-22	*120	2800		
	Total Hydrocarbons (C6-C50)	417		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	NO			ppm	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	96.6		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	88.4		60-140	%	26-JAN-22				
Organochlorine Pesticides										
	Aldrin	<0.0010	DLM	0.0010	ug/g	28-JAN-22	0.05	0.05		
	Lindane	<0.0010	DLM	0.0010	ug/g	28-JAN-22	0.01	0.01		
	a-chlordane	<0.0015	DLM	0.0015	ug/g	28-JAN-22				
	Chlordane (Total)	<0.0021		0.0021	ug/g	28-JAN-22	0.05	0.05		
	g-chlordane	<0.0015	DLM	0.0015	ug/g	28-JAN-22				
	o,p-DDD	<0.0015	DLM	0.0015	ug/g	28-JAN-22				
	pp-DDD	<0.0015	DLM	0.0015	ug/g	28-JAN-22				
	Total DDD	<0.0021		0.0021	ug/g	28-JAN-22	0.05	3.3		
	o,p-DDE	<0.0015	DLM	0.0015	ug/g	28-JAN-22				
	pp-DDE	<0.0015	DLM	0.0015	ug/g	28-JAN-22				
	Total DDE	<0.0021		0.0021	ug/g	28-JAN-22	0.05	0.26		
	op-DDT	<0.0015	DLM	0.0015	ug/g	28-JAN-22				
	pp-DDT	<0.0015	DLM	0.0015	ug/g	28-JAN-22				
	Total DDT	<0.0021		0.0021	ug/g	28-JAN-22	1.4	1.4		
	Dieldrin	<0.0010	DLM	0.0010	ug/g	28-JAN-22	0.05	0.05		
	alpha-Endosulfan	<0.0015	DLM	0.0015	ug/g	28-JAN-22				
	beta-Endosulfan	<0.0015	DLM	0.0015	ug/g	28-JAN-22				
	Endosulfan (Total)	<0.0021		0.0021	ug/g	28-JAN-22	0.04	0.04		
	Endrin	<0.0025	DLM	0.0025	ug/g	28-JAN-22	0.04	0.04		
	Heptachlor	<0.0010	DLM	0.0010	ug/g	28-JAN-22	0.05	0.072		
	Heptachlor Epoxide	<0.0010	DLM	0.0010	ug/g	28-JAN-22	0.05	0.05		

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-20	BH318-22 SS1 0-2									
Sampled By:	CLIENT on 18-JAN-22 @ 15:20									
Matrix:	SOIL						#1	#2		
Organochlorine Pesticides										
	Hexachlorobenzene	<0.0025	DLM	0.0025	ug/g	28-JAN-22	0.01	0.52		
	Hexachlorobutadiene	<0.0025	DLM	0.0025	ug/g	28-JAN-22	0.01	0.01		
	Hexachloroethane	<0.0025	DLM	0.0025	ug/g	28-JAN-22	0.01	0.01		
	Methoxychlor	<0.0025	DLM	0.0025	ug/g	28-JAN-22	0.05	0.13		
	Surrogate: Decachlorobiphenyl	183.1	SURR-ND	50-150	%	28-JAN-22				
	Surrogate: Tetrachloro-m-xylene	114.5		50-150	%	28-JAN-22				
L2680005-21	BH318-22 SS101 0-2									
Sampled By:	CLIENT on 18-JAN-22 @ 15:30									
Matrix:	SOIL						#1	#2		
Physical Tests										
	% Moisture	13.5		0.25	%	23-JAN-22				
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	108.9		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	118.7		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	141		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	74		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	215		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	92.7		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	86.8		60-140	%	26-JAN-22				
L2680005-22	BH318-22 SS2 2.5-4.5									
Sampled By:	CLIENT on 18-JAN-22 @ 15:40									
Matrix:	SOIL						#1	#2		
Physical Tests										
	% Moisture	12.3		0.25	%	23-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		
	Arsenic (As)	5.3		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	56.3		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	0.56		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	9.5		5.0	ug/g	26-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	17.7		1.0	ug/g	26-JAN-22	70	160		

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2		
L2680005-22	BH318-22 SS2 2.5-4.5									
Sampled By:	CLIENT on 18-JAN-22 @ 15:40									
Matrix:	SOIL									
Metals										
	Cobalt (Co)	10.0		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	33.3		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	8.5		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	21.2		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	26.6		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	49.8		5.0	ug/g	26-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	109.5		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	118.4		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F2-Naphth	<10		10	ug/g	27-JAN-22				
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F3-PAH	<50		50	ug/g	27-JAN-22				
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	93.8		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	91.2		60-140	%	26-JAN-22				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	26-JAN-22	0.072	0.093		
	Acenaphthylene	<0.050		0.050	ug/g	26-JAN-22	0.093	14		
	Anthracene	<0.050		0.050	ug/g	26-JAN-22	0.16	0.16		
	Benzo(a)anthracene	<0.050		0.050	ug/g	26-JAN-22	0.36	0.5		
	Benzo(a)pyrene	<0.050		0.050	ug/g	26-JAN-22	0.3	0.57		
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.47	5.7		
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	26-JAN-22	0.68	6.6		
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.48	5.7		
	Chrysene	<0.050		0.050	ug/g	26-JAN-22	2.8	7		
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	26-JAN-22	0.1	0.57		
	Fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.56	0.69		
	Fluorene	<0.050		0.050	ug/g	26-JAN-22	0.12	6.8		
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	26-JAN-22	0.23	0.38		

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-22	BH318-22 SS2 2.5-4.5									
Sampled By:	CLIENT on 18-JAN-22 @ 15:40									
Matrix:	SOIL						#1	#2		
Polycyclic Aromatic Hydrocarbons										
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	26-JAN-22	0.59	0.92		
	1-Methylnaphthalene	<0.030		0.030	ug/g	26-JAN-22	0.59	0.92		
	2-Methylnaphthalene	<0.030		0.030	ug/g	26-JAN-22	0.59	0.92		
	Naphthalene	<0.013		0.013	ug/g	26-JAN-22	0.09	0.59		
	Phenanthrene	<0.046		0.046	ug/g	26-JAN-22	0.69	6.2		
	Pyrene	<0.050		0.050	ug/g	26-JAN-22	1	70		
	Surrogate: 2-Fluorobiphenyl	92.5		50-140	%	26-JAN-22				
	Surrogate: d14-Terphenyl	89.3		50-140	%	26-JAN-22				
L2680005-24	BH318-22 SS4 7.5-9.5.									
Sampled By:	CLIENT on 18-JAN-22 @ 16:00									
Matrix:	SOIL						#1	#2		
Physical Tests										
	% Moisture	10.3		0.25	%	23-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		
	Arsenic (As)	5.0		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	66.2		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	0.56		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	10.6		5.0	ug/g	26-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	17.6		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	9.9		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	33.4		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	10.6		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	20.2		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	26.5		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	46.9		5.0	ug/g	26-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	106.2		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	114.7		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-24	BH318-22 SS4 7.5-9.5.									
Sampled By:	CLIENT on 18-JAN-22 @ 16:00									
Matrix:	SOIL						#1	#2		
Hydrocarbons										
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	88.9		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	90.9		60-140	%	26-JAN-22				
L2680005-25	BH318-22 SS5 10-12									
Sampled By:	CLIENT on 18-JAN-22 @ 16:10									
Matrix:	SOIL						#1	#2		
Physical Tests										
	% Moisture	10.2		0.25	%	24-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		
	Arsenic (As)	5.5		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	61.5		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	0.53		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	9.5		5.0	ug/g	26-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	16.9		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	9.8		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	31.1		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	7.4		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	19.4		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	25.6		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	45.7		5.0	ug/g	26-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	102.6		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	110.9		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-25	BH318-22 SS5 10-12									
Sampled By:	CLIENT on 18-JAN-22 @ 16:10									
Matrix:	SOIL						#1	#2		
Hydrocarbons										
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	93.8		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	94.6		60-140	%	26-JAN-22				
L2680005-27	BH301-22 SS1 0-2									
Sampled By:	CLIENT on 19-JAN-22 @ 10:00									
Matrix:	SOIL						#1	#2		
Physical Tests										
	Conductivity	3.61		0.0040	mS/cm	26-JAN-22	*0.57	*0.7		
	% Moisture	11.5		0.25	%	24-JAN-22				
Saturated Paste Extractables										
	SAR	1.65	SAR:M	0.10	SAR	26-JAN-22	2.4	5		
	Calcium (Ca)	434		0.50	mg/L	26-JAN-22				
	Magnesium (Mg)	<0.50		0.50	mg/L	26-JAN-22				
	Sodium (Na)	125		0.50	mg/L	26-JAN-22				
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	103.6		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	114.4		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	136		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	394		50	ug/g	27-JAN-22	*120	2800		
	F4G-SG (GHH-Silica)	1240		250	ug/g	25-JAN-22	*120	2800		
	Total Hydrocarbons (C6-C50)	529		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	NO			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	92.9		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	83.3		60-140	%	26-JAN-22				
Polychlorinated Biphenyls										
	Aroclor 1242	<0.010		0.010	ug/g	24-JAN-22				
	Aroclor 1248	<0.010		0.010	ug/g	24-JAN-22				
	Aroclor 1254	<0.010		0.010	ug/g	24-JAN-22				
	Aroclor 1260	<0.010		0.010	ug/g	24-JAN-22				
	Total PCBs	<0.020		0.020	ug/g	24-JAN-22	0.3	0.35		
	Surrogate: d14-Terphenyl	82.0		60-140	%	24-JAN-22				

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	Guideline Limits #2		
L2680005-28	BH301-22 SS101 0-2									
Sampled By:	CLIENT on 19-JAN-22 @ 10:15									
Matrix:	SOIL									
Physical Tests										
	Conductivity	3.78		0.0040	mS/cm	27-JAN-22	*0.57	*0.7		
	% Moisture	8.76		0.25	%	24-JAN-22				
Saturated Paste Extractables										
	SAR	1.59	SAR:M	0.10	SAR	26-JAN-22	2.4	5		
	Calcium (Ca)	441		0.50	mg/L	26-JAN-22				
	Magnesium (Mg)	<0.50		0.50	mg/L	26-JAN-22				
	Sodium (Na)	121		0.50	mg/L	26-JAN-22				
Volatile Organic Compounds										
	Benzene	0.0078		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	0.028		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	0.049		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	0.077		0.050	ug/g	26-JAN-22	*0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	96.8		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	104.4		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	216		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	597		50	ug/g	27-JAN-22	*120	2800		
	F4G-SG (GHH-Silica)	1870		250	ug/g	25-JAN-22	*120	2800		
	Total Hydrocarbons (C6-C50)	813		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	NO			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	91.3		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	92.1		60-140	%	26-JAN-22				
L2680005-29	BH301-22 SS2 2.5-4.5									
Sampled By:	CLIENT on 19-JAN-22 @ 10:30									
Matrix:	SOIL									
Physical Tests										
	Conductivity	2.11		0.0040	mS/cm	27-JAN-22	*0.57	*0.7		
	% Moisture	16.9		0.25	%	24-JAN-22				
	pH	8.78		0.10	pH units	25-JAN-22				
Saturated Paste Extractables										
	SAR	8.98		0.10	SAR	26-JAN-22	*2.4	*5		
	Calcium (Ca)	73.1		0.50	mg/L	26-JAN-22				
	Magnesium (Mg)	5.35		0.50	mg/L	26-JAN-22				
	Sodium (Na)	295		0.50	mg/L	26-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		
	Arsenic (As)	4.9		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	82.6		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	0.56		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	6.7		5.0	ug/g	26-JAN-22	36	120		

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use

#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-29	BH301-22 SS2 2.5-4.5									
Sampled By:	CLIENT on 19-JAN-22 @ 10:30									
Matrix:	SOIL						#1	#2		
Metals										
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	18.5		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	8.5		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	28.4		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	37.0		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	18.4		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	26.8		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	54.4		5.0	ug/g	26-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	98.7		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	107.5		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	86.0		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	88.2		60-140	%	26-JAN-22				
L2680005-30	BH301-22 SS3 5-7									
Sampled By:	CLIENT on 19-JAN-22 @ 10:45									
Matrix:	SOIL						#1	#2		
Physical Tests										
	Conductivity	0.839		0.0040	mS/cm	27-JAN-22	*0.57	*0.7		
	% Moisture	16.7		0.25	%	24-JAN-22				
Saturated Paste Extractables										
	SAR	6.50		0.10	SAR	26-JAN-22	*2.4	*5		
	Calcium (Ca)	24.1		0.50	mg/L	26-JAN-22				
	Magnesium (Mg)	3.24		0.50	mg/L	26-JAN-22				
	Sodium (Na)	128		0.50	mg/L	26-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	Guideline Limits #2		
L2680005-30	BH301-22 SS3 5-7									
Sampled By:	CLIENT on 19-JAN-22 @ 10:45									
Matrix:	SOIL									
Metals										
	Arsenic (As)	5.2		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	101		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	0.62		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	5.1		5.0	ug/g	26-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	19.1		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	8.9		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	27.2		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	9.2		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	19.2		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	29.3		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	49.3		5.0	ug/g	26-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	96.8		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	105.9		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F2-Naphth	<10		10	ug/g	27-JAN-22				
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F3-PAH	<50		50	ug/g	27-JAN-22				
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	89.8		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	87.3		60-140	%	26-JAN-22				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	26-JAN-22	0.072	0.093		
	Acenaphthylene	<0.050		0.050	ug/g	26-JAN-22	0.093	14		
	Anthracene	<0.050		0.050	ug/g	26-JAN-22	0.16	0.16		
	Benzo(a)anthracene	<0.050		0.050	ug/g	26-JAN-22	0.36	0.5		
	Benzo(a)pyrene	<0.050		0.050	ug/g	26-JAN-22	0.3	0.57		
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.47	5.7		
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	26-JAN-22	0.68	6.6		

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	Guideline Limits #2		
L2680005-30	BH301-22 SS3 5-7									
Sampled By:	CLIENT on 19-JAN-22 @ 10:45									
Matrix:	SOIL									
Polycyclic Aromatic Hydrocarbons										
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.48	5.7		
	Chrysene	<0.050		0.050	ug/g	26-JAN-22	2.8	7		
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	26-JAN-22	0.1	0.57		
	Fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.56	0.69		
	Fluorene	<0.050		0.050	ug/g	26-JAN-22	0.12	6.8		
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	26-JAN-22	0.23	0.38		
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	26-JAN-22	0.59	0.92		
	1-Methylnaphthalene	<0.030		0.030	ug/g	26-JAN-22	0.59	0.92		
	2-Methylnaphthalene	<0.030		0.030	ug/g	26-JAN-22	0.59	0.92		
	Naphthalene	<0.013		0.013	ug/g	26-JAN-22	0.09	0.59		
	Phenanthrene	<0.046		0.046	ug/g	26-JAN-22	0.69	6.2		
	Pyrene	<0.050		0.050	ug/g	26-JAN-22	1	70		
	Surrogate: 2-Fluorobiphenyl	91.7		50-140	%	26-JAN-22				
	Surrogate: d14-Terphenyl	87.6		50-140	%	26-JAN-22				
L2680005-31	BH301-22 SS4 7.5-9.5									
Sampled By:	CLIENT on 19-JAN-22 @ 11:00									
Matrix:	SOIL									
Physical Tests										
	Conductivity	0.836		0.0040	mS/cm	27-JAN-22	*0.57	*0.7		
Saturated Paste Extractables										
	SAR	3.05		0.10	SAR	26-JAN-22	*2.4	5		
	Calcium (Ca)	46.2		0.50	mg/L	26-JAN-22				
	Magnesium (Mg)	10.0		0.50	mg/L	26-JAN-22				
	Sodium (Na)	87.8		0.50	mg/L	26-JAN-22				
L2680005-32	BH301-22 SS5 10-12									
Sampled By:	CLIENT on 19-JAN-22 @ 11:15									
Matrix:	SOIL									
Physical Tests										
	Conductivity	0.605		0.0040	mS/cm	27-JAN-22	*0.57	0.7		
	pH	7.95		0.10	pH units	25-JAN-22				
Saturated Paste Extractables										
	SAR	2.77		0.10	SAR	26-JAN-22	*2.4	5		
	Calcium (Ca)	33.0		0.50	mg/L	26-JAN-22				
	Magnesium (Mg)	5.47		0.50	mg/L	26-JAN-22				
	Sodium (Na)	65.1		0.50	mg/L	26-JAN-22				
L2680005-36	MW302-22 SS1 0-2									
Sampled By:	CLIENT on 19-JAN-22 @ 12:20									
Matrix:	SOIL									
Physical Tests										
	Conductivity	2.04		0.0040	mS/cm	27-JAN-22	*0.57	*0.7		
	% Moisture	17.7		0.25	%	24-JAN-22				
Saturated Paste Extractables										

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	Guideline Limits #2		
L2680005-36	MW302-22 SS1 0-2									
Sampled By:	CLIENT on 19-JAN-22 @ 12:20									
Matrix:	SOIL									
Saturated Paste Extractables										
	SAR	1.78	SAR:M	0.10	SAR	26-JAN-22	2.4	5		
	Calcium (Ca)	189		0.50	mg/L	26-JAN-22				
	Magnesium (Mg)	<0.50		0.50	mg/L	26-JAN-22				
	Sodium (Na)	88.7		0.50	mg/L	26-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		
	Arsenic (As)	5.3		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	105		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	<0.50		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	7.6		5.0	ug/g	26-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	13.4		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	4.9		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	31.9		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	22.0		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	12.4		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	20.2		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	38.9		5.0	ug/g	26-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	103.8		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	114.1		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F2-Naphth	<10		10	ug/g	27-JAN-22				
	F3 (C16-C34)	436		50	ug/g	27-JAN-22	*240	*300		
	F3-PAH	435		50	ug/g	27-JAN-22				
	F4 (C34-C50)	985		50	ug/g	27-JAN-22	*120	2800		
	F4G-SG (GHH-Silica)	2820		250	ug/g	25-JAN-22	*120	*2800		
	Total Hydrocarbons (C6-C50)	1420		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	NO			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	92.1		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	86.4		60-140	%	26-JAN-22				
Polycyclic Aromatic Hydrocarbons										

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-36	MW302-22 SS1 0-2									
Sampled By:	CLIENT on 19-JAN-22 @ 12:20									
Matrix:	SOIL						#1	#2		
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	25-JAN-22	0.072	0.093		
	Acenaphthylene	<0.050		0.050	ug/g	25-JAN-22	0.093	14		
	Anthracene	<0.050		0.050	ug/g	25-JAN-22	0.16	0.16		
	Benzo(a)anthracene	0.059		0.050	ug/g	25-JAN-22	0.36	0.5		
	Benzo(a)pyrene	0.077		0.050	ug/g	25-JAN-22	0.3	0.57		
	Benzo(b&j)fluoranthene	0.086		0.050	ug/g	25-JAN-22	0.47	5.7		
	Benzo(g,h,i)perylene	0.073		0.050	ug/g	25-JAN-22	0.68	6.6		
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	25-JAN-22	0.48	5.7		
	Chrysene	0.099		0.050	ug/g	25-JAN-22	2.8	7		
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	25-JAN-22	0.1	0.57		
	Fluoranthene	0.121		0.050	ug/g	25-JAN-22	0.56	0.69		
	Fluorene	<0.050		0.050	ug/g	25-JAN-22	0.12	6.8		
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	25-JAN-22	0.23	0.38		
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	25-JAN-22	0.59	0.92		
	1-Methylnaphthalene	<0.030		0.030	ug/g	25-JAN-22	0.59	0.92		
	2-Methylnaphthalene	<0.030		0.030	ug/g	25-JAN-22	0.59	0.92		
	Naphthalene	<0.033	DLM	0.033	ug/g	25-JAN-22	0.09	0.59		
	Phenanthrene	0.076		0.046	ug/g	25-JAN-22	0.69	6.2		
	Pyrene	0.100		0.050	ug/g	25-JAN-22	1	70		
	Surrogate: 2-Fluorobiphenyl	71.7		50-140	%	25-JAN-22				
	Surrogate: d14-Terphenyl	74.9		50-140	%	25-JAN-22				
Polychlorinated Biphenyls										
	Aroclor 1242	<0.010		0.010	ug/g	24-JAN-22				
	Aroclor 1248	<0.010		0.010	ug/g	24-JAN-22				
	Aroclor 1254	<0.010		0.010	ug/g	24-JAN-22				
	Aroclor 1260	<0.010		0.010	ug/g	24-JAN-22				
	Total PCBs	<0.020		0.020	ug/g	24-JAN-22	0.3	0.35		
	Surrogate: d14-Terphenyl	82.1		60-140	%	24-JAN-22				
L2680005-37	MW302-22 SS101 0-2									
Sampled By:	CLIENT on 19-JAN-22 @ 12:40									
Matrix:	SOIL						#1	#2		
Physical Tests										
	% Moisture	9.43		0.25	%	25-JAN-22				
Polychlorinated Biphenyls										
	Aroclor 1242	<0.010		0.010	ug/g	26-JAN-22				
	Aroclor 1248	<0.010		0.010	ug/g	26-JAN-22				
	Aroclor 1254	<0.010		0.010	ug/g	26-JAN-22				
	Aroclor 1260	<0.010		0.010	ug/g	26-JAN-22				
	Total PCBs	<0.020		0.020	ug/g	26-JAN-22	0.3	0.35		
	Surrogate: d14-Terphenyl	81.3		60-140	%	26-JAN-22				
L2680005-38	MW302-22 SS2 2.5-4.5									
Sampled By:	CLIENT on 19-JAN-22 @ 13:00									
Matrix:	SOIL						#1	#2		
Metals										

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-38	MW302-22 SS2 2.5-4.5									
Sampled By:	CLIENT on 19-JAN-22 @ 13:00									
Matrix:	SOIL						#1	#2		
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		
	Arsenic (As)	5.7		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	79.9		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	0.61		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	7.9		5.0	ug/g	26-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	18.7		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	8.4		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	32.4		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	31.0		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	19.2		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	27.5		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	67.0		5.0	ug/g	26-JAN-22	290	340		
L2680005-39	MW302-22 SS3 5-7									
Sampled By:	CLIENT on 19-JAN-22 @ 13:20									
Matrix:	SOIL						#1	#2		
Physical Tests										
	Conductivity	0.449		0.0040	mS/cm	27-JAN-22	0.57	0.7		
	% Moisture	16.4		0.25	%	25-JAN-22				
Saturated Paste Extractables										
	SAR	3.74		0.10	SAR	26-JAN-22	*2.4	5		
	Calcium (Ca)	16.1		0.50	mg/L	26-JAN-22				
	Magnesium (Mg)	2.64		0.50	mg/L	26-JAN-22				
	Sodium (Na)	61.5		0.50	mg/L	26-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		
	Arsenic (As)	4.3		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	60.5		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	<0.50		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	6.8		5.0	ug/g	26-JAN-22	36	120		
	Boron (B), Hot Water Ext.	0.39		0.10	ug/g	27-JAN-22	36	1.5		
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	13.0		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	6.0		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	26.4		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	36.4		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	12.7		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2		
L2680005-39	MW302-22 SS3 5-7									
Sampled By:	CLIENT on 19-JAN-22 @ 13:20									
Matrix:	SOIL									
Metals										
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	22.4		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	44.5		5.0	ug/g	26-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	93.8		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	101.1		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F2-Naphth	<10		10	ug/g	27-JAN-22				
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F3-PAH	<50		50	ug/g	27-JAN-22				
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	93.5		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	85.2		60-140	%	26-JAN-22				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	26-JAN-22	0.072	0.093		
	Acenaphthylene	<0.050		0.050	ug/g	26-JAN-22	0.093	14		
	Anthracene	<0.050		0.050	ug/g	26-JAN-22	0.16	0.16		
	Benzo(a)anthracene	<0.050		0.050	ug/g	26-JAN-22	0.36	0.5		
	Benzo(a)pyrene	<0.050		0.050	ug/g	26-JAN-22	0.3	0.57		
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.47	5.7		
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	26-JAN-22	0.68	6.6		
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.48	5.7		
	Chrysene	<0.050		0.050	ug/g	26-JAN-22	2.8	7		
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	26-JAN-22	0.1	0.57		
	Fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.56	0.69		
	Fluorene	<0.050		0.050	ug/g	26-JAN-22	0.12	6.8		
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	26-JAN-22	0.23	0.38		
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	26-JAN-22	0.59	0.92		
	1-Methylnaphthalene	<0.030		0.030	ug/g	26-JAN-22	0.59	0.92		
	2-Methylnaphthalene	<0.030		0.030	ug/g	26-JAN-22	0.59	0.92		
	Naphthalene	<0.013		0.013	ug/g	26-JAN-22	0.09	0.59		
	Phenanthrene	<0.046		0.046	ug/g	26-JAN-22	0.69	6.2		
	Pyrene	<0.050		0.050	ug/g	26-JAN-22	1	70		

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2		
L2680005-39	MW302-22 SS3 5-7									
Sampled By:	CLIENT on 19-JAN-22 @ 13:20									
Matrix:	SOIL									
Polycyclic Aromatic Hydrocarbons										
	Surrogate: 2-Fluorobiphenyl	92.8		50-140	%	26-JAN-22				
	Surrogate: d14-Terphenyl	88.8		50-140	%	26-JAN-22				
L2680005-40	MW302-22 SS4 7.5-9.5									
Sampled By:	CLIENT on 19-JAN-22 @ 13:40									
Matrix:	SOIL									
Physical Tests										
	Conductivity	0.598		0.0040	mS/cm	27-JAN-22	*0.57	0.7		
	% Moisture	17.0		0.25	%	25-JAN-22				
Saturated Paste Extractables										
	SAR	4.81		0.10	SAR	26-JAN-22	*2.4	5		
	Calcium (Ca)	18.9		0.50	mg/L	26-JAN-22				
	Magnesium (Mg)	3.96		0.50	mg/L	26-JAN-22				
	Sodium (Na)	88.0		0.50	mg/L	26-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		
	Arsenic (As)	4.6		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	81.9		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	0.66		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	7.1		5.0	ug/g	26-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	20.4		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	9.7		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	28.1		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	11.1		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	20.9		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	28.7		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	57.5		5.0	ug/g	26-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	91.4		50-140	%	26-JAN-22				
	Surrogate: 1,4-Difluorobenzene	100.8		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2680005-40	MW302-22 SS4 7.5-9.5									
Sampled By:	CLIENT on 19-JAN-22 @ 13:40									
Matrix:	SOIL						#1	#2		
Hydrocarbons										
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	92.3		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	78.6		60-140	%	26-JAN-22				
L2680005-41	MW302-22 SS5 10-12									
Sampled By:	CLIENT on 19-JAN-22 @ 14:00									
Matrix:	SOIL						#1	#2		
Physical Tests										
	Conductivity	0.401		0.0040	mS/cm	27-JAN-22	0.57	0.7		
	% Moisture	20.3		0.25	%	25-JAN-22				
Saturated Paste Extractables										
	SAR	6.78		0.10	SAR	26-JAN-22	*2.4	*5		
	Calcium (Ca)	5.77		0.50	mg/L	26-JAN-22				
	Magnesium (Mg)	1.28		0.50	mg/L	26-JAN-22				
	Sodium (Na)	69.1		0.50	mg/L	26-JAN-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	26-JAN-22	1.3	7.5		
	Arsenic (As)	1.6		1.0	ug/g	26-JAN-22	18	18		
	Barium (Ba)	36.4		1.0	ug/g	26-JAN-22	220	390		
	Beryllium (Be)	<0.50		0.50	ug/g	26-JAN-22	2.5	4		
	Boron (B)	<5.0		5.0	ug/g	26-JAN-22	36	120		
	Cadmium (Cd)	<0.50		0.50	ug/g	26-JAN-22	1.2	1.2		
	Chromium (Cr)	12.2		1.0	ug/g	26-JAN-22	70	160		
	Cobalt (Co)	5.6		1.0	ug/g	26-JAN-22	21	22		
	Copper (Cu)	23.6		1.0	ug/g	26-JAN-22	92	140		
	Lead (Pb)	5.7		1.0	ug/g	26-JAN-22	120	120		
	Molybdenum (Mo)	<1.0		1.0	ug/g	26-JAN-22	2	6.9		
	Nickel (Ni)	13.0		1.0	ug/g	26-JAN-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	26-JAN-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	26-JAN-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	26-JAN-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	26-JAN-22	2.5	23		
	Vanadium (V)	16.1		1.0	ug/g	26-JAN-22	86	86		
	Zinc (Zn)	36.5		5.0	ug/g	26-JAN-22	290	340		
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	26-JAN-22	0.02	0.02		
	Ethylbenzene	<0.018		0.018	ug/g	26-JAN-22	0.05	1.9		
	Toluene	<0.080		0.080	ug/g	26-JAN-22	0.2	0.99		
	o-Xylene	<0.020		0.020	ug/g	26-JAN-22				
	m+p-Xylenes	<0.030		0.030	ug/g	26-JAN-22				
	Xylenes (Total)	<0.050		0.050	ug/g	26-JAN-22	0.05	0.9		
	Surrogate: 4-Bromofluorobenzene	94.3		50-140	%	26-JAN-22				

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Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC/RPI

#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

ANALYTICAL GUIDELINE REPORT

46372-301

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2		
L2680005-41	MW302-22 SS5 10-12									
Sampled By:	CLIENT on 19-JAN-22 @ 14:00									
Matrix:	SOIL									
Volatile Organic Compounds										
	Surrogate: 1,4-Difluorobenzene	103.1		50-140	%	26-JAN-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	26-JAN-22	25	25		
	F1-BTEX	<5.0		5.0	ug/g	27-JAN-22	25	25		
	F2 (C10-C16)	<10		10	ug/g	27-JAN-22	10	10		
	F2-Naphth	<10		10	ug/g	27-JAN-22				
	F3 (C16-C34)	<50		50	ug/g	27-JAN-22	240	300		
	F3-PAH	<50		50	ug/g	27-JAN-22				
	F4 (C34-C50)	<50		50	ug/g	27-JAN-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	27-JAN-22				
	Chrom. to baseline at nC50	YES			No Unit	27-JAN-22				
	Surrogate: 2-Bromobenzotrifluoride	88.1		60-140	%	27-JAN-22				
	Surrogate: 3,4-Dichlorotoluene	85.7		60-140	%	26-JAN-22				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	26-JAN-22	0.072	0.093		
	Acenaphthylene	<0.050		0.050	ug/g	26-JAN-22	0.093	14		
	Anthracene	<0.050		0.050	ug/g	26-JAN-22	0.16	0.16		
	Benzo(a)anthracene	<0.050		0.050	ug/g	26-JAN-22	0.36	0.5		
	Benzo(a)pyrene	<0.050		0.050	ug/g	26-JAN-22	0.3	0.57		
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.47	5.7		
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	26-JAN-22	0.68	6.6		
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.48	5.7		
	Chrysene	<0.050		0.050	ug/g	26-JAN-22	2.8	7		
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	26-JAN-22	0.1	0.57		
	Fluoranthene	<0.050		0.050	ug/g	26-JAN-22	0.56	0.69		
	Fluorene	<0.050		0.050	ug/g	26-JAN-22	0.12	6.8		
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	26-JAN-22	0.23	0.38		
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	26-JAN-22	0.59	0.92		
	1-Methylnaphthalene	<0.030		0.030	ug/g	26-JAN-22	0.59	0.92		
	2-Methylnaphthalene	<0.030		0.030	ug/g	26-JAN-22	0.59	0.92		
	Naphthalene	<0.013		0.013	ug/g	26-JAN-22	0.09	0.59		
	Phenanthrene	<0.046		0.046	ug/g	26-JAN-22	0.69	6.2		
	Pyrene	<0.050		0.050	ug/g	26-JAN-22	1	70		
	Surrogate: 2-Fluorobiphenyl	94.5		50-140	%	26-JAN-22				
	Surrogate: d14-Terphenyl	91.0		50-140	%	26-JAN-22				

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#1: T1 - Soil - Res/Park/Inst/Ind/Com/Commu Property Use **#2: T3.1 - Volume Independent Soil - Res/Park/Inst Property Use**

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
SURR-ND	Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be unaffected.
SAR:M	Reported SAR represents a maximum value. Actual SAR may be lower if both Ca and Mg were detectable.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).

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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

CHLORDANE-T-CALC-WT	Soil	Chlordane Total sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

DDD-DDE-DDT-CALC-WT	Soil	DDD, DDE, DDT sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

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).

ENDOSULFAN-T-CALC-WT	Soil	Endosulfan Total sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

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 and as of November 30, 2020), 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 and as of November 30, 2020), 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 and as of November 30, 2020), 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 200.2/6020B (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)
OCP-TRACE-WT	Soil	Low level OC Pesticides in Soil/Sediment	SW846 8270

A 5g representative sub-sample of the soil sample is mixed with methanol and extracted with toluene. An aliquot is taken and analyzed by 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).

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 and as of November 30, 2020), 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

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 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

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 and as of November 30, 2020), 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:

1	2	3	4

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: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT	**Soil**							
Batch R5708379								
WG3688836-4 DUP		**L2680005-11**						
Boron (B), Hot Water Ext.		0.89	0.88		ug/g	1.8	30	26-JAN-22
WG3688836-2 IRM		**WT SAR4**						
Boron (B), Hot Water Ext.			89.1		%		70-130	26-JAN-22
WG3688836-3 LCS								
Boron (B), Hot Water Ext.			100.0		%		70-130	26-JAN-22
WG3688836-1 MB								
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	26-JAN-22
Batch R5710543								
WG3689845-4 DUP		**L2681301-7**						
Boron (B), Hot Water Ext.		0.21	0.21		ug/g	1.0	30	27-JAN-22
WG3689845-2 IRM		**WT SAR4**						
Boron (B), Hot Water Ext.			86.7		%		70-130	27-JAN-22
WG3689845-3 LCS								
Boron (B), Hot Water Ext.			91.8		%		70-130	27-JAN-22
WG3689845-1 MB								
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	27-JAN-22
BTX-511-HS-WT	**Soil**							
Batch R5707644								
WG3688334-4 DUP		**WG3688334-3**						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	26-JAN-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	26-JAN-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	26-JAN-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	26-JAN-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	26-JAN-22
WG3688334-2 LCS								
Benzene			98.7		%		70-130	26-JAN-22
Ethylbenzene			96.8		%		70-130	26-JAN-22
m+p-Xylenes			98.5		%		70-130	26-JAN-22
o-Xylene			96.6		%		70-130	26-JAN-22
Toluene			96.3		%		70-130	26-JAN-22
WG3688334-1 MB								
Benzene			<0.0068		ug/g		0.0068	26-JAN-22
Ethylbenzene			<0.018		ug/g		0.018	26-JAN-22
m+p-Xylenes			<0.030		ug/g		0.03	26-JAN-22
o-Xylene			<0.020		ug/g		0.02	26-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Soil**							
Batch R5707644								
WG3688334-1 MB								
Toluene			<0.080		ug/g		0.08	26-JAN-22
Surrogate: 1,4-Difluorobenzene			122.6		%		50-140	26-JAN-22
Surrogate: 4-Bromofluorobenzene			113.2		%		50-140	26-JAN-22
WG3688334-5 MS		**WG3688334-3**						
Benzene			107.7		%		60-140	26-JAN-22
Ethylbenzene			102.4		%		60-140	26-JAN-22
m+p-Xylenes			103.4		%		60-140	26-JAN-22
o-Xylene			102.5		%		60-140	26-JAN-22
Toluene			103.5		%		60-140	26-JAN-22
Batch R5707881								
WG3688350-4 DUP		**WG3688350-3**						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	26-JAN-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	26-JAN-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	26-JAN-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	26-JAN-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	26-JAN-22
WG3688350-2 LCS								
Benzene			96.4		%		70-130	26-JAN-22
Ethylbenzene			93.8		%		70-130	26-JAN-22
m+p-Xylenes			96.3		%		70-130	26-JAN-22
o-Xylene			93.6		%		70-130	26-JAN-22
Toluene			94.6		%		70-130	26-JAN-22
WG3688350-1 MB								
Benzene			<0.0068		ug/g		0.0068	26-JAN-22
Ethylbenzene			<0.018		ug/g		0.018	26-JAN-22
m+p-Xylenes			<0.030		ug/g		0.03	26-JAN-22
o-Xylene			<0.020		ug/g		0.02	26-JAN-22
Toluene			<0.080		ug/g		0.08	26-JAN-22
Surrogate: 1,4-Difluorobenzene			112.4		%		50-140	26-JAN-22
Surrogate: 4-Bromofluorobenzene			102.5		%		50-140	26-JAN-22
WG3688350-5 MS		**WG3688350-3**						
Benzene			97.1		%		60-140	26-JAN-22
Ethylbenzene			93.0		%		60-140	26-JAN-22
m+p-Xylenes			95.9		%		60-140	26-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Soil**							
Batch R5707881								
WG3688350-5 MS		**WG3688350-3**						
o-Xylene			93.1		%		60-140	26-JAN-22
Toluene			96.2		%		60-140	26-JAN-22
EC-WT	**Soil**							
Batch R5707848								
WG3688837-4 DUP		**WG3688837-3**						
Conductivity		2.40	2.45		mS/cm	2.1	20	26-JAN-22
WG3688837-2 IRM		**WT SAR4**						
Conductivity			98.3		%		70-130	26-JAN-22
WG3688928-1 LCS								
Conductivity			96.5		%		90-110	26-JAN-22
WG3688837-1 MB								
Conductivity			<0.0040		mS/cm		0.004	26-JAN-22
Batch R5709436								
WG3689133-4 DUP		**WG3689133-3**						
Conductivity		3.04	3.21		mS/cm	5.3	20	27-JAN-22
WG3689133-2 IRM		**WT SAR4**						
Conductivity			100.1		%		70-130	27-JAN-22
WG3689538-1 LCS								
Conductivity			106.1		%		90-110	27-JAN-22
WG3689133-1 MB								
Conductivity			<0.0040		mS/cm		0.004	27-JAN-22
Batch R5710048								
WG3689194-4 DUP		**WG3689194-3**						
Conductivity		0.605	0.616		mS/cm	1.8	20	27-JAN-22
WG3689194-2 IRM		**WT SAR4**						
Conductivity			117.2		%		70-130	27-JAN-22
WG3689711-1 LCS								
Conductivity			102.3		%		90-110	27-JAN-22
WG3689194-1 MB								
Conductivity			<0.0040		mS/cm		0.004	27-JAN-22
F1-HS-511-WT	**Soil**							
Batch R5707644								
WG3688334-4 DUP		**WG3688334-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	26-JAN-22
WG3688334-2 LCS								
F1 (C6-C10)			97.2		%		80-120	26-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Soil**							
Batch R5707644								
WG3688334-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	26-JAN-22
Surrogate: 3,4-Dichlorotoluene			101.8		%		60-140	26-JAN-22
WG3688334-5 MS		**WG3688334-3**						
F1 (C6-C10)			96.0		%		60-140	26-JAN-22
Batch R5707881								
WG3688350-4 DUP		**WG3688350-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	26-JAN-22
WG3688350-2 LCS								
F1 (C6-C10)			96.2		%		80-120	26-JAN-22
WG3688350-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	26-JAN-22
Surrogate: 3,4-Dichlorotoluene			94.0		%		60-140	26-JAN-22
WG3688350-5 MS		**WG3688350-3**						
F1 (C6-C10)			92.1		%		60-140	26-JAN-22
F2-F4-511-WT	**Soil**							
Batch R5709723								
WG3687986-3 DUP		**WG3687986-5**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	40	27-JAN-22
F3 (C16-C34)		274	288		ug/g	5.1	40	27-JAN-22
F4 (C34-C50)		138	154		ug/g	11	40	27-JAN-22
WG3687986-2 LCS								
F2 (C10-C16)			91.0		%		70-130	27-JAN-22
F3 (C16-C34)			91.4		%		70-130	27-JAN-22
F4 (C34-C50)			93.9		%		70-130	27-JAN-22
WG3687986-1 MB								
F2 (C10-C16)			<10		ug/g		10	27-JAN-22
F3 (C16-C34)			<50		ug/g		50	27-JAN-22
F4 (C34-C50)			<50		ug/g		50	27-JAN-22
Surrogate: 2-Bromobenzotrifluoride			90.0		%		60-140	27-JAN-22
WG3687986-4 MS		**WG3687986-5**						
F2 (C10-C16)			93.3		%		60-140	27-JAN-22
F3 (C16-C34)			97.3		%		60-140	27-JAN-22
F4 (C34-C50)			104.7		%		60-140	27-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	**Soil**							
Batch R5709816								
WG3687934-3 DUP		**WG3687934-5**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	40	27-JAN-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	40	27-JAN-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	40	27-JAN-22
WG3687934-2 LCS								
F2 (C10-C16)			93.8		%		70-130	27-JAN-22
F3 (C16-C34)			93.1		%		70-130	27-JAN-22
F4 (C34-C50)			98.0		%		70-130	27-JAN-22
WG3687934-1 MB								
F2 (C10-C16)			<10		ug/g		10	27-JAN-22
F3 (C16-C34)			<50		ug/g		50	27-JAN-22
F4 (C34-C50)			<50		ug/g		50	27-JAN-22
Surrogate: 2-Bromobenzotrifluoride			91.3		%		60-140	27-JAN-22
WG3687934-4 MS		**WG3687934-5**						
F2 (C10-C16)			90.8		%		60-140	27-JAN-22
F3 (C16-C34)			90.5		%		60-140	27-JAN-22
F4 (C34-C50)			98.1		%		60-140	27-JAN-22
F4G-ADD-511-WT	**Soil**							
Batch R5711507								
WG3690367-3 DUP		**L2680005-20**						
F4G-SG (GHH-Silica)		620	580		ug/g	7.1	40	25-JAN-22
WG3690367-2 LCS								
F4G-SG (GHH-Silica)			92.7		%		60-140	25-JAN-22
WG3690367-1 MB								
F4G-SG (GHH-Silica)			<250		ug/g		250	25-JAN-22
WG3690367-4 MS		**L2680005-20**						
F4G-SG (GHH-Silica)			142.2	E	%		60-140	25-JAN-22
MET-200.2-CCMS-WT	**Soil**							
Batch R5708657								
WG3688848-2 CRM		**WT-SS-2**						
Antimony (Sb)			99.3		%		70-130	26-JAN-22
Arsenic (As)			105.7		%		70-130	26-JAN-22
Barium (Ba)			111.5		%		70-130	26-JAN-22
Beryllium (Be)			100.9		%		70-130	26-JAN-22
Boron (B)			7.9		mg/kg		3.5-13.5	26-JAN-22
Cadmium (Cd)			107.0		%		70-130	26-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5708657								
WG3688848-2 CRM		**WT-SS-2**						
Chromium (Cr)			100.9		%		70-130	26-JAN-22
Cobalt (Co)			107.5		%		70-130	26-JAN-22
Copper (Cu)			109.9		%		70-130	26-JAN-22
Lead (Pb)			101.7		%		70-130	26-JAN-22
Molybdenum (Mo)			107.8		%		70-130	26-JAN-22
Nickel (Ni)			106.7		%		70-130	26-JAN-22
Selenium (Se)			0.13		mg/kg		0-0.34	26-JAN-22
Silver (Ag)			90.6		%		70-130	26-JAN-22
Thallium (Tl)			0.073		mg/kg		0.029-0.129	26-JAN-22
Uranium (U)			99.0		%		70-130	26-JAN-22
Vanadium (V)			104.7		%		70-130	26-JAN-22
Zinc (Zn)			105.9		%		70-130	26-JAN-22
WG3688848-6 DUP		**WG3688848-5**						
Antimony (Sb)		0.12	0.13		ug/g	5.4	30	26-JAN-22
Arsenic (As)		4.95	5.02		ug/g	1.4	30	26-JAN-22
Barium (Ba)		98.7	101		ug/g	2.5	40	26-JAN-22
Beryllium (Be)		0.68	0.70		ug/g	3.2	30	26-JAN-22
Boron (B)		12.9	13.6		ug/g	5.2	30	26-JAN-22
Cadmium (Cd)		0.086	0.093		ug/g	8.0	30	26-JAN-22
Chromium (Cr)		25.5	25.8		ug/g	1.3	30	26-JAN-22
Cobalt (Co)		10.5	10.5		ug/g	0.8	30	26-JAN-22
Copper (Cu)		21.7	21.6		ug/g	0.4	30	26-JAN-22
Lead (Pb)		9.52	9.46		ug/g	0.6	40	26-JAN-22
Molybdenum (Mo)		0.46	0.47		ug/g	2.8	40	26-JAN-22
Nickel (Ni)		24.9	24.8		ug/g	0.4	30	26-JAN-22
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	26-JAN-22
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	26-JAN-22
Thallium (Tl)		0.140	0.139		ug/g	0.1	30	26-JAN-22
Uranium (U)		0.652	0.646		ug/g	0.8	30	26-JAN-22
Vanadium (V)		34.0	34.4		ug/g	1.0	30	26-JAN-22
Zinc (Zn)		53.3	54.7		ug/g	2.7	30	26-JAN-22
WG3688848-4 LCS								
Antimony (Sb)			105.9		%		80-120	26-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5708657								
WG3688848-4 LCS								
Arsenic (As)			107.0		%		80-120	26-JAN-22
Barium (Ba)			106.4		%		80-120	26-JAN-22
Beryllium (Be)			98.6		%		80-120	26-JAN-22
Boron (B)			91.8		%		80-120	26-JAN-22
Cadmium (Cd)			104.7		%		80-120	26-JAN-22
Chromium (Cr)			105.3		%		80-120	26-JAN-22
Cobalt (Co)			107.0		%		80-120	26-JAN-22
Copper (Cu)			104.4		%		80-120	26-JAN-22
Lead (Pb)			104.4		%		80-120	26-JAN-22
Molybdenum (Mo)			105.0		%		80-120	26-JAN-22
Nickel (Ni)			104.2		%		80-120	26-JAN-22
Selenium (Se)			107.4		%		80-120	26-JAN-22
Silver (Ag)			101.2		%		80-120	26-JAN-22
Thallium (Tl)			100.6		%		80-120	26-JAN-22
Uranium (U)			105.5		%		80-120	26-JAN-22
Vanadium (V)			108.1		%		80-120	26-JAN-22
Zinc (Zn)			104.5		%		80-120	26-JAN-22
WG3688848-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	26-JAN-22
Arsenic (As)			<0.10		mg/kg		0.1	26-JAN-22
Barium (Ba)			<0.50		mg/kg		0.5	26-JAN-22
Beryllium (Be)			<0.10		mg/kg		0.1	26-JAN-22
Boron (B)			<5.0		mg/kg		5	26-JAN-22
Cadmium (Cd)			<0.020		mg/kg		0.02	26-JAN-22
Chromium (Cr)			<0.50		mg/kg		0.5	26-JAN-22
Cobalt (Co)			<0.10		mg/kg		0.1	26-JAN-22
Copper (Cu)			<0.50		mg/kg		0.5	26-JAN-22
Lead (Pb)			<0.50		mg/kg		0.5	26-JAN-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	26-JAN-22
Nickel (Ni)			<0.50		mg/kg		0.5	26-JAN-22
Selenium (Se)			<0.20		mg/kg		0.2	26-JAN-22
Silver (Ag)			<0.10		mg/kg		0.1	26-JAN-22
Thallium (Tl)			<0.050		mg/kg		0.05	26-JAN-22
Uranium (U)			<0.050		mg/kg		0.05	26-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5708657								
WG3688848-1 MB								
Vanadium (V)			<0.20		mg/kg		0.2	26-JAN-22
Zinc (Zn)			<2.0		mg/kg		2	26-JAN-22
Batch R5709697								
WG3689150-2 CRM		**WT-SS-2**						
Antimony (Sb)			99.2		%		70-130	26-JAN-22
Arsenic (As)			104.3		%		70-130	26-JAN-22
Barium (Ba)			101.6		%		70-130	26-JAN-22
Beryllium (Be)			100.4		%		70-130	26-JAN-22
Boron (B)			8.3		mg/kg		3.5-13.5	26-JAN-22
Cadmium (Cd)			105.8		%		70-130	26-JAN-22
Chromium (Cr)			89.6		%		70-130	26-JAN-22
Cobalt (Co)			97.3		%		70-130	26-JAN-22
Copper (Cu)			110.3		%		70-130	26-JAN-22
Lead (Pb)			101.1		%		70-130	26-JAN-22
Molybdenum (Mo)			100.4		%		70-130	26-JAN-22
Nickel (Ni)			101.5		%		70-130	26-JAN-22
Selenium (Se)			0.15		mg/kg		0-0.34	26-JAN-22
Silver (Ag)			88.0		%		70-130	26-JAN-22
Thallium (Tl)			0.074		mg/kg		0.029-0.129	26-JAN-22
Uranium (U)			97.1		%		70-130	26-JAN-22
Vanadium (V)			96.9		%		70-130	26-JAN-22
Zinc (Zn)			100.4		%		70-130	26-JAN-22
WG3689150-4 DUP		**L2680005-41**						
Antimony (Sb)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	26-JAN-22
Arsenic (As)		1.6	1.7		ug/g	11	30	26-JAN-22
Barium (Ba)		36.4	39.8		ug/g	9.0	40	26-JAN-22
Beryllium (Be)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	26-JAN-22
Boron (B)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	26-JAN-22
Cadmium (Cd)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	26-JAN-22
Chromium (Cr)		12.2	13.5		ug/g	10	30	26-JAN-22
Cobalt (Co)		5.6	6.0		ug/g	7.3	30	26-JAN-22
Copper (Cu)		23.6	26.2		ug/g	10	30	26-JAN-22
Lead (Pb)		5.7	6.1		ug/g	7.8	40	26-JAN-22
Molybdenum (Mo)		<1.0	<1.0		ug/g			26-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5709697								
WG3689150-4 DUP		**L2680005-41**						
Molybdenum (Mo)		<1.0	<1.0	RPD-NA	ug/g	N/A	40	26-JAN-22
Nickel (Ni)		13.0	14.1		ug/g	8.4	30	26-JAN-22
Selenium (Se)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	26-JAN-22
Silver (Ag)		<0.20	<0.20	RPD-NA	ug/g	N/A	40	26-JAN-22
Thallium (Tl)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	26-JAN-22
Uranium (U)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	26-JAN-22
Vanadium (V)		16.1	17.3		ug/g	6.8	30	26-JAN-22
Zinc (Zn)		36.5	39.4		ug/g	7.4	30	26-JAN-22
WG3689150-3 LCS								
Antimony (Sb)			104.7		%		80-120	26-JAN-22
Arsenic (As)			101.1		%		80-120	26-JAN-22
Barium (Ba)			96.5		%		80-120	26-JAN-22
Beryllium (Be)			94.0		%		80-120	26-JAN-22
Boron (B)			94.1		%		80-120	26-JAN-22
Cadmium (Cd)			100.1		%		80-120	26-JAN-22
Chromium (Cr)			98.7		%		80-120	26-JAN-22
Cobalt (Co)			95.7		%		80-120	26-JAN-22
Copper (Cu)			97.7		%		80-120	26-JAN-22
Lead (Pb)			102.3		%		80-120	26-JAN-22
Molybdenum (Mo)			99.4		%		80-120	26-JAN-22
Nickel (Ni)			97.9		%		80-120	26-JAN-22
Selenium (Se)			101.6		%		80-120	26-JAN-22
Silver (Ag)			95.1		%		80-120	26-JAN-22
Thallium (Tl)			101.0		%		80-120	26-JAN-22
Uranium (U)			100.0		%		80-120	26-JAN-22
Vanadium (V)			99.7		%		80-120	26-JAN-22
Zinc (Zn)			97.7		%		80-120	26-JAN-22
WG3689150-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	26-JAN-22
Arsenic (As)			<0.10		mg/kg		0.1	26-JAN-22
Barium (Ba)			<0.50		mg/kg		0.5	26-JAN-22
Beryllium (Be)			<0.10		mg/kg		0.1	26-JAN-22
Boron (B)			<5.0		mg/kg		5	26-JAN-22
Cadmium (Cd)			<0.020		mg/kg		0.02	26-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5709697								
WG3689150-1 MB								
Chromium (Cr)			<0.50		mg/kg		0.5	26-JAN-22
Cobalt (Co)			<0.10		mg/kg		0.1	26-JAN-22
Copper (Cu)			<0.50		mg/kg		0.5	26-JAN-22
Lead (Pb)			<0.50		mg/kg		0.5	26-JAN-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	26-JAN-22
Nickel (Ni)			<0.50		mg/kg		0.5	26-JAN-22
Selenium (Se)			<0.20		mg/kg		0.2	26-JAN-22
Silver (Ag)			<0.10		mg/kg		0.1	26-JAN-22
Thallium (Tl)			<0.050		mg/kg		0.05	26-JAN-22
Uranium (U)			<0.050		mg/kg		0.05	26-JAN-22
Vanadium (V)			<0.20		mg/kg		0.2	26-JAN-22
Zinc (Zn)			<2.0		mg/kg		2	26-JAN-22
Batch R5710296								
WG3689681-2 CRM		**WT-SS-2**						
Antimony (Sb)			108.2		%		70-130	27-JAN-22
Arsenic (As)			109.7		%		70-130	27-JAN-22
Barium (Ba)			118.2		%		70-130	27-JAN-22
Beryllium (Be)			115.7		%		70-130	27-JAN-22
Boron (B)			9.0		mg/kg		3.5-13.5	27-JAN-22
Cadmium (Cd)			105.7		%		70-130	27-JAN-22
Chromium (Cr)			102.8		%		70-130	27-JAN-22
Cobalt (Co)			109.9		%		70-130	27-JAN-22
Copper (Cu)			111.7		%		70-130	27-JAN-22
Lead (Pb)			108.8		%		70-130	27-JAN-22
Molybdenum (Mo)			107.8		%		70-130	27-JAN-22
Nickel (Ni)			111.2		%		70-130	27-JAN-22
Selenium (Se)			0.15		mg/kg		0-0.34	27-JAN-22
Thallium (Tl)			0.081		mg/kg		0.029-0.129	27-JAN-22
Uranium (U)			97.6		%		70-130	27-JAN-22
Vanadium (V)			108.8		%		70-130	27-JAN-22
Zinc (Zn)			109.4		%		70-130	27-JAN-22
WG3689681-4 LCS								
Antimony (Sb)			112.0		%		80-120	27-JAN-22
Arsenic (As)			110.1		%		80-120	27-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5710296								
WG3689681-4 LCS								
Barium (Ba)			111.3		%		80-120	27-JAN-22
Beryllium (Be)			106.9		%		80-120	27-JAN-22
Boron (B)			104.0		%		80-120	27-JAN-22
Cadmium (Cd)			105.7		%		80-120	27-JAN-22
Chromium (Cr)			108.5		%		80-120	27-JAN-22
Cobalt (Co)			109.0		%		80-120	27-JAN-22
Copper (Cu)			106.7		%		80-120	27-JAN-22
Lead (Pb)			106.7		%		80-120	27-JAN-22
Molybdenum (Mo)			105.9		%		80-120	27-JAN-22
Nickel (Ni)			107.6		%		80-120	27-JAN-22
Selenium (Se)			106.8		%		80-120	27-JAN-22
Silver (Ag)			99.7		%		80-120	27-JAN-22
Thallium (Tl)			106.2		%		80-120	27-JAN-22
Uranium (U)			104.3		%		80-120	27-JAN-22
Vanadium (V)			112.4		%		80-120	27-JAN-22
Zinc (Zn)			103.6		%		80-120	27-JAN-22
WG3689681-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	27-JAN-22
Arsenic (As)			<0.10		mg/kg		0.1	27-JAN-22
Barium (Ba)			<0.50		mg/kg		0.5	27-JAN-22
Beryllium (Be)			<0.10		mg/kg		0.1	27-JAN-22
Boron (B)			<5.0		mg/kg		5	27-JAN-22
Cadmium (Cd)			<0.020		mg/kg		0.02	27-JAN-22
Chromium (Cr)			<0.50		mg/kg		0.5	27-JAN-22
Cobalt (Co)			<0.10		mg/kg		0.1	27-JAN-22
Copper (Cu)			<0.50		mg/kg		0.5	27-JAN-22
Lead (Pb)			<0.50		mg/kg		0.5	27-JAN-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	27-JAN-22
Nickel (Ni)			<0.50		mg/kg		0.5	27-JAN-22
Selenium (Se)			<0.20		mg/kg		0.2	27-JAN-22
Silver (Ag)			<0.10		mg/kg		0.1	27-JAN-22
Thallium (Tl)			<0.050		mg/kg		0.05	27-JAN-22
Uranium (U)			<0.050		mg/kg		0.05	27-JAN-22
Vanadium (V)			<0.20		mg/kg		0.2	27-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5710296								
WG3689681-1 MB								
Zinc (Zn)			<2.0		mg/kg		2	27-JAN-22
MOISTURE-WT	**Soil**							
Batch R5704896								
WG3687796-3 DUP		**L2680654-2**						
% Moisture		19.5	19.8		%	1.4	20	23-JAN-22
WG3687796-2 LCS								
% Moisture			100.8		%		90-110	23-JAN-22
WG3687796-1 MB								
% Moisture			<0.25		%		0.25	23-JAN-22
Batch R5704980								
WG3687847-3 DUP		**L2680131-4**						
% Moisture		16.0	16.1		%	0.8	20	25-JAN-22
WG3687847-2 LCS								
% Moisture			100.1		%		90-110	25-JAN-22
WG3687847-1 MB								
% Moisture			<0.25		%		0.25	25-JAN-22
Batch R5704996								
WG3687844-3 DUP		**L2680005-8**						
% Moisture		15.8	15.8		%	0.1	20	23-JAN-22
WG3687844-2 LCS								
% Moisture			100.4		%		90-110	23-JAN-22
WG3687844-1 MB								
% Moisture			<0.25		%		0.25	23-JAN-22
OCP-TRACE-WT	**Soil**							
Batch R5710037								
WG3688351-3 DUP		**WG3688351-5**						
Aldrin		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	27-JAN-22
a-chlordane		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	27-JAN-22
g-chlordane		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	27-JAN-22
o,p-DDD		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	27-JAN-22
pp-DDD		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	27-JAN-22
o,p-DDE		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	27-JAN-22
pp-DDE		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	27-JAN-22
op-DDT		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	27-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT	**Soil**							
Batch R5710037								
WG3688351-3 DUP		**WG3688351-5**						
pp-DDT		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	27-JAN-22
Dieldrin		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	27-JAN-22
alpha-Endosulfan		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	27-JAN-22
beta-Endosulfan		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	27-JAN-22
Endrin		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	27-JAN-22
Heptachlor		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	27-JAN-22
Heptachlor Epoxide		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	27-JAN-22
Hexachlorobenzene		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	27-JAN-22
Hexachlorobutadiene		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	27-JAN-22
Hexachloroethane		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	27-JAN-22
Lindane		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	27-JAN-22
Methoxychlor		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	27-JAN-22
WG3688351-2 LCS								
Aldrin			87.2		%		50-150	27-JAN-22
a-chlordane			85.4		%		50-150	27-JAN-22
g-chlordane			81.3		%		50-150	27-JAN-22
o,p-DDD			77.8		%		50-150	27-JAN-22
pp-DDD			87.9		%		50-150	27-JAN-22
o,p-DDE			72.0		%		50-150	27-JAN-22
pp-DDE			84.3		%		50-150	27-JAN-22
op-DDT			65.7		%		50-150	27-JAN-22
pp-DDT			66.5		%		50-150	27-JAN-22
Dieldrin			80.8		%		50-150	27-JAN-22
alpha-Endosulfan			83.9		%		50-150	27-JAN-22
beta-Endosulfan			75.4		%		50-150	27-JAN-22
Endrin			95.9		%		50-150	27-JAN-22
Heptachlor			80.5		%		50-150	27-JAN-22
Heptachlor Epoxide			82.6		%		50-150	27-JAN-22
Hexachlorobenzene			85.9		%		50-150	27-JAN-22
Hexachlorobutadiene			84.7		%		50-150	27-JAN-22
Hexachloroethane			83.1		%		50-150	27-JAN-22
Lindane			85.8		%		50-150	27-JAN-22
Methoxychlor			73.3		%		50-150	27-JAN-22
WG3688351-1 MB								

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT	**Soil**							
Batch R5710037								
WG3688351-1 MB								
Aldrin			<0.00020		ug/g		0.0002	27-JAN-22
a-chlordane			<0.00030		ug/g		0.0003	27-JAN-22
g-chlordane			<0.00030		ug/g		0.0003	27-JAN-22
o,p-DDD			<0.00030		ug/g		0.0003	27-JAN-22
pp-DDD			<0.00030		ug/g		0.0003	27-JAN-22
o,p-DDE			<0.00030		ug/g		0.0003	27-JAN-22
pp-DDE			<0.00030		ug/g		0.0003	27-JAN-22
op-DDT			<0.00030		ug/g		0.0003	27-JAN-22
pp-DDT			<0.00030		ug/g		0.0003	27-JAN-22
Dieldrin			<0.00020		ug/g		0.0002	27-JAN-22
alpha-Endosulfan			<0.00030		ug/g		0.0003	27-JAN-22
beta-Endosulfan			<0.00030		ug/g		0.0003	27-JAN-22
Endrin			<0.00050		ug/g		0.0005	27-JAN-22
Heptachlor			<0.00020		ug/g		0.0002	27-JAN-22
Heptachlor Epoxide			<0.00020		ug/g		0.0002	27-JAN-22
Hexachlorobenzene			<0.00050		ug/g		0.0005	27-JAN-22
Hexachlorobutadiene			<0.00050		ug/g		0.0005	27-JAN-22
Hexachloroethane			<0.00050		ug/g		0.0005	27-JAN-22
Lindane			<0.00020		ug/g		0.0002	27-JAN-22
Methoxychlor			<0.00050		ug/g		0.0005	27-JAN-22
Surrogate: Tetrachloro-m-xylene			86.3		%		50-150	27-JAN-22
Surrogate: Decachlorobiphenyl			83.2		%		50-150	27-JAN-22
WG3688351-4 MS		**WG3688351-5**						
Aldrin			150.9	K	%		50-150	27-JAN-22
a-chlordane			62.3		%		50-150	27-JAN-22
g-chlordane			56.6		%		50-150	27-JAN-22
o,p-DDD			60.2		%		50-150	27-JAN-22
pp-DDD			80.6		%		50-150	27-JAN-22
o,p-DDE			54.7		%		50-150	27-JAN-22
pp-DDE			65.8		%		50-150	27-JAN-22
op-DDT			84.4		%		50-150	27-JAN-22
pp-DDT			106.0		%		50-150	27-JAN-22
Dieldrin			62.8		%		50-150	27-JAN-22
alpha-Endosulfan			63.9		%		50-150	27-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT	**Soil**							
Batch R5710037								
WG3688351-4 MS		**WG3688351-5**						
beta-Endosulfan			62.1		%		50-150	27-JAN-22
Endrin			136.1		%		50-150	27-JAN-22
Heptachlor			141.8		%		50-150	27-JAN-22
Heptachlor Epoxide			61.6		%		50-150	27-JAN-22
Hexachlorobenzene			141.0		%		50-150	27-JAN-22
Hexachlorobutadiene			150.6	K	%		50-150	27-JAN-22
Hexachloroethane			164.8	K	%		50-150	27-JAN-22
Lindane			140.9		%		50-150	27-JAN-22
Methoxychlor			138.2		%		50-150	27-JAN-22
PAH-511-WT	**Soil**							
Batch R5706476								
WG3687787-3 DUP		**WG3687787-5**						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-JAN-22
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-JAN-22
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-JAN-22
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-JAN-22
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-JAN-22
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-JAN-22
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-JAN-22
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-JAN-22
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-JAN-22
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-JAN-22
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-JAN-22
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-JAN-22
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-JAN-22
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-JAN-22
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-JAN-22
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	25-JAN-22
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	25-JAN-22
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-JAN-22
WG3687787-2 LCS								
1-Methylnaphthalene			74.3		%		50-140	25-JAN-22
2-Methylnaphthalene			74.3		%		50-140	25-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5706476								
WG3687787-2 LCS								
Acenaphthene			72.1		%		50-140	25-JAN-22
Acenaphthylene			73.1		%		50-140	25-JAN-22
Anthracene			67.9		%		50-140	25-JAN-22
Benzo(a)anthracene			75.6		%		50-140	25-JAN-22
Benzo(a)pyrene			73.6		%		50-140	25-JAN-22
Benzo(b&j)fluoranthene			70.2		%		50-140	25-JAN-22
Benzo(g,h,i)perylene			73.7		%		50-140	25-JAN-22
Benzo(k)fluoranthene			73.2		%		50-140	25-JAN-22
Chrysene			74.1		%		50-140	25-JAN-22
Dibenz(a,h)anthracene			72.1		%		50-140	25-JAN-22
Fluoranthene			73.8		%		50-140	25-JAN-22
Fluorene			70.6		%		50-140	25-JAN-22
Indeno(1,2,3-cd)pyrene			77.3		%		50-140	25-JAN-22
Naphthalene			73.7		%		50-140	25-JAN-22
Phenanthrene			72.8		%		50-140	25-JAN-22
Pyrene			72.7		%		50-140	25-JAN-22
WG3687787-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	25-JAN-22
2-Methylnaphthalene			<0.030		ug/g		0.03	25-JAN-22
Acenaphthene			<0.050		ug/g		0.05	25-JAN-22
Acenaphthylene			<0.050		ug/g		0.05	25-JAN-22
Anthracene			<0.050		ug/g		0.05	25-JAN-22
Benzo(a)anthracene			<0.050		ug/g		0.05	25-JAN-22
Benzo(a)pyrene			<0.050		ug/g		0.05	25-JAN-22
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	25-JAN-22
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	25-JAN-22
Benzo(k)fluoranthene			<0.050		ug/g		0.05	25-JAN-22
Chrysene			<0.050		ug/g		0.05	25-JAN-22
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	25-JAN-22
Fluoranthene			<0.050		ug/g		0.05	25-JAN-22
Fluorene			<0.050		ug/g		0.05	25-JAN-22
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	25-JAN-22
Naphthalene			<0.013		ug/g		0.013	25-JAN-22
Phenanthrene			<0.046		ug/g		0.046	25-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5706476								
WG3687787-1 MB								
Pyrene			<0.050		ug/g		0.05	25-JAN-22
Surrogate: 2-Fluorobiphenyl			84.8		%		50-140	25-JAN-22
Surrogate: d14-Terphenyl			83.7		%		50-140	25-JAN-22
WG3687787-4 MS		**WG3687787-5**						
1-Methylnaphthalene			93.4		%		50-140	25-JAN-22
2-Methylnaphthalene			94.7		%		50-140	25-JAN-22
Acenaphthene			94.5		%		50-140	25-JAN-22
Acenaphthylene			97.5		%		50-140	25-JAN-22
Anthracene			87.8		%		50-140	25-JAN-22
Benzo(a)anthracene			101.3		%		50-140	25-JAN-22
Benzo(a)pyrene			96.6		%		50-140	25-JAN-22
Benzo(b&j)fluoranthene			92.5		%		50-140	25-JAN-22
Benzo(g,h,i)perylene			88.9		%		50-140	25-JAN-22
Benzo(k)fluoranthene			93.5		%		50-140	25-JAN-22
Chrysene			91.8		%		50-140	25-JAN-22
Dibenz(a,h)anthracene			89.1		%		50-140	25-JAN-22
Fluoranthene			97.9		%		50-140	25-JAN-22
Fluorene			96.6		%		50-140	25-JAN-22
Indeno(1,2,3-cd)pyrene			96.1		%		50-140	25-JAN-22
Naphthalene			89.3		%		50-140	25-JAN-22
Phenanthrene			89.4		%		50-140	25-JAN-22
Pyrene			96.1		%		50-140	25-JAN-22
Batch R5708632								
WG3688358-3 DUP		**WG3688358-5**						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	26-JAN-22
2-Methylnaphthalene		<0.030	0.030	RPD-NA	ug/g	N/A	40	26-JAN-22
Acenaphthene		0.091	0.440	DUP-H	ug/g	131	40	26-JAN-22
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-JAN-22
Anthracene		0.152	0.584	DUP-H	ug/g	117	40	26-JAN-22
Benzo(a)anthracene		0.376	1.01	DUP-H	ug/g	91	40	26-JAN-22
Benzo(a)pyrene		0.441	1.06	DUP-H	ug/g	83	40	26-JAN-22
Benzo(b&j)fluoranthene		0.533	1.27	DUP-H	ug/g	82	40	26-JAN-22
Benzo(g,h,i)perylene		0.231	0.563	DUP-H	ug/g	84	40	26-JAN-22
Benzo(k)fluoranthene		0.178	0.414	DUP-H	ug/g	80	40	26-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5708632								
WG3688358-3 DUP		**WG3688358-5**						
Chrysene		0.403	0.980	DUP-H	ug/g	83	40	26-JAN-22
Dibenz(a,h)anthracene		0.057	0.134	J	ug/g	0.077	0.1	26-JAN-22
Fluoranthene		1.09	2.90	DUP-H	ug/g	91	40	26-JAN-22
Fluorene		0.069	0.283	DUP-H,J	ug/g	0.214	0.1	26-JAN-22
Indeno(1,2,3-cd)pyrene		0.270	0.640	DUP-H	ug/g	81	40	26-JAN-22
Naphthalene		0.019	0.057	DUP-H,J	ug/g	0.038	0.026	26-JAN-22
Phenanthrene		0.797	2.70	DUP-H	ug/g	109	40	26-JAN-22
Pyrene		0.879	2.30	DUP-H	ug/g	89	40	26-JAN-22
WG3688358-2 LCS								
1-Methylnaphthalene			94.9		%		50-140	26-JAN-22
2-Methylnaphthalene			95.5		%		50-140	26-JAN-22
Acenaphthene			93.0		%		50-140	26-JAN-22
Acenaphthylene			93.8		%		50-140	26-JAN-22
Anthracene			87.9		%		50-140	26-JAN-22
Benzo(a)anthracene			94.0		%		50-140	26-JAN-22
Benzo(a)pyrene			94.0		%		50-140	26-JAN-22
Benzo(b&j)fluoranthene			96.2		%		50-140	26-JAN-22
Benzo(g,h,i)perylene			89.1		%		50-140	26-JAN-22
Benzo(k)fluoranthene			89.5		%		50-140	26-JAN-22
Chrysene			92.5		%		50-140	26-JAN-22
Dibenz(a,h)anthracene			89.2		%		50-140	26-JAN-22
Fluoranthene			94.0		%		50-140	26-JAN-22
Fluorene			92.2		%		50-140	26-JAN-22
Indeno(1,2,3-cd)pyrene			97.2		%		50-140	26-JAN-22
Naphthalene			91.8		%		50-140	26-JAN-22
Phenanthrene			92.1		%		50-140	26-JAN-22
Pyrene			94.2		%		50-140	26-JAN-22
WG3688358-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	26-JAN-22
2-Methylnaphthalene			<0.030		ug/g		0.03	26-JAN-22
Acenaphthene			<0.050		ug/g		0.05	26-JAN-22
Acenaphthylene			<0.050		ug/g		0.05	26-JAN-22
Anthracene			<0.050		ug/g		0.05	26-JAN-22
Benzo(a)anthracene			<0.050		ug/g		0.05	26-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5708632								
WG3688358-1 MB								
Benzo(a)pyrene			<0.050		ug/g		0.05	26-JAN-22
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	26-JAN-22
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	26-JAN-22
Benzo(k)fluoranthene			<0.050		ug/g		0.05	26-JAN-22
Chrysene			<0.050		ug/g		0.05	26-JAN-22
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	26-JAN-22
Fluoranthene			<0.050		ug/g		0.05	26-JAN-22
Fluorene			<0.050		ug/g		0.05	26-JAN-22
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	26-JAN-22
Naphthalene			<0.013		ug/g		0.013	26-JAN-22
Phenanthrene			<0.046		ug/g		0.046	26-JAN-22
Pyrene			<0.050		ug/g		0.05	26-JAN-22
Surrogate: 2-Fluorobiphenyl			91.8		%		50-140	26-JAN-22
Surrogate: d14-Terphenyl			87.6		%		50-140	26-JAN-22
WG3688358-4 MS		**WG3688358-5**						
1-Methylnaphthalene			94.3		%		50-140	26-JAN-22
2-Methylnaphthalene			94.8		%		50-140	26-JAN-22
Acenaphthene			88.3		%		50-140	26-JAN-22
Acenaphthylene			93.3		%		50-140	26-JAN-22
Anthracene			79.5		%		50-140	26-JAN-22
Benzo(a)anthracene			74.5		%		50-140	26-JAN-22
Benzo(a)pyrene			69.2		%		50-140	26-JAN-22
Benzo(b&j)fluoranthene			64.2		%		50-140	26-JAN-22
Benzo(g,h,i)perylene			76.1		%		50-140	26-JAN-22
Benzo(k)fluoranthene			81.8		%		50-140	26-JAN-22
Chrysene			69.0		%		50-140	26-JAN-22
Dibenz(a,h)anthracene			86.9		%		50-140	26-JAN-22
Fluoranthene			N/A	MS-B	%		-	26-JAN-22
Fluorene			88.8		%		50-140	26-JAN-22
Indeno(1,2,3-cd)pyrene			82.2		%		50-140	26-JAN-22
Naphthalene			90.2		%		50-140	26-JAN-22
Phenanthrene			48.4	E	%		50-140	26-JAN-22
Pyrene			44.7	E	%		50-140	26-JAN-22
PCB-511-WT	**Soil**							

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-511-WT	**Soil**							
Batch R5704978								
WG3687787-3 DUP		**WG3687787-5**						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	24-JAN-22
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	24-JAN-22
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	24-JAN-22
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	24-JAN-22
WG3687787-2 LCS								
Aroclor 1242			81.4		%		60-140	24-JAN-22
Aroclor 1248			97.4		%		60-140	24-JAN-22
Aroclor 1254			75.3		%		60-140	24-JAN-22
Aroclor 1260			78.7		%		60-140	24-JAN-22
WG3687787-1 MB								
Aroclor 1242			<0.010		ug/g		0.01	24-JAN-22
Aroclor 1248			<0.010		ug/g		0.01	24-JAN-22
Aroclor 1254			<0.010		ug/g		0.01	24-JAN-22
Aroclor 1260			<0.010		ug/g		0.01	24-JAN-22
Surrogate: d14-Terphenyl			68.6		%		60-140	24-JAN-22
WG3687787-4 MS		**WG3687787-5**						
Aroclor 1242			84.8		%		60-140	24-JAN-22
Aroclor 1254			78.5		%		60-140	24-JAN-22
Aroclor 1260			85.8		%		60-140	24-JAN-22
Batch R5708361								
WG3688413-3 DUP		**WG3688413-5**						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	26-JAN-22
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	26-JAN-22
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	26-JAN-22
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	26-JAN-22
WG3688413-2 LCS								
Aroclor 1242			95.1		%		60-140	26-JAN-22
Aroclor 1248			94.2		%		60-140	26-JAN-22
Aroclor 1254			89.7		%		60-140	26-JAN-22
Aroclor 1260			94.3		%		60-140	26-JAN-22
WG3688413-1 MB								
Aroclor 1242			<0.010		ug/g		0.01	26-JAN-22
Aroclor 1248			<0.010		ug/g		0.01	26-JAN-22
Aroclor 1254			<0.010		ug/g		0.01	26-JAN-22
							0.01	

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-511-WT	**Soil**							
Batch R5708361								
WG3688413-1 MB								
Aroclor 1260			<0.010		ug/g		0.01	26-JAN-22
Surrogate: d14-Terphenyl			77.1		%		60-140	26-JAN-22
WG3688413-4 MS		**WG3688413-5**						
Aroclor 1242			101.8		%		60-140	26-JAN-22
Aroclor 1254			98.1		%		60-140	26-JAN-22
Aroclor 1260			102.5		%		60-140	26-JAN-22
PH-WT	**Soil**							
Batch R5707080								
WG3688329-1 DUP		**L2680853-7**						
pH		8.07	8.03	J	pH units	0.04	0.3	25-JAN-22
WG3688462-1 LCS								
pH			7.01		pH units		6.9-7.1	25-JAN-22
SAR-R511-WT	**Soil**							
Batch R5708276								
WG3688837-4 DUP		**WG3688837-3**						
Calcium (Ca)		73.4	68.8		mg/L	6.5	30	26-JAN-22
Sodium (Na)		354	351		mg/L	0.9	30	26-JAN-22
Magnesium (Mg)		12.2	11.7		mg/L	4.2	30	26-JAN-22
WG3688837-2 IRM		**WT SAR4**						
Calcium (Ca)			102.2		%		70-130	26-JAN-22
Sodium (Na)			97.1		%		70-130	26-JAN-22
Magnesium (Mg)			102.9		%		70-130	26-JAN-22
WG3688837-5 LCS								
Calcium (Ca)			102.7		%		80-120	26-JAN-22
Sodium (Na)			101.6		%		80-120	26-JAN-22
Magnesium (Mg)			100.6		%		80-120	26-JAN-22
WG3688837-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	26-JAN-22
Sodium (Na)			<0.50		mg/L		0.5	26-JAN-22
Magnesium (Mg)			<0.50		mg/L		0.5	26-JAN-22
Batch R5709059								
WG3689133-4 DUP		**WG3689133-3**						
Calcium (Ca)		50.8	52.6		mg/L	3.5	30	26-JAN-22
Sodium (Na)		54.2	57.1		mg/L	5.2	30	26-JAN-22
Magnesium (Mg)		<0.50	<0.50	RPD-NA	mg/L	N/A	30	26-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAR-R511-WT	**Soil**							
Batch R5709059								
WG3689133-2 IRM		**WT SAR4**						
Calcium (Ca)			97.1		%		70-130	26-JAN-22
Sodium (Na)			101.7		%		70-130	26-JAN-22
Magnesium (Mg)			100.0		%		70-130	26-JAN-22
WG3689133-5 LCS								
Calcium (Ca)			102.7		%		80-120	26-JAN-22
Sodium (Na)			100.8		%		80-120	26-JAN-22
Magnesium (Mg)			100.2		%		80-120	26-JAN-22
WG3689133-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	26-JAN-22
Sodium (Na)			<0.50		mg/L		0.5	26-JAN-22
Magnesium (Mg)			<0.50		mg/L		0.5	26-JAN-22
Batch R5709063								
WG3689194-4 DUP		**WG3689194-3**						
Calcium (Ca)		33.0	34.2		mg/L	3.6	30	26-JAN-22
Sodium (Na)		65.1	66.8		mg/L	2.6	30	26-JAN-22
Magnesium (Mg)		5.47	5.66		mg/L	3.4	30	26-JAN-22
WG3689194-2 IRM		**WT SAR4**						
Calcium (Ca)			112.3		%		70-130	26-JAN-22
Sodium (Na)			117.1		%		70-130	26-JAN-22
Magnesium (Mg)			115.7		%		70-130	26-JAN-22
WG3689194-5 LCS								
Calcium (Ca)			104.3		%		80-120	26-JAN-22
Sodium (Na)			102.8		%		80-120	26-JAN-22
Magnesium (Mg)			101.8		%		80-120	26-JAN-22
WG3689194-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	26-JAN-22
Sodium (Na)			<0.50		mg/L		0.5	26-JAN-22
Magnesium (Mg)			<0.50		mg/L		0.5	26-JAN-22

Quality Control Report

Workorder: L2680005 Report Date: 28-JAN-22

Client: MTE CONSULTANTS INC. (Kitchener)
520 BINGEMANS CENTRE DRIVE
KITCHENER ON N2B 3X9
Contact: JEN LAMBKE

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.
DUP-H,J	Duplicate results outside ALS DQO, due to sample heterogeneity. Duplicate results and limits are expressed in terms of absolute difference.
E	Matrix Spike recovery outside ALS DQO due to heterogeneous analyte background in sample.
J	Duplicate results and limits are expressed in terms of absolute difference.
K	Matrix Spike recovery outside ALS DQO due to sample matrix effects.
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.

