

PHASE II ENVIRONMENTAL SITE ASSESSMENT

163-164 Edward Street East |
Clearview Township (Creemore),
Ontario

PREPARED FOR:

Lamb Creemore Corp.
778 King Street West,
Toronto, ON M5V 1N6

ATTENTION:

Nate Tracey, P.Eng.

Grounded Engineering Inc.

File No. 22-052

Issued July 14, 2022



TABLE OF CONTENTS

1	EXECUTIVE SUMMARY	5
2	INTRODUCTION	6
2.1	SITE DESCRIPTION	6
2.2	PROPERTY OWNERSHIP	6
2.3	CURRENT AND PROPOSED FUTURE USES	6
2.4	APPLICABLE SITE CONDITION STANDARD	7
3	BACKGROUND INFORMATION	7
3.1	PHYSICAL SETTING	7
3.2	PAST INVESTIGATIONS	9
4	SCOPE OF THE INVESTIGATION	10
4.1	OVERVIEW OF SITE INVESTIGATION	10
5	INVESTIGATION METHOD	11
5.1	GENERAL	11
5.2	DRILLING	11
5.3	SOIL – SAMPLING	11
5.3.1	Equipment Used	11
5.3.2	Geological Description	12
5.4	SOIL – FIELD SCREENING MEASUREMENTS	12
5.5	GROUNDWATER – FIELD MEASUREMENT OF WATER QUALITY PARAMETERS	12
5.6	GROUNDWATER – MONITORING WELL INSTALLATION	12
5.7	GROUNDWATER – SAMPLING	13
5.8	SEDIMENT – SAMPLING	13
5.9	ANALYTICAL TESTING	13
6	REVIEW AND EVALUATION	13
6.1	GEOLOGY	13
6.1.1	Material in Geological Units	15
6.1.2	Properties of Aquifers and Aquitards	16
6.2	GROUNDWATER: ELEVATIONS AND FLOW DIRECTION	16
6.3	GROUNDWATER: HYDRAULIC GRADIENTS	17
6.4	FINE-MEDIUM SOIL TEXTURE	17
6.5	SOIL – FIELD SCREENING	17
6.6	SOIL – QUALITY	17
6.6.1	Location and Depth of Samples	17
6.6.2	Comparison to Applicable Standards	21
6.6.2.1	SAR Exceedances	22
6.6.3	Contaminants of Concern	23
6.6.4	Contamination Impact on Other Media	23
6.6.5	Chemical or Biological Transformations	23



6.6.6	Presence of Light or Dense Non-Aqueous Phase Liquids	23
6.7	GROUNDWATER QUALITY.....	23
6.7.1	Location and Depth of Samples	23
6.7.2	Comparison to Applicable Standards	24
6.7.3	Contaminants of Concern	25
6.7.4	Contamination Impact on Other Media.....	25
6.7.5	Chemical or Biological Transformations	25
6.7.6	Presence of Light or Dense Non-Aqueous Phase Liquids	25
6.8	QUALITY ASSURANCE AND QUALITY CONTROL RESULTS	25
6.8.1	Subsection 47 (3) of the Regulation	26
6.8.2	Laboratory Qualification of Results	26
6.8.3	Overall Quality of Field Data	26
7	CONCLUSIONS	27
7.1	SIGNATURES.....	28
8	REFERENCES	29
9	LIMITATIONS AND RESTRICTIONS	30
9.1	REPORT USE	30



FIGURES

Figure 1 – Site Location Plan

Figure 2 – Borehole and Monitoring Well Locations

Figure 3 – PCA Locations

Figure 4 – Groundwater Elevations and Contours

Figure 5 – Soil and Groundwater Section A-A'; All Parameters Tested

TABLES

Table 1 – Groundwater Elevations

Table 2 – Metals, Hydride Metals, Other Regulated Parameters in Soil

Table 3 – Polycyclic Aromatic Hydrocarbons in Soil

Table 4 – Petroleum Hydrocarbons in Soil

Table 5 – Benzene, Toluene, Ethylbenzene, Xylene in Soil

Table 6 – Volatile Organic Compounds and Trihalomethanes in Soil

Table 7 – Organochlorine Pesticides in Soil

Table 8 – Metals, Hydride Metals, Other Regulated Parameters in Groundwater

Table 9 – Petroleum Hydrocarbons in Groundwater

Table 10 – Benzene, Toluene, Ethylbenzene, Xylene in Groundwater

Table 11 – Volatile Organic Compounds and Trihalomethanes in Groundwater

Table 12 – Organochlorine Pesticides in Groundwater

APPENDICES

Appendix A – Borehole Logs and Grain Size Analysis

Appendix B – Certificates of Analysis



1 Executive Summary

Lamb Creemore Corp. retained Grounded Engineering Inc. to complete a Phase II Environmental Site Assessment (ESA) of the property located at 163-164 Edward Street East, Clearview Township (Creemore), Ontario (Property). The Phase II ESA was conducted to investigate the Areas of Potential Environmental Concern (APECs) that have been identified on the Property.

The results of the Phase II ESA are summarized below:

Applicable Site Condition Standards	MECP Table 2 RPI CT
Soil Contaminants of Potential Concern (CoPCs) Investigated	- Metals (M) - Hydride-forming Metals (H-M) - Arsenic (As), Selenium (Se), Antimony (Sb) - Other Regulated Parameters (ORPs) - B-HWS, CN-, EC, SAR, Cr(VI), Hg - Polycyclic Aromatic Hydrocarbons (PAHs) - Petroleum Hydrocarbons (PHCs) - Volatile Organic Compounds II - Benzene, Toluene, Ethylbenzene, Xylene (BTEX) - Volatile Organic Compounds I (VOCs) - Trihalomethanes (THMs) - Organochlorine Pesticides (OCs)
Groundwater CoPCs Investigated	- Metals - Hydride-forming metals - Sb, As Se - Selected Other Regulated Parameters (ORPs) - Cr(VI), Hg, Na - PHCs - BTEX - VOCs - THMs - OCs
Applicable Site Condition Standards Met for Soil? (Yes/No)	Yes
Applicable Site Condition Standards Met for Groundwater? (Yes/No)	Yes

No exceedances of the applicable Site Condition Standards were identified for the soil and groundwater on/underneath the Property.

No additional environmental investigation is recommended at this time. A Record of Site Condition (RSC) is not required for the site for continued agricultural use.



2 Introduction

2.1 Site Description

Lamb Creemore Corp. retained Grounded Engineering Inc. to complete a Phase II Environmental Site Assessment (ESA) of the property located at 163-164 Edward Street East, Clearview Township (Creemore), Ontario (Property). The Phase II ESA was conducted to investigate the Areas of Potential Environmental Concern (APECs) that have been identified on the Property. The site location is presented in Figure 1.

The Property is approximately rectangular in shape, with an approximate area of 27.6 ha. It is accessible via Edward Street East, which cuts through the northern half of the site. The Property is used as agricultural land with the remnants of a demolished single-family dwelling and a barn, and an associated dirt driveway located in the central portion of the Property. The Property is considered to be in Agricultural or Other Land use by the Ontario Ministry of the Environment, Conservation and Parks (MECP). The Phase II ESA has been prepared for due diligence purposes only and in accordance with CSA Standard Z769-00.

2.2 Property Ownership

The Property information is provided below:

Municipal Addresses	1) 163 Edward Street East, Creemore, ON L0M 1G0 2) 164 Edward Street East, Creemore, ON L0M 1G0
PINs	1) 58220-0057 (LT) 2) 58220-0052 (LT)
Current Land Use	Agricultural or Other
Property Owner Information	Lamb Creemore Corp.
Person who has engaged the Qualified Person to conduct the Phase I ESA	Nate Tracey, P.Eng., MBA Lamb Creemore Corp.

2.3 Current and Proposed Future Uses

The Property is considered to be in agricultural land use by the Ontario Ministry of the Environment, Conservation and Parks (MECP).

It is understood that the Phase II Property will be developed with a new mixed residential and commercial use subdivision with multiple detached and semi-detached houses, townhouses, and a hotel. The development will span from the north to the south side of Edward St E with multiple development lots that include proposed stormwater management ponds, new municipal roads and parks.



2.4 Applicable Site Condition Standard

The applicable site condition standard for the Phase II Property is determined to be Table 2 Site Condition Standard for Residential/Parkland/Institutional land use in a potable groundwater condition for coarse textured soil due to the following reasons:

Current Land Use	Agricultural
Future Land Use	Residential
Soil Texture	Coarse based on grain size analysis performed on the soil (Appendix A)
Potable Water Source	Municipal water supply from regional groundwater supply wells
Bedrock Depth	Bedrock is located at a depth of greater than 2 m
Property located within 30 m of a surface water body (Yes/No)	No
Property located in or adjacent to a provincial park or an Area of Natural Significance (Yes/No)	No

3 Background Information

3.1 Physical Setting

The Ministry of Natural Resources and Forestry (MNR) and Ministry of Energy, Northern Development and Mines (MENDM) database were searched to obtain topographic and geological maps of Ontario for review. The information obtained are summarized below:

Records	Information
Topographic Maps	The elevation of the Property ranges from approximately 253 to 248 metres above sea level (masl) from the northwest to the southeast, with a slight slope towards the southeast.
Hydrology	The nearest significant water body is the Mad River, located approximately 520 metres southwest of the Property. Surface water is expected to flow towards the drainage ditches located both on the Property and along the north and south sides of Edward St E, and towards the neighbouring sites. Groundwater is expected to flow southeast towards the Mad River, based on ground elevation.



Records	Information
Geological Maps	<u>Overburden:</u> Glaciofluvial outwash deposits comprised of gravel and sand, which includes proglacial river and deltaic deposits. <u>Bedrock:</u> Bedrock consists of shale, limestone, dolostone, and siltstone from the Georgian Bay Formation. <u>Depth to Bedrock:</u> Based on a drift thickness map from the Ontario Geological Survey, the depth to bedrock is approximately 100 metres below ground surface (mbgs).

Maps from MNRF were reviewed to determine if water bodies were present on the Property and within the Study Area. The Ontario Ministry of Natural Resources National Heritage Information Centre database for Areas of Natural or Scientific Interest (ANSIs) was also reviewed as part of the Phase II ESA. The information is summarized below:

Water Bodies	<u>Property:</u> - No natural water bodies are located on the Property <u>Study Area:</u> - No water bodies are located within the Study Area
Wetlands	<u>Phase I Property:</u> - No Provincially Significant, Non-Provincially Significant, and Unevaluated wetlands are located on the Property <u>Study Area:</u> - An unevaluated wetland with an area of around 1.69 ha is located approximately 80 m east of the southeast corner of the Property
ANSIs	<u>Property:</u> - No Provincially Significant Life Science and Earth Science ANSIs are located on the Property. <u>Study Area:</u> - No Provincially Significant Life Science and Earth Science ANSIs are located within the Study Area.

The Areas of Natural Significances (ANSIs) and water bodies on or adjacent to the Property is shown on Figures 1 and 2, if present.



3.2 Past Investigations

The following environmental report was provided for review for the Property. The findings of the report are summarized below:

Title and File No.	Phase I Environmental Site Assessment; 163-164 Edward Street East, Clearview Township (Creemore), Ontario. File No. 22-052.
Report Date	April 26, 2022
Prepared By	Grounded Engineering Inc.
Prepared for	Lamb Creemore Corp.
Description of Data, Analysis or Findings	• The Phase I ESA was completed for the purposes of due diligence for refinancing the Property. • The Phase I ESA was generally completed in accordance with CSA Standard Z768-01. • At the time of the site inspection completed on March 23, 2022, the Property was used as agricultural land with the remnants of a demolished single-family dwelling and a barn, and an associated dirt driveway located in the central portion of the Property at 163 Edward St E. • Groundwater flow was assumed to be in a southeast direction towards the Mad River, based on ground elevation. • The findings of the Phase I ESA were as follows: ○ The potential importation and placement of fill material of unknown quality across the driveway and in the vicinity of the two demolished buildings located in the central portion of the Property at 163 Edward St E was identified during the site visit. These areas appeared to be infilled to a higher grade than the surrounding agricultural land onsite. ○ The potential use of pesticides onsite for agricultural purposes from 1938 to the date of the report was identified from aerial photographs and satellite images reviewed for the Property, and the site reconnaissance. ○ During the site reconnaissance and based on the city directory review of adjacent properties, 112 Edward St E, located adjacent to the west of the Property, has been occupied by a machine shop since at least 1999. ○ A potential historical railway was observed adjacent to the southwest corner of the Property in the 1938 and 1954 aerial photos. ○ During the site reconnaissance, an auto repair shop (Auto Solve) was located at 102 Edward St E, approximately 123 m west of the Property. ○ Record of Site Condition (RSC) #224922 was filed for the property at 90 Edward St E. It was historically occupied by Creemore Landfill, County Waste Disposal Site #25, which is now closed. Reportedly, that property was formerly used for the disposal of municipal solid waste (including the emergency disposal of gasoline impacted sand in 1989), which was placed in trenches. The RSC was obtained a post the 2011 O.Reg. 153/04 amendments.



	- Based on the information provided by the client, as there is no change in land use to a more sensitive use, the potential for environmental concern for the current land use is low. - The Phase I ESA had the following recommendations: - Potentially Contaminating Activities (PCAs) have been identified on the Property and within the Phase I Study Area. The PCAs identified result in the identification of two Areas of Potential Environmental Concern (APECs) for the Site (potential use of pesticides across the entire Property, and adjacent machine shop operation at 112 Edward St East). A Phase Two ESA is recommended to assess these APECs.
--	--

4 Scope of the Investigation

4.1 Overview of Site Investigation

The scope of the Phase II ESA is as follow:

Boreholes and Monitoring Wells	<u>Grounded Investigation :</u> - Advancing of 16 boreholes to depths of 8.2 to 9.8 m below ground surface (mbgs) - Installation of 16 monitoring wells
Parameters Investigated for Soil	- Metals (M) - Hydride-forming Metals (H-M) - Antimony (Sb), Arsenic (As), Selenium (Se) - Other Regulated Parameters (ORPs) - B-HWS, CN-, EC, SAR, Cr(VI), Hg - Polycyclic Aromatic Hydrocarbons (PAH) - Petroleum Hydrocarbons (PHCs) - Volatile Organic Compounds II - Benzene, Toluene, Ethylbenzene, Xylene (BTEX) - Volatile Organic Compounds I (VOCs) - Trihalomethanes (THMs) - Organochlorine Pesticides (OCs)
Parameters Investigated for Groundwater	- M - H-M - Sb, As, Se - ORPs - Cr(VI), Hg, Na - PHCs - BTEX - VOCs - THMs - OCs
- Sixteen (16) soil samples were submitted for grain size analysis and soil classification. - All boreholes and monitoring wells were surveyed to a geodetic benchmark. - All new monitoring wells were developed, and select wells were sampled. - Groundwater level measurements were conducted in all monitoring wells to determine groundwater elevation on the Property	



5 Investigation Method

5.1 General

The Phase II ESA followed the methods outlined in the Ontario Ministry of the Environment, Conservation, and Parks “Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario” (December 1996).

5.2 Drilling

The Phase Two ESA drilling information is provided below:

Boreholes	Grounded: BH101 to BH116
Date of Work	April 19 to 27, 2022
Name of the Contractor	Landshark Drilling
Equipment Used	Track-mounted drill rigs (D50/B-57), hollow stem augers, and a 2-inch split spoon soil sampling device
Measures for Cross-contamination Prevention	The split spoon sampling device was washed between each sample to prevent potential cross-contamination
Sampling Frequency	Please refer to the borehole logs in Appendix A for the sampling frequency

The borehole locations are provided in Figure 2.

5.3 Soil – Sampling

5.3.1 Equipment Used

Below is the equipment used during the soil sampling.

- Sampling containers supplied by the laboratories
- Nitrile gloves
- Cooler with ice
- RKI EAGLE 2 gas monitor



5.3.2 Geological Description

The borehole logs in Appendix A provide an overall geological description of each soil sample collected during the 2022 Phase II ESA.

5.4 Soil – Field Screening Measurements

Hydrocarbon vapour concentrations were screened in each soil sampling, using an RKI Eagle 2 gas monitor. The monitor is calibrated to *n*-hexane prior to field screening as per the calibration procedure outlined by RKI Instruments in *“Eagle 2 Operator’s Manual, Part Number:71-0154RK”* released March 12, 2019. The monitor has a range of 0 to 40,000 parts per million (ppm) and an accuracy of +/- 5%

Based on field screening measurements and visual and olfactory examination of all soil samples, selected samples were submitted for petroleum hydrocarbon (PHCs) and volatile organic compounds (VOCs) laboratory analysis. Complete field screening readings are provided on the borehole logs in Appendix A.

5.5 Groundwater – Field Measurement of Water Quality Parameters

Water quality parameters including temperature, pH, specific conductivity, total dissolved solids were measured using a Hanna Instruments portable meter prior to sampling.

5.6 Groundwater – Monitoring Well Installation

The Phase II ESA monitoring well installation information is provided below:

Monitoring Wells	Grounded: BH101 to BH116
Date of Work	April 19 to 27, 2022
Name of the Contractor	Landshark Drilling
Equipment Used	Track-mounted drill rigs (D50/B-57), hollow stem augers, and a 2-inch split spoon soil sampling device
Measures for Cross-contamination Prevention	The split spoon sampling device was washed between each sample to prevent potential cross-contamination
Sampling Frequency	No groundwater samples were collected during drilling event



Well Construction	The wells were constructed with 50 mm (2 in.) ID PVC screens and risers. Filter sand was placed around the well screen to approximately 0.6 m above the top of the screen. The wells were then backfilled with bentonite to approximately 0.3 m below ground surface (mbgs). The wells were finished with stick ups.
Well Development	The monitoring wells were developed on April 22, 2022. Well development was conducted with a dedicated bailer. A total volume of approximately 2,170 L of water was removed during the well development. Stabilization of parameters (pH, conductivity, temperature, etc.) of the purged water was monitored before a sample to ensure the samples are representative of the formation water.

The monitoring well locations are provided in Figure 2.

5.7 Groundwater – Sampling

The monitoring well was purged and sampled using a dedicated Bailer. The groundwater was purged before sampling to ensure extraction of representative formation groundwater. Stabilization of water quality parameters of the purged water was monitored before a sample was taken to maintain the equilibrium with the surrounding formation water and produce samples that are representative of the formation water.

Sampling methodology from the Ontario Ministry of the Environment, Conservation and Parks (MECP) *"Guidance on Sampling and Analytical Methods for Use at Contaminated Sites In Ontario"*, MECP *"Guide for Completing Phase Two Environmental Site Assessments under Ontario regulation 153/04"* and MECP *"Protocol for Analytical Methods Used in the Assessment of Properties under Par XV.1 of the Environmental Protection Act"* were followed in the collection of the groundwater samples.

5.8 Sediment – Sampling

No sediment sampling was conducted as part of this investigation.

5.9 Analytical Testing

Analytical Testing of all soil and groundwater samples was conducted by ALS Canada Ltd.

6 Review and Evaluation

6.1 Geology

Detailed geological information for the Property is presented on the borehole logs in Appendix A. The geology at the Property is summarized below.



Geological Unit Thickness (Estimate)	
Borehole	BH101 to BH116
	Thickness Range (m)
Surficial and Earth Fill	0.8 to 0.9
Sand and Gravel	2.2 to 5.6
Sands	2.1* to 5.2*
Bedrock	Bedrock was not encountered during the investigation.

* = Stratum extends to full depth of the investigation. True unit thickness could not be determined.

Geological Unit Elevations		
Borehole	BH101 to BH116	
	Elev. Top Range (masl)	Elev. Bottom Range (masl)
Surficial and Earth Fill	252.4	248.2
Sand and Gravel	252.0	244.5
Sands	247.8	239.9*
Bedrock	Bedrock was not encountered during the investigation.	

* = Stratum extends to full depth of the investigation. True unit thickness could not be determined.



6.1.1 Material in Geological Units

Geological Units	Description
Surficial and Earth Fill	All 16 boreholes encountered topsoil at ground surface ranging between 100 to 200 mm in thickness. Underlying the topsoil, all boreholes observed a layer of reworked earth fill that extended to depths of 0.8 to 0.9 meters below grade (Elev. 248.2 to 251.6 m). The reworked earth fill varies in composition but generally consists of sandy silt, silty sand, with some clay. This material contained trace amounts of rootlets, wood fragments, and rock fragments occasionally inferred cobbles. It frequently had an organic odour. The earth fill was typically dark brown and moist. Due to inconsistent placement and the inherent heterogeneity of earth fill materials, the relative density/consistency of the earth fill varies but is on average compact. Some of the earth fill soils may be native soil that has been disturbed or reworked in place by agricultural activities previously conducted at this site. Reworked soils are grouped within the earth fill unit based on their engineering properties and their suitability for foundations and pavements.
Sand and Gravel	Underlying the fill materials, all boreholes encountered an undisturbed native sand and gravel deposit at 0.8 to 0.9 mbg (Elev. 248.2 to 251.6 m) that extended down to a depth of 3.0 to 6.4 mbg (Elev. 244.5 to 247.8 m). The composition of this unit ranges from cohesionless sands and gravels to gravelly sand with some to trace rock fragments with inferred cobbles. The sand and gravel unit is about 2 to 6 m thick. The sand and gravel unit is generally moist and brown, becoming wet at Elev. 246± m. Standard Penetration Test (SPT) results (N-Values) measured in the earth fill range from 14 to over 50 blows per 300 mm of penetration ("bpf"), indicating a relative density ranging from compact to very dense (on average dense and very dense, but occasionally compact). Higher N-values are likely due to inferred cobbles. The lower N-values observed at depth (3± m below groundwater table) are likely due to basal disturbance during drilling. Higher undisturbed SPT N-values may be achieved with mud rotary drilling methods.
Sands	Underlying the sands and gravels, all boreholes encountered an undisturbed native sands deposit at 3.0 to 6.4 mbg (Elev. 244.5 to 247.8 m) and all boreholes terminated within the sand at depths of 8.2 to 9.8 m below grade (Elev. 239.9 to 244.2 m). The composition of this unit ranges from cohesionless sands with some silt to silty sands. The sand is generally wet and brown to greyish brown. SPT N-values measured in this unit range from 5 to over 50 bpf (on average compact, but occasionally loose or very dense). The lower N-values observed at depth (3± m below groundwater table) are likely due to basal disturbance during drilling. Higher undisturbed SPT N-values may be achieved with mud rotary drilling methods. Interbedded in the sand unit is a silt and clay to silt seam which was encountered in Borehole 104 at Elev. 246.2± m and in Borehole 115 at Elev. 245.0± m. This seam was inferred to be 1.5 m thick. SPT N-values measured in this unit range from 12 to 23 bpf, indicating a relative density ranging from stiff to very stiff.
Bedrock	Bedrock was not encountered during the investigation.



6.1.2 Properties of Aquifers and Aquitards

Aquifers/Aquitards	Description
Earth Fill	The Earth Fill on the Property is considered to be an unconfined aquifer. The earth fill is considered to be hydraulically connected to the native soil layers below. Any water within the fill is expected to migrate downwards into the native soil.
Sand and Gravel	The Sand and Gravel unit underneath the Property is considered to be an unconfined aquifer due to the presence of free flowing groundwater.
Sands	The Sands unit underneath the Property is considered to be an unconfined aquifer due to the presence of free flowing groundwater. This stratum was observed as wet during soil sampling.