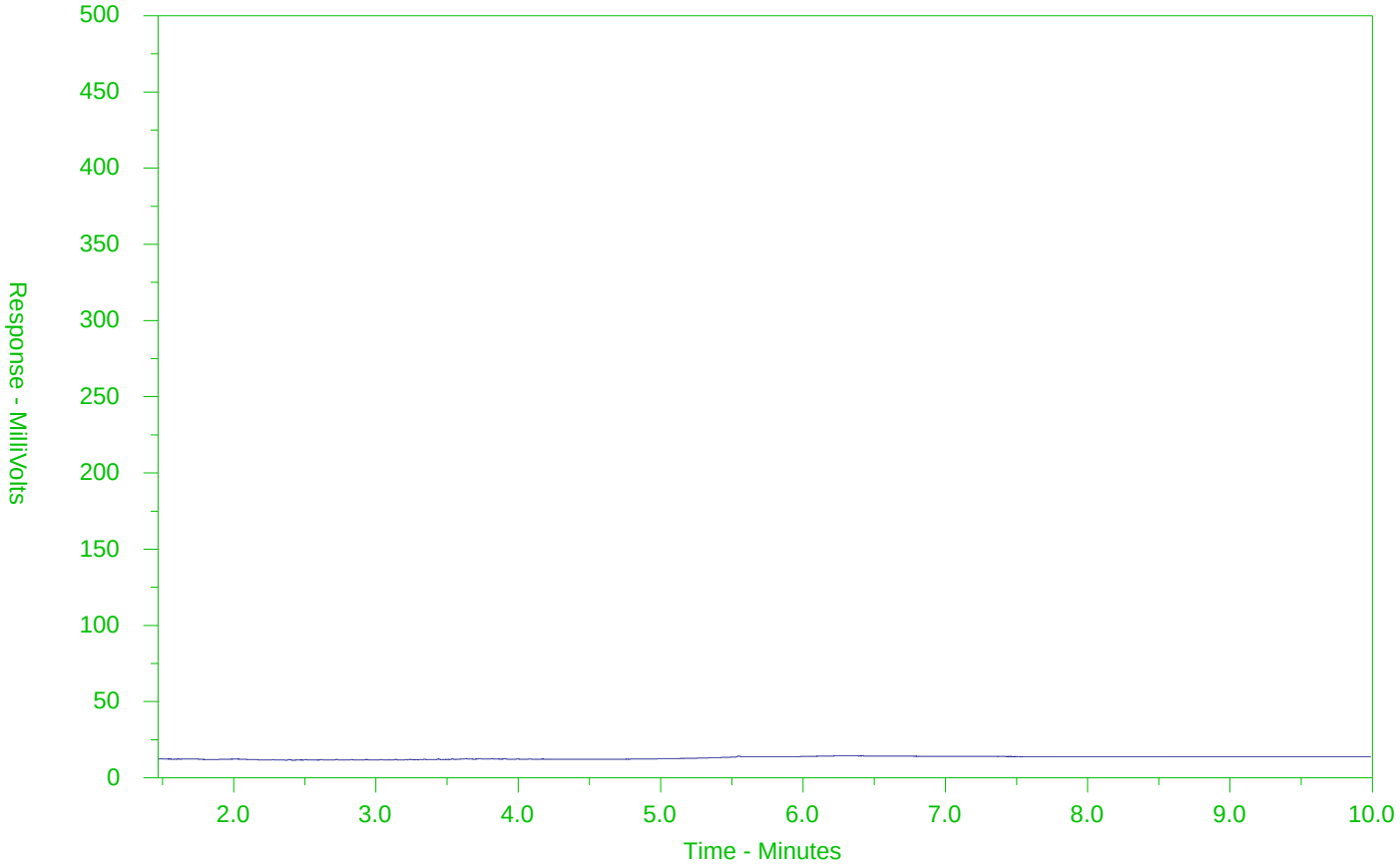
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where 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: L2680005-3
Client Sample ID: BH315-22 SS2 2.5-4.5



←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.

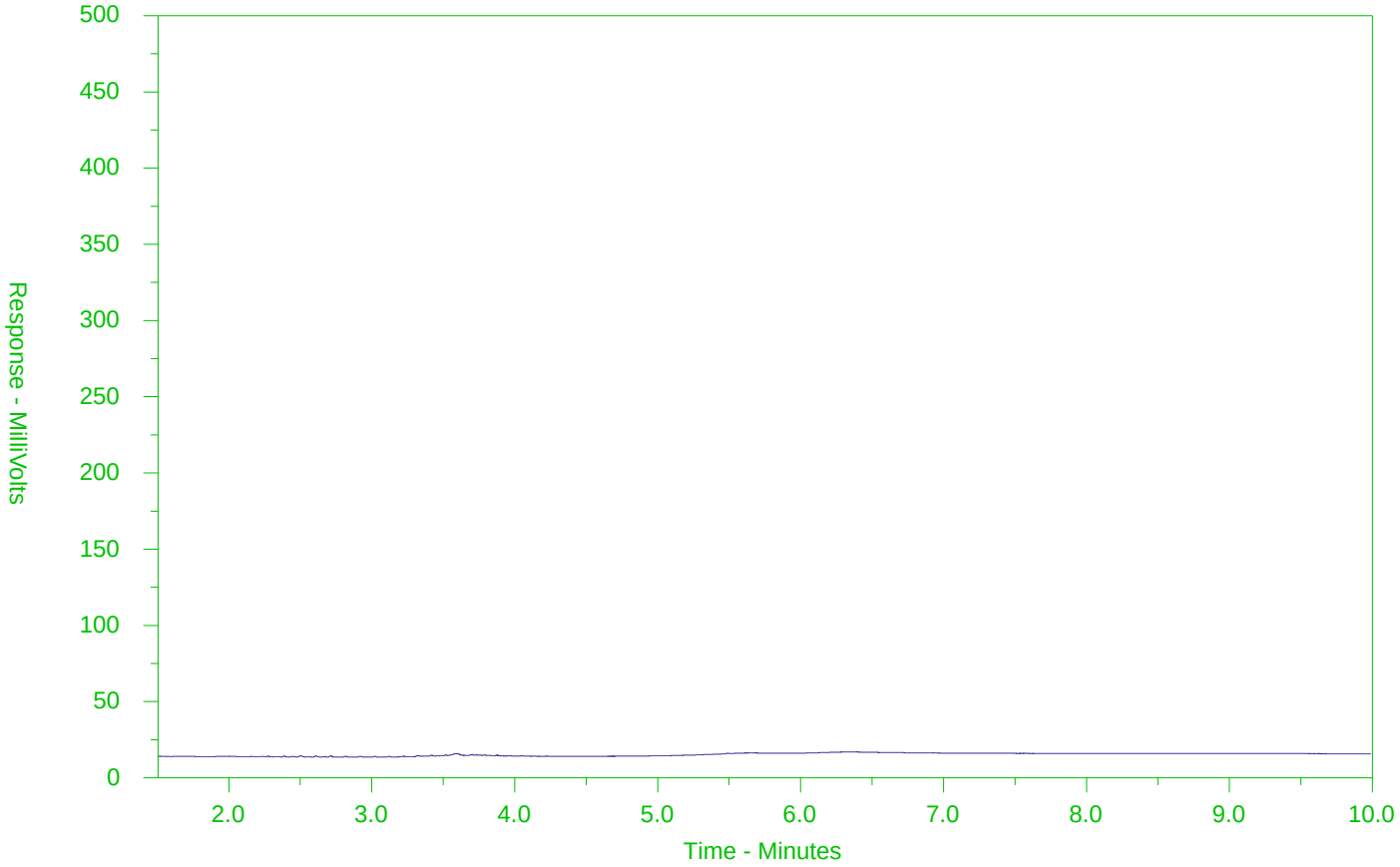
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-5
Client Sample ID: BH315-22 SS4 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.

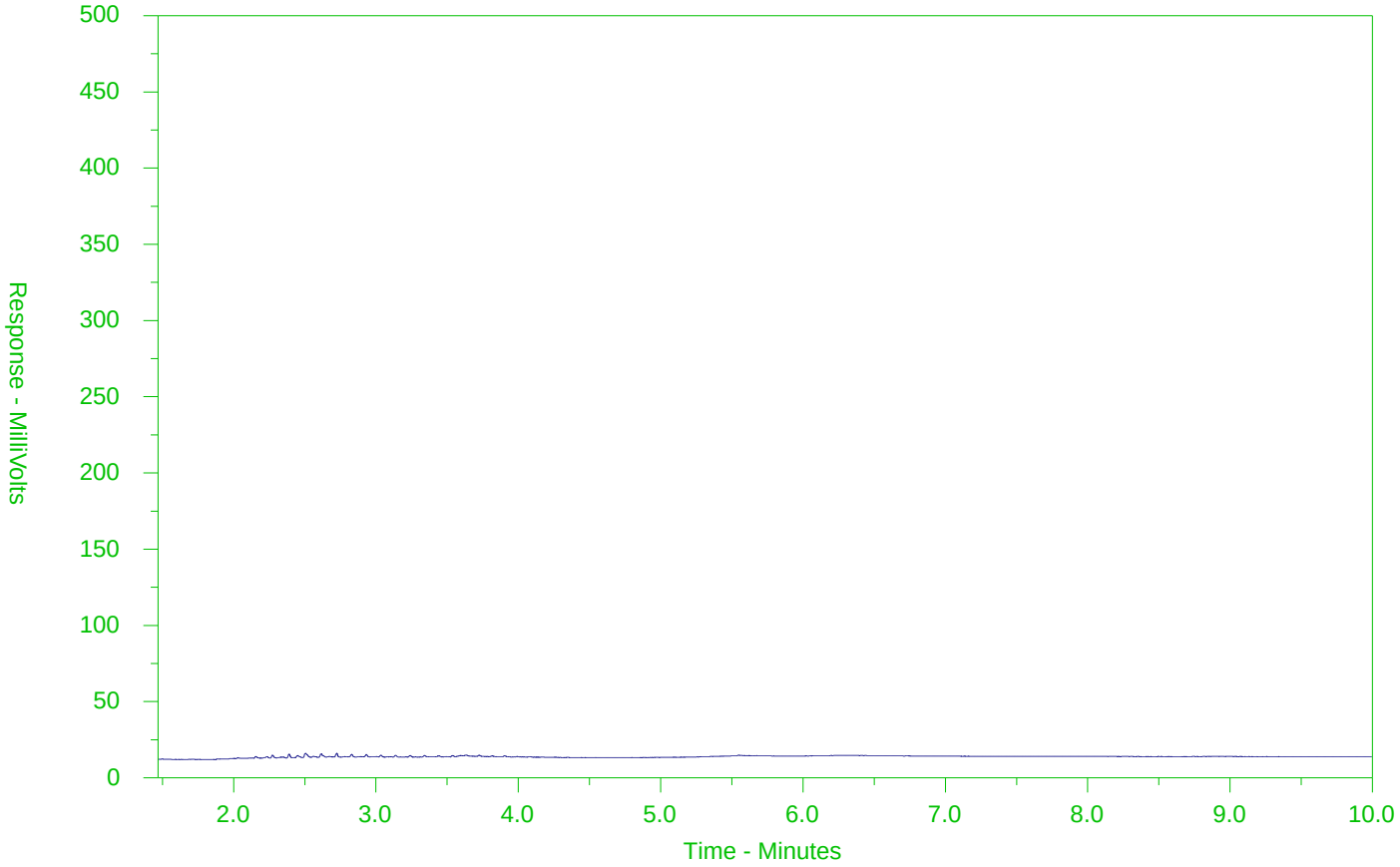
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-7
Client Sample ID: BH315-22 SS6 13-17



←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.

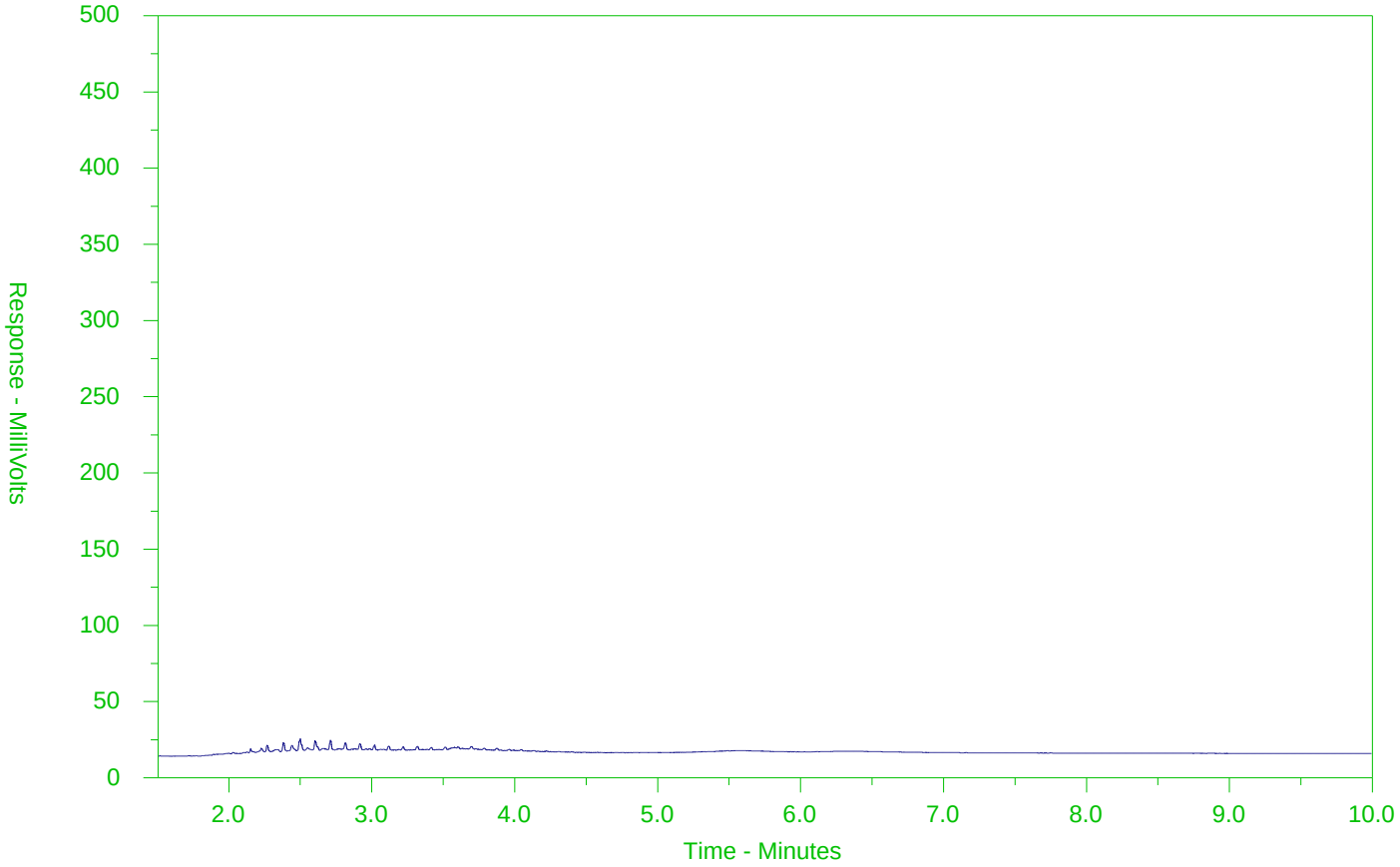
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-8
Client Sample ID: BH315-22 SS7 20-22



←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.

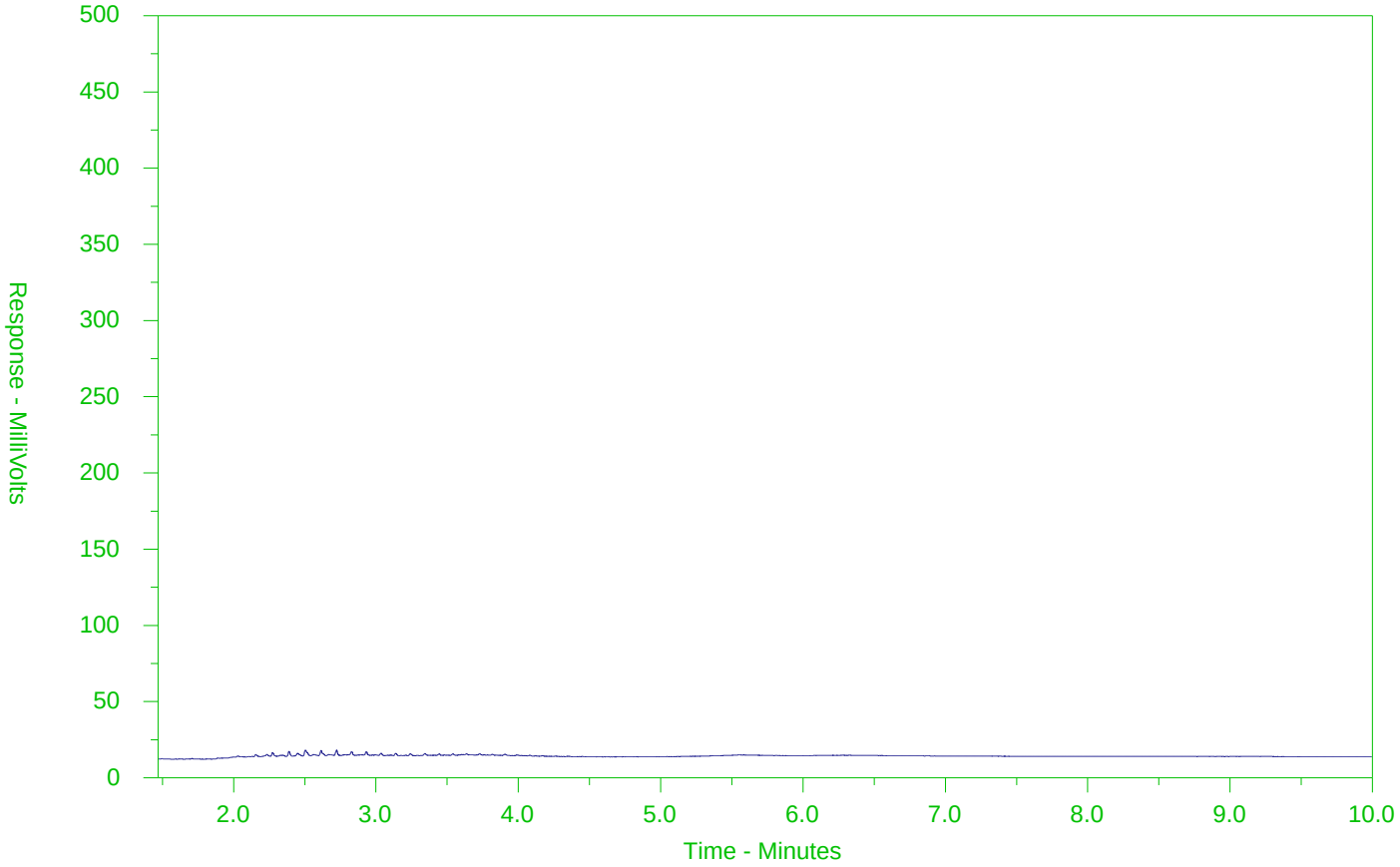
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-11
Client Sample ID: BH315-22 SS10 35-37



←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.

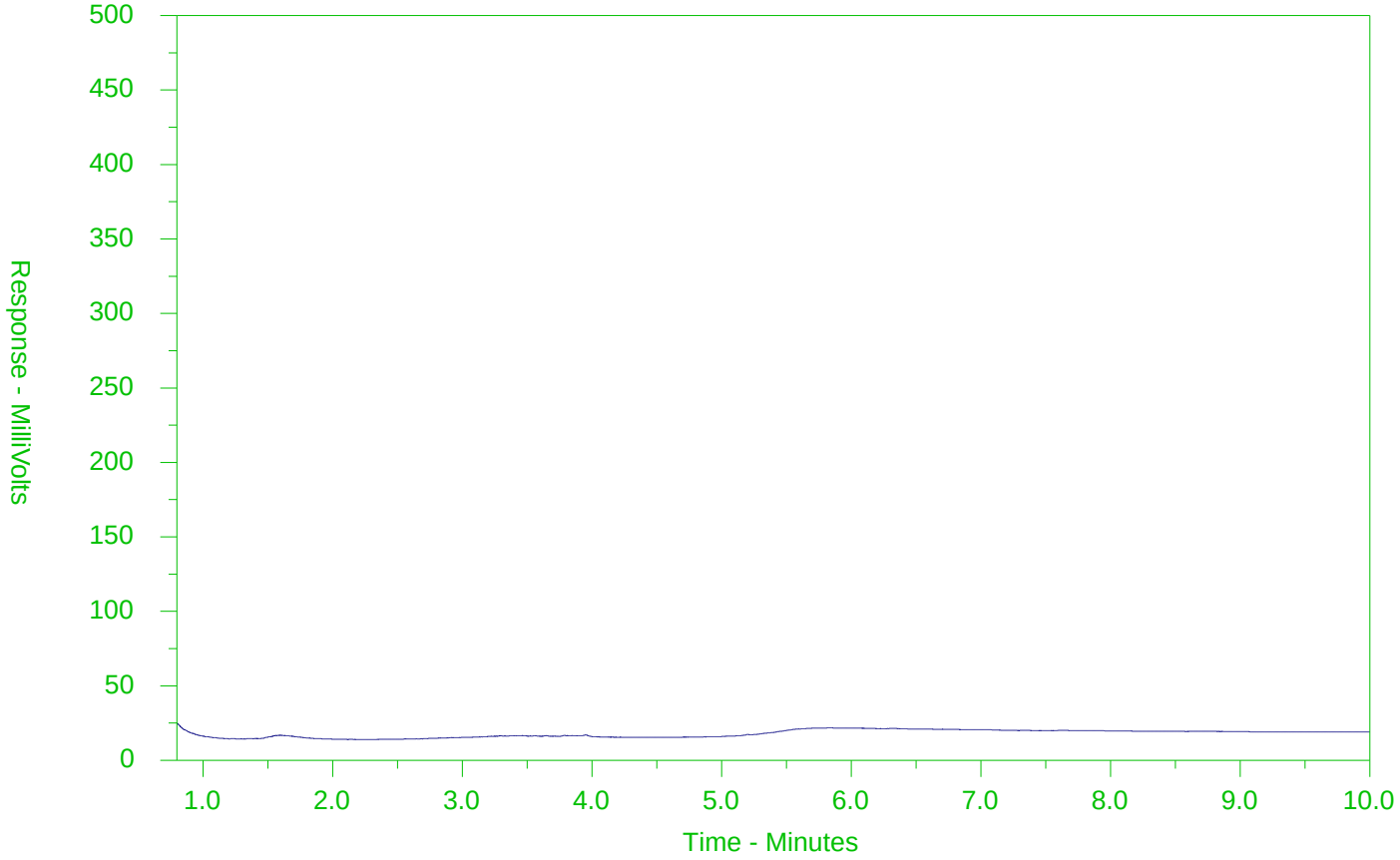
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-13
Client Sample ID: BH317-22 SS1 0-2



←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.

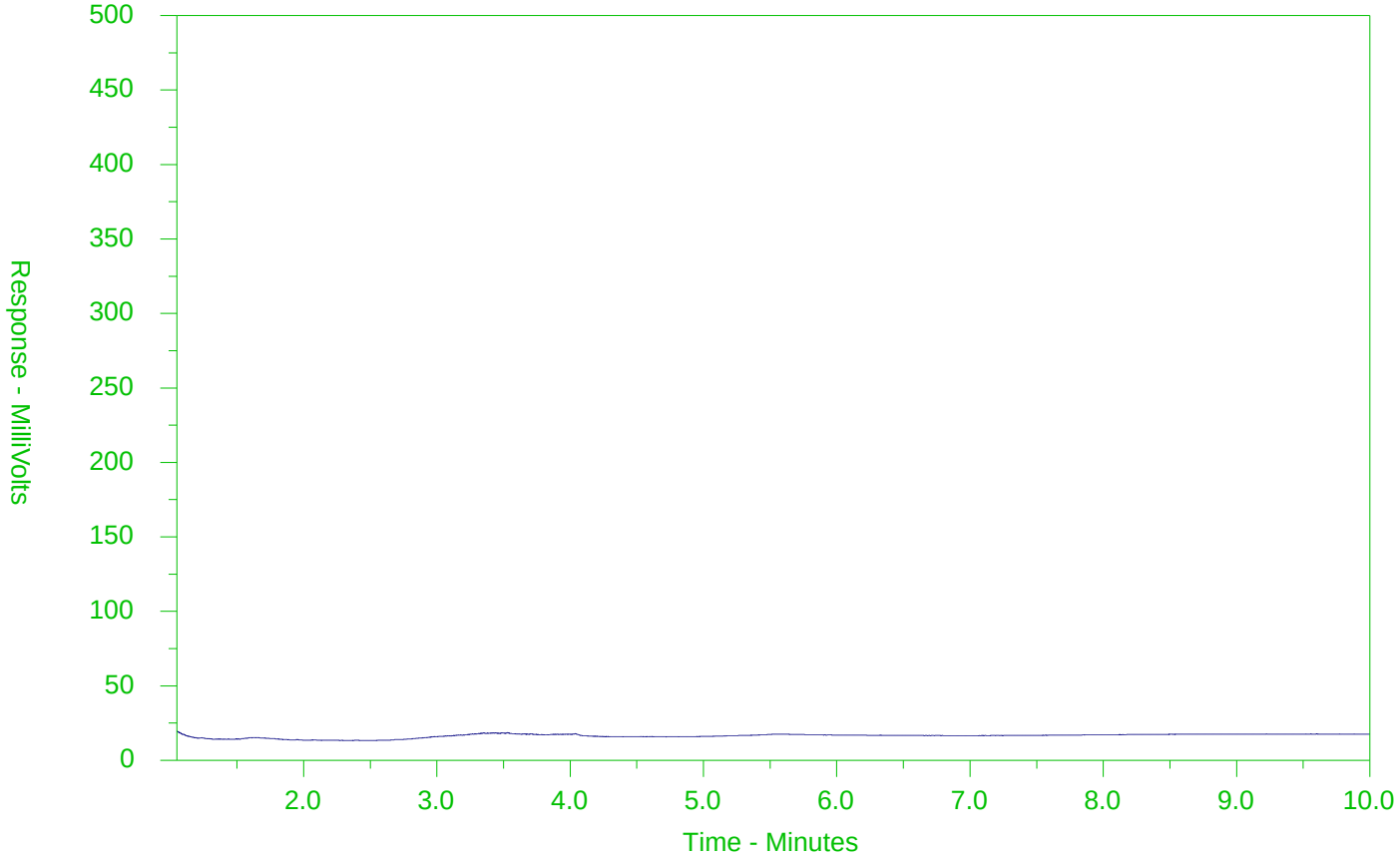
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-14
Client Sample ID: BH317-22 SS101 0-2



←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.

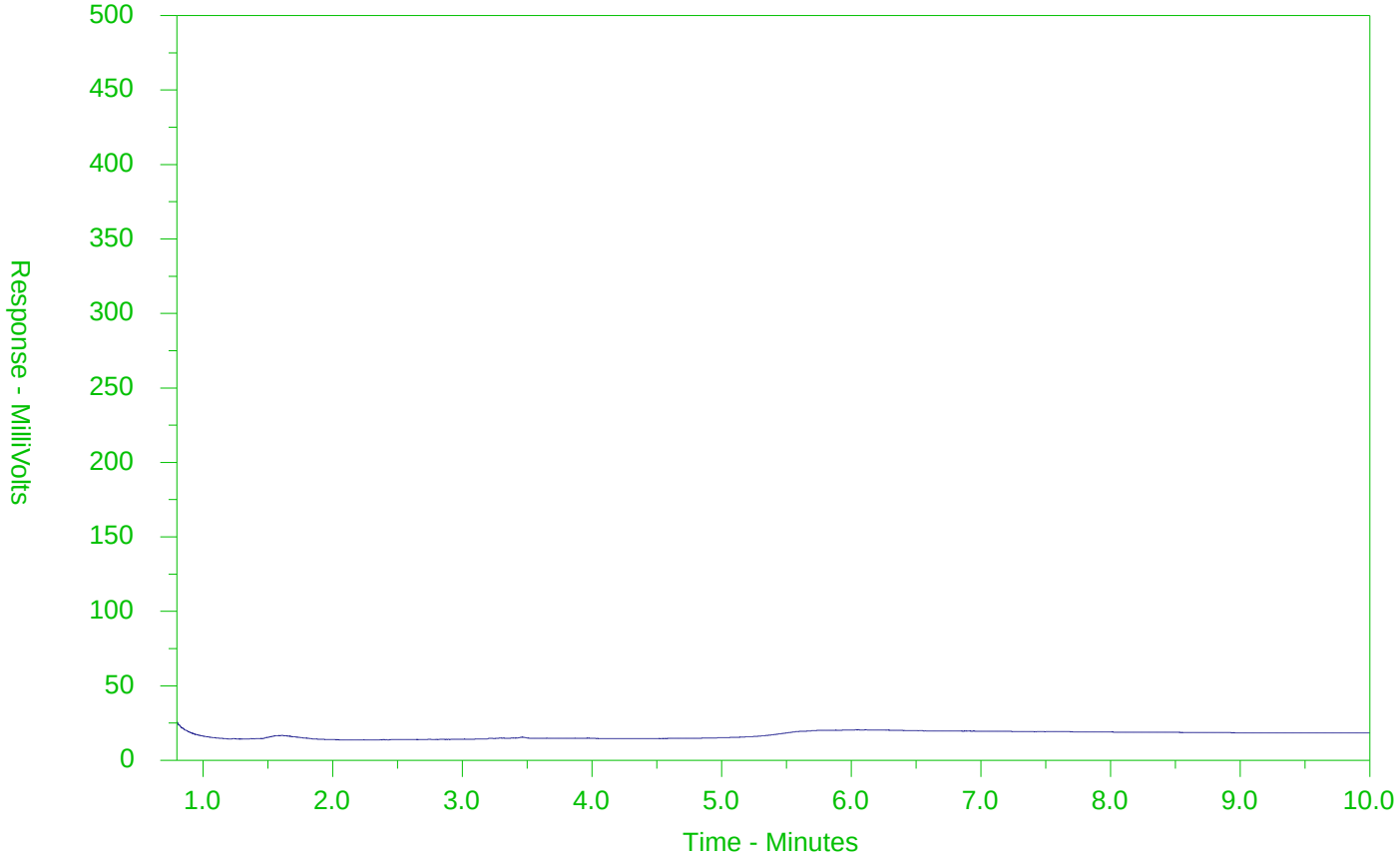
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-15
Client Sample ID: BH317-22 SS2 2.5-4.5



←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.

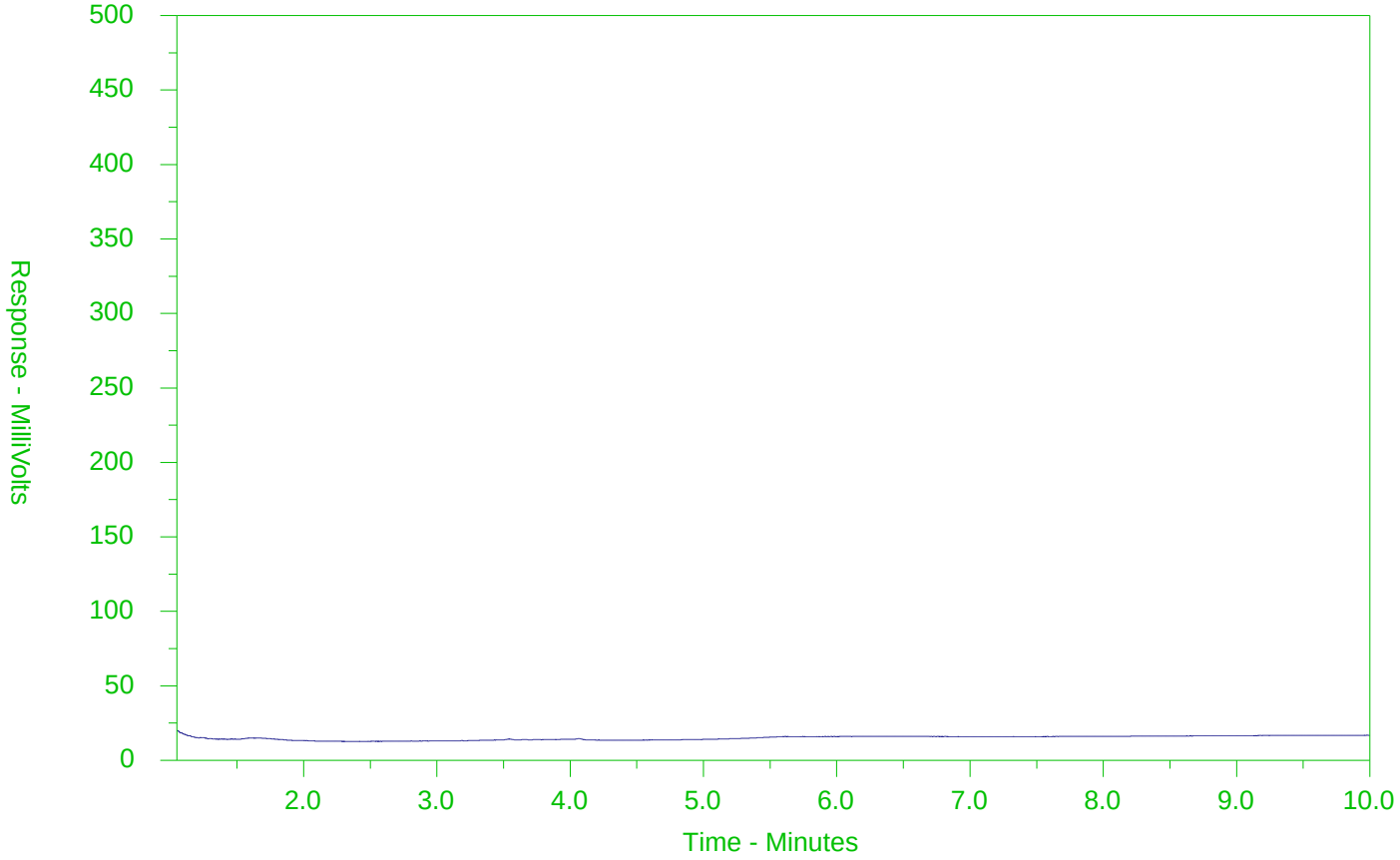
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-16
Client Sample ID: BH317-22 SS3 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.

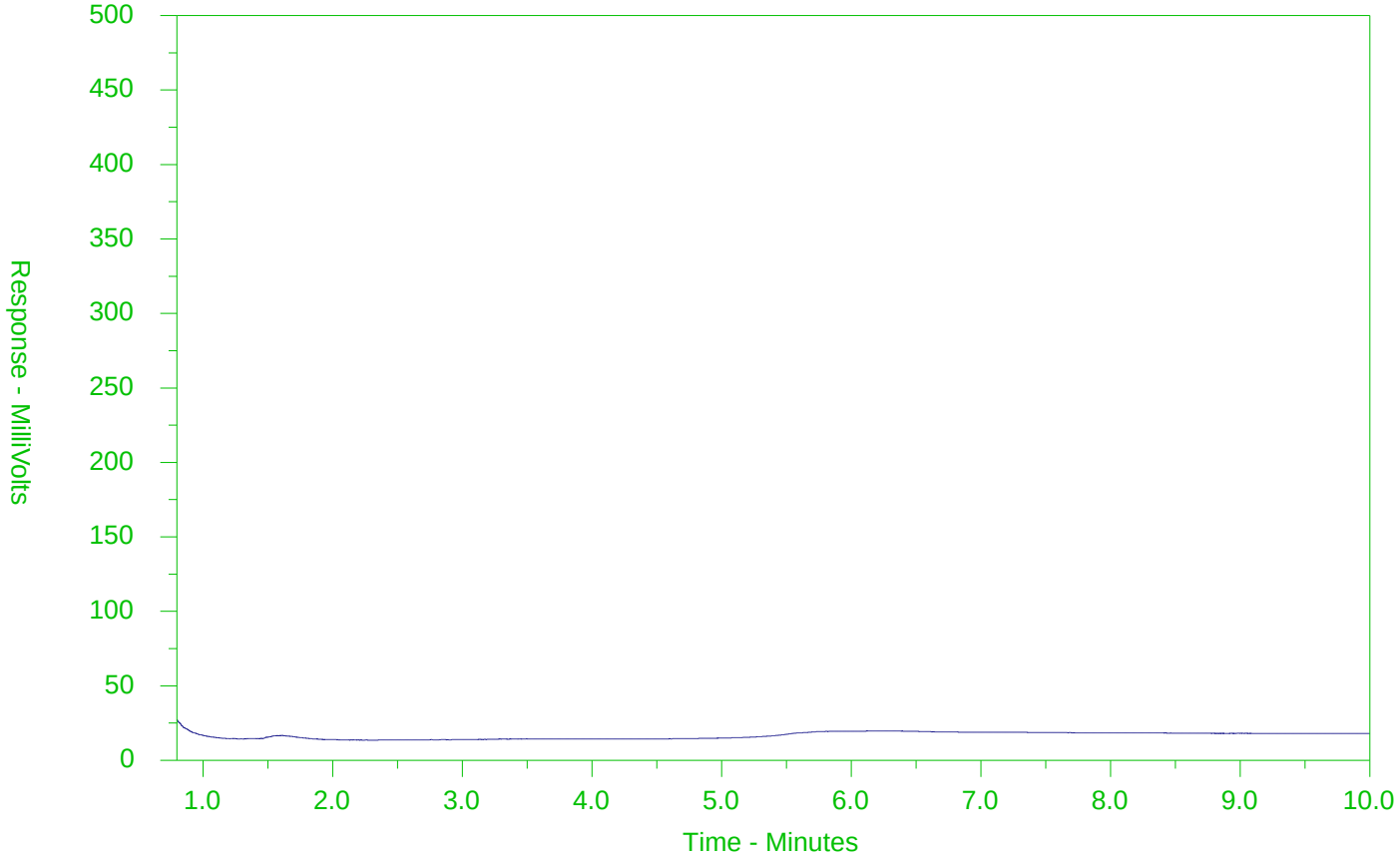
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-18
Client Sample ID: BH317-22 SS5 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.

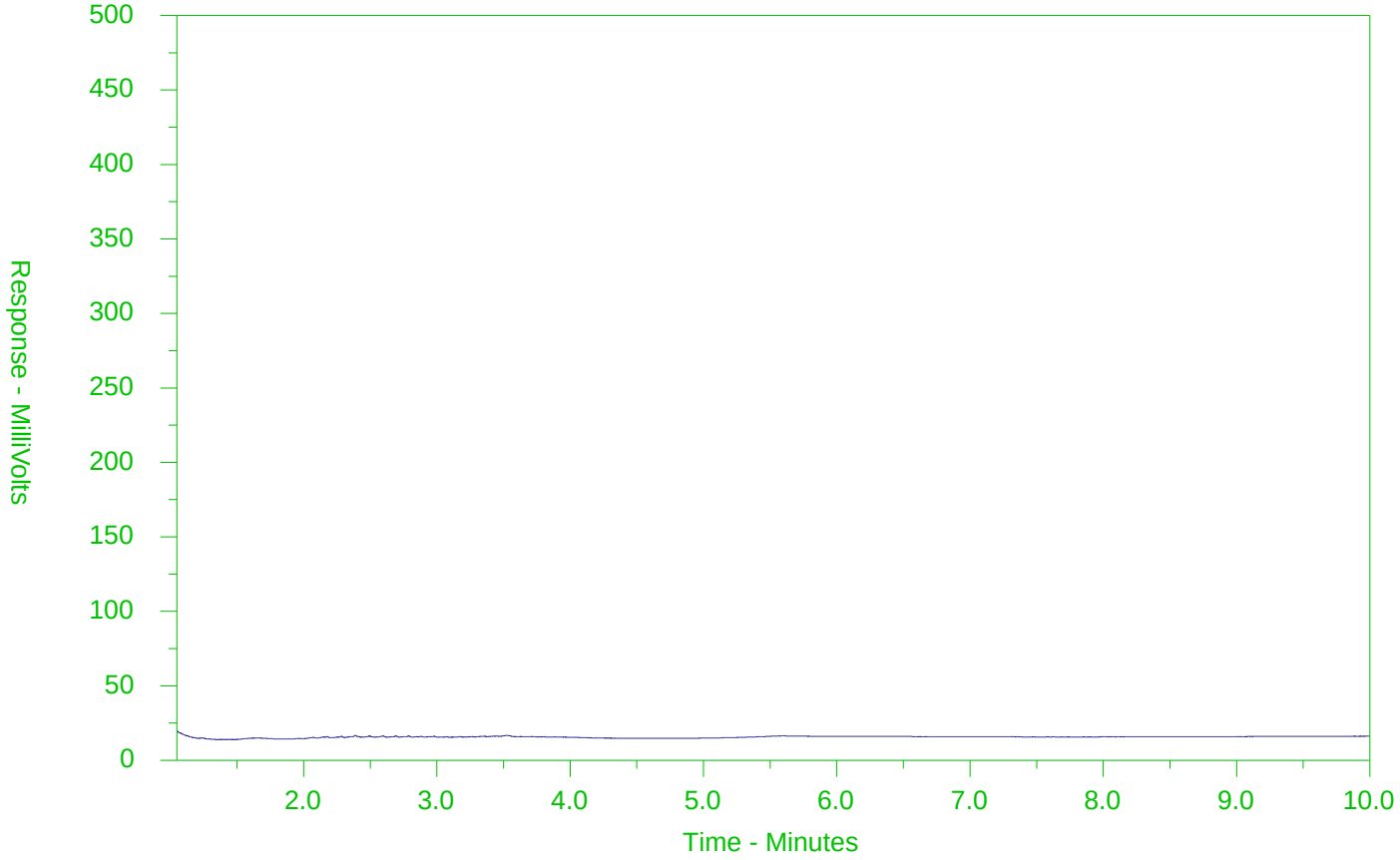
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-19
Client Sample ID: BH317-22 SS6 15-17



←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.

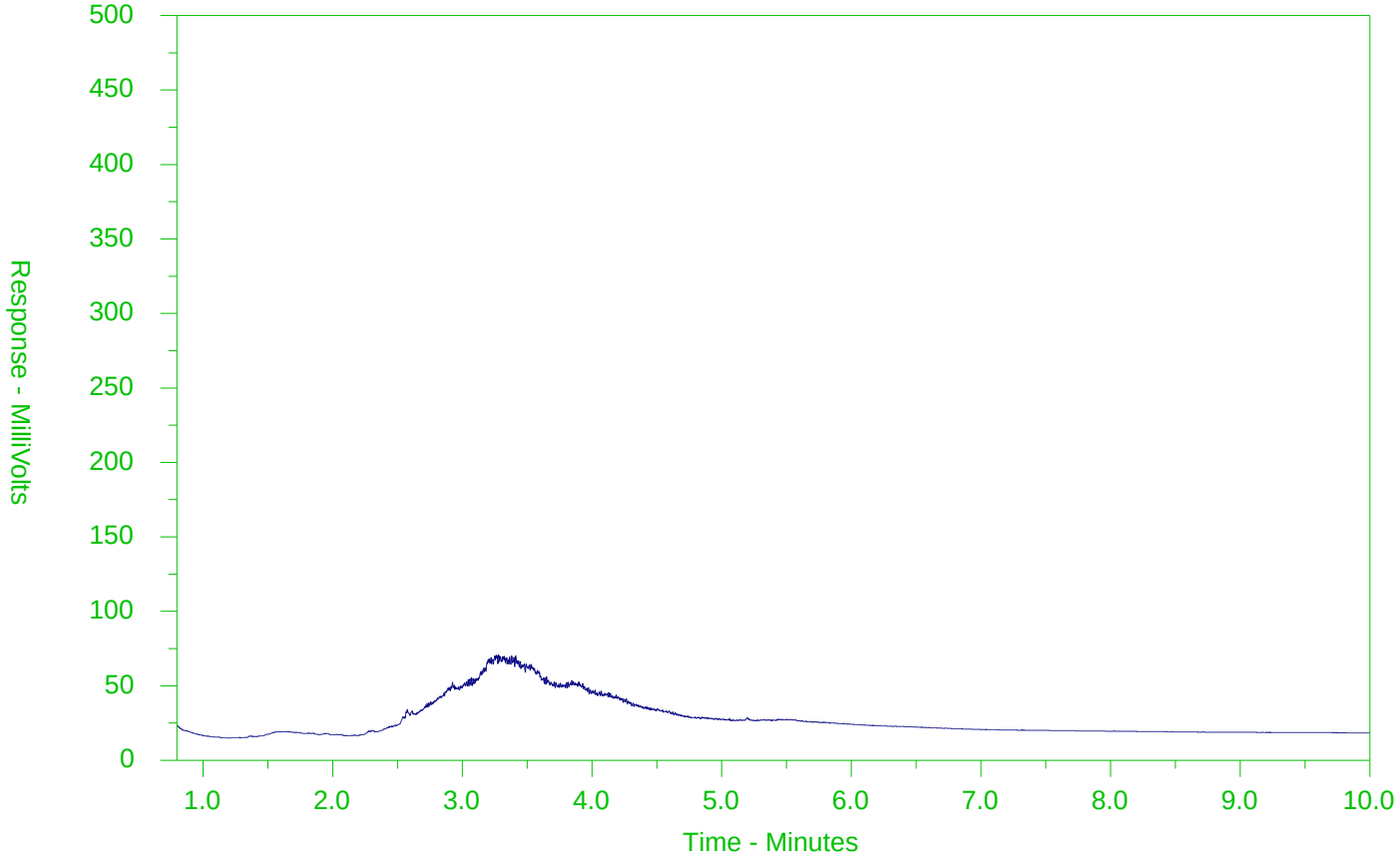
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-20
Client Sample ID: BH318-22 SS1 0-2



←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.

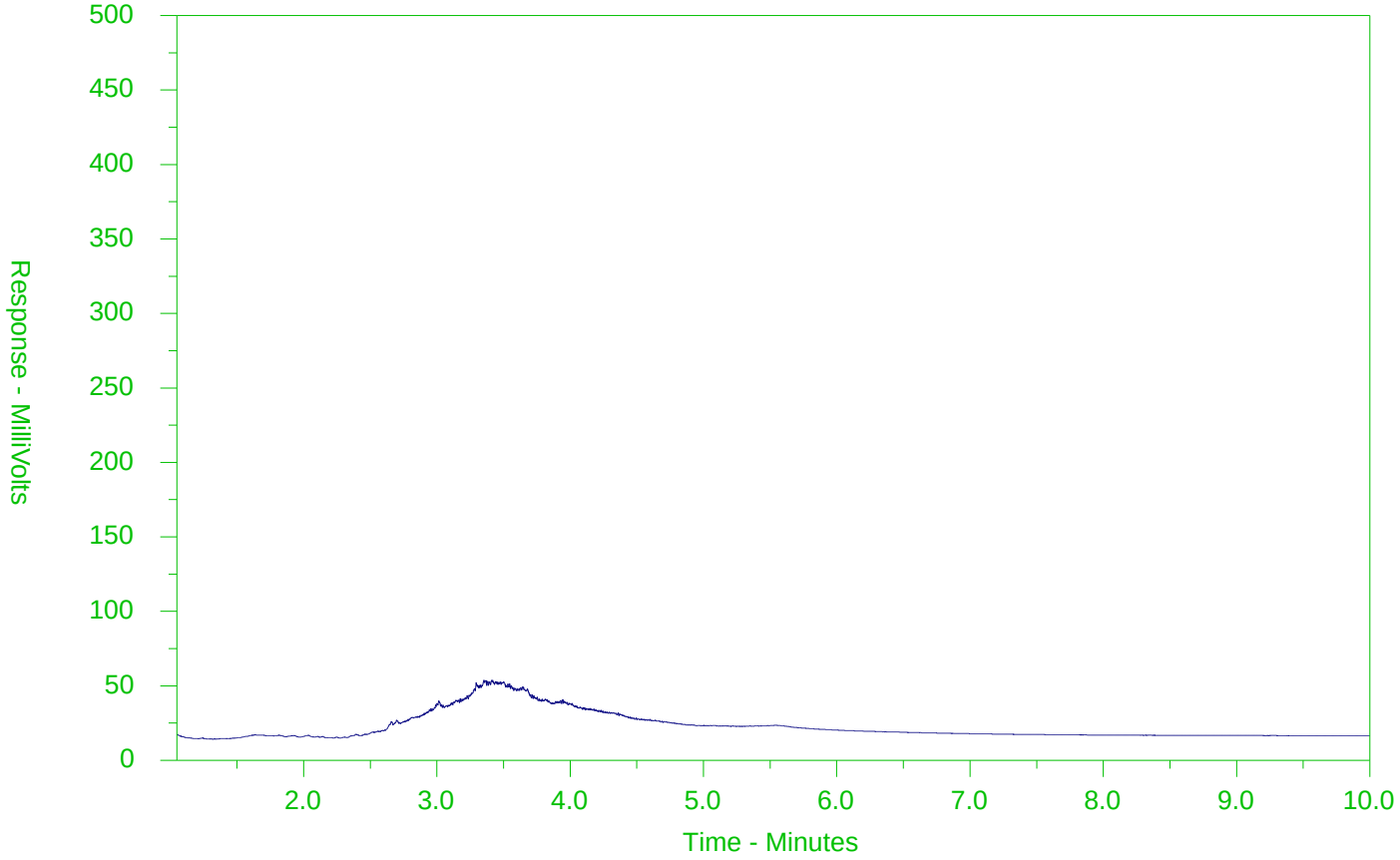
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-21
Client Sample ID: BH318-22 SS101 0-2



←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.

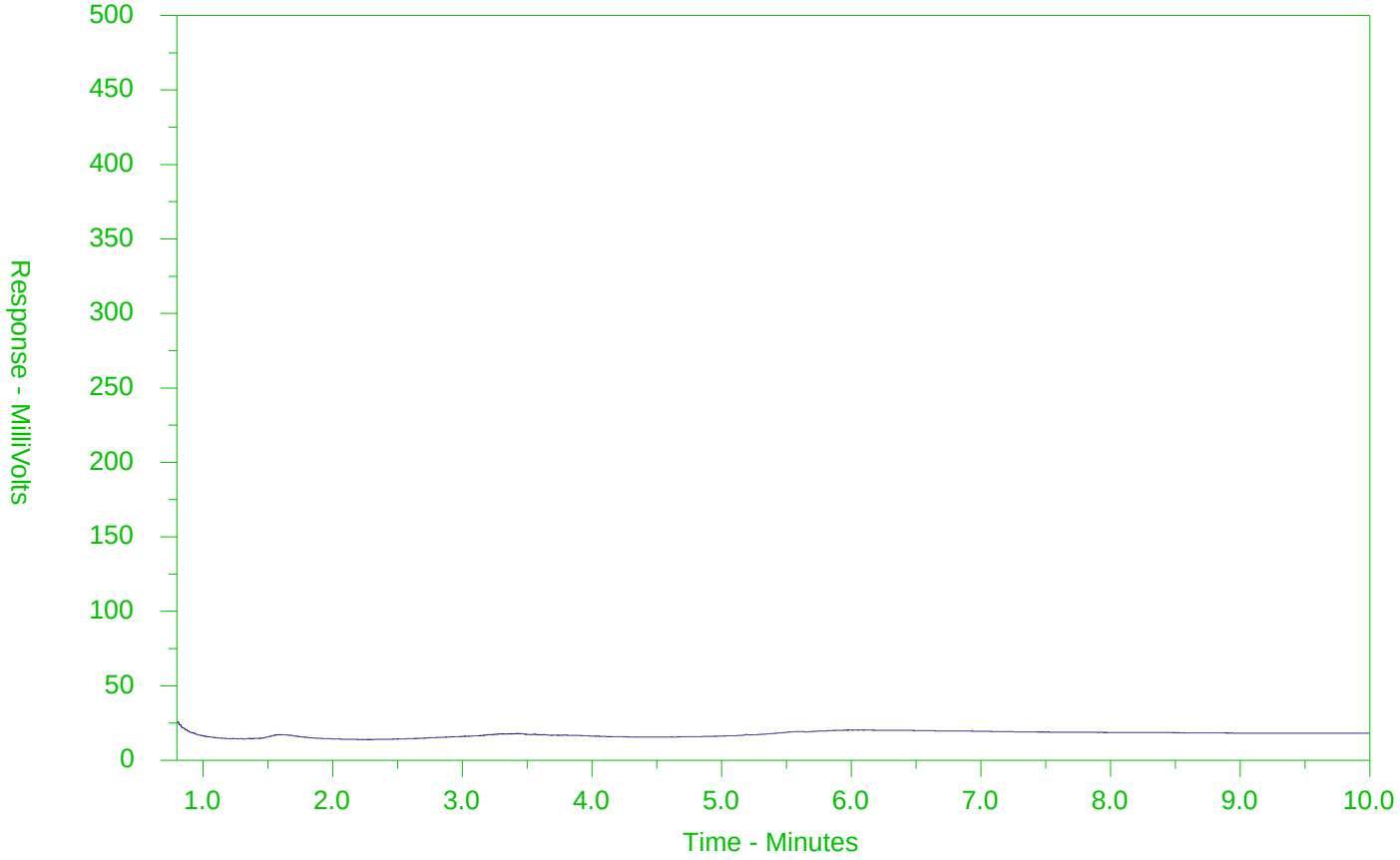
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-22
Client Sample ID: BH318-22 SS2 2.5-4.5



←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.

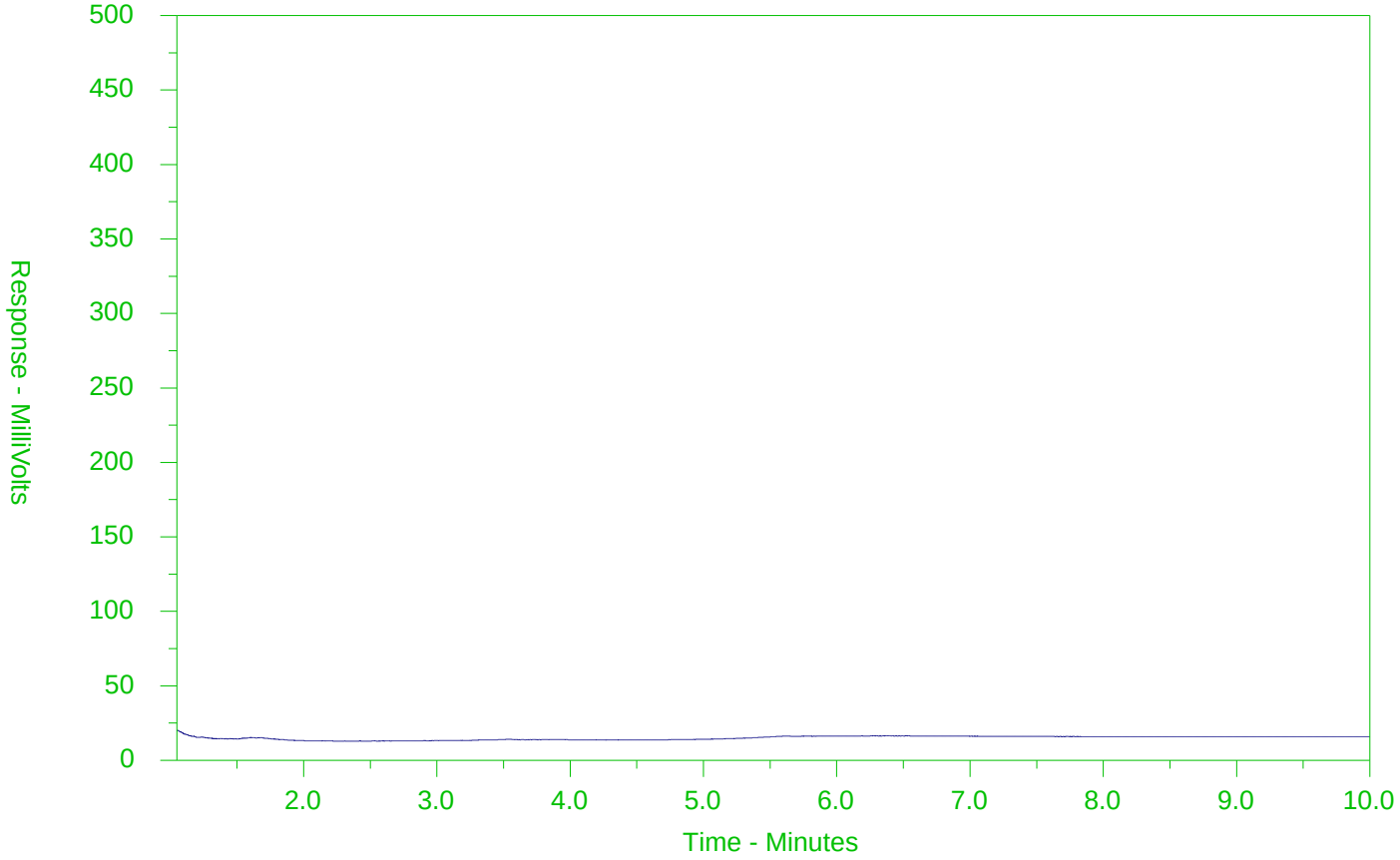
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-24
Client Sample ID: BH318-22 SS4 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.

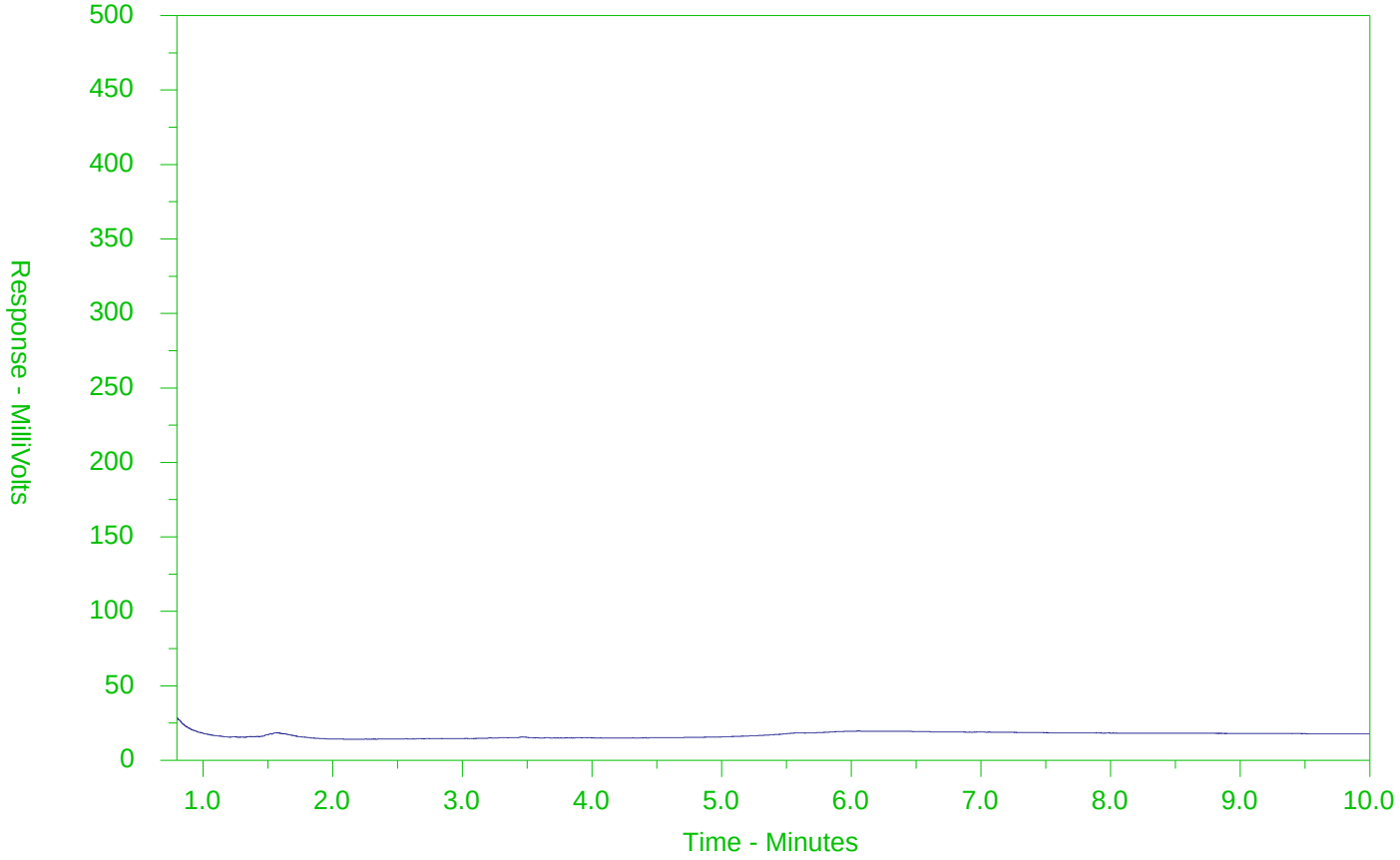
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-25
Client Sample ID: BH318-22 SS5 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.

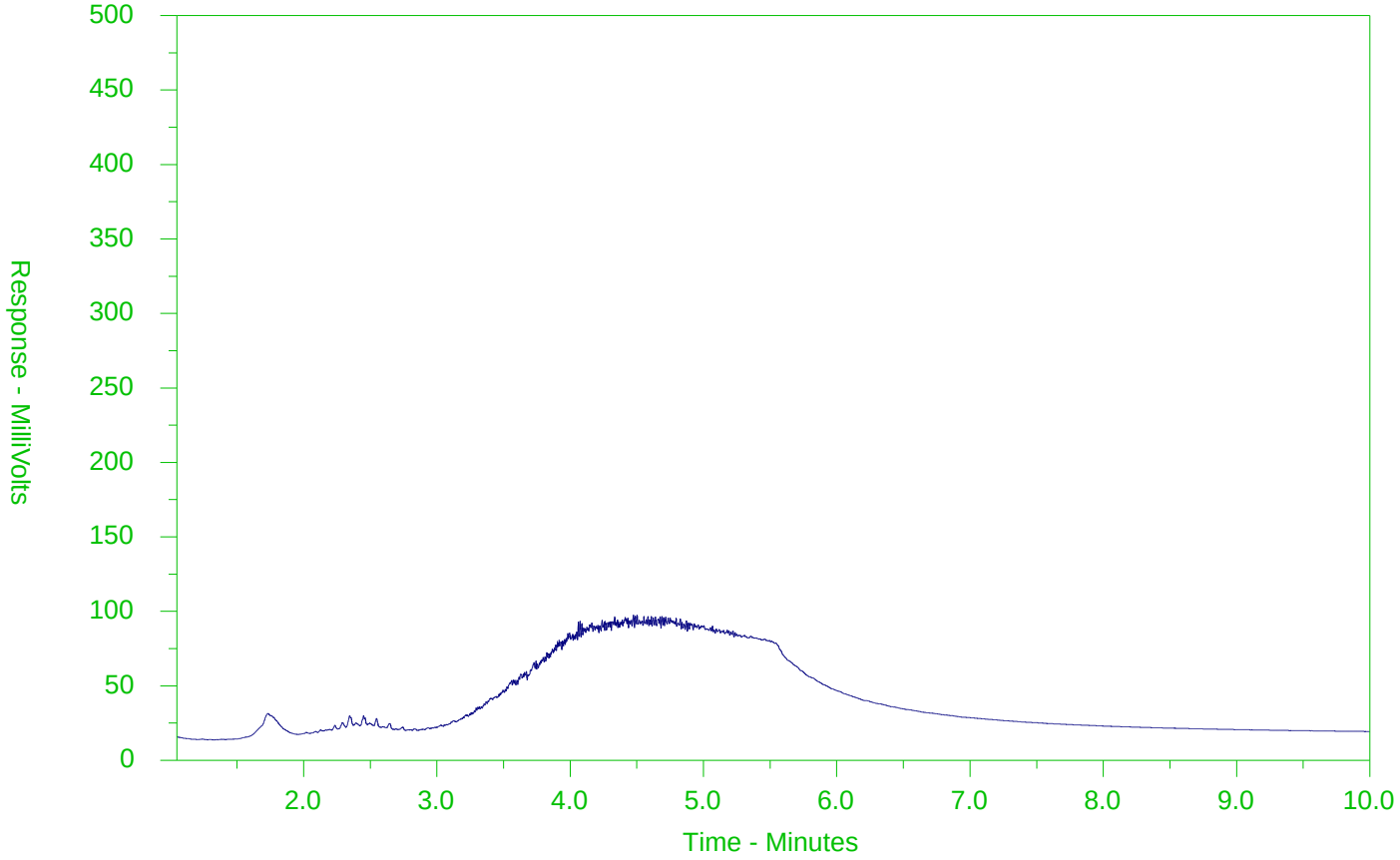
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-27
Client Sample ID: BH301-22 SS1 0-2



←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.

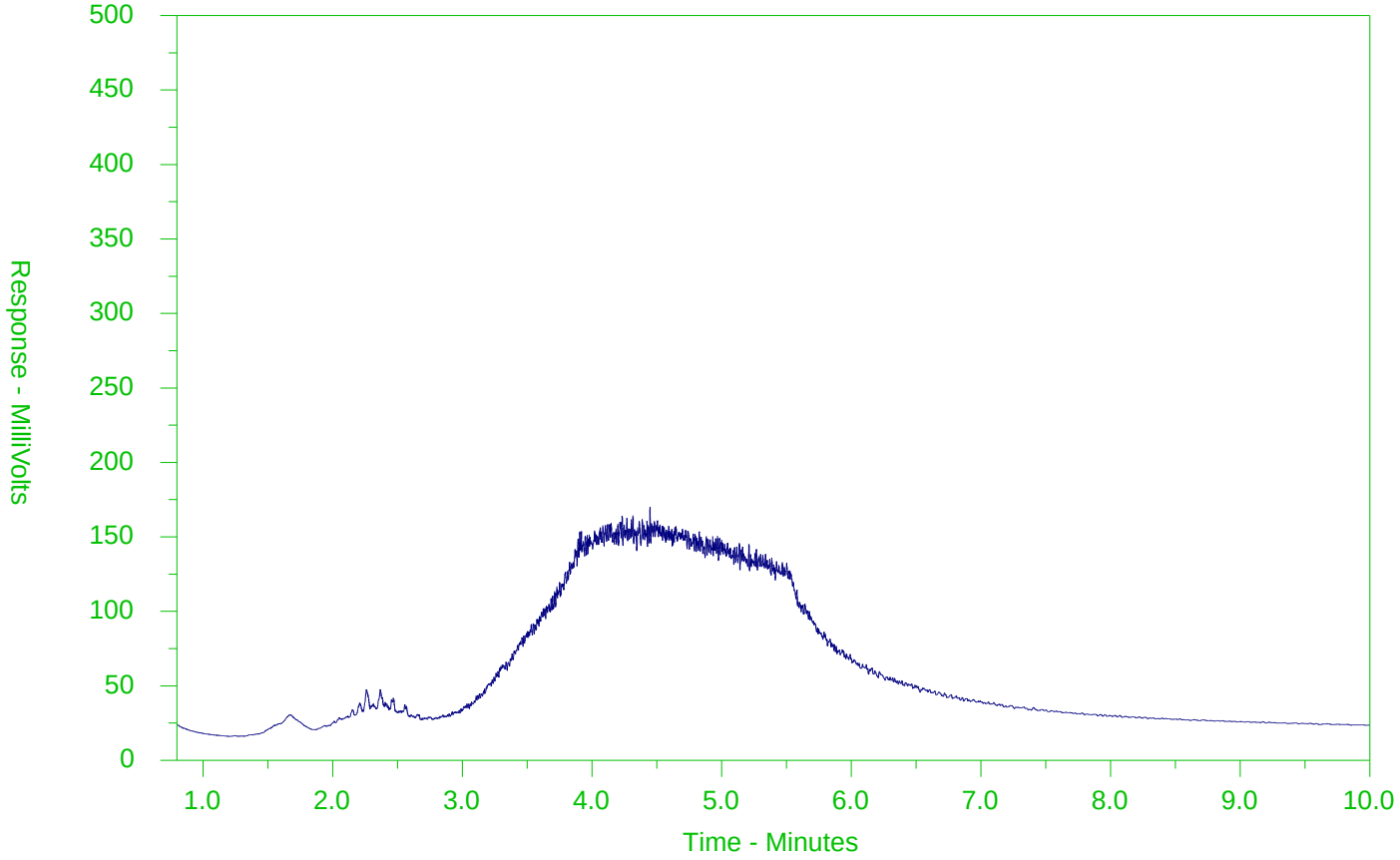
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-28
Client Sample ID: BH301-22 SS101 0-2



←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.

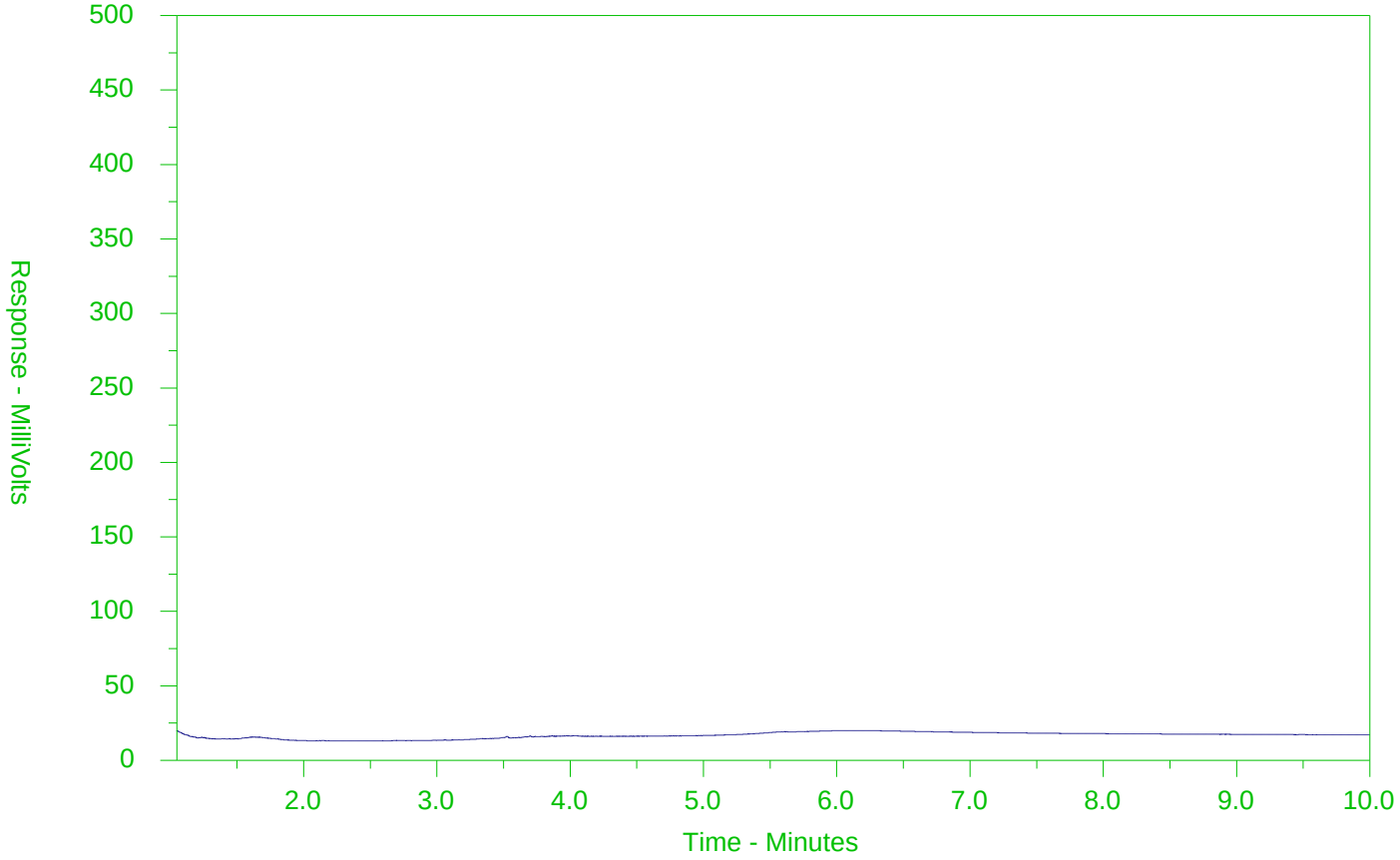
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-29
Client Sample ID: BH301-22 SS2 2.5-4.5



←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.

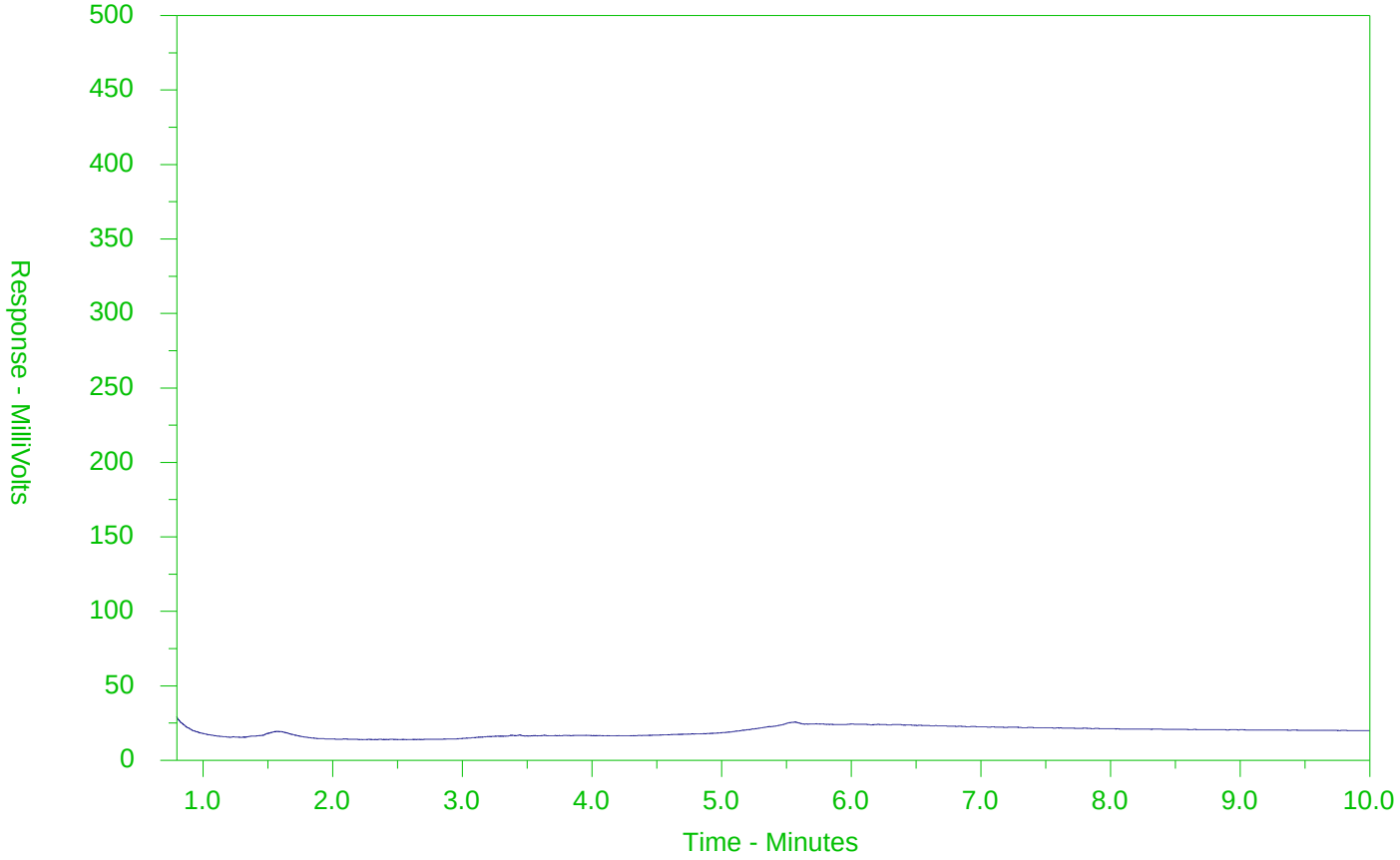
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-30
Client Sample ID: BH301-22 SS3 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.