6.2 Groundwater: Elevations and Flow Direction

A total of 16 monitoring wells have been installed by Grounded Engineering Inc. The monitoring wells were located within the APECs identified in the Phase I ESA (Grounded Engineering Inc., April 26, 2022) for the Property. Screened intervals of the monitoring wells were selected for the collection of groundwater samples within the desired stratum.

Groundwater level measurements were conducted by Grounded Engineering Inc. in the newly installed monitoring wells using a Solinst interface probe on the following dates:

- April 22, 2022
- April 29, 2022
- May 5, 2022
- June 15, 2022
- June 16, 2022

To calculate the groundwater elevation in the monitoring well, the following calculation was completed:

- $\text{Geodetic Ground Elevation (masl)} - \text{Measured Depth to Water Table (m)} + \text{Stick up of Well (m)} = \text{Groundwater Elevation (masl)}$

No light non-aqueous phase liquids (LNAPL) or dense non-aqueous phase liquids (DNAPL) or free-flowing products were detected on the Property. The groundwater levels are presented in Table 1 and Figure 4. The shallowest groundwater depth was measured at 0.2 mbgs (Elev. 252.2 masl) and was observed at BH104 located in the northwest corner of the Property on June 15, 2022.

Based on the groundwater elevations measured on the Property, the groundwater within the aquifer is encountered at a depth of approximately 0.2 to 1.3 mbgs (Elev. 252.2 to 249.4 masl) and was determined to flow locally to the southeast. Regional groundwater flow is expected to flow to the southeast towards the Mad River. Groundwater contours are presented in Figure 4.



6.3 Groundwater: Hydraulic Gradients

Horizontal Hydraulic Gradients	The horizontal hydraulic gradient at the Property was determined to be approximately 0.01 m/m based on the groundwater levels in boreholes BH104 and BH114.
Vertical Hydraulic Gradients	Based on the location and depths of the installed monitoring wells, the vertical gradient could not be calculated.
Hydraulic Conductivity (m/s)	<u>Earth Fill:</u> 1.0×10^{-5} (estimated using published values from Freeze and Cherry (1979)) <u>Sand and Gravel unit:</u> 3.6×10^{-4} to 5.4×10^{-6} (estimated by slug test analysis) <u>Sands unit:</u> 9.8×10^{-5} to 4.2×10^{-6} (estimated by slug test analysis)

6.4 Fine-Medium Soil Texture

Grain size analysis were completed for selected soil samples from the boreholes at the Property. The grain size analysis is provided in Appendix A.

Based on the grain size analysis completed, it was determined that at least 1/3 of the soil at the Property, measured by volume, consists of coarse textured soil. Therefore, the qualified person has determined that coarse textured soil standards will be applicable for this Property.

6.5 Soil – Field Screening

Based on field screening measurements and visual and olfactory examination of all soil samples, selected samples were submitted for petroleum hydrocarbon (PHCs) and volatile organic compounds (VOCs) laboratory analysis. Complete field screening readings are provided on the borehole logs in Appendix A. No anomalous organic vapour readings were identified to indicate the presence of any volatile contaminants.

6.6 Soil – Quality

6.6.1 Location and Depth of Samples

Sample ID	Depth / Elev.	Strata	M	H-M	ORPs	PAHs	PHCs	BTEX	VOCs/ THMs	OCs
	mbgs / masl									
Grounded Phase II ESA (2022)										
BH101 SS1	0.3 / 250.5	Sandy Silt (reworked)				✓		✓	✓	✓
BH101 SS2	1.1 / 249.7	Sand and Gravel	✓	✓	✓					
BH101 SS3	1.8 / 249.0	Sand and Gravel					✓	✓		



Sample ID	Depth / Elev.	Strata	M	H-M	ORPs	PAHs	PHCs	BTEX	VOCs/ THMs	OCs
	mbgs / masl									
BH102 SS1	0.3 / 251.3	Sandy Silt (reworked)	✓	✓	✓	✓				
BH102 SS2	1.1 / 250.5	Sand and Gravel								✓
BH102 SS3	1.8 / 249.8	Sand and Gravel					✓	✓		
BH102 SS4	2.6 / 249.0	Sand and Gravel						✓	✓	
BH103 1B	0.5 / 251.2	Sandy Silt (reworked)								✓
BH103 SS2	1.1 / 250.7	Sand and Gravel	✓	✓	✓	✓				
BH103 SS3	1.8 / 250.0	Sand and Gravel					✓	✓		
BH103 SS7	6.4 / 245.4	Sand						✓	✓	
BH104 SS1	0.3 / 252.1	Sandy Silt (reworked)				✓				✓
BH104 SS2	1.1 / 251.3	Sand and Gravel	✓	✓	✓					
BH104 SS4	2.6 / 249.8	Sand and Gravel					✓	✓		
BH104 SS6	4.9 / 247.5	Sand						✓	✓	
BH105 1A	0.1 / 252.2	Topsoil								✓
BH105 SS2	1.1 / 251.2	Sand and Gravel				✓				
BH105 SS3	1.8 / 250.4	Sand and Gravel	✓	✓	✓					
BH105 SS4	2.6 / 249.6	Sand and Gravel					✓	✓		
BH105 SS6	4.9 / 247.4	Sand and Gravel						✓	✓	
BH106 SS1	0.3 / 251.0	Sandy Silt (reworked)	✓	✓	✓	✓				
BH106 SS3	1.8 / 249.5	Sand and Gravel								✓
BH106 SS4	2.6 / 248.7	Sand and Gravel					✓	✓	✓	
BH107 SS1	0.3 / 250.5	Sandy Silt (reworked)						✓	✓	
BH107 SS2	1.1 / 249.7	Sand and Gravel					✓	✓		✓
BH107 SS3	1.8 / 248.9	Sand and Gravel				✓				



Sample ID	Depth / Elev.	Strata	M	H-M	ORPs	PAHs	PHCs	BTEX	VOCs/ THMs	OCs
	mbgs / masl									
BH107 SS4	2.6 / 248.2	Sand and Gravel	✓	✓	✓					
BH108 1B	0.4 / 250.3	Sandy Silt (reworked)								✓
BH108 SS2	1.1 / 249.6	Sand and Gravel	✓	✓	✓					
BH108 SS3	1.8 / 248.8	Sand and Gravel				✓				
BH108 SS4	2.6 / 248.1	Sand and Gravel					✓	✓		
BH108 SS5	3.4 / 247.3	Sand and Gravel						✓	✓	
BH109 SS1	0.3 / 251.4	Sandy Silt (reworked)	✓	✓	✓					✓
BH109 SS2	1.1 / 250.6	Sand and Gravel				✓				
BH109 SS5	3.4 / 248.4	Sand and Gravel					✓	✓		
BH109 SS7	6.4 / 245.3	Sand					✓	✓		
BH109 SS8	7.9 / 243.8	Sand						✓	✓	
BH110 SS1	0.3 / 250.7	Sandy Silt (reworked)								✓
BH110 SS2	1.1 / 249.9	Sand and Gravel	✓	✓	✓					
BH110 SS3	1.8 / 249.2	Sand and Gravel				✓				
BH110 SS5	3.4 / 247.6	Sand and Gravel					✓	✓		
BH110 SS8	6.4 / 244.6	Sand						✓	✓	
BH111 SS1	0.3 / 249.7	Sandy Silt (reworked)								✓
BH111 SS2	1.1 / 248.9	Sand and Gravel				✓				
BH111 SS3	1.8 / 248.2	Sand and Gravel	✓	✓	✓					
BH111 SS4	2.6 / 247.4	Sand and Gravel					✓	✓		
BH111 SS7	6.4 / 243.6	Sand						✓	✓	
BH112 SS1	0.3 / 249.2	SL-Sand								✓
BH112 SS4	2.6 / 246.9	Sand and Gravel	✓	✓	✓	✓				



Sample ID	Depth / Elev.	Strata	M	H-M	ORPs	PAHs	PHCs	BTEX	VOCs/ THMs	OCs
	mbgs / masl									
BH112 SS6	4.9 / 244.7	Sand					✓	✓		
BH112 SS7	6.4 / 243.1	Sand						✓	✓	
BH113 SS1	0.3 / 249.1	Sandy Silt (reworked)	✓	✓	✓					
BH113 SS2	1.1 / 248.3	Sand and Gravel				✓				✓
BH113 SS3	1.8 / 247.5	Sand and Gravel					✓	✓	✓	
BH114 SS1	0.3 / 248.7	Sandy Silt, clayey (reworked)	✓	✓	✓					
BH114 2A	0.8 / 248.2	Sandy Silt, clayey (reworked)								✓
BH114 2B	1.1 / 247.9	Sand and Gravel				✓				
BH114 SS3	1.8 / 247.2	Sand and Gravel					✓	✓		
BH114 SS4	2.6 / 246.5	Sand and Gravel						✓	✓	
BH115 1B	0.5 / 249.2	Sandy Silt (reworked)								✓
BH115 SS2	1.1 / 248.6	Sand and Gravel						✓	✓	
BH115 SS3	1.8 / 247.8	Sand and Gravel					✓	✓		
BH115 SS4	2.6 / 247.1	Sand and Gravel				✓				
BH115 SS5	3.4 / 246.3	Sand and Gravel	✓	✓	✓					
BH116 2B	1.1 / 248.9	Sand and Gravel								✓
BH116 SS3	1.8 / 248.2	Sand and Gravel	✓	✓	✓	✓				
BH116 SS4	2.6 / 247.5	Sand and Gravel					✓	✓		
BH116 SS7	6.4 / 243.7	Sand						✓	✓	



6.6.2 Comparison to Applicable Standards

Selected soil samples were analyzed for Contaminants of Potential Concern (CoPCs) of the following:

- Metals
- Hydride-Forming Metals
 - Sb, As, Se
- Select ORPs
 - B-HWS
 - CN-
 - EC
 - SAR
 - Cr(VI)
 - Hg
- PAHs
- PHCs
- BTEX
- VOCs
- THMs
- OCs

The results of the analysis were compared to the applicable Site Condition Standard for the Phase II Property (Table 2 RPI CT). The laboratory certificates of analysis are provided in Appendix B, and the results of the soil chemical analysis are provided in Tables 2 to 7 and presented on Figure 5.

Comparison Table (Table 2 RPI CT Standard)		
Parameter Analyzed	Exceed/Meet	Note
Metals	Meet	None
Hydride-forming Metals	Meet	None
ORPs	Meet	SAR - Refer to section 6.6.2.1
PAHs	Meet	None
PHC	Meet	None
BTEX	Meet	None
VOC	Meet	None



Comparison Table (Table 2 RPI CT Standard)		
Parameter Analyzed	Exceed/Meet	Note
THM	Meet	None
OCs	Meet	None

6.6.2.1 SAR Exceedances

The laboratory reported that sodium adsorption ratio (SAR) for soil sample BH103 SS2 was incalculable due to calcium (Ca) and magnesium (Mg) concentrations being below the detectable limit, and with sodium (Na) being above the detectable limit. The lowest possible SAR was reported for BH103 SS2 as a minimum value, as shown below.

Sample Name	Units	MECP Table 2 RPI CT	RDL	BH103 SS2	DUP-6 (BH103 SS2)
Date				Apr. 26, 2022	Apr. 26, 2022
Depth of Sample (m)				1.1	1.1
Elev. of Sample (masl)				250.7	250.7
SAR	SAR	5	0.10	>14.	>14.
Calcium (Ca)	mg/L	NV	0.50	<0.50	<0.50
Magnesium (Mg)	mg/L	NV	0.50	<0.50	<0.50
Sodium (Na)	mg/L	NV	0.50	57.8	59.3

NV = No value

All other 16 soil samples collected from the Property met the applicable site condition standards (MECP Table 2 RPI CT). It is the opinion of the Qualified Person that the reported exceedances of SAR associated with BH103 SS2 was an anomaly caused by the low magnesium and calcium concentrations in the soil sample. Therefore, the applicable site conditions standards are considered to have been met for SAR in soils at the Property.