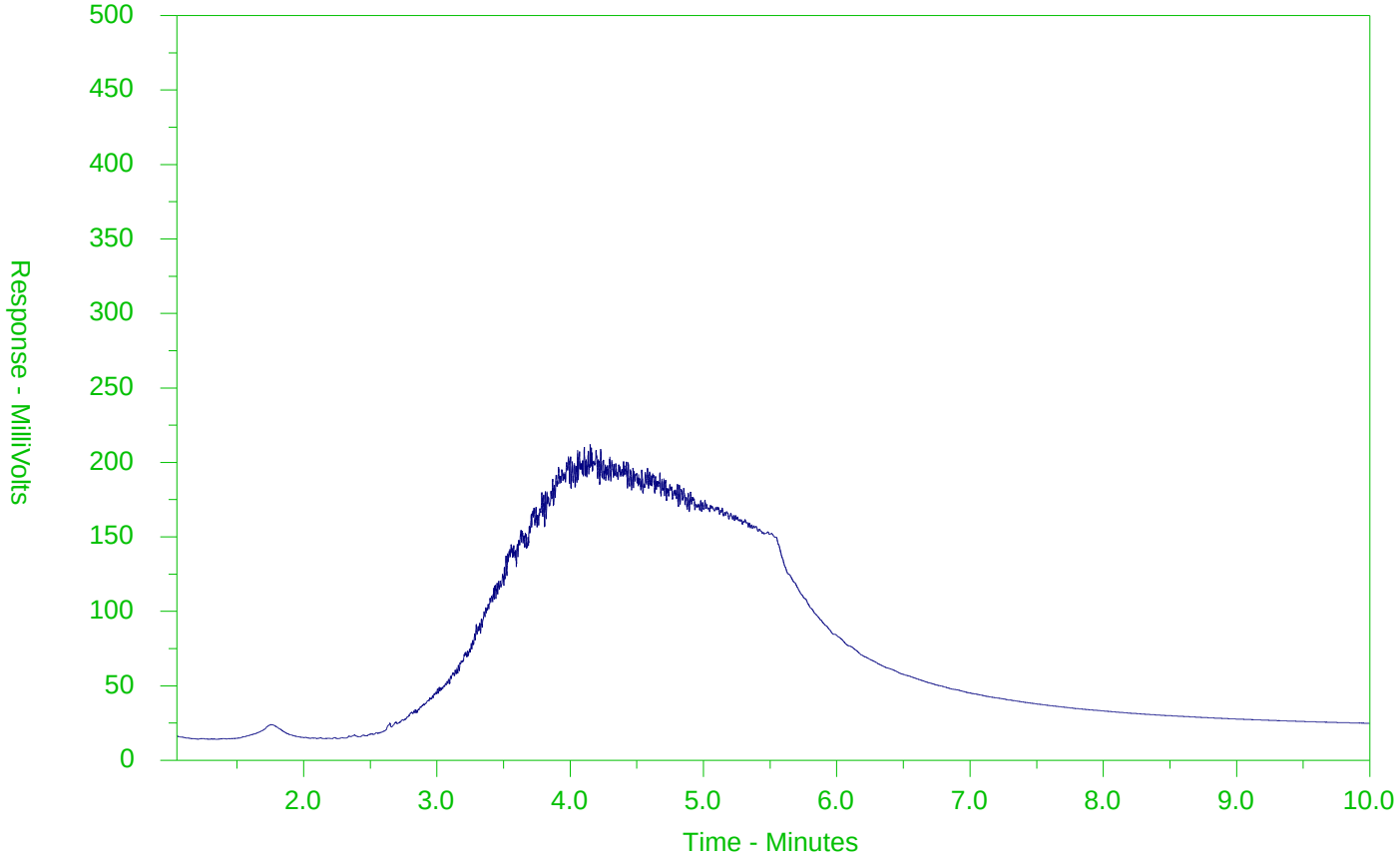
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-36
Client Sample ID: MW302-22 SS1 0-2



←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.

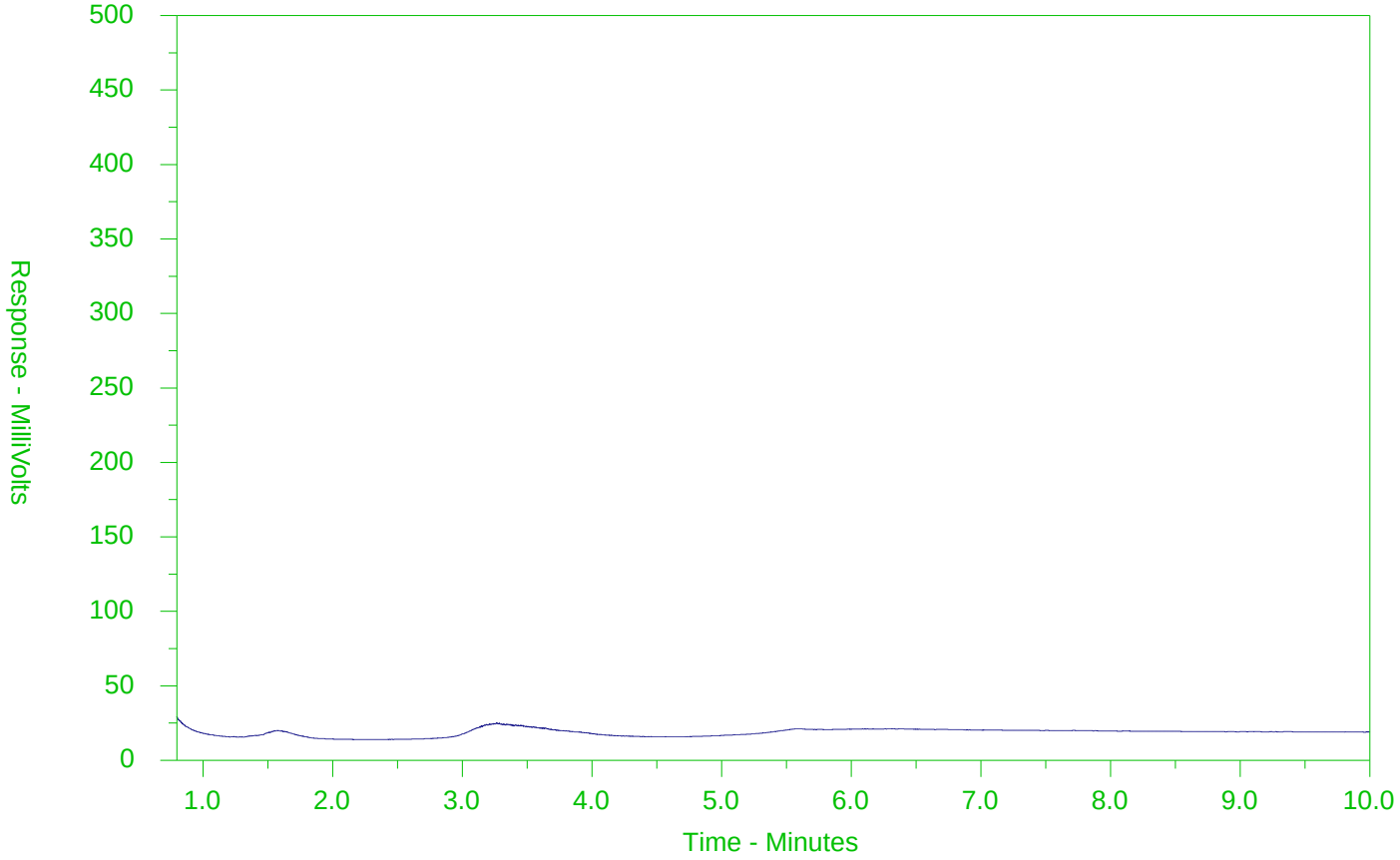
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-39
Client Sample ID: MW302-22 SS3 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.

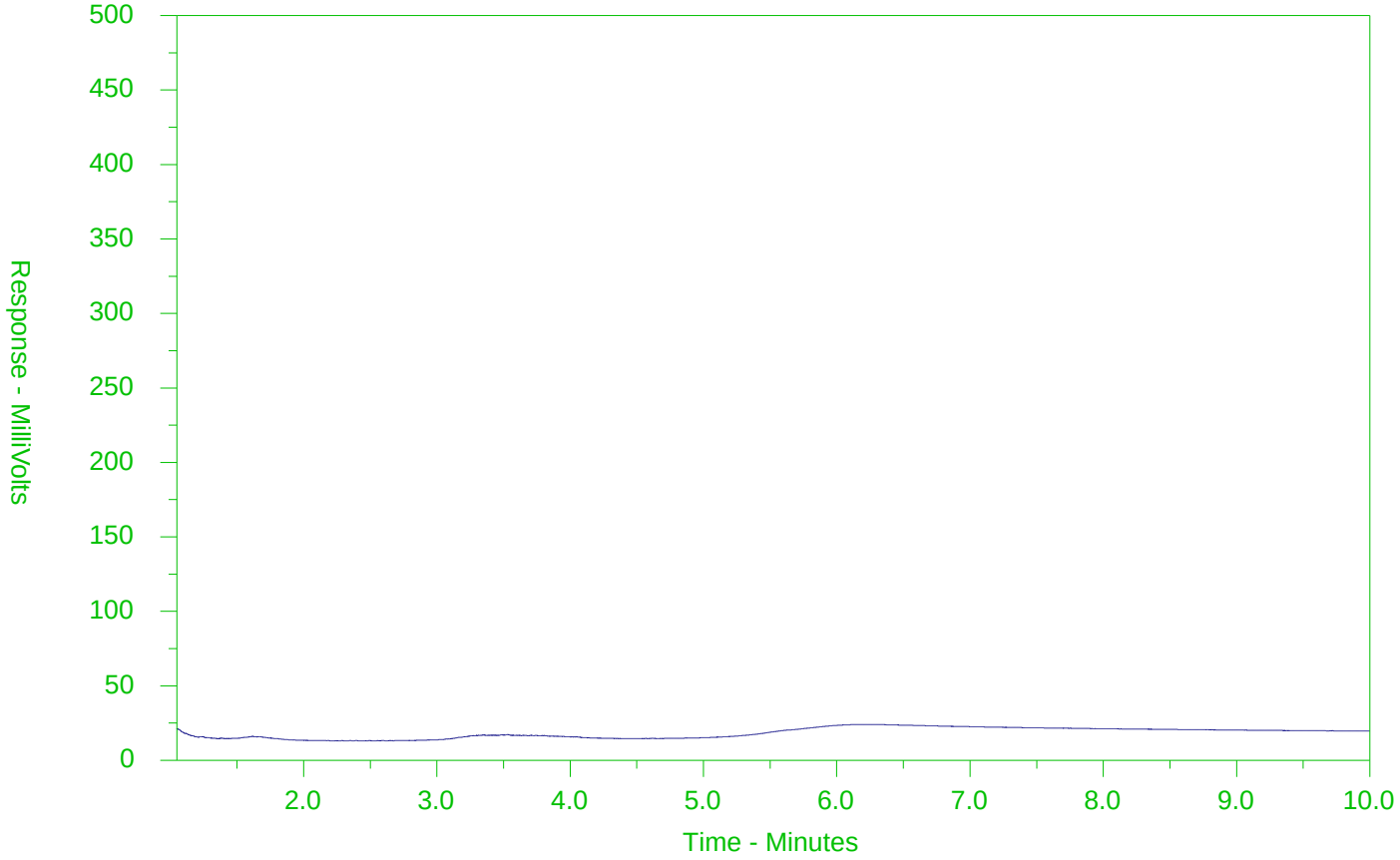
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-40
Client Sample ID: MW302-22 SS4 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.

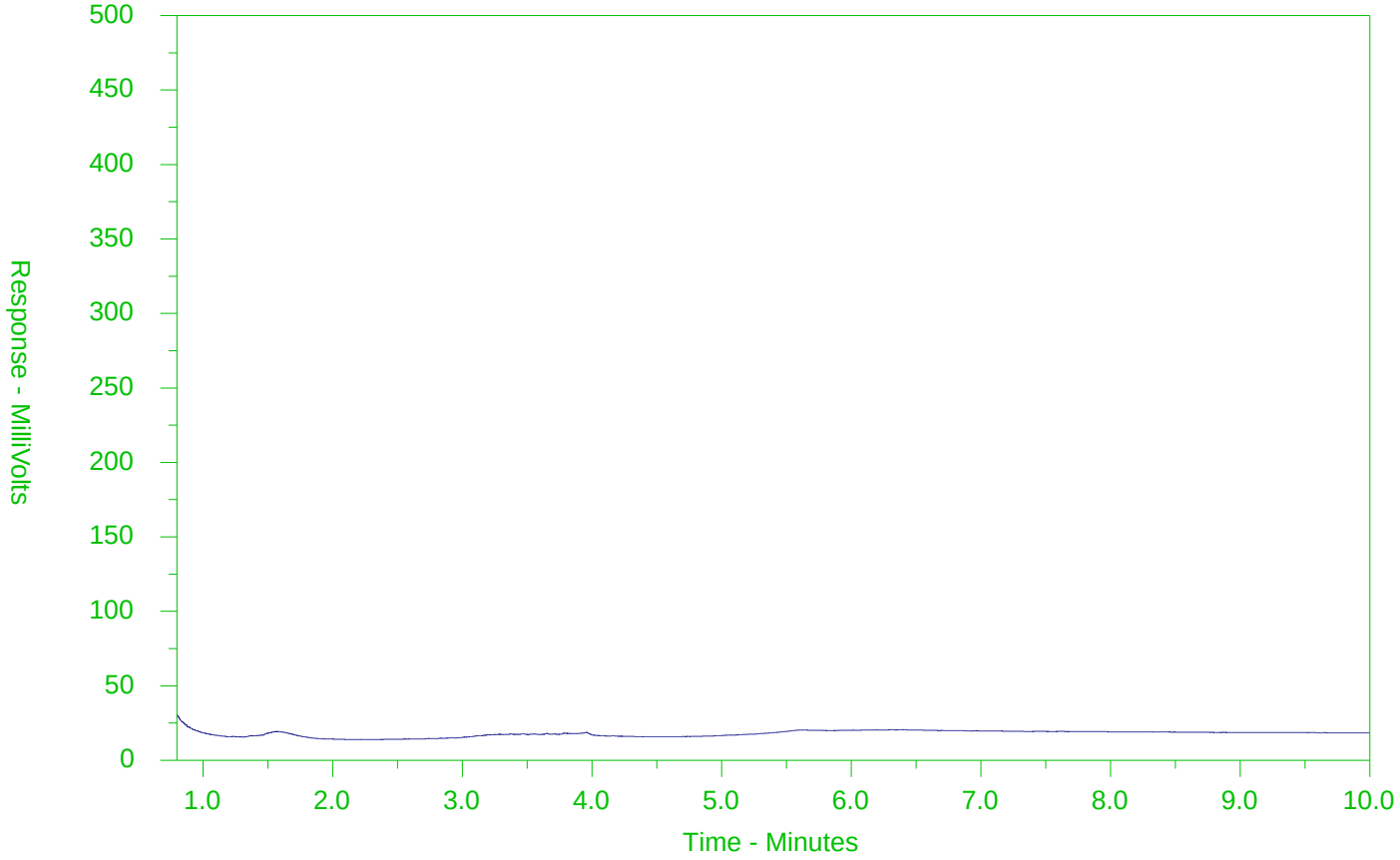
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2680005-41
Client Sample ID: MW302-22 SS5 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.

Chain of Custody (COC) / Analyt Request Form

Canada Toll Free: 1 800 668 9878

L2680005-COFC

COC Number: 17 -

Page 1 of 4 AP

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants Inc.
Contact:	Jen Lambke / Spencer Buck
Phone:	519-502-3268 / 289-795-7467 (cells)
	Company address below will appear on the final report
Street:	520 Bingeman Centre Drive
City/Province:	Kitchener
Postal Code:	

Report F

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 jlambke@mte85.com

Email 2 sbuck@mte85.com

Email 3

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: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax accounting@mte85.com

Email 2

Project Information

ALS Account # / Quote #:	Q85986
Job #:	46372-301
PO / AFE:	Elizabeth & George
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): L2680005-AP

ALS Contact: Emily Hansen

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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	BH315-22 SS1 0-2'	13/01/22	10:20	Soil	4									x	
	" SS101 0-2'		10:40		3									x	
	" SS2 2.5-4.5'		11:00		3									x	
	" SS3 5-7'		11:15		3									x	
	" SS4 7.5-9.5'		11:30		3									x	
	" SS5 10-12'		11:45		3									x	
	" SS6 15-17'		12:00		3									x	
	" SS7 20-22'		12:20		3									x	
	" SS8 25-27'		12:40		3									x	
	" SS9 30-32		13:00		3									x	
	" SS10 35-37'		13:15		3									x	
	" AS		13:30		3									x	

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)

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			
				4.1	4.0		

SHIPMENT RELEASE (client use)

Released by: Harman Sandhu Date: 13/01/22 Time: 22:00

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by: AP Date: 20 JAN 22 Time: 8:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 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

L2680005-COFC

COC Number: 17 - e

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants Inc.
Contact:	Jen Lambke / Spencer Buck
Phone:	519-502-3268 / 289-795-7467 (cells)
	Company address below will appear on the final report
Street:	520 Bingeman Centre Drive
City/Province:	Kitchener
Postal Code:	

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 jlambke@mte85.com
Email 2 sbuck@mte85.com
Email 3

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: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax accounting@mte85.com
Email 2

Project Information

ALS Account # / Quote #: Q85986
Job #: 46372-301
PO / AFE: Elizabeth & George
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: Emily Hansen 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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	BH317-~~[illegible]~~22, ~~[illegible]~~1, 0-2'	12/01/22	13:45	Soil	4									x	
	" SS101 0-2'		14:00		3									x	
	" SS2 2.5-4.5'		14:15		3									x	
	" SS3 5-7'		14:30		3									x	
	" SS4 7.5-9.5'		14:45		3									x	
	" SS5 10-12'		15:00		3									x	
	" SS6 15-17'		15:10		3									x	
	BH312-~~[illegible]~~22, SS1 0-2'		15:20		4									x	
	" SS101 0-2'		15:30		3									x	
	" SS2 2.5-4.5'		15:40		3									x	
	" SS3 5-7'		15:50		3									x	
	" SS4 7.5-9.5'		16:00		3									x	

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)

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			
				4.1	4.0		

SHIPMENT RELEASE (client use)

Released by: Harmansandhu Date: 12/01/22 Time: 17:00

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by: AP Date: 20 JAN-23 Time: 8:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY JUNE 2018 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) / Analysis Request Form

L2680005-COFC

COC Number: 17 -

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants Inc.
Contact:	Jen Lambke / Spencer Buck
Phone:	519-502-3268 / 289-795-7467 (cells)
	Company address below will appear on the final report
Street:	520 Bingeman Centre Drive
City/Province:	Kitchener
Postal Code:	

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	lambke@mte85.com
Email 2	sbuck@mte85.com
Email 3	

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)		EMERGENCY	
	4 day [P4-20%] ☐		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: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Invoice Distribution	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	accounting@mte85.com
Email 2	

Project Information	
ALS Account # / Quote #:	Q85986
Job #:	46372-301
PO / AFE:	Elizabeth & George
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: Emily Hansen

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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	BH318-22 SS5 10-12'	18/01/22	16:00	Soil	3									x	
	" SS6 15-17'	↓	16:20		3									x	
	BH301-22 SS1 0-2'	19/01/22	10:00		4									x	
	" SS101 0-2'		10:15		3									x	
	" SS2 2.5-4.5'		10:30		3									x	
	" SS3 5-7'		10:45		3									x	
	" SS4 7.5-9.5'		11:00		3									x	
	" SS5 10-12'		11:15		3									x	
	" SS6 15-17'		11:30		3									x	
	" SS7 20-22'		11:45		3									x	
	" AS		12:00		3									x	
	MW302-22 SS1 0-2'	↓	12:20	↓	4									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 ☐ NO	
Are samples for human consumption/ use? ☐ YES ☐ NO	O.Reg. 406 Independent Volume -Table 1 ESQS; - Table 3.1 RPI - Table 3.1 ICC

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			
				4.1	4.0		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: Harman Sandhu	Date: 19/01/22	Time: 22:00	Received by:	Date:	Time:	Received by:	Date: 20-JAN-22	Time: 8:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 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) / Analytic Request Form

L2680005-COFC

COC Number: 17 -

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	MTE Consultants Inc.
Contact:	Jen Lambke / Spencer Buck
Phone:	519-502-3268 / 289-795-7467 (cells)
	Company address below will appear on the final report
Street:	520 Bingeman Centre Drive
City/Province:	Kitchener
Postal Code:	

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: jlambke@mte85.com
Email 2: sbuck@mte85.com
Email 3:

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: TS / 5 business days

For tests that can not be performed according to the service level selected, you will be contacted.

Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: accounting@mte85.com
Email 2:

Project Information

ALS Account # / Quote #: Q85986
Job #: 46372-301
PO / AFE: Elizabeth & George
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: Emily Hansen 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	NUMBER OF CONTAINERS	PHC F1 to F4 / BTEX	PHC F1 to F4 / VOCs	Metals Scan	PAHs	SAR / EC	pH	OC Pesticides	PCBs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	MW 302-22 SS101 0-2'	19/01/22	12:40	soil	3									x	
	" SS2 2.5-4.5'		13:00		3									x	
	" SS3 5-7'		13:20		3									x	
	" SS4 7.5-9.5'		13:40		3									x	
	" SS5 10-12'		14:00		3									x	
	" SS6 15-17'		14:30		3									x	
	" SS7 20-22'		15:00		3									x	
	" AS		15:30		3									x	
														x	
														x	
														x	
														x	

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)

O.Reg. 406 Independent Volume
-Table 1 ESQS;
- Table 3.1 RPI
Table 3.1 ICC

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			
				4.1	4.0		

SHIPMENT RELEASE (client use)

Released by: Harman Sandhu Date: 19/01/22 Time: 17:00

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by: Date: 20 JAN 22 Time: 8:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY JUNE 2018 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**.

Your Project #: 46372-101
Your C.O.C. #: 865081-01-01

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/02/23
Report #: R7015728
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C241626
Received: 2022/02/16, 13:51

Sample Matrix: Water
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	1	N/A	2022/02/22	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	1	2022/02/18	2022/02/22	CAM SOP-00301	EPA 8270 m
1,3-Dichloropropene Sum	7	N/A	2022/02/22		EPA 8260C m
Free (WAD) Cyanide	1	N/A	2022/02/17	CAM SOP-00457	OMOE E3015 m
Dinitrotoluene Sum	1	N/A	2022/02/22	CAM SOP - 00301	EPA 8270
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2022/02/18	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	6	2022/02/19	2022/02/21	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2022/02/19	2022/02/22	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	5	N/A	2022/02/18	CAM SOP-00447	EPA 6020B m
Polychlorinated Biphenyl in Water	1	2022/02/20	2022/02/21	CAM SOP-00309	EPA 8082A m
Volatile Organic Compounds and F1 PHCs	6	N/A	2022/02/18	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds in Water	1	N/A	2022/02/19	CAM SOP-00228	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas 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 Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas 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 Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Bureau Veritas 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.

Your Project #: 46372-101
Your C.O.C. #: 865081-01-01

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/02/23
Report #: R7015728
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C241626

Received: 2022/02/16, 13:51

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 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
23 Feb 2022 14:18:19

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752

==========

Bureau Veritas 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 Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID			RWJ014		
Sampling Date			2022/02/15 15:00		
COC Number			865081-01-01		
	UNITS	**Criteria**	**MW101-19**	**RDL**	**QC Batch**
Inorganics					
WAD Cyanide (Free)	ug/L	66	<1	1	7839317

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Non- Potable Ground Water - All Types of Property Uses - Coarse Textured Soil

Bureau Veritas 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 Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (WATER)

Bureau Veritas ID			RWJ012	RWJ013	RWJ013	RWJ014	RWJ015		
Sampling Date			2022/02/15 14:15	2022/02/15 14:15	2022/02/15 14:15	2022/02/15 15:00	2022/02/15 16:15		
COC Number			865081-01-01	865081-01-01	865081-01-01	865081-01-01	865081-01-01		
	UNITS	**Criteria**	**MW104-19**	**MW1104-19**	**MW1104-19 Lab-Dup**	**MW101-19**	**MW309-22**	**RDL**	**QC Batch**
Metals									
Dissolved Antimony (Sb)	ug/L	20000	<0.50	<0.50	<0.50	<0.50	0.50	0.50	7839453
Dissolved Arsenic (As)	ug/L	1900	<1.0	<1.0	<1.0	<1.0	3.9	1.0	7839453
Dissolved Barium (Ba)	ug/L	29000	61	59	58	63	48	2.0	7839453
Dissolved Beryllium (Be)	ug/L	67	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	7839453
Dissolved Boron (B)	ug/L	45000	30	24	25	95	1300	10	7839453
Dissolved Cadmium (Cd)	ug/L	2.7	<0.090	<0.090	<0.090	<0.090	<0.090	0.090	7839453
Dissolved Chromium (Cr)	ug/L	810	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7839453
Dissolved Cobalt (Co)	ug/L	66	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7839453
Dissolved Copper (Cu)	ug/L	87	3.6	<0.90	<0.90	7.0	1.0	0.90	7839453
Dissolved Lead (Pb)	ug/L	25	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7839453
Dissolved Molybdenum (Mo)	ug/L	9200	1.1	1.1	1.1	1.5	20	0.50	7839453
Dissolved Nickel (Ni)	ug/L	490	<1.0	<1.0	<1.0	2.1	<1.0	1.0	7839453
Dissolved Selenium (Se)	ug/L	63	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7839453
Dissolved Silver (Ag)	ug/L	1.5	<0.090	<0.090	<0.090	<0.090	<0.090	0.090	7839453
Dissolved Thallium (Tl)	ug/L	510	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7839453
Dissolved Uranium (U)	ug/L	420	0.73	0.73	0.73	1.9	1.8	0.10	7839453
Dissolved Vanadium (V)	ug/L	250	<0.50	<0.50	<0.50	<0.50	0.67	0.50	7839453
Dissolved Zinc (Zn)	ug/L	1100	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7839453

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Non- Potable Ground Water - All Types of Property Uses - Coarse Textured Soil

Bureau Veritas 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 Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (WATER)

Bureau Veritas ID			RWJ016		
Sampling Date			2022/02/15 16:15		
COC Number			865081-01-01		
	UNITS	**Criteria**	**MW1309-22**	**RDL**	**QC Batch**
Metals					
Dissolved Antimony (Sb)	ug/L	20000	<0.50	0.50	7839453
Dissolved Arsenic (As)	ug/L	1900	3.8	1.0	7839453
Dissolved Barium (Ba)	ug/L	29000	49	2.0	7839453
Dissolved Beryllium (Be)	ug/L	67	<0.40	0.40	7839453
Dissolved Boron (B)	ug/L	45000	1300	10	7839453
Dissolved Cadmium (Cd)	ug/L	2.7	<0.090	0.090	7839453
Dissolved Chromium (Cr)	ug/L	810	<5.0	5.0	7839453
Dissolved Cobalt (Co)	ug/L	66	<0.50	0.50	7839453
Dissolved Copper (Cu)	ug/L	87	1.1	0.90	7839453
Dissolved Lead (Pb)	ug/L	25	<0.50	0.50	7839453
Dissolved Molybdenum (Mo)	ug/L	9200	20	0.50	7839453
Dissolved Nickel (Ni)	ug/L	490	1.1	1.0	7839453
Dissolved Selenium (Se)	ug/L	63	<2.0	2.0	7839453
Dissolved Silver (Ag)	ug/L	1.5	<0.090	0.090	7839453
Dissolved Thallium (Tl)	ug/L	510	<0.050	0.050	7839453
Dissolved Uranium (U)	ug/L	420	1.8	0.10	7839453
Dissolved Vanadium (V)	ug/L	250	0.63	0.50	7839453
Dissolved Zinc (Zn)	ug/L	1100	<5.0	5.0	7839453

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Non- Potable Ground Water - All Types of Property Uses - Coarse Textured Soil

Bureau Veritas 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 Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 PAHS (WATER)

Bureau Veritas ID			RWJ014		
Sampling Date			2022/02/15 15:00		
COC Number			865081-01-01		
	UNITS	**Criteria**	**MW101-19**	**RDL**	**QC Batch**
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/L	1800	<0.28	0.28	7837473

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Non- Potable Ground Water - All Types of Property Uses - Coarse Textured Soil

Bureau Veritas 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 Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 PCBS (WATER)

Bureau Veritas ID			RWJ011		
Sampling Date			2022/02/15 11:00		
COC Number			865081-01-01		
	UNITS	**Criteria**	**MW320-22**	**RDL**	**QC Batch**
PCBs					
Aroclor 1242	ug/L	-	<0.05	0.05	7843693
Aroclor 1248	ug/L	-	<0.05	0.05	7843693
Aroclor 1254	ug/L	-	<0.05	0.05	7843693
Aroclor 1260	ug/L	-	<0.05	0.05	7843693
Total PCB	ug/L	7.8	<0.05	0.05	7843693
Surrogate Recovery (%)					
Decachlorobiphenyl	%	-	79		7843693

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
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Bureau Veritas Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 PHCS, BTEX/F1-F4 (WATER)

Bureau Veritas ID			RWJ010		
Sampling Date			2022/02/15 12:10		
COC Number			865081-01-01		
	UNITS	**Criteria**	**BH7**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons					
Benzene	ug/L	44	<0.20	0.20	7842572
Toluene	ug/L	18000	<0.20	0.20	7842572
Ethylbenzene	ug/L	2300	<0.20	0.20	7842572
o-Xylene	ug/L	-	<0.20	0.20	7842572
p+m-Xylene	ug/L	-	<0.40	0.40	7842572
Total Xylenes	ug/L	4200	<0.40	0.40	7842572
F1 (C6-C10)	ug/L	750	<25	25	7842572
F1 (C6-C10) - BTEX	ug/L	750	<25	25	7842572
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	150	<100	100	7843131
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	200	7843131
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	200	7843131
Reached Baseline at C50	ug/L	-	Yes		7843131
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	-	105		7842572
4-Bromofluorobenzene	%	-	84		7842572
D10-o-Xylene	%	-	109		7842572
D4-1,2-Dichloroethane	%	-	119		7842572
o-Terphenyl	%	-	100		7843131

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
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Bureau Veritas Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Bureau Veritas ID			RWJ011			RWJ011			RWJ012		
Sampling Date			2022/02/15 11:00			2022/02/15 11:00			2022/02/15 14:15		
COC Number			865081-01-01			865081-01-01			865081-01-01		
	UNITS	**Criteria**	**MW320-22**	**RDL**	**QC Batch**	**MW320-22 Lab-Dup**	**RDL**	**QC Batch**	**MW104-19**	**RDL**	**QC Batch**
Calculated Parameters											
1,3-Dichloropropene (cis+trans)	ug/L	5.2	<0.50	0.50	7837515				<0.50	0.50	7837515
Volatile Organics											
Acetone (2-Propanone)	ug/L	130000	<10	10	7838943				<10	10	7838943
Benzene	ug/L	44	<0.17	0.17	7838943				<0.17	0.17	7838943
Bromodichloromethane	ug/L	85000	<0.50	0.50	7838943				<0.50	0.50	7838943
Bromoform	ug/L	380	<1.0	1.0	7838943				<1.0	1.0	7838943
Bromomethane	ug/L	5.6	<0.50	0.50	7838943				<0.50	0.50	7838943
Carbon Tetrachloride	ug/L	0.79	<0.20	0.20	7838943				<0.20	0.20	7838943
Chlorobenzene	ug/L	630	<0.20	0.20	7838943				<0.20	0.20	7838943
Chloroform	ug/L	2.4	<0.20	0.20	7838943				**12**	0.20	7838943
Dibromochloromethane	ug/L	82000	<0.50	0.50	7838943				<0.50	0.50	7838943
1,2-Dichlorobenzene	ug/L	4600	<0.50	0.50	7838943				<0.50	0.50	7838943
1,3-Dichlorobenzene	ug/L	9600	<0.50	0.50	7838943				<0.50	0.50	7838943
1,4-Dichlorobenzene	ug/L	8	<0.50	0.50	7838943				<0.50	0.50	7838943
Dichlorodifluoromethane (FREON 12)	ug/L	4400	<1.0	1.0	7838943				<1.0	1.0	7838943
1,1-Dichloroethane	ug/L	320	<0.20	0.20	7838943				<0.20	0.20	7838943
1,2-Dichloroethane	ug/L	1.6	<0.50	0.50	7838943				<0.50	0.50	7838943
1,1-Dichloroethylene	ug/L	1.6	<0.20	0.20	7838943				<0.20	0.20	7838943
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	7838943				<0.50	0.50	7838943
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	7838943				<0.50	0.50	7838943
1,2-Dichloropropane	ug/L	16	<0.20	0.20	7838943				<0.20	0.20	7838943
cis-1,3-Dichloropropene	ug/L	5.2	<0.30	0.30	7838943				<0.30	0.30	7838943
trans-1,3-Dichloropropene	ug/L	5.2	<0.40	0.40	7838943				<0.40	0.40	7838943
Ethylbenzene	ug/L	2300	<0.20	0.20	7838943				<0.20	0.20	7838943
Ethylene Dibromide	ug/L	0.25	<0.20	0.20	7838943				<0.20	0.20	7838943
Hexane	ug/L	51	<1.0	1.0	7838943				<1.0	1.0	7838943
Methylene Chloride(Dichloromethane)	ug/L	610	<2.0	2.0	7838943				<2.0	2.0	7838943
Methyl Ethyl Ketone (2-Butanone)	ug/L	470000	<10	10	7838943				<10	10	7838943

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Non- Potable Ground Water - All Types of Property Uses - Coarse Textured Soil

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Bureau Veritas Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Bureau Veritas ID			RWJ011			RWJ011			RWJ012		
Sampling Date			2022/02/15 11:00			2022/02/15 11:00			2022/02/15 14:15		
COC Number			865081-01-01			865081-01-01			865081-01-01		
	UNITS	**Criteria**	**MW320-22**	**RDL**	**QC Batch**	**MW320-22 Lab-Dup**	**RDL**	**QC Batch**	**MW104-19**	**RDL**	**QC Batch**
Methyl Isobutyl Ketone	ug/L	140000	<5.0	5.0	7838943				<5.0	5.0	7838943
Methyl t-butyl ether (MTBE)	ug/L	190	<0.50	0.50	7838943				<0.50	0.50	7838943
Styrene	ug/L	1300	<0.50	0.50	7838943				<0.50	0.50	7838943
1,1,1,2-Tetrachloroethane	ug/L	3.3	<0.50	0.50	7838943				<0.50	0.50	7838943
1,1,2,2-Tetrachloroethane	ug/L	3.2	<0.50	0.50	7838943				<0.50	0.50	7838943
Tetrachloroethylene	ug/L	1.6	<0.20	0.20	7838943				<0.20	0.20	7838943
Toluene	ug/L	18000	<0.20	0.20	7838943				<0.20	0.20	7838943
1,1,1-Trichloroethane	ug/L	640	<0.20	0.20	7838943				<0.20	0.20	7838943
1,1,2-Trichloroethane	ug/L	4.7	<0.50	0.50	7838943				<0.50	0.50	7838943
Trichloroethylene	ug/L	1.6	<0.20	0.20	7838943				<0.20	0.20	7838943
Trichlorofluoromethane (FREON 11)	ug/L	2500	<0.50	0.50	7838943				<0.50	0.50	7838943
Vinyl Chloride	ug/L	0.5	<0.20	0.20	7838943				<0.20	0.20	7838943
p+m-Xylene	ug/L	-	<0.20	0.20	7838943				<0.20	0.20	7838943
o-Xylene	ug/L	-	<0.20	0.20	7838943				<0.20	0.20	7838943
Total Xylenes	ug/L	4200	<0.20	0.20	7838943				<0.20	0.20	7838943
F1 (C6-C10)	ug/L	750	<25	25	7838943				<25	25	7838943
F1 (C6-C10) - BTEX	ug/L	750	<25	25	7838943				<25	25	7838943
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/L	150	<100	100	7843131	<100	100	7843131	<100	100	7843131
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	200	7843131	<200	200	7843131	<200	200	7843131
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	200	7843131	<200	200	7843131	<200	200	7843131
Reached Baseline at C50	ug/L	-	Yes		7843131	Yes		7843131	Yes		7843131
Surrogate Recovery (%)											
o-Terphenyl	%	-	100		7843131	99		7843131	102		7843131
4-Bromofluorobenzene	%	-	90		7838943				90		7838943
D4-1,2-Dichloroethane	%	-	111		7838943				112		7838943
D8-Toluene	%	-	94		7838943				93		7838943

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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Bureau Veritas Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Bureau Veritas ID			RWJ013	RWJ014	RWJ015	RWJ016		
Sampling Date			2022/02/15 14:15	2022/02/15 15:00	2022/02/15 16:15	2022/02/15 16:15		
COC Number			865081-01-01	865081-01-01	865081-01-01	865081-01-01		
	UNITS	**Criteria**	**MW1104-19**	**MW101-19**	**MW309-22**	**MW1309-22**	**RDL**	**QC Batch**
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	5.2	<0.50	<0.50	<0.50	<0.50	0.50	7837515
Volatile Organics								
Acetone (2-Propanone)	ug/L	130000	<10	<10	<10	<10	10	7838943
Benzene	ug/L	44	<0.17	<0.17	<0.17	<0.17	0.17	7838943
Bromodichloromethane	ug/L	85000	<0.50	<0.50	<0.50	<0.50	0.50	7838943
Bromoform	ug/L	380	<1.0	<1.0	<1.0	<1.0	1.0	7838943
Bromomethane	ug/L	5.6	<0.50	<0.50	<0.50	<0.50	0.50	7838943
Carbon Tetrachloride	ug/L	0.79	<0.20	<0.20	<0.20	<0.20	0.20	7838943
Chlorobenzene	ug/L	630	<0.20	<0.20	<0.20	<0.20	0.20	7838943
Chloroform	ug/L	2.4	**12**	<0.20	<0.20	<0.20	0.20	7838943
Dibromochloromethane	ug/L	82000	<0.50	<0.50	<0.50	<0.50	0.50	7838943
1,2-Dichlorobenzene	ug/L	4600	<0.50	<0.50	<0.50	<0.50	0.50	7838943
1,3-Dichlorobenzene	ug/L	9600	<0.50	<0.50	<0.50	<0.50	0.50	7838943
1,4-Dichlorobenzene	ug/L	8	<0.50	<0.50	<0.50	<0.50	0.50	7838943
Dichlorodifluoromethane (FREON 12)	ug/L	4400	<1.0	<1.0	<1.0	<1.0	1.0	7838943
1,1-Dichloroethane	ug/L	320	<0.20	<0.20	<0.20	<0.20	0.20	7838943
1,2-Dichloroethane	ug/L	1.6	<0.50	<0.50	<0.50	<0.50	0.50	7838943
1,1-Dichloroethylene	ug/L	1.6	<0.20	<0.20	<0.20	<0.20	0.20	7838943
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	<0.50	<0.50	0.50	7838943
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	<0.50	<0.50	0.50	7838943
1,2-Dichloropropane	ug/L	16	<0.20	<0.20	<0.20	<0.20	0.20	7838943
cis-1,3-Dichloropropene	ug/L	5.2	<0.30	<0.30	<0.30	<0.30	0.30	7838943
trans-1,3-Dichloropropene	ug/L	5.2	<0.40	<0.40	<0.40	<0.40	0.40	7838943
Ethylbenzene	ug/L	2300	<0.20	<0.20	<0.20	<0.20	0.20	7838943
Ethylene Dibromide	ug/L	0.25	<0.20	<0.20	<0.20	<0.20	0.20	7838943
Hexane	ug/L	51	<1.0	<1.0	<1.0	<1.0	1.0	7838943
Methylene Chloride(Dichloromethane)	ug/L	610	<2.0	<2.0	<2.0	<2.0	2.0	7838943
Methyl Ethyl Ketone (2-Butanone)	ug/L	470000	<10	<10	<10	<10	10	7838943
Methyl Isobutyl Ketone	ug/L	140000	<5.0	<5.0	<5.0	<5.0	5.0	7838943