In addition, SAR is a salt related compound and BH103 is located adjacent to the north of the municipal roadway Edward Street East. The roadway is salted during the winter months for safety purposes.

The Qualified Person has determined, based on the Phase I Environmental Site Assessment and the Phase II Environmental Site Assessment, that a substance (salt) has been applied to surfaces of the roadway for the safety of vehicular and pedestrian traffic under conditions of snow or ice or both.

The applicable site condition standard is exceeded at the Property solely because of the reason as stated above (application of salt for safety purposes during winter months). As per O.Reg. 153/04 49.1 the applicable site condition standard is deemed not to be exceeded for the purpose of Part XV.1 of the Act.



6.6.3 Contaminants of Concern

No Contaminants of Concern were identified within the earth fill and native soil on the Property.

6.6.4 Contamination Impact on Other Media

No Contaminants of Concern were identified within the earth fill and native soil on the Property. It is unlikely that other media on the Property will be impacted.

6.6.5 Chemical or Biological Transformations

No chemical or biological transformations are likely to occur since no Contaminants of Concern were identified in the soil on the Property.

6.6.6 Presence of Light or Dense Non-Aqueous Phase Liquids

No light non-aqueous phase liquids (LNAPL) or dense non-aqueous phase liquids (DNAPL) were detected in the soil on the Property.

6.7 Groundwater Quality

6.7.1 Location and Depth of Samples

Sample ID	Screen Depth		Screened Strata	Metals	H-Metals	ORPs	PHC & BTEX	VOCs & THMs	OCs
	mbgs	masl							
Grounded Phase II ESA (2022)									
BH104	4.6 - 7.6	247.8 - 244.8	Sand and Gravel Unit / Sand Unit	✓	✓	✓	✓	✓	✓
BH105	4.6 - 7.6	247.7 - 244.6	Sand and Gravel Unit / Sand Unit	✓	✓	✓	✓	✓	✓
BH106	4.6 - 7.6	246.7 - 243.7	Sand and Gravel Unit / Sand Unit				✓	✓	
BH107	4.6 - 7.6	246.2 - 243.1	Sand and Gravel Unit / Sand Unit	✓	✓				✓
BH109	4.3 - 7.3	247.4 - 244.4	Sand and Gravel Unit / Sand Unit	✓	✓	✓	✓	✓	✓
BH113	4.6 - 7.6	244.8 - 241.7	Sand and Gravel Unit / Sand Unit	✓	✓				✓
BH115	6.1 - 9.1	243.6 - 240.5	Sand Unit	✓	✓				✓



Sample ID	Screen Depth		Screened Strata	Metals	H-Metals	ORPs	PHC & BTEX	VOCs & THMs	OCs
	mbgs	masl							
BH116	4.6 - 7.6	245.5 - 242.4	Sand and Gravel Unit / Sand Unit	✓	✓				✓

Field filtering as per the requirements of the MECP *"Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act"* July 2011, was completed.

6.7.2 Comparison to Applicable Standards

Selected groundwater samples were analyzed for Contaminants of Potential Concern (CoPCs) of the following:

- Metals
- Hydride-forming metals
 - Sb, As, Se
- Selected Other Regulated Parameters (ORPs)
 - Cr(VI), Hg, Na
- PHCs
- BTEX
- VOCs
- THMs
- OCs

The results of the analysis were compared to the applicable Site Condition Standard for the Phase II Property (Table 2 CT). The laboratory certificates of analysis are provided in Appendix B, and the results of the groundwater chemical analysis are provided in Tables 8 to 12 and presented on Figure 5.

Comparison Table (Table 2 RPI CT Standard)		
Parameter Analyzed	Exceed/Meet	Notes
Metals	Meet	None
Hydride-forming Metals	Meet	None
ORPs	Meet	None
PHCs	Meet	None



Comparison Table (Table 2 RPI CT Standard)		
Parameter Analyzed	Exceed/Meet	Notes
BTEX	Meet	None
VOCs	Meet	None
THMs	Meet	None
OCs	Meet	None

6.7.3 Contaminants of Concern

No Contaminants of Concern were identified in the groundwater on the Property.

6.7.4 Contamination Impact on Other Media

No Contaminants of Concern were identified with the groundwater on the Property. It is unlikely that other media on the Property will be impacted.

6.7.5 Chemical or Biological Transformations

No chemical or biological transformations are likely to occur since no Contaminants of Concern were identified in the groundwater on the Property.

6.7.6 Presence of Light or Dense Non-Aqueous Phase Liquids

No light non-aqueous phase liquids (LNAPL) or dense non-aqueous phase liquids (DNAPL) were detected in the soil on the Property.

6.8 Quality Assurance and Quality Control Results

Quality Assurance (QA) and Quality Control (QC) were maintained as per described in Section 5.12 above. In addition, laboratory results were compared to MECP standards for QA/QC under Ontario Regulation 153/04 which requires laboratory results to meet specific method detection limit (MDL) conditions. The sampling and analysis performed conformed with the following guidelines:

1. Ministry of the Environment, Conservation and Parks Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario.
2. Protocol of Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act of Ontario.



Duplicated samples were submitted at a rate of 10% for both soil and groundwater samples.

All the samples collected and submitted for analysis adhered to the holding times, preservation methods, storage requirement and container type as specified by the guidelines listed above.

6.8.1 Subsection 47 (3) of the Regulation

All certificates of analysis or analytical reports received pursuant to clause 47 (2) (b) of the regulation comply with subsection 47 (3). A certificate of analysis or analytical report has been received for each sample submitted for analysis. All certificates of analysis or analytical reports received have been in full in an appendix to the Phase II ESA report.

6.8.2 Laboratory Qualification of Results

The laboratory reported that sodium adsorption ratio (SAR) for soil sample BH103 SS2 was incalculable due to calcium (Ca) and magnesium (Mg) concentrations being below the detectable limit, and with sodium (Na) being above the detectable limit. The lowest possible SAR was reported for BH103 SS2 as a minimum value, as shown below.

Sample Name	Units	MECP Table 2 RPI CT	RDL	BH103 SS2	DUP-6 (BH103 SS2)
Date				Apr. 26, 2022	Apr. 26, 2022
Depth of Sample (m)				1.1	1.1
Elev. of Sample (masl)				250.7	250.7
SAR	SAR	5	0.10	>14.	>14.
Calcium (Ca)	mg/L	NV	0.50	<0.50	<0.50
Magnesium (Mg)	mg/L	NV	0.50	<0.50	<0.50
Sodium (Na)	mg/L	NV	0.50	57.8	59.3

NV = No value

6.8.3 Overall Quality of Field Data

Decision-making related to the quality of field data of the Property was not affected. The overall quality of the field data was considered by the Qualified Person to meet the objectives of the investigation and assessment.



7 Conclusions

The location and concentration of contamination is provided below:

Soil	No exceedances of the applicable Site Condition Standards were identified in the soil on the Property.
Groundwater	No exceedances of the applicable Site Condition Standards were identified in the groundwater underneath the Property.

No exceedances of the applicable Site Condition Standards were identified for the soil and groundwater on/underneath the Property.

No additional environmental investigation is recommended at this time. A Record of Site Condition (RSC) is not required for the site for continued agricultural use.



7.1 Signatures

The Phase II ESA was conducted by James Rybicki, P.Eng., QP_{ESA}, under the supervision of Jeremy Bobro, M.Env. The Phase II ESA has been conducted in general accordance with CSA Standard Z769-00.

We trust that this report meets your requirements at present.

For and on behalf of our team,



James Rybicki, P.Eng., QP_{ESA}

Jeremy Bobro, M.Env
Associate



8 References

1. Armstrong, D.K. and Dodge, J.E.P. 2007. Paleozoic Geology Map of Southern Ontario. Ontario Geological Survey. Miscellaneous Release--Data 219.
2. Chapman, L.J. and Putnam, D.F. 2007. The Physiography of Southern Ontario. Ontario Geological Survey. Miscellaneous Release--Data 228.
3. Gao, C., Shiota, J., Kelly, R. I., Brunton, F.R., van Haaften, S. 2006. Bedrock topography and overburden thickness mapping, southern Ontario. Ontario Geological Survey. Miscellaneous Release--Data 207.
4. Grounded Engineering Inc. April 26, 2022. Phase I Environmental Site Assessment; 163-164 Edward Street East, Clearview Township (Creemore), Ontario. File No. 22-052.
5. Ministry of the Environment, Conservation and Parks. Source Protection Information Atlas. Available from: <https://www.lioapplications.lrc.gov.on.ca/SourceWaterProtection/index.html?viewer=SourceWaterProtection.SWPViewer&locale=en-CA>.
6. Nottawasaga Valley Conservation Authority. NVCA Interactive Mapping Tool. Available from: https://maps2.camaps.ca/GVH/Index.html?configBase=https://maps2.camaps.ca/Geocortex/Essentials/REST/sites/NVCA_Public/viewers/NVCA_Staff_Viewer/virtualdirectory/Resources/Config/Default.
7. Ontario Geological Survey 2011. 1:250,000 scale bedrock geology of Ontario. Ontario Geological Survey. Miscellaneous Release--Data 126-Revision 1.
8. Ontario Geological Survey. 2010. Surficial geology of Southern Ontario. Ontario Geological Survey. Miscellaneous Release--Data 128-Revised.
9. Ontario Geological Survey. 2000. Quaternary geology, seamless coverage of the Province of Ontario. Ontario Geological Survey. Data Set 14--Revised.
10. Ontario Ministry of the Environment, December 1996. *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*.
11. Ontario Ministry of the Environment, April 2011. *Soil, Ground Water and Sediment Standards for use under Part XV. 1*
12. Ontario Ministry of the Environment, June 2011. *Guide for Completing Phase Two Environmental Site Assessments under Ontario Regulation 153/04*.
13. Ontario Ministry of the Environment, July 2011. *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV. 1 of the Environmental Protection Act*.
14. Township of Clearview. Clearview Township Interactive Map. Available from: <https://www.clearview.ca/municipal-services/interactive-maps>.



9 Limitations and Restrictions

The Phase II ESA report was prepared for the purpose of identifying potential environmental concerns, including an assessment of the likelihood that the environmental quality of the soil and groundwater at the Property may have been adversely affected by past or present practices at the Property, and/or those of the adjacent properties prior to development of the Property. Any use of which a third party makes of this report, or any reliance on or decision to be made based on it, are the responsibility of such third parties. Grounded Engineering Inc. does not assume any responsibility for errors, omissions, damages or other limitation pertaining to third parties.

The information presented in this report is based on information collected during the completion of the subsurface investigation conducted by Grounded Engineering Inc. It is based on conditions at the Property at the time of the inspection. The subsurface conditions were assessed based on information collected at specific borehole and monitoring well locations. The actual subsurface conditions between sampling points may be different.

The conclusions presented in this report are based on work undertaken by trained professional and technical staff and are the product of professional care and competence. The report cannot be construed as legal advice or as an absolute guarantee.

If new information regarding the environmental condition of the Phase II Property is identified during future work, or outstanding responses from regulatory agencies indicate outstanding issues on file with respect to the Phase II Property, Grounded Engineering Inc. should be notified so that we may re-evaluate the findings of this assessment and provide amendments.

9.1 Report Use

The authorized users of this report are Lamb Creemore Corp., for whom this report has been prepared. Grounded Engineering Inc. maintains the copyright and ownership of this document. Reproduction of this report in any format or medium requires explicit prior authorization from Grounded Engineering Inc.