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
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Bureau Veritas Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Bureau Veritas ID			RWJ013	RWJ014	RWJ015	RWJ016		
Sampling Date			2022/02/15 14:15	2022/02/15 15:00	2022/02/15 16:15	2022/02/15 16:15		
COC Number			865081-01-01	865081-01-01	865081-01-01	865081-01-01		
	UNITS	**Criteria**	**MW1104-19**	**MW101-19**	**MW309-22**	**MW1309-22**	**RDL**	**QC Batch**
Methyl t-butyl ether (MTBE)	ug/L	190	<0.50	<0.50	<0.50	<0.50	0.50	7838943
Styrene	ug/L	1300	<0.50	<0.50	<0.50	<0.50	0.50	7838943
1,1,1,2-Tetrachloroethane	ug/L	3.3	<0.50	<0.50	<0.50	<0.50	0.50	7838943
1,1,2,2-Tetrachloroethane	ug/L	3.2	<0.50	<0.50	<0.50	<0.50	0.50	7838943
Tetrachloroethylene	ug/L	1.6	<0.20	<0.20	<0.20	<0.20	0.20	7838943
Toluene	ug/L	18000	<0.20	<0.20	<0.20	<0.20	0.20	7838943
1,1,1-Trichloroethane	ug/L	640	<0.20	<0.20	<0.20	<0.20	0.20	7838943
1,1,2-Trichloroethane	ug/L	4.7	<0.50	<0.50	<0.50	<0.50	0.50	7838943
Trichloroethylene	ug/L	1.6	<0.20	<0.20	<0.20	<0.20	0.20	7838943
Trichlorofluoromethane (FREON 11)	ug/L	2500	<0.50	<0.50	<0.50	<0.50	0.50	7838943
Vinyl Chloride	ug/L	0.5	<0.20	<0.20	<0.20	<0.20	0.20	7838943
p+m-Xylene	ug/L	-	<0.20	<0.20	<0.20	<0.20	0.20	7838943
o-Xylene	ug/L	-	<0.20	<0.20	<0.20	<0.20	0.20	7838943
Total Xylenes	ug/L	4200	<0.20	<0.20	<0.20	<0.20	0.20	7838943
F1 (C6-C10)	ug/L	750	<25	<25	<25	<25	25	7838943
F1 (C6-C10) - BTEX	ug/L	750	<25	<25	<25	<25	25	7838943
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	150	<100	<100	<100	<100	100	7843131
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	<200	<200	<200	200	7843131
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	<200	<200	<200	200	7843131
Reached Baseline at C50	ug/L	-	Yes	Yes	Yes	Yes		7843131
Surrogate Recovery (%)								
o-Terphenyl	%	-	102	100	102	105		7843131
4-Bromofluorobenzene	%	-	90	90	89	90		7838943
D4-1,2-Dichloroethane	%	-	112	113	112	111		7838943
D8-Toluene	%	-	93	93	93	93		7838943

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
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Bureau Veritas Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Bureau Veritas ID			RWJ014		
Sampling Date			2022/02/15 15:00		
COC Number			865081-01-01		
	UNITS	**Criteria**	**MW101-19**	**RDL**	**QC Batch**
Semivolatile Organics					
1,2,4-Trichlorobenzene	ug/L	180	<0.1	0.1	7841769
1-Methylnaphthalene	ug/L	1800	<0.2	0.2	7841769
2,4,5-Trichlorophenol	ug/L	1600	<0.2	0.2	7841769
2,4,6-Trichlorophenol	ug/L	230	<0.2	0.2	7841769
2,4-Dichlorophenol	ug/L	4600	<0.1	0.1	7841769
2,4-Dimethylphenol	ug/L	39000	<0.5	0.5	7841769
2,4-Dinitrophenol	ug/L	11000	<2	2	7841769
2,4-Dinitrotoluene	ug/L	2900	<0.3	0.3	7841769
2,6-Dinitrotoluene	ug/L	2900	<0.3	0.3	7841769
2-Chlorophenol	ug/L	3300	<0.1	0.1	7841769
2-Methylnaphthalene	ug/L	1800	<0.2	0.2	7841769
3,3'-Dichlorobenzidine	ug/L	640	<0.5	0.5	7841769
Acenaphthene	ug/L	600	<0.2	0.2	7841769
Acenaphthylene	ug/L	1.8	<0.2	0.2	7841769
Anthracene	ug/L	2.4	<0.05	0.05	7841769
Benzo(a)anthracene	ug/L	4.7	<0.05	0.05	7841769
Benzo(a)pyrene	ug/L	0.81	<0.01	0.01	7841769
Benzo(b/j)fluoranthene	ug/L	0.75	<0.05	0.05	7841769
Benzo(g,h,i)perylene	ug/L	0.2	<0.05	0.05	7841769
Benzo(k)fluoranthene	ug/L	0.4	<0.05	0.05	7841769
Biphenyl	ug/L	1000	<0.1	0.1	7841769
Bis(2-chloroethyl)ether	ug/L	300000	<0.5	0.5	7841769
Bis(2-chloroisopropyl)ether	ug/L	20000	<0.5	0.5	7841769
Bis(2-ethylhexyl)phthalate	ug/L	140	<1	1	7841769
Chrysene	ug/L	1	<0.05	0.05	7841769
Dibenzo(a,h)anthracene	ug/L	0.52	<0.1	0.1	7841769
Diethyl phthalate	ug/L	38	0.2	0.1	7841769

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Non- Potable Ground Water - All Types of Property Uses - Coarse Textured Soil

Bureau Veritas 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 SEMIVOLATILES PACKAGE (WATER)

Bureau Veritas ID			RWJ014		
Sampling Date			2022/02/15 15:00		
COC Number			865081-01-01		
	UNITS	**Criteria**	**MW101-19**	**RDL**	**QC Batch**
Dimethyl phthalate	ug/L	38	<0.1	0.1	7841769
Fluoranthene	ug/L	130	<0.2	0.2	7841769
Fluorene	ug/L	400	<0.2	0.2	7841769
Indeno(1,2,3-cd)pyrene	ug/L	0.2	<0.1	0.1	7841769
Naphthalene	ug/L	1400	<0.2	0.2	7841769
p-Chloroaniline	ug/L	400	<1	1	7841769
Pentachlorophenol	ug/L	62	<0.1	0.1	7841769
Phenanthrene	ug/L	580	<0.1	0.1	7841769
Phenol	ug/L	12000	<0.5	0.5	7841769
Pyrene	ug/L	68	<0.05	0.05	7841769
Calculated Parameters					
2,4- & 2,6-Dinitrotoluene	ug/L	-	<0.35	0.35	7838156
Surrogate Recovery (%)					
2,4,6-Tribromophenol	%	-	50		7841769
2-Fluorobiphenyl	%	-	38 (1)		7841769
D14-Terphenyl (FS)	%	-	89		7841769
D5-Nitrobenzene	%	-	39 (1)		7841769

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
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(1) Surrogate recovery was below the lower control limit due to matrix interference. This may represent a lower bias in some results.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 VOCS BY HS (WATER)

Bureau Veritas ID			RWJ017		
Sampling Date			2022/02/15		
COC Number			865081-01-01		
	UNITS	**Criteria**	**TRIP BLANK**	**RDL**	**QC Batch**
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	5.2	<0.50	0.50	7837515
Volatile Organics					
Acetone (2-Propanone)	ug/L	130000	<10	10	7838739
Benzene	ug/L	44	<0.20	0.20	7838739
Bromodichloromethane	ug/L	85000	<0.50	0.50	7838739
Bromoform	ug/L	380	<1.0	1.0	7838739
Bromomethane	ug/L	5.6	<0.50	0.50	7838739
Carbon Tetrachloride	ug/L	0.79	<0.19	0.19	7838739
Chlorobenzene	ug/L	630	<0.20	0.20	7838739
Chloroform	ug/L	2.4	<0.20	0.20	7838739
Dibromochloromethane	ug/L	82000	<0.50	0.50	7838739
1,2-Dichlorobenzene	ug/L	4600	<0.40	0.40	7838739
1,3-Dichlorobenzene	ug/L	9600	<0.40	0.40	7838739
1,4-Dichlorobenzene	ug/L	8	<0.40	0.40	7838739
Dichlorodifluoromethane (FREON 12)	ug/L	4400	<1.0	1.0	7838739
1,1-Dichloroethane	ug/L	320	<0.20	0.20	7838739
1,2-Dichloroethane	ug/L	1.6	<0.49	0.49	7838739
1,1-Dichloroethylene	ug/L	1.6	<0.20	0.20	7838739
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	7838739
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	7838739
1,2-Dichloropropane	ug/L	16	<0.20	0.20	7838739
cis-1,3-Dichloropropene	ug/L	5.2	<0.30	0.30	7838739
trans-1,3-Dichloropropene	ug/L	5.2	<0.40	0.40	7838739
Ethylbenzene	ug/L	2300	<0.20	0.20	7838739
Ethylene Dibromide	ug/L	0.25	<0.19	0.19	7838739
Hexane	ug/L	51	<1.0	1.0	7838739
Methylene Chloride(Dichloromethane)	ug/L	610	<2.0	2.0	7838739
Methyl Ethyl Ketone (2-Butanone)	ug/L	470000	<10	10	7838739

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
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Bureau Veritas Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 VOCS BY HS (WATER)

Bureau Veritas ID			RWJ017		
Sampling Date			2022/02/15		
COC Number			865081-01-01		
	UNITS	**Criteria**	**TRIP BLANK**	**RDL**	**QC Batch**
Methyl Isobutyl Ketone	ug/L	140000	<5.0	5.0	7838739
Methyl t-butyl ether (MTBE)	ug/L	190	<0.50	0.50	7838739
Styrene	ug/L	1300	<0.40	0.40	7838739
1,1,1,2-Tetrachloroethane	ug/L	3.3	<0.50	0.50	7838739
1,1,2,2-Tetrachloroethane	ug/L	3.2	<0.40	0.40	7838739
Tetrachloroethylene	ug/L	1.6	<0.20	0.20	7838739
Toluene	ug/L	18000	<0.20	0.20	7838739
1,1,1-Trichloroethane	ug/L	640	<0.20	0.20	7838739
1,1,2-Trichloroethane	ug/L	4.7	<0.40	0.40	7838739
Trichloroethylene	ug/L	1.6	<0.20	0.20	7838739
Trichlorofluoromethane (FREON 11)	ug/L	2500	<0.50	0.50	7838739
Vinyl Chloride	ug/L	0.5	<0.20	0.20	7838739
p+m-Xylene	ug/L	-	<0.20	0.20	7838739
o-Xylene	ug/L	-	<0.20	0.20	7838739
Total Xylenes	ug/L	4200	<0.20	0.20	7838739
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	-	91		7838739
D4-1,2-Dichloroethane	%	-	110		7838739
D8-Toluene	%	-	97		7838739

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Non- Potable Ground Water - All Types of Property Uses - Coarse Textured Soil

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Bureau Veritas Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

TEST SUMMARY

Bureau Veritas ID: RWJ010
Sample ID: BH7
Matrix: Water

Collected: 2022/02/15
Shipped:
Received: 2022/02/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7842572	N/A	2022/02/18	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7843131	2022/02/19	2022/02/21	Agnieszka Brzuzy-Snopko

Bureau Veritas ID: RWJ011
Sample ID: MW320-22
Matrix: Water

Collected: 2022/02/15
Shipped:
Received: 2022/02/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7837515	N/A	2022/02/22	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7843131	2022/02/19	2022/02/21	Agnieszka Brzuzy-Snopko
Polychlorinated Biphenyl in Water	GC/ECD	7843693	2022/02/20	2022/02/21	Joy Zhang
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7838943	N/A	2022/02/18	Juan Pangilinan

Bureau Veritas ID: RWJ011 Dup
Sample ID: MW320-22
Matrix: Water

Collected: 2022/02/15
Shipped:
Received: 2022/02/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7843131	2022/02/19	2022/02/21	Agnieszka Brzuzy-Snopko

Bureau Veritas ID: RWJ012
Sample ID: MW104-19
Matrix: Water

Collected: 2022/02/15
Shipped:
Received: 2022/02/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7837515	N/A	2022/02/22	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7843131	2022/02/19	2022/02/21	Agnieszka Brzuzy-Snopko
Dissolved Metals by ICPMS	ICP/MS	7839453	N/A	2022/02/18	Nan Raykha
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7838943	N/A	2022/02/18	Juan Pangilinan

Bureau Veritas ID: RWJ013
Sample ID: MW1104-19
Matrix: Water

Collected: 2022/02/15
Shipped:
Received: 2022/02/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7837515	N/A	2022/02/22	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7843131	2022/02/19	2022/02/21	Agnieszka Brzuzy-Snopko
Dissolved Metals by ICPMS	ICP/MS	7839453	N/A	2022/02/18	Nan Raykha
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7838943	N/A	2022/02/18	Juan Pangilinan

Bureau Veritas ID: RWJ013 Dup
Sample ID: MW1104-19
Matrix: Water

Collected: 2022/02/15
Shipped:
Received: 2022/02/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7839453	N/A	2022/02/18	Nan Raykha

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Bureau Veritas Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

TEST SUMMARY

Bureau Veritas ID: RWJ014
Sample ID: MW101-19
Matrix: Water

Collected: 2022/02/15
Shipped:
Received: 2022/02/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7837473	N/A	2022/02/22	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	7841769	2022/02/18	2022/02/22	Biljana Lazovic
1,3-Dichloropropene Sum	CALC	7837515	N/A	2022/02/22	Automated Statchk
Free (WAD) Cyanide	SKAL/CN	7839317	N/A	2022/02/17	Aditiben Patel
Dinitrotoluene Sum	CALC	7838156	N/A	2022/02/22	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7843131	2022/02/19	2022/02/21	Agnieszka Brzuzy-Snopko
Dissolved Metals by ICPMS	ICP/MS	7839453	N/A	2022/02/18	Nan Raykha
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7838943	N/A	2022/02/18	Juan Pangilinan

Bureau Veritas ID: RWJ015
Sample ID: MW309-22
Matrix: Water

Collected: 2022/02/15
Shipped:
Received: 2022/02/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7837515	N/A	2022/02/22	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7843131	2022/02/19	2022/02/21	Agnieszka Brzuzy-Snopko
Dissolved Metals by ICPMS	ICP/MS	7839453	N/A	2022/02/18	Nan Raykha
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7838943	N/A	2022/02/18	Juan Pangilinan

Bureau Veritas ID: RWJ016
Sample ID: MW1309-22
Matrix: Water

Collected: 2022/02/15
Shipped:
Received: 2022/02/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7837515	N/A	2022/02/22	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7843131	2022/02/19	2022/02/22	Agnieszka Brzuzy-Snopko
Dissolved Metals by ICPMS	ICP/MS	7839453	N/A	2022/02/18	Nan Raykha
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7838943	N/A	2022/02/18	Juan Pangilinan

Bureau Veritas ID: RWJ017
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2022/02/15
Shipped:
Received: 2022/02/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7837515	N/A	2022/02/22	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	7838739	N/A	2022/02/19	Chandni Khawas

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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.

Bureau Veritas Job #: C241626
Report Date: 2022/02/23

QUALITY ASSURANCE REPORT

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7838739	4-Bromofluorobenzene	2022/02/18	96	70 - 130	96	70 - 130	94	%		
7838739	D4-1,2-Dichloroethane	2022/02/18	108	70 - 130	106	70 - 130	105	%		
7838739	D8-Toluene	2022/02/18	100	70 - 130	101	70 - 130	98	%		
7838943	4-Bromofluorobenzene	2022/02/18	100	70 - 130	98	70 - 130	91	%		
7838943	D4-1,2-Dichloroethane	2022/02/18	117	70 - 130	103	70 - 130	107	%		
7838943	D8-Toluene	2022/02/18	101	70 - 130	105	70 - 130	94	%		
7841769	2,4,6-Tribromophenol	2022/02/19	93	50 - 130	90	50 - 130	67	%		
7841769	2-Fluorobiphenyl	2022/02/19	60	50 - 130	66	50 - 130	66	%		
7841769	D14-Terphenyl (FS)	2022/02/19	96	50 - 130	98	50 - 130	96	%		
7841769	D5-Nitrobenzene	2022/02/19	61	50 - 130	71	50 - 130	81	%		
7842572	1,4-Difluorobenzene	2022/02/18	96	70 - 130	96	70 - 130	110	%		
7842572	4-Bromofluorobenzene	2022/02/18	102	70 - 130	109	70 - 130	86	%		
7842572	D10-o-Xylene	2022/02/18	105	70 - 130	101	70 - 130	108	%		
7842572	D4-1,2-Dichloroethane	2022/02/18	108	70 - 130	106	70 - 130	120	%		
7843131	o-Terphenyl	2022/02/21	101	60 - 130	105	60 - 130	100	%		
7843693	Decachlorobiphenyl	2022/02/21	82	60 - 130	74	60 - 130	70	%		
7838739	1,1,1,2-Tetrachloroethane	2022/02/18	95	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
7838739	1,1,1-Trichloroethane	2022/02/18	95	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
7838739	1,1,2,2-Tetrachloroethane	2022/02/18	107	70 - 130	104	70 - 130	<0.40	ug/L	NC	30
7838739	1,1,2-Trichloroethane	2022/02/18	108	70 - 130	107	70 - 130	<0.40	ug/L	NC	30
7838739	1,1-Dichloroethane	2022/02/18	97	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
7838739	1,1-Dichloroethylene	2022/02/18	100	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
7838739	1,2-Dichlorobenzene	2022/02/18	97	70 - 130	96	70 - 130	<0.40	ug/L	NC	30
7838739	1,2-Dichloroethane	2022/02/18	101	70 - 130	100	70 - 130	<0.49	ug/L	NC	30
7838739	1,2-Dichloropropane	2022/02/18	100	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
7838739	1,3-Dichlorobenzene	2022/02/18	91	70 - 130	94	70 - 130	<0.40	ug/L	NC	30
7838739	1,4-Dichlorobenzene	2022/02/18	106	70 - 130	108	70 - 130	<0.40	ug/L	NC	30
7838739	Acetone (2-Propanone)	2022/02/18	108	60 - 140	105	60 - 140	<10	ug/L	NC	30
7838739	Benzene	2022/02/18	96	70 - 130	96	70 - 130	<0.20	ug/L	0.55	30
7838739	Bromodichloromethane	2022/02/18	99	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
7838739	Bromoform	2022/02/18	97	70 - 130	94	70 - 130	<1.0	ug/L	NC	30

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C241626
Report Date: 2022/02/23

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7838739	Bromomethane	2022/02/18	107	60 - 140	105	60 - 140	<0.50	ug/L	NC	30
7838739	Carbon Tetrachloride	2022/02/18	87	70 - 130	87	70 - 130	<0.19	ug/L	NC	30
7838739	Chlorobenzene	2022/02/18	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
7838739	Chloroform	2022/02/18	99	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
7838739	cis-1,2-Dichloroethylene	2022/02/18	102	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
7838739	cis-1,3-Dichloropropene	2022/02/18	92	70 - 130	91	70 - 130	<0.30	ug/L	NC	30
7838739	Dibromochloromethane	2022/02/18	98	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
7838739	Dichlorodifluoromethane (FREON 12)	2022/02/18	112	60 - 140	109	60 - 140	<1.0	ug/L	NC	30
7838739	Ethylbenzene	2022/02/18	90	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
7838739	Ethylene Dibromide	2022/02/18	98	70 - 130	97	70 - 130	<0.19	ug/L	NC	30
7838739	Hexane	2022/02/18	99	70 - 130	98	70 - 130	<1.0	ug/L	NC	30
7838739	Methyl Ethyl Ketone (2-Butanone)	2022/02/18	116	60 - 140	113	60 - 140	<10	ug/L	NC	30
7838739	Methyl Isobutyl Ketone	2022/02/18	107	70 - 130	104	70 - 130	<5.0	ug/L	NC	30
7838739	Methyl t-butyl ether (MTBE)	2022/02/18	95	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
7838739	Methylene Chloride(Dichloromethane)	2022/02/18	105	70 - 130	104	70 - 130	<2.0	ug/L	NC	30
7838739	o-Xylene	2022/02/18	92	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
7838739	p+m-Xylene	2022/02/18	93	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
7838739	Styrene	2022/02/18	101	70 - 130	103	70 - 130	<0.40	ug/L	NC	30
7838739	Tetrachloroethylene	2022/02/18	83	70 - 130	85	70 - 130	<0.20	ug/L	NC	30
7838739	Toluene	2022/02/18	96	70 - 130	96	70 - 130	<0.20	ug/L	0	30
7838739	Total Xylenes	2022/02/18					<0.20	ug/L	NC	30
7838739	trans-1,2-Dichloroethylene	2022/02/18	97	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
7838739	trans-1,3-Dichloropropene	2022/02/18	98	70 - 130	108	70 - 130	<0.40	ug/L	NC	30
7838739	Trichloroethylene	2022/02/18	96	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
7838739	Trichlorofluoromethane (FREON 11)	2022/02/18	99	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
7838739	Vinyl Chloride	2022/02/18	108	70 - 130	107	70 - 130	<0.20	ug/L	NC	30
7838943	1,1,1,2-Tetrachloroethane	2022/02/18	100	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
7838943	1,1,1-Trichloroethane	2022/02/18	94	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
7838943	1,1,2,2-Tetrachloroethane	2022/02/18	120	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
7838943	1,1,2-Trichloroethane	2022/02/18	120	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
7838943	1,1-Dichloroethane	2022/02/18	100	70 - 130	98	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.

Bureau Veritas Job #: C241626
Report Date: 2022/02/23

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7838943	1,1-Dichloroethylene	2022/02/18	98	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
7838943	1,2-Dichlorobenzene	2022/02/18	95	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
7838943	1,2-Dichloroethane	2022/02/18	108	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
7838943	1,2-Dichloropropane	2022/02/18	104	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
7838943	1,3-Dichlorobenzene	2022/02/18	89	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
7838943	1,4-Dichlorobenzene	2022/02/18	105	70 - 130	111	70 - 130	<0.50	ug/L	NC	30
7838943	Acetone (2-Propanone)	2022/02/18	127	60 - 140	103	60 - 140	<10	ug/L	NC	30
7838943	Benzene	2022/02/18	95	70 - 130	95	70 - 130	<0.17	ug/L	NC	30
7838943	Bromodichloromethane	2022/02/18	107	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
7838943	Bromoform	2022/02/18	112	70 - 130	97	70 - 130	<1.0	ug/L	NC	30
7838943	Bromomethane	2022/02/18	111	60 - 140	103	60 - 140	<0.50	ug/L	NC	30
7838943	Carbon Tetrachloride	2022/02/18	91	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
7838943	Chlorobenzene	2022/02/18	96	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
7838943	Chloroform	2022/02/18	102	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
7838943	cis-1,2-Dichloroethylene	2022/02/18	105	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
7838943	cis-1,3-Dichloropropene	2022/02/18	103	70 - 130	90	70 - 130	<0.30	ug/L	NC	30
7838943	Dibromochloromethane	2022/02/18	106	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
7838943	Dichlorodifluoromethane (FREON 12)	2022/02/18	87	60 - 140	97	60 - 140	<1.0	ug/L	NC	30
7838943	Ethylbenzene	2022/02/18	81	70 - 130	89	70 - 130	<0.20	ug/L	NC	30
7838943	Ethylene Dibromide	2022/02/18	110	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
7838943	F1 (C6-C10) - BTEX	2022/02/18					<25	ug/L	NC	30
7838943	F1 (C6-C10)	2022/02/18	84	60 - 140	95	60 - 140	<25	ug/L	NC	30
7838943	Hexane	2022/02/18	98	70 - 130	104	70 - 130	<1.0	ug/L	NC	30
7838943	Methyl Ethyl Ketone (2-Butanone)	2022/02/18	137	60 - 140	109	60 - 140	<10	ug/L	NC	30
7838943	Methyl Isobutyl Ketone	2022/02/18	124	70 - 130	101	70 - 130	<5.0	ug/L	NC	30
7838943	Methyl t-butyl ether (MTBE)	2022/02/18	87	70 - 130	86	70 - 130	<0.50	ug/L	NC	30
7838943	Methylene Chloride(Dichloromethane)	2022/02/18	110	70 - 130	102	70 - 130	<2.0	ug/L	NC	30
7838943	o-Xylene	2022/02/18	83	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
7838943	p+m-Xylene	2022/02/18	83	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
7838943	Styrene	2022/02/18	97	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
7838943	Tetrachloroethylene	2022/02/18	86	70 - 130	93	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.

Bureau Veritas Job #: C241626
Report Date: 2022/02/23

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7838943	Toluene	2022/02/18	87	70 - 130	92	70 - 130	<0.20	ug/L	2.4	30
7838943	Total Xylenes	2022/02/18					<0.20	ug/L	NC	30
7838943	trans-1,2-Dichloroethylene	2022/02/18	99	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
7838943	trans-1,3-Dichloropropene	2022/02/18	119	70 - 130	97	70 - 130	<0.40	ug/L	NC	30
7838943	Trichloroethylene	2022/02/18	97	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
7838943	Trichlorofluoromethane (FREON 11)	2022/02/18	95	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
7838943	Vinyl Chloride	2022/02/18	101	70 - 130	107	70 - 130	<0.20	ug/L	NC	30
7839317	WAD Cyanide (Free)	2022/02/17	96	80 - 120	96	80 - 120	<1	ug/L	NC	20
7839453	Dissolved Antimony (Sb)	2022/02/18	103	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
7839453	Dissolved Arsenic (As)	2022/02/18	97	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
7839453	Dissolved Barium (Ba)	2022/02/18	100	80 - 120	100	80 - 120	<2.0	ug/L	1.8	20
7839453	Dissolved Beryllium (Be)	2022/02/18	102	80 - 120	99	80 - 120	<0.40	ug/L	NC	20
7839453	Dissolved Boron (B)	2022/02/18	99	80 - 120	91	80 - 120	<10	ug/L	4.1	20
7839453	Dissolved Cadmium (Cd)	2022/02/18	98	80 - 120	97	80 - 120	<0.090	ug/L	NC	20
7839453	Dissolved Chromium (Cr)	2022/02/18	95	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
7839453	Dissolved Cobalt (Co)	2022/02/18	94	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
7839453	Dissolved Copper (Cu)	2022/02/18	101	80 - 120	100	80 - 120	<0.90	ug/L	NC	20
7839453	Dissolved Lead (Pb)	2022/02/18	94	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
7839453	Dissolved Molybdenum (Mo)	2022/02/18	106	80 - 120	102	80 - 120	<0.50	ug/L	1.5	20
7839453	Dissolved Nickel (Ni)	2022/02/18	90	80 - 120	95	80 - 120	<1.0	ug/L	NC	20
7839453	Dissolved Selenium (Se)	2022/02/18	97	80 - 120	100	80 - 120	<2.0	ug/L	NC	20
7839453	Dissolved Silver (Ag)	2022/02/18	98	80 - 120	102	80 - 120	<0.090	ug/L	NC	20
7839453	Dissolved Thallium (Tl)	2022/02/18	98	80 - 120	102	80 - 120	<0.050	ug/L	NC	20
7839453	Dissolved Uranium (U)	2022/02/18	95	80 - 120	98	80 - 120	<0.10	ug/L	0.82	20
7839453	Dissolved Vanadium (V)	2022/02/18	99	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
7839453	Dissolved Zinc (Zn)	2022/02/18	93	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
7841769	1,2,4-Trichlorobenzene	2022/02/22	50	50 - 130	54	50 - 130	<0.1	ug/L	NC	30
7841769	1-Methylnaphthalene	2022/02/22	62	50 - 130	68	50 - 130	<0.2	ug/L	NC	30
7841769	2,4,5-Trichlorophenol	2022/02/22	96	50 - 130	93	50 - 130	<0.2	ug/L	NC	30
7841769	2,4,6-Trichlorophenol	2022/02/22	87	50 - 130	85	50 - 130	<0.2	ug/L	NC	30
7841769	2,4-Dichlorophenol	2022/02/22	70	50 - 130	79	50 - 130	<0.1	ug/L	NC	30

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C241626
Report Date: 2022/02/23

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7841769	2,4-Dimethylphenol	2022/02/22	49	30 - 130	53	30 - 130	<0.5	ug/L	NC	30
7841769	2,4-Dinitrophenol	2022/02/22	65	30 - 130	71	30 - 130	<2	ug/L	NC	30
7841769	2,4-Dinitrotoluene	2022/02/22	106	50 - 130	111	50 - 130	<0.3	ug/L	NC	30
7841769	2,6-Dinitrotoluene	2022/02/22	88	50 - 130	91	50 - 130	<0.3	ug/L	NC	30
7841769	2-Chlorophenol	2022/02/22	53	50 - 130	60	50 - 130	<0.1	ug/L	NC	30
7841769	2-Methylnaphthalene	2022/02/22	57	50 - 130	63	50 - 130	<0.2	ug/L	NC	30
7841769	3,3'-Dichlorobenzidine	2022/02/22	0.00 (1)	30 - 130	78	30 - 130	<0.5	ug/L	NC	30
7841769	Acenaphthene	2022/02/22	70	50 - 130	74	50 - 130	<0.2	ug/L	NC	30
7841769	Acenaphthylene	2022/02/22	70	50 - 130	75	50 - 130	<0.2	ug/L	NC	30
7841769	Anthracene	2022/02/22	82	50 - 130	84	50 - 130	<0.05	ug/L	NC	30
7841769	Benzo(a)anthracene	2022/02/22	100	50 - 130	100	50 - 130	<0.05	ug/L	NC	30
7841769	Benzo(a)pyrene	2022/02/22	99	50 - 130	100	50 - 130	<0.01	ug/L	NC	30
7841769	Benzo(b/j)fluoranthene	2022/02/22	102	50 - 130	103	50 - 130	<0.05	ug/L	NC	30
7841769	Benzo(g,h,i)perylene	2022/02/22	67	50 - 130	87	50 - 130	<0.05	ug/L	NC	30
7841769	Benzo(k)fluoranthene	2022/02/22	112	50 - 130	104	50 - 130	<0.05	ug/L	NC	30
7841769	Biphenyl	2022/02/22	60	50 - 130	66	50 - 130	<0.1	ug/L	NC	30
7841769	Bis(2-chloroethyl)ether	2022/02/22	52	50 - 130	61	50 - 130	<0.5	ug/L	NC	30
7841769	Bis(2-chloroisopropyl)ether	2022/02/22	49 (1)	50 - 130	57	50 - 130	<0.5	ug/L	NC	30
7841769	Bis(2-ethylhexyl)phthalate	2022/02/22	97	50 - 130	102	50 - 130	<1	ug/L	NC	30
7841769	Chrysene	2022/02/22	96	50 - 130	98	50 - 130	<0.05	ug/L	NC	30
7841769	Dibenzo(a,h)anthracene	2022/02/22	73	50 - 130	89	50 - 130	<0.1	ug/L	NC	30
7841769	Diethyl phthalate	2022/02/22	91	50 - 130	94	50 - 130	<0.1	ug/L	NC	30
7841769	Dimethyl phthalate	2022/02/22	84	50 - 130	86	50 - 130	<0.1	ug/L	NC	30
7841769	Fluoranthene	2022/02/22	94	50 - 130	96	50 - 130	<0.2	ug/L	NC	30
7841769	Fluorene	2022/02/22	80	50 - 130	81	50 - 130	<0.2	ug/L	NC	30
7841769	Indeno(1,2,3-cd)pyrene	2022/02/22	71	50 - 130	85	50 - 130	<0.1	ug/L	NC	30
7841769	Naphthalene	2022/02/22	51	50 - 130	58	50 - 130	<0.2	ug/L	NC	30
7841769	p-Chloroaniline	2022/02/22	35	30 - 130	65	30 - 130	<1	ug/L	NC	30
7841769	Pentachlorophenol	2022/02/22	85	50 - 130	71	50 - 130	<0.1	ug/L	NC	30
7841769	Phenanthrene	2022/02/22	81	50 - 130	82	50 - 130	<0.1	ug/L	NC	30
7841769	Phenol	2022/02/22	24 (1)	30 - 130	29 (1)	30 - 130	<0.5	ug/L	NC	30

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Bureau Veritas Job #: C241626
Report Date: 2022/02/23

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7841769	Pyrene	2022/02/22	103	50 - 130	103	50 - 130	<0.05	ug/L	NC	30
7842572	Benzene	2022/02/18	108	50 - 140	102	50 - 140	<0.20	ug/L		
7842572	Ethylbenzene	2022/02/18	116	50 - 140	110	50 - 140	<0.20	ug/L		
7842572	F1 (C6-C10) - BTEX	2022/02/18					<25	ug/L	19	30
7842572	F1 (C6-C10)	2022/02/18	101	60 - 140	97	60 - 140	<25	ug/L	19	30
7842572	o-Xylene	2022/02/18	115	50 - 140	109	50 - 140	<0.20	ug/L		
7842572	p+m-Xylene	2022/02/18	111	50 - 140	105	50 - 140	<0.40	ug/L		
7842572	Toluene	2022/02/18	104	50 - 140	99	50 - 140	<0.20	ug/L		
7842572	Total Xylenes	2022/02/18					<0.40	ug/L		
7843131	F2 (C10-C16 Hydrocarbons)	2022/02/21	96	60 - 130	104	60 - 130	<100	ug/L	NC	30
7843131	F3 (C16-C34 Hydrocarbons)	2022/02/21	96	60 - 130	105	60 - 130	<200	ug/L	NC	30
7843131	F4 (C34-C50 Hydrocarbons)	2022/02/21	96	60 - 130	104	60 - 130	<200	ug/L	NC	30
7843693	Aroclor 1242	2022/02/21					<0.05	ug/L		
7843693	Aroclor 1248	2022/02/21					<0.05	ug/L		
7843693	Aroclor 1254	2022/02/21					<0.05	ug/L		
7843693	Aroclor 1260	2022/02/21	61	60 - 130	72	60 - 130	<0.05	ug/L		
7843693	Total PCB	2022/02/21	61	60 - 130	72	60 - 130	<0.05	ug/L	NC	40

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).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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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:

Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Bureau Veritas 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.

16-Feb-22 13:51
Ronklin Gracian
C241626

J L ENV-1559

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	BH7	TS																												
2	MW320-22	↓																												
3	MW104-19	↓																												
4	MW1104-19	↓																												
5	MW101-19	↓																												
6																														
7																														
8																														
9																														
10																														

Comments: Except for DISM

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) Tuny Lim

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

16-Feb-22 13:51
Ronklin Gracian
C241626
J_L ENV-1559

Page 1 of 1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	C10247
Attention:	Accounts Payable	Attention:	Spencer Buck	P.O. #:	
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	46372-101
				Project Name:	
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	(905) 639-2552 Ext: 2411 Fax:	Site #:	
Email:	accounting@mte85.com	Email:	sbuck@mte85.com	Sampled By:	ZXT

Bottle Order #: 865081
COC #: C#865081-01-01
Project Manager: Ronklin Gracian

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☒ Res/Park ☐ Medium/Fine; ☐ Table 2 ☐ Ind/Comm ☒ Coarse; ☒ Table 3 ☐ Agri/Other ☒ For RSC; ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw; ☐ Reg 558. ☐ Storm Sewer Bylaw; ☐ MISA Municipality ___; ☐ PWQO ☐ Reg 406 Table ___; ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

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	~~O.Reg 153 VOCs, PHC, F1-F4~~ BTEX PHCs, VOCs	~~O.Reg 153 PHCs, BTEX/F1-F4~~ Metals, As, Se	~~O.Reg 153 Dissolved IOPHC Metals~~ PAHs	~~O.Reg 153 Metals~~ AGNs	~~O.Reg 153 Semivolatiles Pesticide~~ CN	~~Free(WAD) Cyanide~~ PCBs	~~O.Reg 153 PAHs~~ VOCs				# of Bottles	Comments
1		~~MW302-22~~ BH7	22/02/15	12:10	Ground water		X										5	
2		MW320-22	22/02/15	11:00	↓		X					X	X				7	
3		MW104-19 ~~BH1~~	↓	14:15	↓		X	X					X				6	
4		MW104-19 ~~BH4~~		14:15			X	X					X				6	
5		MW101-19 ~~BH7~~		15:00			X	X	X	X	X		X				9	
6		MW309-22 ~~MW101-19~~		16:15			X	X					X				6	
7		MW309-22 ~~MW309-22~~		16:15			X	X					X				6	
8		TRIP BLANK ~~MW103-19~~			Water								X				2	
9		~~MW104-19~~																
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
R. Thomson	22/02/16	13:50		2022/02/16	13:51	

Laboratory Use Only: Time Sensitive; Temperature (°C) on Recei 13/7; Custody Seal Present ☐ Intact ☐; Yes ☐ No ☐

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'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.BVNA.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.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C241626
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

Exceedance Summary Table – Reg153/04 T3-GW-C

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
MW104-19	RWJ012-03	Chloroform	2.4	12	0.20	ug/L
MW1104-19	RWJ013-03	Chloroform	2.4	12	0.20	ug/L

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 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Your Project #: 46372-101
Your C.O.C. #: 865081-02-01

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/02/23
Report #: R7015712
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C241671
Received: 2022/02/16, 13:51

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
1,3-Dichloropropene Sum	1	N/A	2022/02/22		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2022/02/19	2022/02/22	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	1	N/A	2022/02/18	CAM SOP-00447	EPA 6020B m
Volatile Organic Compounds and F1 PHCs	1	N/A	2022/02/19	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas 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 Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas 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 Bureau Veritas, 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 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.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your Project #: 46372-101
Your C.O.C. #: 865081-02-01

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/02/23
Report #: R7015712
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C241671
Received: 2022/02/16, 13:51

Encryption Key

Ronklin Gracian
Project Manager
23 Feb 2022 14:16:47

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752
==========
Bureau Veritas 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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Bureau Veritas Job #: C241671
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (WATER)

Bureau Veritas ID			RWJ214		
Sampling Date			2022/02/16 10:45		
COC Number			865081-02-01		
	UNITS	**Criteria**	**MW103-19**	**RDL**	**QC Batch**
Metals					
Dissolved Antimony (Sb)	ug/L	20000	<0.50	0.50	7839453
Dissolved Arsenic (As)	ug/L	1900	<1.0	1.0	7839453
Dissolved Barium (Ba)	ug/L	29000	100	2.0	7839453
Dissolved Beryllium (Be)	ug/L	67	<0.40	0.40	7839453
Dissolved Boron (B)	ug/L	45000	260	10	7839453
Dissolved Cadmium (Cd)	ug/L	2.7	<0.090	0.090	7839453
Dissolved Chromium (Cr)	ug/L	810	<5.0	5.0	7839453
Dissolved Cobalt (Co)	ug/L	66	<0.50	0.50	7839453
Dissolved Copper (Cu)	ug/L	87	3.5	0.90	7839453
Dissolved Lead (Pb)	ug/L	25	<0.50	0.50	7839453
Dissolved Molybdenum (Mo)	ug/L	9200	8.9	0.50	7839453
Dissolved Nickel (Ni)	ug/L	490	<1.0	1.0	7839453
Dissolved Selenium (Se)	ug/L	63	<2.0	2.0	7839453
Dissolved Silver (Ag)	ug/L	1.5	<0.090	0.090	7839453
Dissolved Thallium (Tl)	ug/L	510	<0.050	0.050	7839453
Dissolved Uranium (U)	ug/L	420	2.3	0.10	7839453
Dissolved Vanadium (V)	ug/L	250	0.82	0.50	7839453
Dissolved Zinc (Zn)	ug/L	1100	<5.0	5.0	7839453

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Non- Potable Ground Water - All Types of Property Uses - Coarse Textured Soil

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Bureau Veritas Job #: C241671
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Bureau Veritas ID			RWJ214		
Sampling Date			2022/02/16 10:45		
COC Number			865081-02-01		
	UNITS	**Criteria**	**MW103-19**	**RDL**	**QC Batch**
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	5.2	<0.50	0.50	7837515
Volatile Organics					
Acetone (2-Propanone)	ug/L	130000	<10	10	7831302
Benzene	ug/L	44	<0.17	0.17	7831302
Bromodichloromethane	ug/L	85000	<0.50	0.50	7831302
Bromoform	ug/L	380	<1.0	1.0	7831302
Bromomethane	ug/L	5.6	<0.50	0.50	7831302
Carbon Tetrachloride	ug/L	0.79	<0.20	0.20	7831302
Chlorobenzene	ug/L	630	<0.20	0.20	7831302
Chloroform	ug/L	2.4	<0.20	0.20	7831302
Dibromochloromethane	ug/L	82000	<0.50	0.50	7831302
1,2-Dichlorobenzene	ug/L	4600	<0.50	0.50	7831302
1,3-Dichlorobenzene	ug/L	9600	<0.50	0.50	7831302
1,4-Dichlorobenzene	ug/L	8	<0.50	0.50	7831302
Dichlorodifluoromethane (FREON 12)	ug/L	4400	<1.0	1.0	7831302
1,1-Dichloroethane	ug/L	320	<0.20	0.20	7831302
1,2-Dichloroethane	ug/L	1.6	<0.50	0.50	7831302
1,1-Dichloroethylene	ug/L	1.6	<0.20	0.20	7831302
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	7831302
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	7831302
1,2-Dichloropropane	ug/L	16	<0.20	0.20	7831302
cis-1,3-Dichloropropene	ug/L	5.2	<0.30	0.30	7831302
trans-1,3-Dichloropropene	ug/L	5.2	<0.40	0.40	7831302
Ethylbenzene	ug/L	2300	<0.20	0.20	7831302
Ethylene Dibromide	ug/L	0.25	<0.20	0.20	7831302
Hexane	ug/L	51	<1.0	1.0	7831302
Methylene Chloride(Dichloromethane)	ug/L	610	<2.0	2.0	7831302

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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Bureau Veritas Job #: C241671
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Bureau Veritas ID			RWJ214		
Sampling Date			2022/02/16 10:45		
COC Number			865081-02-01		
	UNITS	**Criteria**	**MW103-19**	**RDL**	**QC Batch**
Methyl Ethyl Ketone (2-Butanone)	ug/L	470000	<10	10	7831302
Methyl Isobutyl Ketone	ug/L	140000	<5.0	5.0	7831302
Methyl t-butyl ether (MTBE)	ug/L	190	<0.50	0.50	7831302
Styrene	ug/L	1300	<0.50	0.50	7831302
1,1,1,2-Tetrachloroethane	ug/L	3.3	<0.50	0.50	7831302
1,1,2,2-Tetrachloroethane	ug/L	3.2	<0.50	0.50	7831302
Tetrachloroethylene	ug/L	1.6	<0.20	0.20	7831302
Toluene	ug/L	18000	<0.20	0.20	7831302
1,1,1-Trichloroethane	ug/L	640	<0.20	0.20	7831302
1,1,2-Trichloroethane	ug/L	4.7	<0.50	0.50	7831302
Trichloroethylene	ug/L	1.6	<0.20	0.20	7831302
Trichlorofluoromethane (FREON 11)	ug/L	2500	<0.50	0.50	7831302
Vinyl Chloride	ug/L	0.5	<0.20	0.20	7831302
p+m-Xylene	ug/L	-	<0.20	0.20	7831302
o-Xylene	ug/L	-	<0.20	0.20	7831302
Total Xylenes	ug/L	4200	<0.20	0.20	7831302
F1 (C6-C10)	ug/L	750	<25	25	7831302
F1 (C6-C10) - BTEX	ug/L	750	<25	25	7831302
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	150	<100	100	7843131
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	200	7843131
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	200	7843131
Reached Baseline at C50	ug/L	-	Yes		7843131
Surrogate Recovery (%)					
o-Terphenyl	%	-	100		7843131
4-Bromofluorobenzene	%	-	94		7831302
D4-1,2-Dichloroethane	%	-	103		7831302
D8-Toluene	%	-	103		7831302

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Non- Potable Ground Water - All Types of Property Uses - Coarse Textured Soil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C241671
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

TEST SUMMARY

Bureau Veritas ID: RWJ214
Sample ID: MW103-19
Matrix: Water

Collected: 2022/02/16
Shipped:
Received: 2022/02/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7837515	N/A	2022/02/22	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7843131	2022/02/19	2022/02/22	Agnieszka Brzuzy-Snopko
Dissolved Metals by ICPMS	ICP/MS	7839453	N/A	2022/02/18	Nan Raykha
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7831302	N/A	2022/02/19	Xueming Jiang

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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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Bureau Veritas Job #: C241671
Report Date: 2022/02/23

QUALITY ASSURANCE REPORT

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7831302	4-Bromofluorobenzene	2022/02/19	98	70 - 130	96	70 - 130	97	%		
7831302	D4-1,2-Dichloroethane	2022/02/19	105	70 - 130	105	70 - 130	100	%		
7831302	D8-Toluene	2022/02/19	103	70 - 130	102	70 - 130	102	%		
7843131	o-Terphenyl	2022/02/21	101	60 - 130	105	60 - 130	100	%		
7831302	1,1,1,2-Tetrachloroethane	2022/02/19	90	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
7831302	1,1,1-Trichloroethane	2022/02/19	92	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
7831302	1,1,2,2-Tetrachloroethane	2022/02/19	90	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
7831302	1,1,2-Trichloroethane	2022/02/19	98	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
7831302	1,1-Dichloroethane	2022/02/19	87	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
7831302	1,1-Dichloroethylene	2022/02/19	94	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
7831302	1,2-Dichlorobenzene	2022/02/19	92	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
7831302	1,2-Dichloroethane	2022/02/19	92	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
7831302	1,2-Dichloropropane	2022/02/19	88	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
7831302	1,3-Dichlorobenzene	2022/02/19	90	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
7831302	1,4-Dichlorobenzene	2022/02/19	104	70 - 130	107	70 - 130	<0.50	ug/L	NC	30
7831302	Acetone (2-Propanone)	2022/02/19	99	60 - 140	105	60 - 140	<10	ug/L	NC	30
7831302	Benzene	2022/02/19	85	70 - 130	92	70 - 130	<0.17	ug/L	NC	30
7831302	Bromodichloromethane	2022/02/19	90	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
7831302	Bromoform	2022/02/19	83	70 - 130	88	70 - 130	<1.0	ug/L	NC	30
7831302	Bromomethane	2022/02/19	94	60 - 140	99	60 - 140	<0.50	ug/L	NC	30
7831302	Carbon Tetrachloride	2022/02/19	86	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
7831302	Chlorobenzene	2022/02/19	92	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
7831302	Chloroform	2022/02/19	92	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
7831302	cis-1,2-Dichloroethylene	2022/02/19	90	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
7831302	cis-1,3-Dichloropropene	2022/02/19	77	70 - 130	78	70 - 130	<0.30	ug/L	NC	30
7831302	Dibromochloromethane	2022/02/19	88	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
7831302	Dichlorodifluoromethane (FREON 12)	2022/02/19	90	60 - 140	100	60 - 140	<1.0	ug/L	NC	30
7831302	Ethylbenzene	2022/02/19	90	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
7831302	Ethylene Dibromide	2022/02/19	91	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
7831302	F1 (C6-C10) - BTEX	2022/02/19					<25	ug/L	NC	30
7831302	F1 (C6-C10)	2022/02/19	84	60 - 140	94	60 - 140	<25	ug/L	NC	30

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Bureau Veritas Job #: C241671
Report Date: 2022/02/23

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7831302	Hexane	2022/02/19	91	70 - 130	101	70 - 130	<1.0	ug/L	NC	30
7831302	Methyl Ethyl Ketone (2-Butanone)	2022/02/19	100	60 - 140	107	60 - 140	<10	ug/L	NC	30
7831302	Methyl Isobutyl Ketone	2022/02/19	92	70 - 130	99	70 - 130	<5.0	ug/L	NC	30
7831302	Methyl t-butyl ether (MTBE)	2022/02/19	86	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
7831302	Methylene Chloride(Dichloromethane)	2022/02/19	90	70 - 130	97	70 - 130	<2.0	ug/L	NC	30
7831302	o-Xylene	2022/02/19	87	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
7831302	p+m-Xylene	2022/02/19	90	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
7831302	Styrene	2022/02/19	95	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
7831302	Tetrachloroethylene	2022/02/19	86	70 - 130	89	70 - 130	<0.20	ug/L	9.7	30
7831302	Toluene	2022/02/19	86	70 - 130	89	70 - 130	<0.20	ug/L	NC	30
7831302	Total Xylenes	2022/02/19					<0.20	ug/L	NC	30
7831302	trans-1,2-Dichloroethylene	2022/02/19	92	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
7831302	trans-1,3-Dichloropropene	2022/02/19	85	70 - 130	80	70 - 130	<0.40	ug/L	NC	30
7831302	Trichloroethylene	2022/02/19	92	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
7831302	Trichlorofluoromethane (FREON 11)	2022/02/19	101	70 - 130	111	70 - 130	<0.50	ug/L	NC	30
7831302	Vinyl Chloride	2022/02/19	92	70 - 130	101	70 - 130	<0.20	ug/L	NC	30
7839453	Dissolved Antimony (Sb)	2022/02/18	103	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
7839453	Dissolved Arsenic (As)	2022/02/18	97	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
7839453	Dissolved Barium (Ba)	2022/02/18	100	80 - 120	100	80 - 120	<2.0	ug/L	1.8	20
7839453	Dissolved Beryllium (Be)	2022/02/18	102	80 - 120	99	80 - 120	<0.40	ug/L	NC	20
7839453	Dissolved Boron (B)	2022/02/18	99	80 - 120	91	80 - 120	<10	ug/L	4.1	20
7839453	Dissolved Cadmium (Cd)	2022/02/18	98	80 - 120	97	80 - 120	<0.090	ug/L	NC	20
7839453	Dissolved Chromium (Cr)	2022/02/18	95	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
7839453	Dissolved Cobalt (Co)	2022/02/18	94	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
7839453	Dissolved Copper (Cu)	2022/02/18	101	80 - 120	100	80 - 120	<0.90	ug/L	NC	20
7839453	Dissolved Lead (Pb)	2022/02/18	94	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
7839453	Dissolved Molybdenum (Mo)	2022/02/18	106	80 - 120	102	80 - 120	<0.50	ug/L	1.5	20
7839453	Dissolved Nickel (Ni)	2022/02/18	90	80 - 120	95	80 - 120	<1.0	ug/L	NC	20
7839453	Dissolved Selenium (Se)	2022/02/18	97	80 - 120	100	80 - 120	<2.0	ug/L	NC	20
7839453	Dissolved Silver (Ag)	2022/02/18	98	80 - 120	102	80 - 120	<0.090	ug/L	NC	20
7839453	Dissolved Thallium (Tl)	2022/02/18	98	80 - 120	102	80 - 120	<0.050	ug/L	NC	20

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C241671
Report Date: 2022/02/23

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7839453	Dissolved Uranium (U)	2022/02/18	95	80 - 120	98	80 - 120	<0.10	ug/L	0.82	20
7839453	Dissolved Vanadium (V)	2022/02/18	99	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
7839453	Dissolved Zinc (Zn)	2022/02/18	93	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
7843131	F2 (C10-C16 Hydrocarbons)	2022/02/21	96	60 - 130	104	60 - 130	<100	ug/L	NC	30
7843131	F3 (C16-C34 Hydrocarbons)	2022/02/21	96	60 - 130	105	60 - 130	<200	ug/L	NC	30
7843131	F4 (C34-C50 Hydrocarbons)	2022/02/21	96	60 - 130	104	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.

Bureau Veritas Job #: C241671
Report Date: 2022/02/23

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Bureau Veritas 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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Bureau Veritas
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16-Feb-22 13:51
Ronklin Gracian
C241671
J L ENV-1559

~~Page 2 of 2~~ 1/1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	C10247
Attention:	Accounts Payable	Attention:	Spencer Buck	P.O. #:	
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	46372-101
				Project Name:	
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	(905) 639-2552 Ext: 2411 Fax:	Site #:	
Email:	accounting@mte85.com	Email:	sbuck@mte85.com	Sampled By:	ZxT

Bottle Order #: 865081
COC #: C#865081-02-01
Project Manager: Ronklin Gracian

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☒ Res/Park ☐ Medium/Fine; ☐ Table 2 ☐ Ind/Comm ☒ Coarse; ☒ Table 3 ☐ Agri/Other ☒ For RSC; ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw; ☐ Reg 558. ☐ Storm Sewer Bylaw; ☐ MISA Municipality ___; ☐ PWQO ☐ Reg 406 Table ___; ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

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 & PT-FT4~~ PHCs, VOCs	~~O.Reg 153 PHCs, BTEX/F1-F4~~ Metals, As, Sb, Se	~~O.Reg 153 Dissolved HCPAS Metals~~	O.Reg 153 PCBs	O.Reg 153 Semivolatiles Percentage	~~Free (WAD) Cyanide~~	O.Reg 153 PAHs				# of Bottles	Comments
1		MW103-19	22/02/16	10:45	Ground water		X	X									6	
2		~~MW302-22~~																
3		~~MW101-19~~																
4		~~MW309-22~~																
5		~~MW103-19~~																
6		MW104-19																
7																		
8																		
9		~~MW320-22~~																
10		MW101-19																

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Z. Thomson	22/02/16	18:50			1351	

Laboratory Use Only: Time Sensitive; Temperature (°C) on Recei 2/3/2; Custody Seal Present / Intact: Yes ✓ No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'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.BVNA.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.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Exceedance Summary Table – Reg153/04 T3-GW-C

Result Exceedances

Sample ID	Bureau Veritas 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.

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Your Project #: 46372-101
Your C.O.C. #: 857658-02-01

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/02/28
Report #: R7022420
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C247970
Received: 2022/02/23, 13:39

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
1,3-Dichloropropene Sum	1	N/A	2022/02/28		EPA 8260C m
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2022/02/24	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	2	2022/02/25	2022/02/26	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	1	N/A	2022/02/24	CAM SOP-00447	EPA 6020B m
Volatile Organic Compounds and F1 PHCs	1	N/A	2022/02/25	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas 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 Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas 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 Bureau Veritas, 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 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.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your Project #: 46372-101
Your C.O.C. #: 857658-02-01

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/02/28
Report #: R7022420
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C247970
Received: 2022/02/23, 13:39

Encryption Key

Ronklin Gracian
Project Manager
28 Feb 2022 17:20:15

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752
==========
Bureau Veritas 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 Job #: C247970
Report Date: 2022/02/28

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZXT

O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (WATER)

Bureau Veritas ID		RXS325		
Sampling Date		2022/02/23 11:15		
COC Number		857658-02-01		
	UNITS	**MW302-22**	**RDL**	**QC Batch**
Metals				
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7848858
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7848858
Dissolved Barium (Ba)	ug/L	140	2.0	7848858
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7848858
Dissolved Boron (B)	ug/L	75	10	7848858
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7848858
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7848858
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7848858
Dissolved Copper (Cu)	ug/L	4.5	0.90	7848858
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7848858
Dissolved Molybdenum (Mo)	ug/L	0.72	0.50	7848858
Dissolved Nickel (Ni)	ug/L	1.3	1.0	7848858
Dissolved Selenium (Se)	ug/L	2.9	2.0	7848858
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7848858
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7848858
Dissolved Uranium (U)	ug/L	2.9	0.10	7848858
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7848858
Dissolved Zinc (Zn)	ug/L	15	5.0	7848858

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C247970
Report Date: 2022/02/28

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZXT

O.REG 153 PHCS, BTEX/F1-F4 (WATER)

Bureau Veritas ID		RXS324		
Sampling Date		2022/02/23 12:30		
COC Number		857658-02-01		
	UNITS	**BH1**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	7848919
Toluene	ug/L	<0.20	0.20	7848919
Ethylbenzene	ug/L	<0.20	0.20	7848919
o-Xylene	ug/L	<0.20	0.20	7848919
p+m-Xylene	ug/L	<0.40	0.40	7848919
Total Xylenes	ug/L	<0.40	0.40	7848919
F1 (C6-C10)	ug/L	<25	25	7848919
F1 (C6-C10) - BTEX	ug/L	<25	25	7848919
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7853497
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	7853497
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7853497
Reached Baseline at C50	ug/L	Yes		7853497
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	106		7848919
4-Bromofluorobenzene	%	89		7848919
D10-o-Xylene	%	102		7848919
D4-1,2-Dichloroethane	%	104		7848919
o-Terphenyl	%	103		7853497

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C247970
Report Date: 2022/02/28

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZXT

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Bureau Veritas ID		RXS325		
Sampling Date		2022/02/23 11:15		
COC Number		857658-02-01		
	UNITS	**MW302-22**	**RDL**	**QC Batch**
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	7846753
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	7843714
Benzene	ug/L	<0.17	0.17	7843714
Bromodichloromethane	ug/L	<0.50	0.50	7843714
Bromoform	ug/L	<1.0	1.0	7843714
Bromomethane	ug/L	<0.50	0.50	7843714
Carbon Tetrachloride	ug/L	<0.20	0.20	7843714
Chlorobenzene	ug/L	<0.20	0.20	7843714
Chloroform	ug/L	<0.20	0.20	7843714
Dibromochloromethane	ug/L	<0.50	0.50	7843714
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7843714
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7843714
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7843714
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	7843714
1,1-Dichloroethane	ug/L	<0.20	0.20	7843714
1,2-Dichloroethane	ug/L	<0.50	0.50	7843714
1,1-Dichloroethylene	ug/L	<0.20	0.20	7843714
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	7843714
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	7843714
1,2-Dichloropropane	ug/L	<0.20	0.20	7843714
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	7843714
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	7843714
Ethylbenzene	ug/L	<0.20	0.20	7843714
Ethylene Dibromide	ug/L	<0.20	0.20	7843714
Hexane	ug/L	<1.0	1.0	7843714
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	7843714
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	7843714
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7843714
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	7843714
Styrene	ug/L	<0.50	0.50	7843714

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C247970
Report Date: 2022/02/28

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZXT

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Bureau Veritas ID		RXS325		
Sampling Date		2022/02/23 11:15		
COC Number		857658-02-01		
	UNITS	**MW302-22**	**RDL**	**QC Batch**
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	7843714
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	7843714
Tetrachloroethylene	ug/L	<0.20	0.20	7843714
Toluene	ug/L	<0.20	0.20	7843714
1,1,1-Trichloroethane	ug/L	<0.20	0.20	7843714
1,1,2-Trichloroethane	ug/L	<0.50	0.50	7843714
Trichloroethylene	ug/L	<0.20	0.20	7843714
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	7843714
Vinyl Chloride	ug/L	<0.20	0.20	7843714
p+m-Xylene	ug/L	<0.20	0.20	7843714
o-Xylene	ug/L	<0.20	0.20	7843714
Total Xylenes	ug/L	<0.20	0.20	7843714
F1 (C6-C10)	ug/L	<25	25	7843714
F1 (C6-C10) - BTEX	ug/L	<25	25	7843714
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7853497
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	7853497
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7853497
Reached Baseline at C50	ug/L	Yes		7853497
Surrogate Recovery (%)				
o-Terphenyl	%	103		7853497
4-Bromofluorobenzene	%	93		7843714
D4-1,2-Dichloroethane	%	115		7843714
D8-Toluene	%	99		7843714

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C247970
Report Date: 2022/02/28

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZXT

TEST SUMMARY

Bureau Veritas ID: RXS324
Sample ID: BH1
Matrix: Water

Collected: 2022/02/23
Shipped:
Received: 2022/02/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7848919	N/A	2022/02/24	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7853497	2022/02/25	2022/02/26	Agnieszka Brzuzy-Snopko

Bureau Veritas ID: RXS325
Sample ID: MW302-22
Matrix: Water

Collected: 2022/02/23
Shipped:
Received: 2022/02/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7846753	N/A	2022/02/28	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7853497	2022/02/25	2022/02/26	Agnieszka Brzuzy-Snopko
Dissolved Metals by ICPMS	ICP/MS	7848858	N/A	2022/02/24	Daniel Teclu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7843714	N/A	2022/02/25	Xueming Jiang

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	7.0°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.

Bureau Veritas Job #: C247970
Report Date: 2022/02/28

QUALITY ASSURANCE REPORT

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZXT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7843714	4-Bromofluorobenzene	2022/02/25	95	70 - 130	95	70 - 130	92	%		
7843714	D4-1,2-Dichloroethane	2022/02/25	117	70 - 130	113	70 - 130	115	%		
7843714	D8-Toluene	2022/02/25	102	70 - 130	103	70 - 130	99	%		
7848919	1,4-Difluorobenzene	2022/02/23	92	70 - 130	99	70 - 130	107	%		
7848919	4-Bromofluorobenzene	2022/02/23	114	70 - 130	103	70 - 130	92	%		
7848919	D10-o-Xylene	2022/02/23	108	70 - 130	107	70 - 130	106	%		
7848919	D4-1,2-Dichloroethane	2022/02/23	89	70 - 130	93	70 - 130	102	%		
7853497	o-Terphenyl	2022/02/25	105	60 - 130	105	60 - 130	106	%		
7843714	1,1,1,2-Tetrachloroethane	2022/02/25	92	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
7843714	1,1,1-Trichloroethane	2022/02/25	96	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
7843714	1,1,2,2-Tetrachloroethane	2022/02/25	97	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
7843714	1,1,2-Trichloroethane	2022/02/25	112	70 - 130	110	70 - 130	<0.50	ug/L	NC	30
7843714	1,1-Dichloroethane	2022/02/25	93	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
7843714	1,1-Dichloroethylene	2022/02/25	100	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
7843714	1,2-Dichlorobenzene	2022/02/25	93	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
7843714	1,2-Dichloroethane	2022/02/25	105	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
7843714	1,2-Dichloropropane	2022/02/25	91	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
7843714	1,3-Dichlorobenzene	2022/02/25	91	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
7843714	1,4-Dichlorobenzene	2022/02/25	105	70 - 130	108	70 - 130	<0.50	ug/L	NC	30
7843714	Acetone (2-Propanone)	2022/02/25	107	60 - 140	103	60 - 140	<10	ug/L	2.5	30
7843714	Benzene	2022/02/25	89	70 - 130	91	70 - 130	<0.17	ug/L	NC	30
7843714	Bromodichloromethane	2022/02/25	98	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
7843714	Bromoform	2022/02/25	88	70 - 130	86	70 - 130	<1.0	ug/L	NC	30
7843714	Bromomethane	2022/02/25	105	60 - 140	105	60 - 140	<0.50	ug/L	NC	30
7843714	Carbon Tetrachloride	2022/02/25	91	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
7843714	Chlorobenzene	2022/02/25	95	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
7843714	Chloroform	2022/02/25	100	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
7843714	cis-1,2-Dichloroethylene	2022/02/25	95	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
7843714	cis-1,3-Dichloropropene	2022/02/25	85	70 - 130	84	70 - 130	<0.30	ug/L	NC	30
7843714	Dibromochloromethane	2022/02/25	92	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
7843714	Dichlorodifluoromethane (FREON 12)	2022/02/25	85	60 - 140	91	60 - 140	<1.0	ug/L	NC	30

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C247970
Report Date: 2022/02/28

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZXT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7843714	Ethylbenzene	2022/02/25	87	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
7843714	Ethylene Dibromide	2022/02/25	94	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
7843714	F1 (C6-C10) - BTEX	2022/02/25					<25	ug/L	NC	30
7843714	F1 (C6-C10)	2022/02/25	80	60 - 140	96	60 - 140	<25	ug/L	NC	30
7843714	Hexane	2022/02/25	96	70 - 130	100	70 - 130	<1.0	ug/L	NC	30
7843714	Methyl Ethyl Ketone (2-Butanone)	2022/02/25	104	60 - 140	99	60 - 140	<10	ug/L	NC	30
7843714	Methyl Isobutyl Ketone	2022/02/25	93	70 - 130	90	70 - 130	<5.0	ug/L	NC	30
7843714	Methyl t-butyl ether (MTBE)	2022/02/25	85	70 - 130	87	70 - 130	<0.50	ug/L	NC	30
7843714	Methylene Chloride(Dichloromethane)	2022/02/25	98	70 - 130	97	70 - 130	<2.0	ug/L	NC	30
7843714	o-Xylene	2022/02/25	85	70 - 130	88	70 - 130	<0.20	ug/L	NC	30
7843714	p+m-Xylene	2022/02/25	87	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
7843714	Styrene	2022/02/25	90	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
7843714	Tetrachloroethylene	2022/02/25	88	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
7843714	Toluene	2022/02/25	87	70 - 130	90	70 - 130	<0.20	ug/L	3.3	30
7843714	Total Xylenes	2022/02/25					<0.20	ug/L	NC	30
7843714	trans-1,2-Dichloroethylene	2022/02/25	99	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
7843714	trans-1,3-Dichloropropene	2022/02/25	102	70 - 130	95	70 - 130	<0.40	ug/L	NC	30
7843714	Trichloroethylene	2022/02/25	95	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
7843714	Trichlorofluoromethane (FREON 11)	2022/02/25	108	70 - 130	114	70 - 130	<0.50	ug/L	NC	30
7843714	Vinyl Chloride	2022/02/25	89	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
7848858	Dissolved Antimony (Sb)	2022/02/24	102	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
7848858	Dissolved Arsenic (As)	2022/02/24	95	80 - 120	95	80 - 120	<1.0	ug/L	6.3	20
7848858	Dissolved Barium (Ba)	2022/02/24	97	80 - 120	99	80 - 120	<2.0	ug/L	0.63	20
7848858	Dissolved Beryllium (Be)	2022/02/24	99	80 - 120	99	80 - 120	<0.40	ug/L	NC	20
7848858	Dissolved Boron (B)	2022/02/24	98	80 - 120	99	80 - 120	<10	ug/L	0.32	20
7848858	Dissolved Cadmium (Cd)	2022/02/24	98	80 - 120	98	80 - 120	<0.090	ug/L	NC	20
7848858	Dissolved Chromium (Cr)	2022/02/24	93	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
7848858	Dissolved Cobalt (Co)	2022/02/24	91	80 - 120	93	80 - 120	<0.50	ug/L	1.1	20
7848858	Dissolved Copper (Cu)	2022/02/24	94	80 - 120	94	80 - 120	<0.90	ug/L	NC	20
7848858	Dissolved Lead (Pb)	2022/02/24	91	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
7848858	Dissolved Molybdenum (Mo)	2022/02/24	99	80 - 120	97	80 - 120	<0.50	ug/L	1.3	20

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C247970
Report Date: 2022/02/28

QUALITY ASSURANCE REPORT(CONT'D)

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZXT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7848858	Dissolved Nickel (Ni)	2022/02/24	88	80 - 120	94	80 - 120	<1.0	ug/L	9.7	20
7848858	Dissolved Selenium (Se)	2022/02/24	96	80 - 120	98	80 - 120	<2.0	ug/L	NC	20
7848858	Dissolved Silver (Ag)	2022/02/24	87	80 - 120	95	80 - 120	<0.090	ug/L	NC	20
7848858	Dissolved Thallium (Tl)	2022/02/24	89	80 - 120	93	80 - 120	<0.050	ug/L	NC	20
7848858	Dissolved Uranium (U)	2022/02/24	93	80 - 120	96	80 - 120	<0.10	ug/L	3.8	20
7848858	Dissolved Vanadium (V)	2022/02/24	94	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
7848858	Dissolved Zinc (Zn)	2022/02/24	89	80 - 120	93	80 - 120	<5.0	ug/L	2.5	20
7848919	Benzene	2022/02/24	105	50 - 140	102	50 - 140	<0.20	ug/L	3.9	30
7848919	Ethylbenzene	2022/02/24	131	50 - 140	115	50 - 140	<0.20	ug/L	5.2	30
7848919	F1 (C6-C10) - BTEX	2022/02/24					<25	ug/L	3.5	30
7848919	F1 (C6-C10)	2022/02/24	102	60 - 140	95	60 - 140	<25	ug/L	4.2	30
7848919	o-Xylene	2022/02/24	125	50 - 140	112	50 - 140	<0.20	ug/L	4.4	30
7848919	p+m-Xylene	2022/02/24	129	50 - 140	112	50 - 140	<0.40	ug/L	4.3	30
7848919	Toluene	2022/02/24	102	50 - 140	99	50 - 140	<0.20	ug/L	4.7	30
7848919	Total Xylenes	2022/02/24					<0.40	ug/L	4.3	30
7853497	F2 (C10-C16 Hydrocarbons)	2022/02/26	101	60 - 130	101	60 - 130	<100	ug/L	NC	30
7853497	F3 (C16-C34 Hydrocarbons)	2022/02/26	102	60 - 130	104	60 - 130	<200	ug/L	NC	30
7853497	F4 (C34-C50 Hydrocarbons)	2022/02/26	101	60 - 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).

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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:

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

Bureau Veritas 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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Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	B90004	Bureau Veritas Job #:	Bottle Order #: 857658
Attention:	Accounts Payable	Attention:	Spencer Buck	P.O. #:			
Address:	520 Bingemans Centre Dr, Kitchener ON N2B 3X9	Address:		Project:	~~49886-100~~ 46372-101	COC #:	Project Manager:
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	(905) 639-2552 Ext: 2411 Fax:	Project Name:		C#857658-02-01	Ronklin Gracian
Email:	accounting@mte85.com	Email:	sbuck@mte85.com	Site #:			
				Sampled By:	CXT		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS 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 ☐ Reg 406 Table ____	
	☐ Other ____	

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: ☒
(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 Metals Scan 1,2,3 and 1,2,3 (Soil)~~ Metals, As, Se, Sn	~~O.Reg 153 OC Pesticides (Soil) (excluding PCBs)~~ PHCs, BTEX	~~O.Reg 153 PHCs+VOCs~~ VOCs							# of Bottles	Comments
1		BH1	22/02/23	12:30	Ground water			X								5	
2		MW302-22	22/02/23	11:15	↓		X	X	X							6	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

23-Feb-22 13:39
Ronklin Gracian
C247970
ATM ENV-1579

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
Z. Thomson	22/02/23	13:35	MMM	23/02/23	1329			7/7/7	Present	✓	
									Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'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.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 BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: 46372-101
Your C.O.C. #: 832991-02-01

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/03/17
Report #: R7047660
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C267739
Received: 2022/03/15, 14:52

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2022/03/17	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2022/03/16	2022/03/17	CAM SOP-00316	CCME PHC-CWS m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas 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 Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas 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 Bureau Veritas, 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 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.

Bureau Veritas 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.

Your Project #: 46372-101
Your C.O.C. #: 832991-02-01

Attention: Spencer Buck

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/03/17
Report #: R7047660
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C267739
Received: 2022/03/15, 14:52

Encryption Key

Ronklin Gracian
Project Manager
17 Mar 2022 17:29:29

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752
==========
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For Service Group specific validation please refer to the Validation Signature Page.

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Bureau Veritas Job #: C267739
Report Date: 2022/03/17

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

O.REG 153 PHCS, BTEX/F1-F4 (WATER)

Bureau Veritas ID			SCC205			SCC205		
Sampling Date			2022/03/15 13:45			2022/03/15 13:45		
COC Number			832991-02-01			832991-02-01		
	UNITS	**Criteria**	**BH4**	**RDL**	**QC Batch**	**BH4 Lab-Dup**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons								
Benzene	ug/L	44	<0.20	0.20	7887224			
Toluene	ug/L	18000	<0.20	0.20	7887224			
Ethylbenzene	ug/L	2300	<0.20	0.20	7887224			
o-Xylene	ug/L	-	<0.20	0.20	7887224			
p+m-Xylene	ug/L	-	<0.40	0.40	7887224			
Total Xylenes	ug/L	4200	<0.40	0.40	7887224			
F1 (C6-C10)	ug/L	750	<25	25	7887224			
F1 (C6-C10) - BTEX	ug/L	750	<25	25	7887224			
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	150	<100	100	7886113	<100	100	7886113
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	200	7886113	<200	200	7886113
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	200	7886113	<200	200	7886113
Reached Baseline at C50	ug/L	-	Yes		7886113	Yes		7886113
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	-	103		7887224			
4-Bromofluorobenzene	%	-	93		7887224			
D10-o-Xylene	%	-	89		7887224			
D4-1,2-Dichloroethane	%	-	97		7887224			
o-Terphenyl	%	-	104		7886113	103		7886113

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Non- Potable Ground Water - All Types of Property Uses - Coarse Textured Soil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C267739
Report Date: 2022/03/17

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

TEST SUMMARY

Bureau Veritas ID: SCC205
Sample ID: BH4
Matrix: Water

Collected: 2022/03/15
Shipped:
Received: 2022/03/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7887224	N/A	2022/03/17	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7886113	2022/03/16	2022/03/17	Agnieszka Brzuzy-Snopko

Bureau Veritas ID: SCC205 Dup
Sample ID: BH4
Matrix: Water

Collected: 2022/03/15
Shipped:
Received: 2022/03/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7886113	2022/03/16	2022/03/17	Agnieszka Brzuzy-Snopko

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	6.0°C

Results relate only to the items tested.

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Bureau Veritas Job #: C267739
Report Date: 2022/03/17

QUALITY ASSURANCE REPORT

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7886113	o-Terphenyl	2022/03/17	105	60 - 130	105	60 - 130	106	%		
7887224	1,4-Difluorobenzene	2022/03/16	95	70 - 130	95	70 - 130	99	%		
7887224	4-Bromofluorobenzene	2022/03/16	105	70 - 130	107	70 - 130	88	%		
7887224	D10-o-Xylene	2022/03/16	96	70 - 130	95	70 - 130	84	%		
7887224	D4-1,2-Dichloroethane	2022/03/16	92	70 - 130	92	70 - 130	94	%		
7886113	F2 (C10-C16 Hydrocarbons)	2022/03/17	101	60 - 130	103	60 - 130	<100	ug/L	NC	30
7886113	F3 (C16-C34 Hydrocarbons)	2022/03/17	102	60 - 130	103	60 - 130	<200	ug/L	NC	30
7886113	F4 (C34-C50 Hydrocarbons)	2022/03/17	103	60 - 130	104	60 - 130	<200	ug/L	NC	30
7887224	Benzene	2022/03/17	96	50 - 140	97	50 - 140	<0.20	ug/L	NC	30
7887224	Ethylbenzene	2022/03/17	108	50 - 140	111	50 - 140	<0.20	ug/L	NC	30
7887224	F1 (C6-C10) - BTEX	2022/03/17					<25	ug/L	NC	30
7887224	F1 (C6-C10)	2022/03/17	91	60 - 140	91	60 - 140	<25	ug/L	NC	30
7887224	o-Xylene	2022/03/17	106	50 - 140	108	50 - 140	<0.20	ug/L	NC	30
7887224	p+m-Xylene	2022/03/17	110	50 - 140	112	50 - 140	<0.40	ug/L	NC	30
7887224	Toluene	2022/03/17	96	50 - 140	98	50 - 140	<0.20	ug/L	NC	30
7887224	Total Xylenes	2022/03/17					<0.40	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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Bureau Veritas Job #: C267739
Report Date: 2022/03/17

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Bureau Veritas Laboratories
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CHAI

Page 1 of 1

15-Mar-22 14:52
Ronklin Gracian
C267739
SPL ENV-1437
C#832991-02-01

Order #: 991
Manager: Ronklin Gracian

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#6868 MTE Consultants Inc	Company Name:	MTE	Quotation #:	B90004
Attention:	Accounts Payable	Attention:	Spencer Buck	P.O. #:	
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	~~49312-100~~ 46372-101
				Project Name:	
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Site #:	
Email:	accounting@mte85.com	Email:	sbuck@mte85.com	Sampled By:	ZXT

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 ☐ Medium/Fine; ☐ Table 2 ☐ Ind/Comm ☐ Coarse; ☒ Table 3 ☐ Agri/Other ☒ For RSC; ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw; ☐ Reg 558. ☐ Storm Sewer Bylaw; ☐ MISA Municipality ___; ☐ PWQO ☐ Reg 406 Table ___; ☐ 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: ☒
(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 & F1-F4	O.Reg 153 Dissolved ICPMS Metals (Water)	PHCs, BTEX							# of Bottles	Comments
1		BH4	22/03/15	13:45	GW				X							5	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Z. Thomson	22/03/15	14:50	Pujit Prabhjot	22/03/15	14:52	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	6/6/6	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.

Bureau Veritas Job #: C267739
Report Date: 2022/03/17

MTE Consultants Inc
Client Project #: 46372-101
Sampler Initials: ZT

Exceedance Summary Table – Reg153/04 T3-GW-C

Result Exceedances

Sample ID	Bureau Veritas 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.