FIGURES





GROUND
ENGINEERING

1 BANIGAN DRIVE, TORONTO, ONT., M4H 1G3
www.groundedeng.ca

LEGEND

— APPROXIMATE PROPERTY BOUNDARY

Note

Reference

ArcGIS - My Map

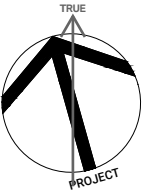
Project

**163-164 EDWARD
STREET EAST,
CREEMORE, ONTARIO**

Figure Title

SITE LOCATION PLAN

North



Date

JULY 2022

Scale

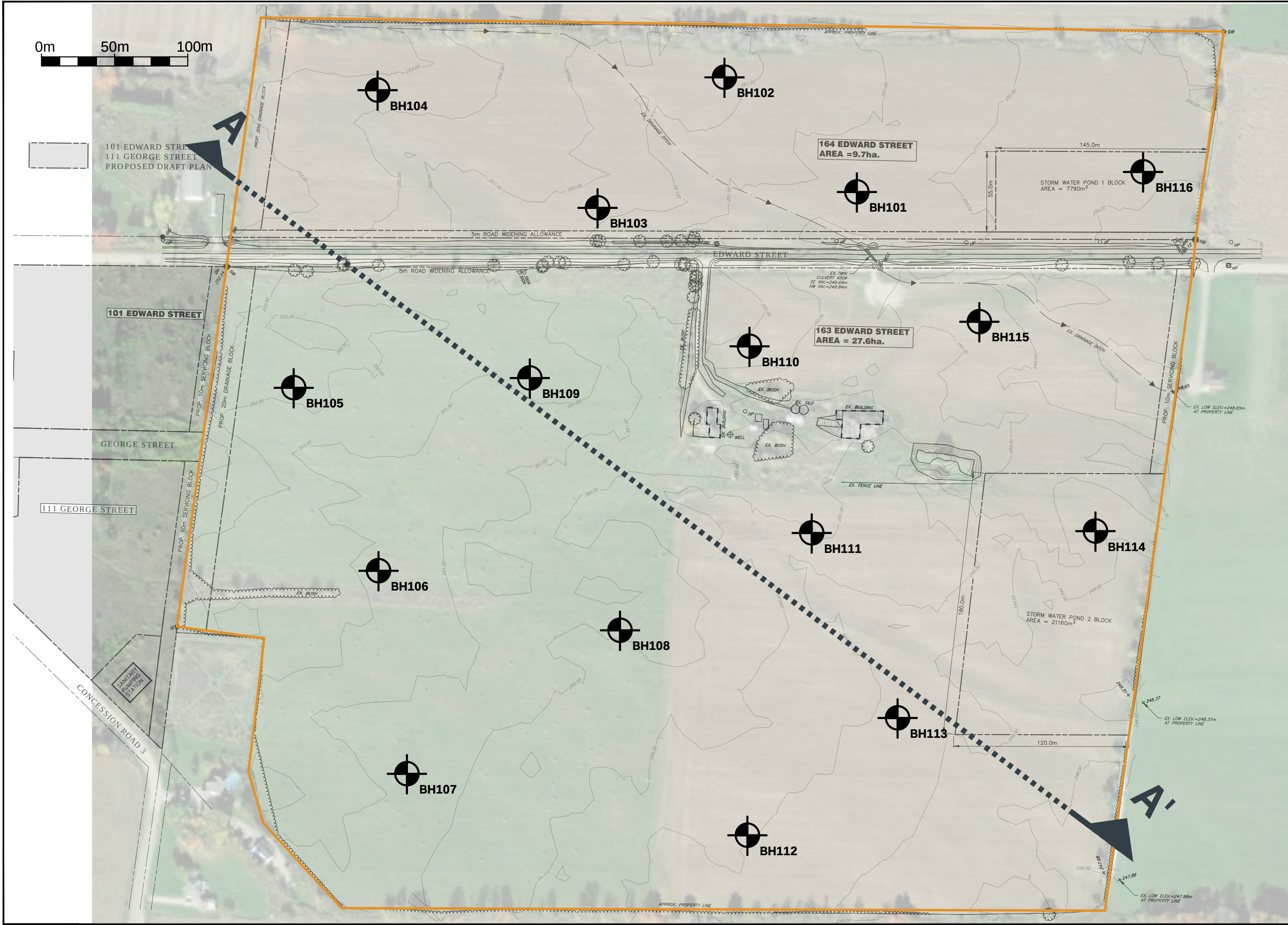
AS INDICATED

Job No

22-052

Figure No

FIGURE 1



GROUND
ENGINEERING

1 BANIGAN DRIVE, TORONTO, ONT., M4H 1G3
www.groundedeng.ca

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- DEMOLISHED BUILDING STRUCTURE
- GROUND BOREHOLE AND MONITORING WELL

Note

Reference

Tatham Engineering. Preliminary
Constraints Mapping: 163, 164 Edward
Street, Creemore. Dated October 2019.
Scale 1:1250. Drawing No. CM-1.

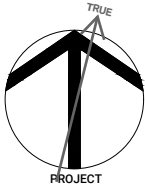
Project

**163-164 EDWARD
STREET EAST,
CREEMORE, ONTARIO**

Figure Title

**BOREHOLE AND
MONITORING WELL
LOCATIONS**

North



Date

JULY 2022

Scale

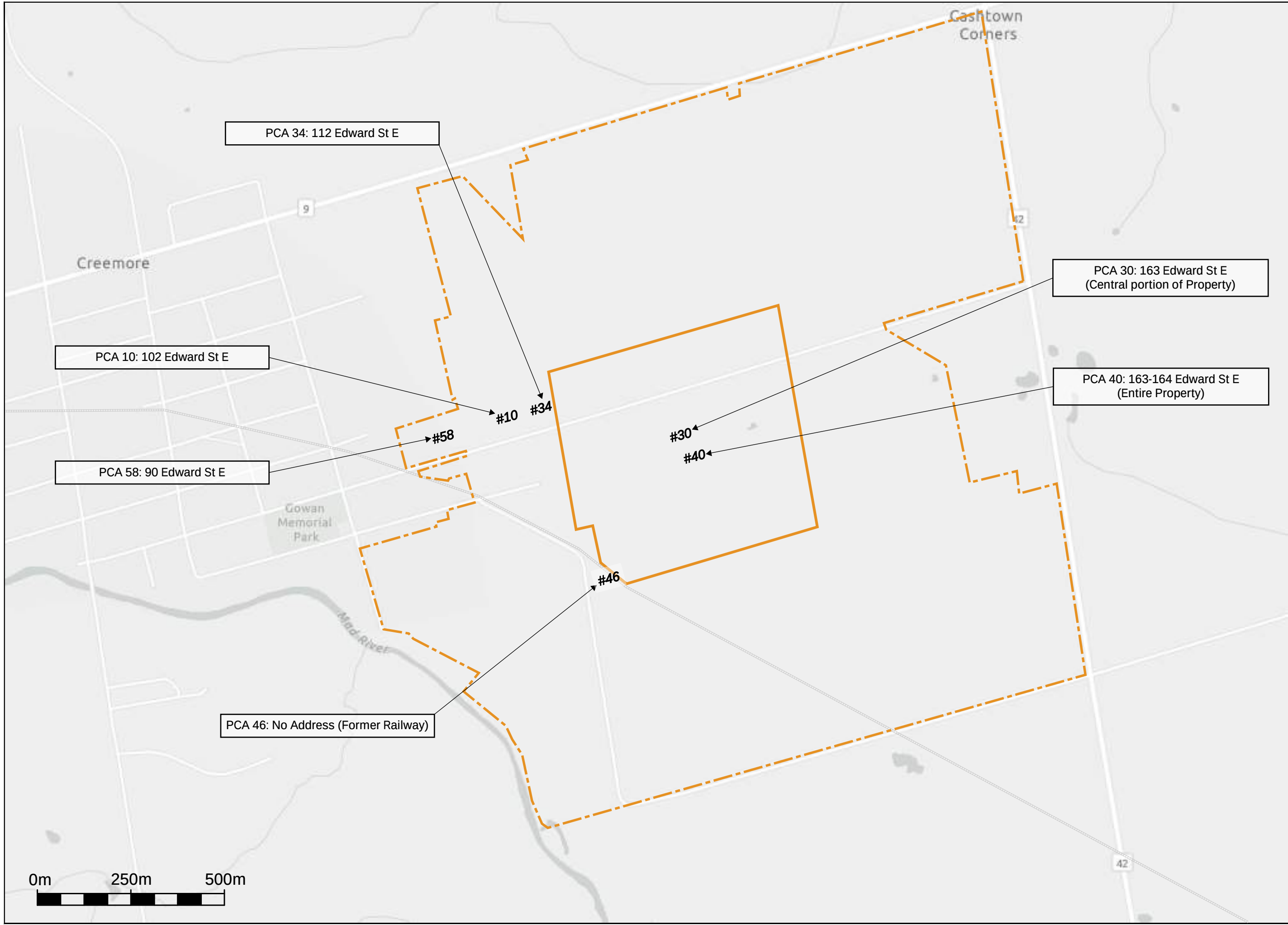
AS INDICATED

Job No

22-052

Figure No

FIGURE 2



GROUND
ENGINEERING

1 BANIGAN DRIVE, TORONTO, ONT., M4H 1G3
www.groundedeng.ca

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- STUDY AREA (250 m RADIUS)
- HISTORICAL RAILWAY

#10 – Commercial Autobody Shops
#30 – Importation of Fill Material of Unknown Quality
#34 – Metal Fabrication
#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications
#46 – Rail Yards, Tracks and Spurs
#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners

Note

Reference

ArcGIS - My Map. 2022.

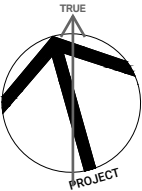
Project

**163-164 EDWARD
STREET EAST,
CREEMORE, ONTARIO**

Figure Title

PCA LOCATIONS

North



Date

JULY 2022

Scale

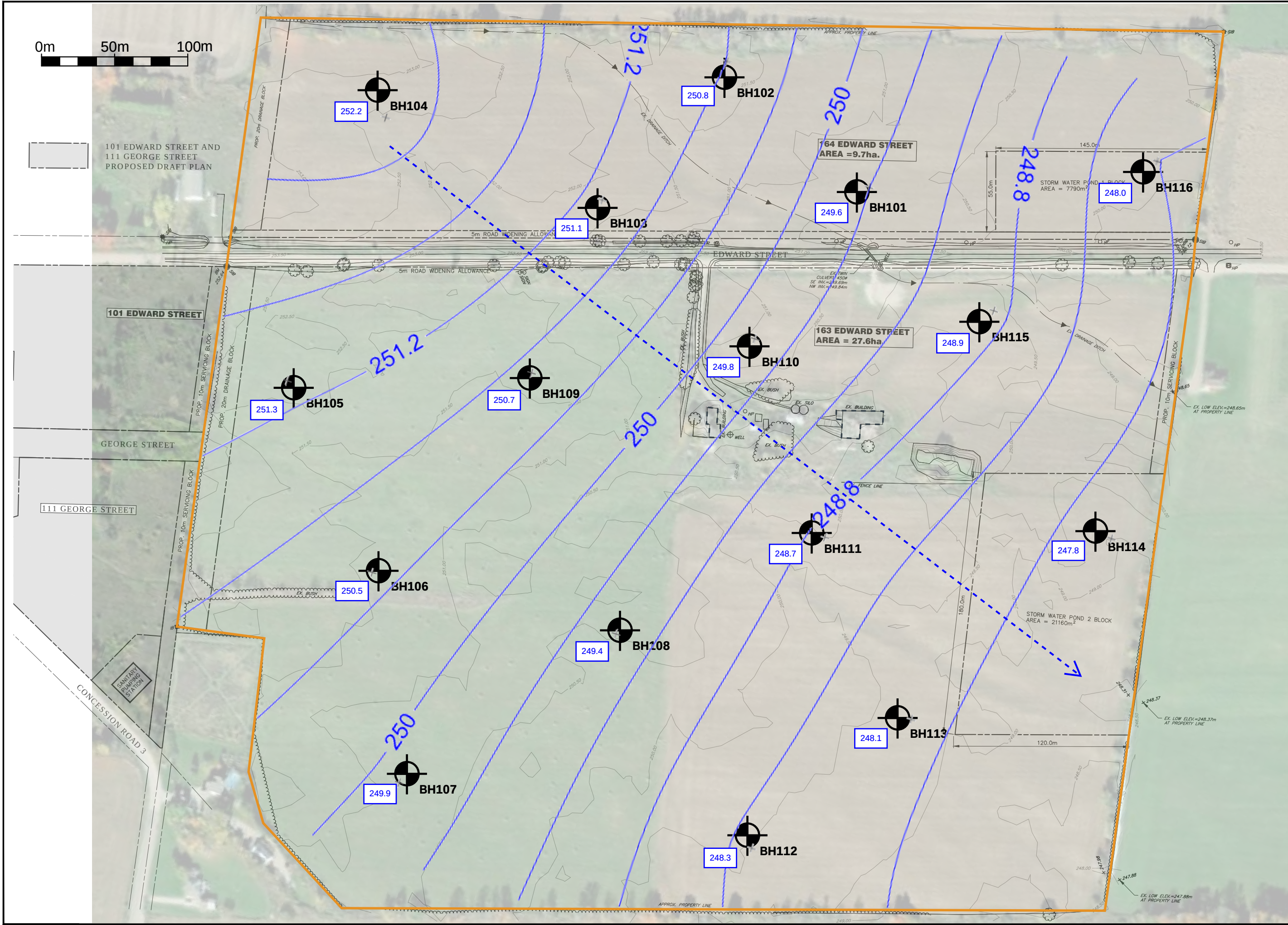
AS INDICATED

Job No

22-052

Figure No

FIGURE 3



**GROUND
ENGINEERING**

1 BANIGAN DRIVE, TORONTO, ONT., M4H 1G3
www.groundedeng.ca

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- DEMOLISHED BUILDING STRUCTURE
- GROUNDWATER BOREHOLE AND MONITORING WELL
- GROUNDWATER ELEVATIONS (masl)
- GROUNDWATER CONTOURS (masl)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

Note

Water levels taken during June 15, 2022 monitoring event from Boreholes 101 to 106.

Reference

Tatham Engineering. Preliminary Constraints Mapping: 163, 164 Edward Street, Creemore. Dated October 2019. Scale 1:1250. Drawing No. CM-1.

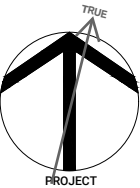
Project

**163-164 EDWARD STREET EAST,
CREEMORE, ONTARIO**

Figure Title

**GROUNDWATER
ELEVATIONS AND
CONTOURS**

North



Date

JULY 2022

Scale

AS INDICATED

Job No

22-052

Figure No

FIGURE 4



1 Banigan Drive, Toronto, Ont., M4H 1G3
www.groundedeng.ca

LEGEND

- FILL
- GRAVELS (gravel to gravelly sand)
- SILT TO SAND (not till)
- COHESIONLESS TILLS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC

- water level, unstabilized
- water level, stabilized

Project

Figure Title

SOIL & GROUNDWATER
SECTION A-A'
ALL PARAMETERS TESTED

Date

JULY 2022

Scale

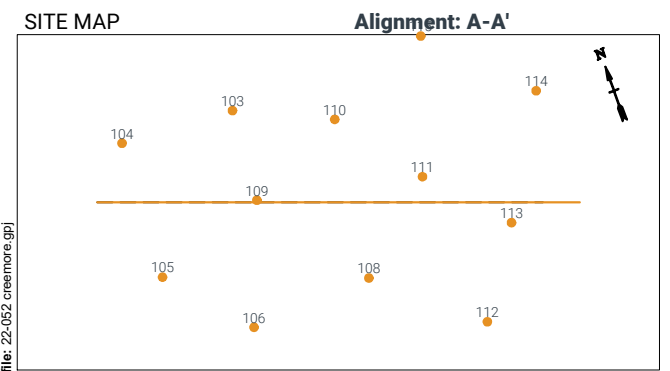
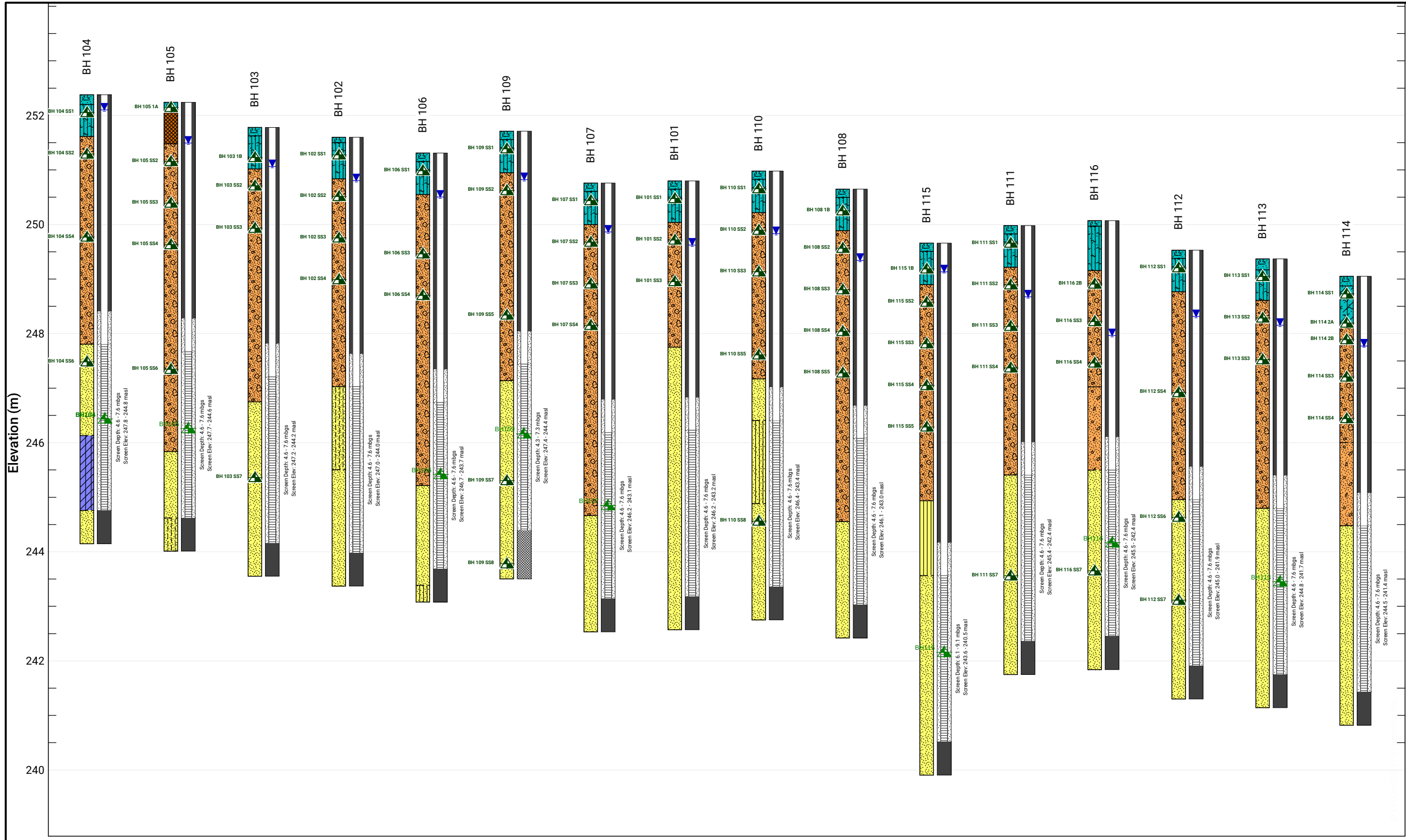
AS INDICATED

Job No

22-052

Figure No

FIGURE 5



Boreholes Equally Spaced

BOREHOLE STRATIGRAPHY LEGEND

- | | | |
|--------------------|---------------|---------------------------|
| Topsoil | Silty Sand | Organic Clayey Sandy Silt |
| Organic Sandy Silt | Silt and Clay | Gravelly Sand |
| Sand and Gravel | Fill | Silt |
| Sand | Sandy Silt | |

- SS1 SOIL SAMPLE LOCATION MEETS STANDARD
- SS1 SOIL SAMPLE LOCATION EXCEEDS STANDARD
- BH101 GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- BH101 GROUNDWATER SAMPLE LOCATION EXCEEDS STANDARD

TABLE 1



TABLE 1
GROUNDWATER ELEVATIONS
163-164 EDWARD ST E
CREEMORE, ON
PROJECT # 22-052

					Grounded Engineering										Minimum Elev. (Lowest)		Maximum Elev. (Highest)		Seasonal Fluctuation
Well ID	Ground Surface Elevation (masl)	Screen Interval	Screen Interval	Soil Strata	April 22, 2022		April 29, 2022		May 5, 2022		June 15, 2022		June 16, 2022		(mbgs)	(masl)	(mbgs)	(masl)	(±m)
		(mbgs)	(masl)		(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)					
BH101	250.8	4.6 - 7.6	246.2 - 243.2	Sand Unit	—	—	1.1	249.7	1.1	249.7	1.2	249.6	—	—	1.2	249.6	1.1	249.7	0.1
BH102	251.6	4.6 - 7.6	247.0 - 244.0	Sand and Gravel Unit / Sand Unit	—	—	0.9	250.7	—	—	0.8	250.8	—	—	0.9	250.7	0.8	250.8	0.0
BH103	251.8	4.6 - 7.6	247.2 - 244.2	Sand and Gravel Unit / Sand Unit	—	—	0.8	251.0	0.7	251.1	0.7	251.1	—	—	0.8	251.0	0.7	251.1	0.1
BH104	252.4	4.6 - 7.6	247.8 - 244.8	Sand and Gravel Unit / Sand Unit	—	—	0.3	252.1	—	—	0.2	252.2	0.3	252.1	0.3	252.1	0.2	252.2	0.1
BH105	252.2	4.6 - 7.6	247.7 - 244.6	Sand and Gravel Unit / Sand Unit	—	—	0.8	251.4	0.7	251.5	0.9	251.3	0.8	251.4	0.9	251.3	0.7	251.5	0.1
BH106	251.3	4.6 - 7.6	246.7 - 243.7	Sand and Gravel Unit / Sand Unit	—	—	0.8	250.5	—	—	0.8	250.5	0.8	250.5	0.8	250.5	0.8	250.5	0.0
BH107	250.8	4.6 - 7.6	246.2 - 243.1	Sand and Gravel Unit / Sand Unit	—	—	0.9	249.9	0.9	249.9	0.9	249.9	0.9	249.9	0.9	249.9	0.9	249.9	0.0
BH108	250.7	4.6 - 7.6	246.1 - 243.0	Sand and Gravel Unit / Sand Unit	—	—	1.2	249.5	—	—	1.3	249.4	—	—	1.3	249.4	1.2	249.5	0.1
BH109	251.7	4.3 - 7.3	247.4 - 244.4	Sand and Gravel Unit / Sand Unit	—	—	1.0	250.7	0.8	250.9	1.0	250.7	0.9	250.8	1.0	250.7	0.8	250.9	0.1
BH110	251.0	4.6 - 7.6	246.4 - 243.4	Sand Unit	0.8*	250.2*	—	—	—	—	1.2	249.8	—	—	1.2	249.8	1.2	249.8	0.0
BH111	250.0	4.6 - 7.6	245.4 - 242.4	Sand and Gravel Unit / Sand Unit	—	—	1.1	248.9	1.1	248.9	1.3	248.7	—	—	1.3	248.7	1.1	248.9	0.1
BH112	249.5	4.6 - 7.6	245.0 - 241.9	Sand and Gravel Unit / Sand Unit	1.0*	248.5*	—	—	—	—	1.2	248.3	—	—	1.2	248.3	1.2	248.3	0.0
BH113	249.4	4.6 - 7.6	244.8 - 241.7	Sand and Gravel Unit / Sand Unit	0.9*	248.5*	—	—	1.0	248.4	1.3	248.1	1.2	248.2	1.3	248.1	1.0	248.4	0.1
BH114	249.1	4.6 - 7.6	244.5 - 241.4	Sand and Gravel Unit / Sand Unit	0.8*	248.3*	—	—	—	—	1.3	247.8	—	—	1.3	247.8	1.3	247.8	0.0
BH115	249.7	6.1 - 9.1	243.6 - 240.5	Sand Unit	0.3*	249.4*	—	—	0.5	249.2	0.8	248.9	0.6	249.1	0.8	248.9	0.5	249.2	0.1
BH116	250.1	4.6 - 7.6	245.5 - 242.4	Sand and Gravel Unit / Sand Unit	—	—	1.8*	248.3*	—	—	2.1	248.0	—	—	2.1	248.0	2.1	248.0	0.0

mbgs = metres below existing ground surface
masl = metres above sea level
* = unstabilized groundwater level
NA = not available: unable to access monitoring well
— = no value: monitoring well not accessed