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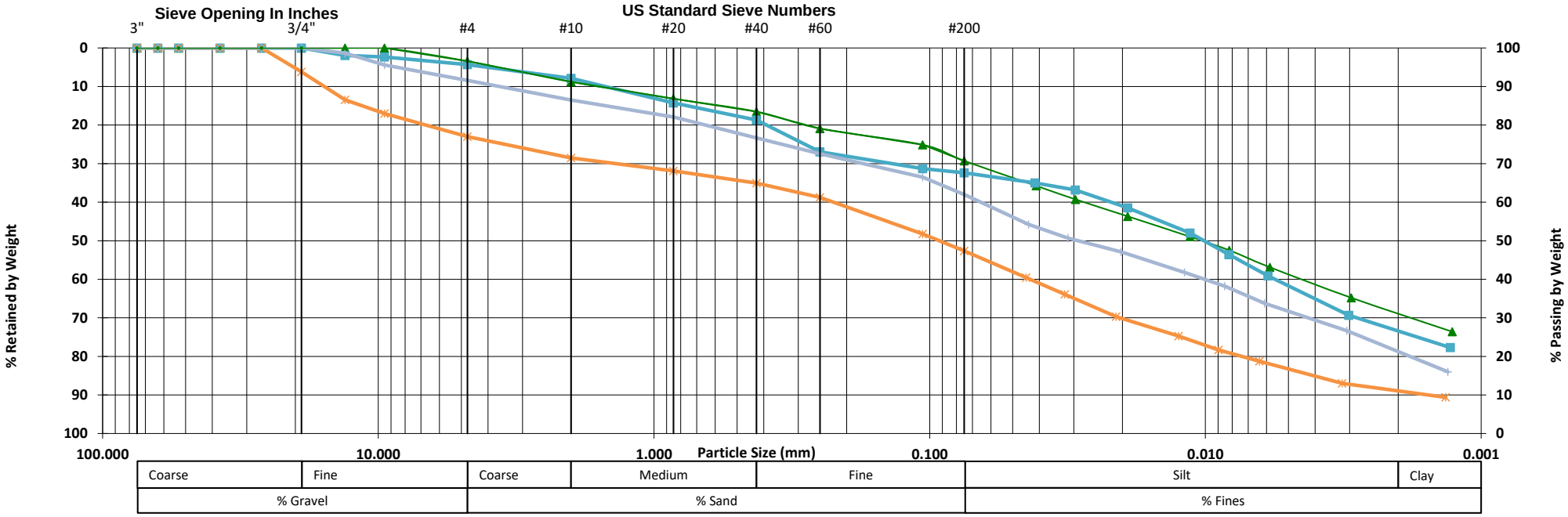
Particle Size Distribution Analysis Test Results

Project Name: 18-24 & 28 Elizabeth St North; 31-33 George St North
Client: Greenwin Corp.
Project Location: Brampton, ON

Date Sampled: Jan. 4-19, 2022
Date Tested: Mar. 4-9, 2022

MTE File No.: 46372-301
Table No.: 101

Unified Soil Classification



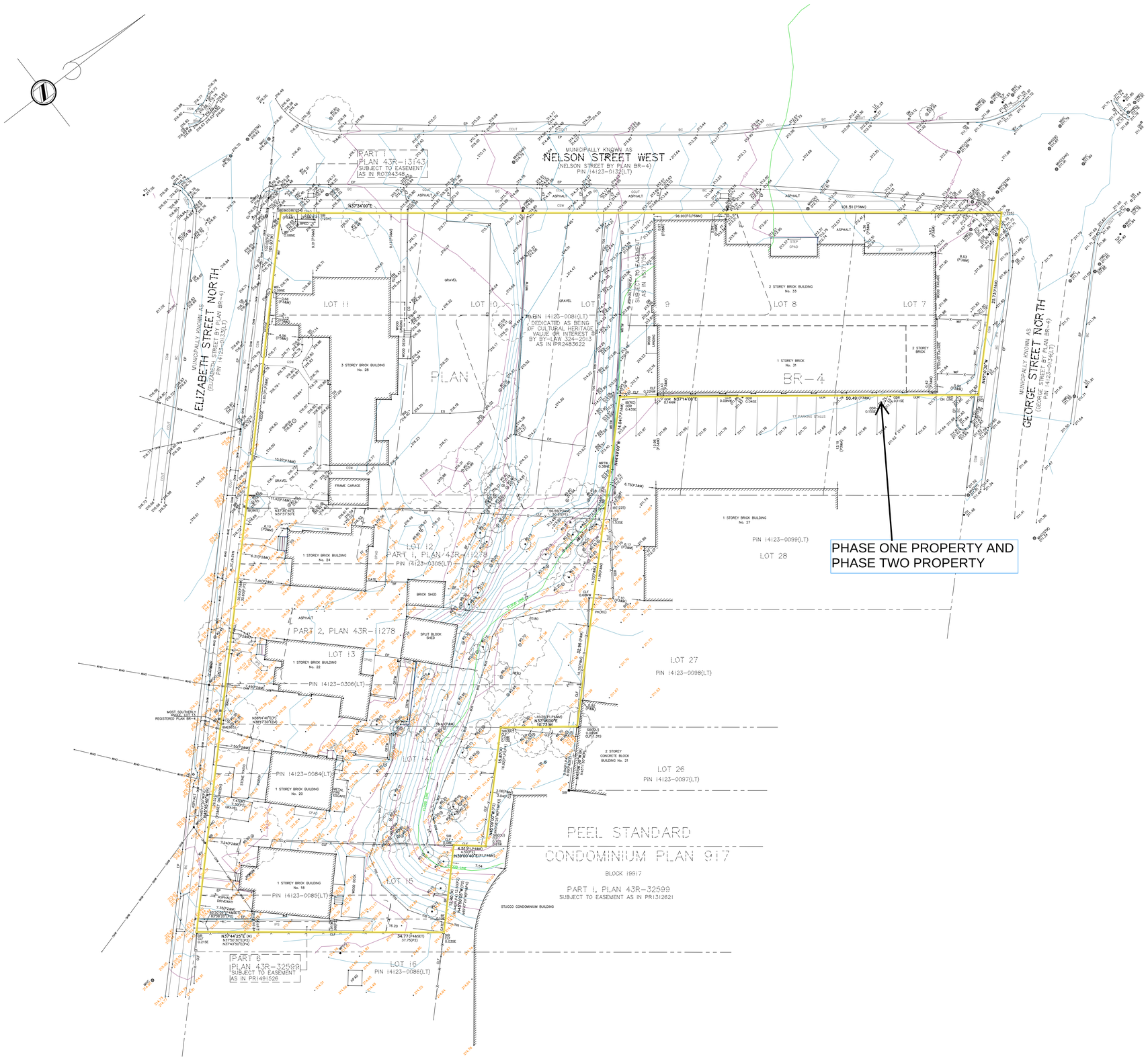
Symbol	Borehole ID	Sample #	Sample Depth	Description
▲	MW302-22	SS-6	4.6-5.2 mbgs	Clayey Sandy SILT, trace Gravel
■	MW309-22	SS-7	6.1-6.7 mbgs	Sandy Clayey SILT, trace Gravel
✳	MW314-22	SS-6	4.6-5.2 mbgs	Sandy Gravelly SILT, some Clay
+	MW320-22	SS-9	9.1-9.8 mbgs	Sandy Clayey SILT, trace Gravel

CERTIFIED BY CCIL
Canadian Council of Independent Laboratories
For specific tests as listed on www.ccil.com

NOTES:

Appendix A4

Survey of Phase Two Property



SURVEYOR'S REAL PROPERTY REPORT
PART 1, PLAN OF
LOTS 10, 11 AND PART OF LOTS 7, 8 AND 9 SOUTH OF NELSON STREET LOTS 12, 13 AND PART OF LOTS 14 AND 15 EAST OF ELIZABETH STREET PART OF BLOCK 2 REGISTERED PLAN BR-4
CITY OF BRAMPTON
REGIONAL MUNICIPALITY OF PEEL

SCALE 1: 200

5 0 5 10 15 20 metres

David B. Searles Surveying Ltd.
ONTARIO LAND SURVEYORS

METRIC

DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

LEGEND

■	DENOTES	MONUMENT FOUND
○	DENOTES	MONUMENT SET
CC	DENOTES	CUT CROSS
IB	DENOTES	CONCRETE PIN
CP	DENOTES	IRON BAR
IB#	DENOTES	ROUND IRON BAR
SIB	DENOTES	STANDARD IRON BAR
SSIB	DENOTES	SHORT STANDARD IRON BAR
OU	DENOTES	ORIGIN UNKNOWN
PSI	DENOTES	POINT SET BY INTERSECTION
1055	DENOTES	ROBERT J. ADSETT, CLDESIGNORL, O.L.S.
869	DENOTES	SCOTT A. MILLER, O.L.S.
1254	DENOTES	D. G. CLIPSHAM LIMITED, O.L.S.
1225	DENOTES	DAVID B. SEARLES SURVEYING LTD, O.L.S.
M	DENOTES	MEASURED
P	DENOTES	PLAN 43R-11278
P1	DENOTES	PEEL STANDARD CONDOMINIUM PLAN 917
P2	DENOTES	SURVEYOR'S REAL PROPERTY REPORT BY VLADIMIR DOSEN SURVEYING, O.L.S., DATED SEPTEMBER 8, 2016
P3	DENOTES	SURVEYOR' REAL PROPERTY REPORT BY DAVID B. SEARLES SURVEYING, LTD., DATED FEBRUARY 25, 2020. (FILE: 79-0-19)
P4	DENOTES	PLAN 43R-32599
P5	DENOTES	PLAN 43R-13143
ANC	DENOTES	ANCHOR
BB	DENOTES	BELL BOX
BC	DENOTES	BACK OF CURB
BF	DENOTES	BOARD FENCE
BOL	DENOTES	BOLLARD
BPED	DENOTES	BELL PEDESTAL
CB	DENOTES	CATCH BASIN
CCUT	DENOTES	CURB CUT
CLF	DENOTES	CHAIN LINK FENCE
CPAD	DENOTES	CONCRETE PAD
CRTW	DENOTES	CONCRETE RETAINING WALL
CWALK	DENOTES	CONCRETE WALK
DS	DENOTES	DOOR SILL
EG	DENOTES	EDGE OF GRAVEL
EP	DENOTES	EDGE OF PAVEMENT
FF	DENOTES	FINISHED FLOOR
FH	DENOTES	FIRE HYDRANT
FO	DENOTES	FIBRE OPTIC
GDR	DENOTES	GUARDRAIL
GM	DENOTES	GAS METER
GV	DENOTES	GAS VALVE
HWELL	DENOTES	HANDWELL
HPAD	DENOTES	HYDRO PAD
IPS	DENOTES	INTERLOCKING PAVING STONES
LS	DENOTES	LIGHT STANDARD
MHC	DENOTES	MAINTENANCE HOLE COVER
MHC(B)	DENOTES	MAINTENANCE HOLE COVER (BELL)
MHC(H)	DENOTES	MAINTENANCE HOLE COVER (HYDRO)
MHC(SAN)	DENOTES	MAINTENANCE HOLE COVER (SANITARY)
MHC(STM)	DENOTES	MAINTENANCE HOLE COVER (STORM)
MB	DENOTES	MAILBOX
PM	DENOTES	PARKING METER
SP	DENOTES	SIGN POST
TLCB	DENOTES	TRAFFIC LIGHT CONTROL BOX
TLP	DENOTES	TRAFFIC LIGHT POLE
WIF	DENOTES	WROUGHT IRON FENCE
WRTW	DENOTES	WOODEN RETAINING WALL
WP(H/LS)	DENOTES	WOODEN POLE (HYDRO) WITH LIGHT STANDARD
WS	DENOTES	WOODEN STEPS
WV	DENOTES	WATER VALVE
#	DENOTES	DIAMETER
—TOS—	DENOTES	TOP OF SLOPE
—OHW—	DENOTES	OVERHEAD WIRES
⊛	DENOTES	CONIFEROUS TREE
⊛	DENOTES	DECIDUOUS TREE

BEARING NOTE

BEARINGS ARE GRID BEARINGS DERIVED FROM GPS OBSERVATIONS USING THE SMARTNET NETWORK AND ARE REFERRED TO THE CENTRAL MERIDIAN OF UTM ZONE 17 (81°00' WEST), NAD83 (CSRS 2010).

BEARINGS ON PLAN 43R-11278 (P), HAVE BEEN ROTATED 0°51'00" COUNTERCLOCKWISE TO MAKE COMPARISONS.

BEARINGS ON PEEL STANDARD CONDOMINIUM PLAN 979 (P1) AND PLAN 43R-32599 (P4) HAVE BEEN ROTATED 00°47'20" COUNTERCLOCKWISE TO MAKE COMPARISONS.

DISTANCE NOTE

DISTANCES SHOWN HEREON ARE GROUND DISTANCES AND CAN BE CONVERTED TO GRID DISTANCES BY MULTIPLYING BY A COMBINED SCALE FACTOR OF 0.999695.

BENCHMARK NOTE

ELEVATIONS ARE REFERRED TO THE CITY OF BRAMPTON BENCHMARK No. 55, BEING ON THE ROYAL BANK BUILDING, NORTHWEST CORNER OF QUEEN STREET WEST AND MAIN STREET. TABLET LOCATED 6.34m WEST OF SOUTHEAST CORNER, 0.21m ABOVE SIDEWALK, HAVING AN ELEVATION OF 212.705m.

VERTICAL DATUM: CANADIAN GEODETIC DATUM, 1928
(1978 SOUTHERN ONTARIO READJUSTMENT)

NOTE

PROPERTY LIMITS ARE NOT FENCED UNLESS OTHERWISE NOTED ON THE FACE OF THE PLAN.

FLOOD PLAIN INFORMATION DERIVED FROM TORONTO REGION CONSERVATOIN AUTHORITY FLOOD PLAIN MAPPING PROGRAM DATED 2017-03-21 SHEET No.24

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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 REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE DAY OF

DATE

RRELIMINARY

BONEY CHERIAN
ONTARIO LAND SURVEYOR

THIS PLAN WAS PREPARED FOR
ELIZABETH/GEORGE HOLDINGS INC.
DAVID B. SEARLES SURVEYING LTD. IS NOT RESPONSIBLE FOR USE BY OTHER PARTIES

PART 2
THIS PLAN MUST BE READ IN CONJUNCTION WITH SURVEY REPORT DATED

David B. Searles Surveying Ltd.
ONTARIO LAND SURVEYORS
4255 Sherwoodtowne Blvd, Suite 206, Mississauga, Ont. L4Z 1Y5
Tel: (905) 273-6840 Fax: (905) 896-4410
Email: info@dbsearles.ca

Calculator	Draftsperson
BJ	IV
Editor	Plan Index No.
BC	E 18

Calculation File	Drawing File	File No.
75-19CALC.DWG	75-1-19.DWG	75-1-19

Appendix A5

PCA Summary Table and APEC Table

18, 20, 22, 24, 28 Elizabeth Street North and 31 & 33 George Street North, Brampton, ON
PCA SUMMARY TABLE

PCA#	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	PCA Results in an APEC	APEC #	Rationale
On-Site PCAs						
PCA#1	Entire Phase One Property	30. Importation of Fill Material of Unknown Quality	• Previous investigations identified fill as the upper soil unit on the Site. • The 1857 Brampton Map indicates two former buildings were located on present day 31 & 33 George Street and one former building on present day 24 Elizabeth Street North. It is unknown if fill materials would have been imported to backfill the buildings following demolition.	Yes	APEC 1	On-Site PCA
PCA#2	18-24 Elizabeth Street North portion of the Site	28. Gasoline and Associated Products Storage in Fixed Tanks	• Based on the age of the current on-Site dwellings at 18, 20, and 24 Elizabeth Street, fuel oil may have historically been stored and used to heat these buildings. • An empty fuel oil AST was observed in the basement of the dwelling at 22 Elizabeth Street North.	Yes	APEC 2	On-Site PCA
PCA#3	28 Elizabeth Street North	Other – Former coal use and storage	• A former coal chute was observed in the basement boiler room of 28 Elizabeth Street North.	Yes	APEC 3	On-Site PCA
Off-Site PCAs Resulting in an APEC						
PCA#4a	23 George Street North (east adjacent)	31. Ink Manufacturing, Processing and Bulk Storage	• A Scott's manufacturing record identified 23 George Street North as a property with various printing and graphic design services.	Yes	APEC 4a	Higher concern PCA located on an adjacent property to the east.
PCA#4b		34. Metal Fabrication	• 23 George Street North was observed on the 1940 FIP as a Machine Shop.	Yes	APEC 4b	Higher concern PCA located on an adjacent property to the east.
PCA#5a	7-11 George Street North (southeast adjacent)	28. Gasoline and Associated Products Storage in Fixed Tanks	• A Brownfield Environmental Site Registry record indicated 11 George Street North previously had 730m^3 of hydrocarbon impacted soil removed from the property in 2008.	Yes	APEC 5a	Higher concern PCA located on an adjacent property to the east.
PCA#5b		29. Glass Manufacturing	• The property located at 7-9 George Street North was observed on the 1971 FIP as an eyewear manufacturing with washing, polishing and grinding.	Yes	APEC 5b	Higher concern PCA located on an adjacent property to the east.
PCA#5c		34. Metal Fabrication	• The property located at 7-9 George Street North was observed on the 1971 FIP as an eyewear manufacturing with washing, polishing and grinding. • This property was identified as a hazardous waste generator of light fuels (2008-2009).	Yes	APEC 5c	Higher concern PCA located on an adjacent property to the east.
PCA#5d		51. Solvent Manufacturing, Processing and Bulk Storage	• 11 George Street North was identified as a hazardous waste generator of aliphatic solvents and oil skimmings & sludges (1986-1990, 1992-1998).	Yes	APEC 5d	Higher concern PCA located on an adjacent property to the east.
PCA#6	8-10 Elizabeth Street North (south adjacent)	18. Electricity Generation, Transformer and Power Stations	• 8-10 Elizabeth Street North was observed on the FIPs (1894-1971) and during the Phase One Site visit to include a hydroelectric station.	Yes	APEC 6	Higher concern PCA located on an adjacent property to the south.

PCA#	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	PCA Results in an APEC	APEC #	Rationale
PCA#7a	14 Nelson Street West (25m northeast)	9. Coal Gasification	• A historical coal gasification plant was observed on the 1917 FIP. Records from the Inventory of Coal Gasification Plant Waste Sites indicate that the plant was present from 1888-1917.	Yes	APEC 7a	Higher concern PCA located on nearby property to the northeast.
PCA#7b		34. Metal Fabrication	• A Scott's Manufacturing record identified 14 Nelson Street West as a manufacturer of material handling equipment.	Yes	APEC 7b	Higher concern PCA located on nearby property to the northeast.
PCA#7c		31.Ink Manufacturing, Processing and Bulk Storage	• 14 Nelson Street West was listed as a hazardous waste generator of photo processing wastes (2016-2021).	Yes	APEC 7c	Higher concern PCA located on a nearby property to the northeast.
PCA#8	27 George Street North (east adjacent)	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	• 27 George Street North was listed as occupied by an auto related business in 1966.	Yes	APEC 8	Higher concern PCA located on a nearby property to the east.
PCA#9	37 George Street North (40m north)	34. Metal Fabrication	• A Scott's manufacturing record identified 37 George Street North for prefabricated building and component manufacturing.	Yes	APEC 9	Higher concern PCA located on a nearby property to the north.
Off-Site PCAs Not Resulting in an APEC						
PCA#10a	1 Diplock Lane	49. Salvage Yard, including automobile wrecking	• Former address 14 George Street North (70m east) was observed on the 1940 FIP as a junk yard.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#10b		28. Gasoline and Associated Products Storage in Fixed Tanks	• Former address 20 George Street North (40m east) was identified as a hazardous waste generator of waste oils/sludges (petroleum based) (2021)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#10c		28. Gasoline and Associated Products Storage in Fixed Tanks	• 1 Diplock Lane (45m east) was identified as a hazardous waste generator of oil skimmings & sludges, light fuels, waste oils & lubricants (2003-2021)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#11	23 Nelson Street West (20m east)	31.Ink Manufacturing, Processing and Bulk Storage	• 23 Nelson Street West was occupied by various printing and graphic design services	No	N/A	PCA was not considered to result in an APEC due to the inferred groundwater flow direction (easterly).
PCA#12a	9 Nelson Street West (50m east)	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	• 9 Nelson Street West was observed on the 1940 FIP as a garage and automotive repair facility with a UST under Nelson Street West.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#12b		28. Gasoline and Associated Products Storage in Fixed Tanks		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).

PCA#	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	PCA Results in an APEC	APEC #	Rationale
PCA#13a	50 Queen Street West (50m southeast)	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	• 50 Queen Street West was observed on the 1940 and 1971s FIP as an auto service station with four USTs.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#13b		28. Gasoline and Associated Products Storage in Fixed Tanks		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#14a	8-12 Nelson Street West and 32, 36 George Street North	59. Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products	• 8-12 Nelson Street West (later 36 George Street North) (55m northeast) was observed on the 1894 and 1917 FIPs as a wood cutting facility with coal storage bins. In the 1940 and 1971 FIPs, this property was observed as a lumber yard with a wood cutting facility and coal storage bins. .	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#14b		Other – Former coal use and storage		No	N/A	
PCA#14c	8 Nelson Street West	28. Gasoline and Associated Products Storage in Fixed Tanks	• 8 Nelson Street West (70m northeast) was listed as a hazardous waste generator of waste oils/sludges (petroleum based) (2018-2021) • An expired record for former address 32 George Street North (50m north) indicated an highway tank – gas/diesel was present (expired in 2012).	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#14d		31.Ink Manufacturing, Processing and Bulk Storage	• 8 Nelson Street West (70m northeast) was listed as a hazardous waste generator of photo processing wastes and pathological wastes (2016-2021)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#14e		43. Plastics (including Fibreglass) Manufacturing and Processing	• 8 Nelson Street West (70m northeast) was listed as a hazardous waste generator for polymeric resins, organic laboratory chemicals and other specified inorganics (2009)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#14f		55. Transformer Manufacturing, Processing and Use	• 8 Nelson Street West (70m northeast) was listed on the National PCB Inventory.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#14g		37. Operation of Dry Cleaning Equipment (where chemicals are used)	• 8 Nelson Street West (130m northeast) was observed on the 1917 FIP as a potential dry cleaner.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#15	1 Nelson Street West (75m northeast)	34. Metal Fabrication	• 1 Nelson Street West was observed to include a machine shop and tinsmith on an 1894 and 1917 FIP.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#16a	2 Nelson Street West (90m east)	47. Rubber Manufacturing and Processing	• 2 Nelson Street West (90m east) was observed on the 1940 FIP as a tire vulcanizing facility.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#16b		Other – Former coal use and storage	• 2 Nelson Street West (90m east) was observed on the 1917 FIP as a knitting factory with coal heating.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).

PCA#	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	PCA Results in an APEC	APEC #	Rationale
PCA#17	10 Nelson Street West	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	• 10 Nelson Street West (90m northeast) is observed on the 1971 FIP as a used car and trailer sales and service with tire storage.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#18	Rail Road Street and George Street	28. Gasoline and Associated Products Storage in Fixed Tanks	• Spill record of diesel to storm water sewer (100m north) (1989)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.
PCA#19	53 Main Street North	31.Ink Manufacturing, Processing and Bulk Storage	• A Scott's manufacturing record identified 53 Main Street North (100m east) as a digital printing, other printing, photographic services, all other miscellaneous manufacturing facility.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#20	69 Queen Street West	28. Gasoline and Associated Products Storage in Fixed Tanks	• 69 Queen Street West (90m south) was observed on the 1940 and 1971 FIPs as a cream processing facility with a UST.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southwest) with respect to the inferred groundwater flow direction (easterly).
PCA#21	65 Queen Street West	28. Gasoline and Associated Products Storage in Fixed Tanks	• 65 Queen Street West (100m south) was listed as a hazardous waste generator of waste crankcase oils and lubricants (2019).	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#22a	41 George Street South	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	• Former address 57 Queen Street West (100m south) was observed on the 1940 FIP as a garage and automotive repairs with three USTs. • Former address 57 Queen Street South (100m south) was observed on the 1971 FIP as a vulcanizing and tire shop with one UST.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (south) with respect to the inferred groundwater flow direction (easterly).
PCA#22b		28. Gasoline and Associated Products Storage in Fixed Tanks		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (south) with respect to the inferred groundwater flow direction (easterly).
PCA#22c		47. Rubber Manufacturing and Processing		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (south) with respect to the inferred groundwater flow direction (easterly).
PCA#23		28. Gasoline and Associated Products Storage in Fixed Tanks	• 41 George Street South (120m south) was listed as a hazardous waste generator with no waste class listed (2011-2012) • A spill of 100 litres of hydraulic oil was recorded at 41 George Street South in 2012.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (south) with respect to the inferred groundwater flow direction (easterly).
PCA#24	38 Queen Street West	37. Operation of Dry Cleaning Equipment (where chemicals are used)	• 38 Queen Street West (100m southeast) was observed on the 1971 FIP as a dry cleaner.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#25a	32 Queen Street West	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	• Former address 34 Queen Street West (110m southeast) was observed on the 1940 FIP as a garage and automotive repair facility with one UST located under Queen Street West • Hazardous waste generator for light fuels and wastes not defined (1986-1998)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
				No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#25b		28. Gasoline and Associated Products Storage in Fixed Tanks	• A UST was depicted with the former automotive repair garage at this property.			
PCA#26a	118 Queen Street West	28. Gasoline and Associated Products Storage in Fixed Tanks	• 118 Queen Street West (120m southwest) was listed as a hazardous waste generator of waste oils & lubricants (2007-2008)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southwest) with respect to the inferred groundwater flow direction (easterly).
PCA#26b		47. Rubber Manufacturing and Processing	• A Scott's Manufacturing record listed 118 Queen Street West (120m southwest) for rubber product manufacturing and sporting and athletic goods manufacturing.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southwest) with respect to the inferred groundwater flow direction (easterly).
PCA#27	Nelson & Queen Go Transit Station	28. Gasoline and Associated Products Storage in Fixed Tanks	• A Spill record of 500 litres of diesel to asphalt at the Nelson & Queen Go Transit Station (125m north) • Spill of an unknown quantity of diesel to the railbed	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.

PCA#	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	PCA Results in an APEC	APEC #	Rationale
PCA#28	103 Queen Street West	31.Ink Manufacturing, Processing and Bulk Storage	• 103 Queen Street West (125m southwest) was identified as a hazardous waste generator for photo processing waste (2015-2019).	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southwest) with respect to the inferred groundwater flow direction (easterly).
PCA#29	27 Mill Street North	49. Salvage Yard, including automobile wrecking	• 27 Mill Street North (130m west) was identified as an automobile wrecking & recycling facility.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#30	49 Queen Street West	37. Operation of Dry Cleaning Equipment (where chemicals are used)	• 49 Queen Street West (130m southeast) was observed on the 1917 FIP as "laundry". The Site may have been used as a dry cleaner.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#31a	131 Main Street North	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	• Former address 115-117 Main Street North (140m northeast) was observed on the 1940 and 1971 FIPs as a garage with automotive repairs, tire vulcanization and a UST is located under Main Street North	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#31b		28. Gasoline and Associated Products Storage in Fixed Tanks		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#31c		47. Rubber Manufacturing and Processing		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#32	58 Elizabeth Street North	45. Pulp, Paper and Paperboard Manufacturing and Processing	• A Scott's manufacturing record identified 58 Elizabeth Street North (145m north) as an industrial & personal service paper manufacturer.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (north) with respect to the inferred groundwater flow direction (easterly).
PCA#33a	80 Main Street North (140m east)	28. Gasoline and Associated Products Storage in Fixed Tanks	• 80 Main Street North (140m east) was identified as a hazardous waste generator of light fuels (2005, 2006)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#33b		37. Operation of Dry Cleaning Equipment (where chemicals are used)	• 80 Main Street North (140m east) was observed on the 1940 FIP as "laundry". The Site may have been used as a dry cleaner.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#34a	131-135 Main Street North	12. Concrete, Cement and Lime Manufacturing	• Former address 125-129 Main Street North (150m northeast) was observed on the 1940 as an oil storage facility with a gasoline service station, three USTs, oil warehouse, cement storage and two oil ASTs along rail line.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#34b		27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#34c		28. Gasoline and Associated Products Storage in Fixed Tanks		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#35a	54 Main Street North	28. Gasoline and Associated Products Storage in Fixed Tanks	• 54 Main Street North (150m east) was identified as a hazardous waste generator of waste oils and sludges (2021)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#35b		59. Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products	• The property was historically occupied by a cabinet manufacturer	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#36a	33 Queen Street West	31. Ink Manufacturing, Processing and Bulk Storage	• 33 Queen Street West (150m southeast) was observed on the 1971 FIP as a printing facility.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).

PCA#	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	PCA Results in an APEC	APEC #	Rationale
PCA#36b		51. Solvent Manufacturing, Processing and Bulk Storage	• 33 Queen Street Wes (150m southeast) was identified as a hazardous waste generator of one or more of paint/ pigment/ coating residues, aromatic solvents, waste oils & lubricants, and photoprocessing waste (1986-1989, 1992-1998)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#37	111 Queen Street West	28. Gasoline and Associated Products Storage in Fixed Tanks	• 111 Queen Street West (155m southwest) was identified as a hazardous waste generator of oil skimming & sludges (2015)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southwest) with respect to the inferred groundwater flow direction (easterly).
PCA#38a	2 Nelson Street East	28. Gasoline and Associated Products Storage in Fixed Tanks	• Former address 116-120 Main Street North (160m northeast) was observed on the 1940 and 1971 FIPs as a garage and gasoline service station with two USTs located under Main Street North.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#38b		34. Metal Fabrication	• Former address 116-120 Main Street North was observed with a carriage shop and wood working building on an 1894 FIP.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#38c		59. Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products	• Former address 116-120 Main Street North was observed with a carriage shop and wood working building on an 1894 FIP.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#38d		31. Ink Manufacturing, Processing and Bulk Storage	• 4 Nelson Street East was observed on the 1971 FIP as a printing office.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#39	6 Nelson Street East	59. Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products	• Former address 10-14 Nelson Street East (165m northeast) was observed on the 1917 and 1940 FIPs as a carriage shop with a planning mill and lumber shed.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#40	25-27 Queen Street West	31. Ink Manufacturing, Processing and Bulk Storage	• 25-27 Queen Street West (170m southwest) was observed on the 1917 and 1940 FIPs as a printing office.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southwest) with respect to the inferred groundwater flow direction (easterly).
PCA#41a	130 Main Street North	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	• Former address 128 Main Street North (170 northeast) was observed on the 1940 and 1971 FIPs as a used car dealership with automotive repairs, oiling and three USTs.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#41b		28. Gasoline and Associated Products Storage in Fixed Tanks		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#42a	1 Main Street North	28. Gasoline and Associated Products Storage in Fixed Tanks	• 1 Main Street North (175m southeast) hazardous waste generator for light fuels (2005).	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#42b		51. Solvent Manufacturing, Processing and Bulk Storage	• Former address 1 Main Street North was identified with generation of hazardous waste of PCBs (2004-2005)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#43	Railway	46. Rail Yards, Tracks and Spurs	• A railway line (120m north) was observed on the FIPs and aerial photographs to the north of the Site.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.

PCA#	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	PCA Results in an APEC	APEC #	Rationale
PCA#44	1 Theatre Lane	28. Gasoline and Associated Products Storage in Fixed Tanks	• Former address 16 Hanna Lane (180m east) was observed on the 1971 FIP as a car parking lot with one UST. • This property is listed in HWIN for generation of hazardous wastes including inorganic sludeges, slurries or soilds, and waste oils/sludges.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#45	2 Queen Street West	28. Gasoline and Associated Products Storage in Fixed Tanks	• 2 Queen Street East (180m southeast) was observed on the 1971 FIP as a bank with a basement fuel oil UST.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#46a	1-11 Flowering Vine Lane	59. Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products	• Former address 174-178 Park Street (180m west) was observed on the 1917 FIP as a sash and door manufacturing facility with a lumber shed and planning mill.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.
PCA#46b		Other – Former coal use and storage	• Former address 174-178 Park Street (180m west) was observed on the 1917 FIP as a sash and door manufacturing facility with a coal and refuse fuel sources.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (west) with respect to the inferred groundwater flow direction (easterly).
PCA#46c		27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	• Former address 6 Park Street (180m west) was observed on the 1971 FIP with potential truck repair activities.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (west) with respect to the inferred groundwater flow direction (easterly).
PCA#47	79 Queen Street West	34. Metal Fabrication	• 79 Queen Street West was listed as a pump repair shop.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#48a	14 Main Street North (160m southeast)	28. Gasoline and Associated Products Storage in Fixed Tanks	• 14 Main Street North (185m east) was identified as a hazardous waste generator of light fuels (2005).	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#48a		39. Paints Manufacturing, Processing and Bulk Storage	• 18 Main Street North was identified as a “paints” shop in FIP	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#49	1 Theatre Lane	28. Gasoline and Associated Products Storage in Fixed Tanks	• 1 Theatre Lane (190m east) was identified as a hazardous waste generator of pathological waste, waste oils/sludges (petroleum based) and other specified inorganic sludges, slurries or solids (2021)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (east) with respect to the inferred groundwater flow direction (easterly).
PCA#50a	45 Railroad Street	28. Gasoline and Associated Products Storage in Fixed Tanks	• 45 Railroad Street (190m northwest) was identified on the Brownfield Environmental Site Registry as a RSC property with 87500 litres of groundwater contaminated with Metals, PAHs, PHCs and VOCs removed from the property in 2017	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.
PCA#50b		34. Metals Fabrication	• 45 Railroad Street (190m northwest) was identified on the Brownfield Environmental Site Registry as a RSC property with 5130m^3 of soil contaminated with Metals, PAHs, EC/SAR, removed from the Site in 2017.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.
PCA#51	35 Railroad Street	28. Gasoline and Associated Products Storage in Fixed Tanks	• 35 Railroad Street (210m northwest) was observed on the 1971 FIP as a landscaping contractor yard with one UST.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.
PCA#52a	1 Main Street South	37. Operation of Dry Cleaning Equipment (where chemicals are used)	• 1 Main Street South (210m southeast) was observed on the 1917 FIP as a potential dry cleaner.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southwest) with respect to the inferred groundwater flow direction (easterly).

PCA#	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	PCA Results in an APEC	APEC #	Rationale
PCA#52b		28. Gasoline and Associated Products Storage in Fixed Tanks	• 1 Main Street South (210m southeast) was was identified as a hazardous waste generator of light fuels and inorganic wastes (2019)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southwest) with respect to the inferred groundwater flow direction (easterly).
PCA#53a	2 Wellington Street West	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	• Former addresses 24, 35 and 39 Main Street South were observed to include vehicle repair garages and multiple underground fuel storage tanks on the 1940 FIP • 2 Wellington Street West (205m southeast) was identified as a hazardous waste generator of one or more of paint/pigment/coating residues, petroleum distillates, other inorganic acid wastes, oil skimmings &sludges, waste oils & lubricants, organic laboratory chemicals, inorganic laboratory chemicals, waste compressed gases, photoprocessing wastes, and alkaline wastes – other metals. (1992-2021)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#53b		28. Gasoline and Associated Products Storage in Fixed Tanks		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#53c		31. Ink Manufacturing, Processing and Bulk Storage		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#53d		39. Paints Manufacturing, Processing and Bulk Storage		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#54a	151 Main Street North	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	• 151 Main Street North (225m northeast) was observed on the 1971 FIP as a garage with automotive repairs and one UST.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#54b		28. Gasoline and Associated Products Storage in Fixed Tanks		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#55a	150 Main Street North	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	• 150 Main Street North (240m northeast) was observed on the 1971 FIP as an auto service station and one UST.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#55b		28. Gasoline and Associated Products Storage in Fixed Tanks		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northeast) with respect to the inferred groundwater flow direction (easterly).
PCA#56	62 Park Street	Other – Former coal use and storage	• 62 Park Street (240m northwest) was observed on the 1940 FIP as multiple coal and wood sheds along the rail line.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.
PCA#57a	56-60 Mill Street North	45. Pulp, Paper and Paperboard Manufacturing and Processing	• 56-60 Mill Street North (240m northwest) was identified in the 1894, 1917 and 1940 FIPs as a ledger manufacturing facility with paper mill and machine shop with a coal shed.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (northwest) with respect to the inferred groundwater flow direction (easterly).
PCA#57b		Other – Former coal use and storage		No	N/A	
PCA#58a	41-53 Railroad Street and 49 Mill Street North	8. Chemical Manufacturing, Processing and Bulk Storage	• 41-53 Railroad Street and 49 Mill Street North (240m northwest) was observed on the observed on the 1971 FIP as an office supplies manufacturing facility with a paper mill, machine shop, metal working facility, plating facility, fuel oil storage tank, chemical storage and a coal shed.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.
PCA#58b		28. Gasoline and Associated Products Storage in Fixed Tanks		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.
PCA#58c		33. Metal Treatment, Coating, Plating and Finishing		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.

PCA#	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	PCA Results in an APEC	APEC #	Rationale
PCA#58d		34. Metal Fabrication		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.
PCA#58e		45. Pulp, Paper and Paperboard Manufacturing and Processing		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.
PCA#58f		Other – Former coal use and storage		No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.
PCA#59a	11 Church Street West (240m north)	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	• The 1940 FIP depicted a repair garage on part of the larger overall current property of 11 Church Street West	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.
PCA#59b		28. Gasoline and Associated Products Storage in Fixed Tanks	• The 1940 FIP depicted one UST on the larger overall current property of 11 Church Street West	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.
PCA#59c		Other – Former coal use and storage	• The 1940 FIP depicted coal sheds on the larger overall current property of 11 Church Street West	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site.
PCA#60	39 Queen Street West	37. Operation of Dry Cleaning Equipment (where chemicals are used)	• 39 Queen Street West (150m southeast) was observed on FIPs as a potential dry cleaner.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#61	37 Queen Street West	31. Ink Manufacturing, Processing and Bulk Storage	• 37 Queen Street West (155m southeast) was observed on FIPs as a former printer.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#62	13 Elizabeth Street South (200m south)	28. Gasoline and Associated Products Storage in Fixed Tanks	• 13 Elizabeth Street South was listed as generation of waste oils/sludges (petroleum based) by Alectra Utilities)	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).
PCA#63	27 Main Street North	34. Metal Fabrication	• Formerly 40 Main Street North was listed as a tin smith.	No	N/A	PCA was not considered to result in an APEC due to its distance away from the Site and its location (southeast) with respect to the inferred groundwater flow direction (easterly).

"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 Fill Quality	Entire Phase One Property	30. Importation of Fill Material of Unknown Quality	On-Site	Metals As, Sb, Se Hg, CN-, B-HWS PHCs BTEX	Soil
APEC 2 Potential former fuel oil use and storage	Western portion of the Phase One Property	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX	Soil Groundwater
APEC 3 Former coal use and storage	Northwestern portion of the Phase One Property	Other – Former coal use and storage	On-Site	Metals As, Sb, Se Hg PAHs	Soil Groundwater
APEC 4a Former printing and graphic design building at 23 George Street North	Eastern portion of the Phase One Property	31. Ink Manufacturing, Processing and Bulk Storage	Off-Site	Metals As, Sb, Se BTEX VOCs	Groundwater
APEC 4b Former machine shop at 23 George Street North		34. Metal Fabrication	Off-Site	Metals As, Sb, Se PHCs BTEX VOCs	Groundwater
APEC 5a Hydrocarbon impacted soil at 11 George Street North – potential fuel storage	Southeastern portion of the Phase One Property	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	PHCs BTEX	Groundwater
APEC 5b Former glass eyewear manufacturer		29. Glass Manufacturing	Off-Site	Metals As, Sb, Se PHCs BTEX	Groundwater
APEC 5c Former glass eyewear manufacturer		34. Metal Fabrication	Off-Site	Metals As, Sb, Se PHCs BTEX VOCs	Groundwater
APEC 5d Former glass eyewear manufacturer		51. Solvent Manufacturing, Processing and Bulk Storage	Off-Site	PHCs BTEX 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 6 Hydroelectric station at 8-10 Elizabeth Street North	Southern portion of the Phase One Property	18. Electricity Generation, Transformer and Power Stations	Off-Site	Metals As, Sb, Se PCBs PHCs BTEX VOCs	Groundwater
APEC 7a Former coal gasification plant at 14 Nelson Street West	Northeastern portion of the Phase One Property	9. Coal Gasification	Off-Site	Metals As, Sb, Se Hg, CN- PAHs ABNs PHCs BTEX VOCs	Groundwater
APEC 7b Former material handling equipment manufacturer at 14 Nelson Street West		34. Metal Fabrication	Off-Site	Metals As, Sb, Se PHCs BTEX VOCs	Groundwater
APEC 7c Former generation of photoprocessing wastes at 14 Nelson Street West		31.Ink Manufacturing, Processing and Bulk Storage	Off-Site	Metals As, Sb, Se BTEX VOCs	Groundwater
APEC 8 Former auto related business at 27 George Street north	Eastern portion of the Phase One Property	27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Off-Site	Metals As Sb, Se PHCs BTEX VOCs	Groundwater
APEC 9 Former manufacturer of prefabricated building components at 37 George Street North	Northeastern portion of the Phase One Property	34. Metal Fabrication	Off-Site	Metals As Sb, Se 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***