TABLE 2
SOIL QUALITY ANALYSIS
METALS, HYDRIDE METALS, OTHER REGULATED PARAMETERS
163-164 EDWARD ST E
CREEMORE, ON
PROJECT # 22-052

Sample Name					BH110 SS2	BH115 SS5	BH114 SS1	BH112 SS4	BH113 SS1	BH111 SS3	BH108 SS2	DUP-1 (BH108 SS2)	BH107 SS4	BH106 SS1	BH105 SS3	BH109 SS1	BH103 SS2	DUP - 6 (BH103 SS2)	BH104 SS2	BH102 SS1	BH101 SS2	BH116 SS3
COC ID #	Units	MECP Table 2 2011 Criteria RPI CT	RDL	Maximum	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892
Date					4/18/2022	4/18/2022	4/19/2022	4/19/2022	4/19/2022	4/20/2022	4/20/2022	4/20/2022	4/20/2022	4/21/2022	4/21/2022	4/25/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/27/2022	4/27/2022
Depth of Sample (m)					1.1	3.4	0.3	2.6	0.3	1.8	1.1	1.1	2.6	0.3	1.8	0.3	1.1	1.1	1.1	0.3	1.1	1.8
Elev of Sample (masl)					249.9	246.3	248.7	246.9	249.1	248.2	249.6	249.6	248.2	251	250.4	251.4	250.7	250.7	251.3	251.3	249.7	248.2
Parameter																						
Metals																						
Barium	µg/g	390	0.01	142	25.9	21.8	142	30.7	91.7	27	27.6	26.6	78.5	95.4	33.9	35.3	28	26.8	37.8	108	17.2	17.8
Beryllium	µg/g	4	0.02	0.85	<0.50	<0.50	0.85	<0.50	0.59	<0.50	<0.50	<0.50	<0.50	0.64	<0.50	<0.50	<0.50	<0.50	<0.50	0.64	<0.50	<0.50
Boron	µg/g	120	1	14.8	9	52	11.8	7.7	8.4	7.1	9.5	9	6.3	14.8	10.3	<5.0	7.9	6.1	8.8	6.3	<5.0	<5.0
Cadmium	µg/g	1.2	0.02	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium	µg/g	160	0.5	22.8	9.3	9.8	22.8	11.6	17	8.3	9.7	8.9	7.5	20.3	9.6	12.9	9.1	7.8	8.6	18.5	8.1	6.3
Cobalt	µg/g	22	0.01	9.6	3.6	3.2	9.6	4.8	7.9	3.6	4.1	3.7	6.8	8.2	4	6	3.3	3	4.3	8.3	2.5	2.7
Copper	µg/g	140	0.1	43.3	24.9	16.1	43.3	30	34.8	30.2	25.8	22.4	19.7	34.2	25.5	14.2	21.2	18.4	24.8	35.6	14.4	15.9
Lead	µg/g	120	0.1	13.2	4.6	3.5	11.3	4.8	13.2	4.9	4.5	4.1	2.9	11.8	4.1	5.9	5.3	4	5.5	12.3	2.7	2.6
Molybdenum	µg/g	6.9	0.1	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	µg/g	100	0.1	22	8.5	5.6	22	10.7	15.4	7.7	8.8	7.9	9.3	16	8.7	10	7	6.3	9.8	17.5	5	5.8
Silver	µg/g	20	0.01	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	µg/g	1	0.02	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	µg/g	23	0.002	<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	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	µg/g	86	3	35.8	15.3	22	35.8	14.8	27.7	15.9	15	14.1	28	30.2	17.3	24.9	15.1	13.1	13	29.8	20.9	14.8
Zinc	µg/g	340	0.7	128	19.8	14.5	52.1	23.8	54.1	20.6	22.5	19.3	50.2	128	24.5	29.7	18.6	16.5	23.4	50.3	13.5	13.2
Hydride-Metals																						
Antimony	µg/g	7.5	0.8	<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	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/g	18	0.5	8.4	3.4	2.2	8.4	4.1	7.6	3.4	3.7	3.8	2.3	7.3	3.5	3.5	3.1	2.6	4.5	8	2.1	1.7
Selenium	µg/g	2.4	0.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Other Regulated Parameters (ORPs)																						
Water Soluble Boron	µg/g	1.5	0.5	0.42	<0.10	<0.10	0.25	<0.10	0.42	<0.10	<0.10	<0.10	<0.10	0.35	<0.10	0.17	0.14	0.2	0.1	0.39	<0.10	<0.10
Free Cyanide	µg/g	0.051	0.05	0																		
Conductivity	mS/cm	0.7	0.002	0.279	0.126	0.0727	0.0796	0.0918	0.19	0.094	0.101	0.128	0.0952	0.187	0.107	0.117	0.268	0.279	0.112	0.219	0.0914	0.0899
Sodium Adsorption Ratio	No unit	5	0.2	1.39	1.03	0.55	0.14	1.02	<0.10	0.66	0.37	0.41	1.39	<0.10	0.81	<0.10	>14	>14	0.62	<0.10	0.36	0.63
Chromium VI	µg/g	8	0.2	0.36	<0.20	<0.20	0.31	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.36	<0.20	<0.20	NA	0.31	<0.20	<0.20
Mercury	µg/g	0.27	0.05	0.0892	0.0073	<0.0050	0.0764	0.0098	0.0614	0.0068	0.0077	0.007	<0.0050	0.0565	0.0059	0.0242	0.0055	<0.0050	0.0098	0.0892	<0.0050	<0.0050
pH	pH Units	-	0.05	8.04	7.96	8	7.14	7.88	7.38	7.9	7.93	7.9	7.94	7.49	7.84	7.59	8.04	8.04	7.85	7.66	NA	7.89

Comments:
Results compared to MECP 2011 Table 2 Site Condition Standards for
Residential/Parkland/Institutional Land Use in a Potable Groundwater Condition with
Coarse-Textured Soil

RDL - Reported Detection Limit G / S - Guideline / Standard

<150	Detection limit exceeded Standard
150	Sample result exceeded Standard
150	The QP deemed the parameter to be met. Refer to Section 6.6.2.1 of Phase II ESA report.

NA-Not Analyzed

TABLE 3
SOIL QUALITY ANALYSIS
POLYCYCLIC AROMATIC HYDROCARBONS
163-164 EDWARD ST E
CREEMORE, ON
PROJECT # 22-052

Sample Name	Units	MECP Table 2 2011 Criteria RPI CT	RDL	Maximum	BH110 SS3	BH115 SS4	BH114 SS2B	BH112 SS4	BH113 SS2	BH111 SS2	BH108 SS3	DUP-2 (BH108 SS3)	BH107 SS3	BH106 SS1	BH105 SS2	BH109 SS2	BH103 SS2	DUP - 7 (BH103 SS2)	BH104 SS1	BH102 SS1	BH101 SS1	BH116 SS3
COC ID #					L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892
Date					4/18/2022	4/18/2022	4/19/2022	4/19/2022	4/19/2022	4/20/2022	4/20/2022	4/20/2022	4/20/2022	4/21/2022	4/21/2022	4/25/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/27/2022
Depth of Sample (m)					1.8	2.6	1.1	2.6	1.1	1.1	1.8	1.8	1.8	0.3	1.1	1.1	1.1	1.1	0.3	0.3	0.3	1.8
Elev of Sample (masl)					249.2	247.1	247.9	246.9	248.3	248.9	248.8	248.8	248.9	251	251.2	250.6	250.7	250.7	252.1	251.3	250.5	248.2
Parameter																						
Moisture Content	%	-	-	24.6	8.73	9.58	9.84	9.89	7.53	7.89	9.92	9.56	10.8	20.6	8.33	8.64	9.21	9.07	24.6	21.9	10.9	15.9
Acenaphthene	µg/g	7.9	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	µg/g	0.15	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	µg/g	0.67	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	µg/g	0.5	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	µg/g	0.3	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+g)fluoranthene	µg/g	0.78	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(ghi)perylene	µg/g	6.6	0.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	µg/g	7	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	µg/g	0.1	0.06	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	µg/g	0.69	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	µg/g	62	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	µg/g	0.38	0.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1-Methylnaphthalene	µg/g	0.99	0.05	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
2-Methylnaphthalene	µg/g	0.99	0.05	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 2-(1-)	µg/g	0.99	0.05	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
Naphthalene	µg/g	0.6	0.05	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Phenanthrene	µg/g	6.2	0.05	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046
Pyrene	µg/g	78	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Comments:

Results compared to MECP 2011 Table 2 Site Condition Standards for Residential/Parkland/Institutional Land Use in a Potable Groundwater Condition with Coarse-Textured Soil

RDL - Reported Detection Limit; G / S - Guideline / Standard

<150	Detection limit exceeded Standard
150	Sample result exceeded Standard

Results are based on the dry weight of the soil.

Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.

NV- No Value

NA-Not Analyzed

TABLE 4
SOIL QUALITY ANALYSIS
PETROLEUM HYDROCARBONS
163-164 EDWARD ST E
CREEMORE, ON
PROJECT # 22-052

Sample Name	Units	MECP Table 2 2011 Criteria RPI CT	RDL	Maximum	BH110 SS5	BH115 SS3	BH114 SS3	BH112 SS6	BH113 SS3	BH111 SS4	BH108 SS4	DUP-3 (BH108 SS4)	BH107 SS2	BH106 SS4	BH105 SS4	BH109 SS5	BH109 SS7	BH103 SS3	DUP - 8 (BH103 SS3)	BH104 SS4	BH102 SS3	BH101 SS3	BH116 SS4
COC ID #					L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892
Date					4/18/2022	4/18/2022	4/19/2022	4/19/2022	4/19/2022	4/20/2022	4/20/2022	4/20/2022	4/20/2022	4/21/2022	4/21/2022	4/25/2022	4/25/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/27/2022	4/27/2022
Depth of Sample (m)					3.4	1.8	1.8	4.9	1.8	2.6	2.6	2.6	1.1	2.6	2.6	3.4	6.4	1.8	1.8	2.6	1.8	1.8	2.6
Elev of Sample (masl)					247.6	247.8	247.2	244.7	247.5	247.4	248.1	248.1	249.7	248.7	249.6	248.4	245.3	250	250	249.8	249.8	249	247.5
Parameter																							
Moisture	%	-	1	18.8	18.8	11.6	8.92	16.5	12.6	11.5	9.94	10.2	10.7	13.0	12.0	14.2	16.8	13.8	13.3	15.1	10.4	10.2	11.2
F1 (C6-C10)	µg/g	55	10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F1-BTEX (C6-C10)	µg/g	55	10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10 to C16)	µg/g	98	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	300	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	2800	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	-	-	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
Gravimetric Heavy Hydrocarbons	µg/g	2800	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromatogram returned to baseline at nC50	Yes / No	-	-	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

Comments:

Results compared to MECP 2011 Table 2 Site Condition Standards for Residential/Parkland/Institutional Land Use in a Potable Groundwater Condition with Coarse-Textured Soil

RDL - Reported Detection Limit; G / S - Guideline / Standard

<150	Detection limit exceeded Standard
150	Sample result exceeded Standard

Results are based on sample dry weight.

The C6-C10 fraction is calculated using toluene response factor.

The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

Total C6 - C50 results are corrected for BTEX contributions.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

Extraction and holding times were met for this sample.

Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Quality Control Data is available upon request.

NV- No Value

NA-Not Analyzed

TABLE 5
SOIL QUALITY ANALYSIS
BENZENE, TOULENE, ETHYLBENZENE, XYLENE
163-164 EDWARD ST E
CREEMORE, ON
PROJECT # 22-052

Sample Name	Units	MECP Table 2 2011 Criteria RPI CT	RDL	Maximum	BH110 SS5	BH110 SS8	BH115 SS2	BH115 SS3	BH114 SS3	BH114 SS4	BH112 SS6	BH112 SS7	BH113 SS3	BH111 SS4	BH111 SS7	BH108 SS4	DUP-3 (BH108 SS4)	BH108 SS5	DUP-4 (BH108 SS5)	BH107 SS1	BH107 SS2	BH106 SS4	BH105 SS4		
COC ID #					L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2701892	L2701892
Date					4/18/2022	4/18/2022	4/18/2022	4/18/2022	4/19/2022	4/19/2022	4/19/2022	4/19/2022	4/19/2022	4/19/2022	4/20/2022	4/20/2022	4/20/2022	4/20/2022	4/20/2022	4/20/2022	4/20/2022	4/20/2022	4/20/2022	4/21/2022	4/21/2022
Depth of Sample (m)					3.4	6.4	1.1	1.8	1.8	2.6	4.9	6.4	1.8	2.6	6.4	2.6	2.6	3.4	3.4	0.3	1.1	2.6	2.6		
Elev of Sample (masl)					247.6	244.6	248.6	247.8	247.2	246.5	244.7	243.1	247.5	247.4	243.6	248.1	248.1	247.3	247.3	250.5	249.7	248.7	249.6		
Parameter																									
Moisture	%	-	1	19.0	18.8	18.3	7.16	11.6	8.92	12.6	16.5	14.9	12.6	11.5	14.6	9.94	10.2	9.75	9.32	17.5	10.7	13.0	12.0		
Benzene	µg/g	0.21	0.02	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068		
Ethylbenzene	µg/g	2	0.05	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018		
Toluene	µg/g	2.3	0.05	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080		
Xylene (total)	µg/g	3.1	0.05	<0.50	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		
m/p-xylene	µg/g	-	0.05	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030		
o-xylene	µg/g	-	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020		

Comments:
Results compared to MECP 2011 Table 2 Site Condition Standards for Residential/Parkland/Institutional Land Use in a Potable Groundwater Condition with Coarse-Textured Soil
RDL - Reported Detection Limit; G / S - Guideline / Standard
Detection limit exceeded Standard
Sample result exceeded Standard
Results are based on sample dry weight.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Quality Control Data is available upon request.
NV- No Value
NA-Not Analyzed

TABLE 5
SOIL QUALITY ANALYSIS
BENZENE, TOULENE, ETHYLBENZENE, XYLENE
163-164 EDWARD ST E
CREEMORE, ON
PROJECT # 22-052

Sample Name	Units	MECP Table 2 2011 Criteria RPI CT	RDL	Maximum	BH105 SS6	BH109 SS5	BH109 SS7	BH109 SS8	BH103 SS3	DUP - 8 (BH103 SS3)	BH103 SS7	DUP - 9 (BH103 SS7)	BH104 SS4	BH104 SS6	BH102 SS3	BH102 SS4	BH101 SS1	BH101 SS3	BH116 SS4	BH116 SS7
COC ID #					L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892
Date					4/21/2022	4/25/2022	4/25/2022	4/25/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/27/2022	4/27/2022	4/27/2022	4/27/2022
Depth of Sample (m)					4.9	3.4	6.4	7.9	1.8	1.8	6.4	6.4	2.6	4.9	1.8	2.6	0.3	1.8	2.6	6.4
Elev of Sample (masl)					247.4	248.4	245.3	243.8	250	250	245.4	245.4	249.8	247.5	249.8	249	250.5	249	247.5	243.7
Parameter																				
Moisture	%	-	1	19.0	17.6	14.2	16.8	14.4	13.8	13.3	15.6	16.0	15.1	19.0	10.4	17.5	10.9	10.2	11.2	17.6
Benzene	µg/g	0.21	0.02	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Ethylbenzene	µg/g	2	0.05	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
Toluene	µg/g	2.3	0.05	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
Xylene (total)	µg/g	3.1	0.05	<0.50	<0.050	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m/p-xylene	µg/g	-	0.05	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
o-xylene	µg/g	-	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

Comments:
Results compared to MECP 2011 Table 2 Site Condition Standards for Residential/Parkland/Institutional Land Use in a Potable Groundwater Condition with Coarse-Textured Soil

RDL - Reported Detection Limit; G / S - Guideline / Standard

<150	Detection limit exceeded Standard
150	Sample result exceeded Standard

Results are based on sample dry weight.

Linearity is within 15%.

Extraction and holding times were met for this sample.

Quality Control Data is available upon request.

NV- No Value

NA-Not Analyzed

TABLE 7
SOIL QUALITY ANALYSIS
ORGANOCHLORINE PESTICIDES
163-164 EDWARD ST E
CREEMORE, ON
PROJECT # 22-052

Sample Name	Units	MECP Table 2 2011 Criteria RPI CT	RDL	Maximum	BH110 SS1	BH115 SS1B	BH114 SS2A	BH112 SS1	BH113 SS2	BH111 SS1	BH108 SS1B	DUP-5 (BH108 SS1B)	BH107 SS2	BH106 SS3	BH105 SS1A	BH109 SS1	BH103 SS1B	BH104 SS1	DUP - 10 (BH104 SS1)	BH102 SS2	BH101 SS1	BH116 SS2B			
COC ID #					L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	
Date					4/18/2022	4/18/2022	4/19/2022	4/19/2022	4/19/2022	4/20/2022	4/20/2022	4/20/2022	4/20/2022	4/21/2022	4/21/2022	4/25/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/27/2022	4/27/2022	4/27/2022	4/27/2022
Depth of Sample (m)					3.4	3.4	3.4	3.4	1.1	3.4	3.4	3.4	3.4	1.1	3.4	3.4	0.3	3.4	0.3	0.3	3.4	0.3	3.4	0.3	3.4
Elev of Sample (masl)					245.9	245.9	245.9	245.9	248.3	245.9	245.9	245.9	249.7	245.9	245.9	251.4	245.9	252.1	252.1	245.9	250.5	245.9			
Parameter																									
Aldrin	µg/g	0.05	0.05	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
Chlordane	µg/g	0.05	0.05	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042			
DDD	µg/g	3.3	0.05	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042			
DDE	µg/g	0.26	0.05	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042			
DDT	µg/g	1.4	0.05	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042			
Dieldrin	µg/g	0.05	0.05	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
gamma-HHC*	µg/g	0.056	0.01	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
Endosulfan	µg/g	0.04	0.04	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042			
Endrin	µg/g	0.04	0.04	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			
Heptachlor	µg/g	0.15	0.01	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
Heptachlor epoxide	µg/g	0.05	0.01	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
Hexachlorobenzene	µg/g	0.52	0.01	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			
Hexachlorobutadiene	µg/g	0.012	0.01	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			
Hexachloroethane	µg/g	0.089	0.01	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			
Methoxychlor	µg/g	0.13	0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			

Comments:
Results compared to MECP 2011 Table 2 Site Condition Standards for Residential/Parkland/Institutional Land Use in a Potable Groundwater Condition with Coarse-Textured Soil
RDL - Reported Detection Limit; G / S - Guideline / Standard

<150	Detection limit exceeded Standard
150	Sample result exceeded Standard

*erroneously referred to as gamma-BHC or Lindane
The sum of alpha- and gamma-chlordane is compared to the standard
The sum of endosulfan I and II is compared to the standard
DDT standard applies to the total DDT (i.e., sum of the DDT isomers), the DDE standard applies to total DDE (i.e., sum of the DDE isomers), and the DDD standard applies to the total DDD (i.e., sum of the DDD isomers.)
NV- No Value
NA-Not Analyzed

TABLE 6
SOIL QUALITY ANALYSIS
VOLATILE ORGANIC COMPOUNDS & TRIHALOMETHANES
163-164 EDWARD ST E
CREEMORE, ON
PROJECT # 22-052

Sample Name	Units	MECP Table 2 2011 Criteria RPI CT	RDL	Maximum	BH110 SS8	BH115 SS2	BH114 SS4	BH112 SS7	BH113 SS3	BH111 SS7	BH108 SS5	BH107 SS1	BH106 SS4	BH105 SS6	BH109 SS8	BH103 SS7	DUP - 9 (BH103 SS7)	BH104 SS6	BH102 SS4	BH101 SS1	BH116 SS7			
COC ID #					L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2700321	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	L2701892	
Date					4/18/2022	4/18/2022	4/19/2022	4/19/2022	4/19/2022	4/20/2022	4/20/2022	4/20/2022	4/21/2022	4/21/2022	4/25/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/27/2022	4/27/2022	4/27/2022
Depth of Sample (m)					6.4	1.1	2.6	6.4	1.8	6.4	3.4	0.3	2.6	4.9	7.9	6.4	6.4	4.9	2.6	0.3	6.4			
Elev of Sample (masl)	244.6	248.6	246.5	243.1	247.5	243.6	247.3	250.5	248.7	247.4	243.8	245.4	245.4	247.5	249	250.5	243.7							
Parameter																								
VOCs																								
Moisture Content	%	-	-	19.0	18.3	7.16	12.6	14.9	12.6	14.6	9.75	17.5	13.0	17.6	14.4	15.6	16.0	19.0	17.5	10.9	17.6			
Acetone	µg/g	16	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
Bromomethane	µg/g	0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Carbon tetrachloride	µg/g	0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Chlorobenzene	µg/g	2.4	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Chloroform	µg/g	2.3	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
1,2-Dichlorobenzene	µg/g	0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
1,3-Dichlorobenzene	µg/g	0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
1,4-Dichlorobenzene	µg/g	0.083	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Dichlorodifluoromethane	µg/g	16	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
1,1-Dichloroethane	µg/g	0.47	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
1,2-Dichloroethane	µg/g	0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
1,1-Dichloroethylene	µg/g	0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
trans-1,2-Dichloroethylene	µg/g	0.084	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
cis-1,2-Dichloroethylene	µg/g	1.9	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
1,2-Dichloropropane	µg/g	0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
cis-1,3-dichloropropene	µg/g	-	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	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030			
trans-1,3-dichloropropene	µg/g	-	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	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030			
1,3-dichloropropene (total)	µg/g	0.05	0.05	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042			
Ethylenedibromide	µg/g	0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
n-Hexane	µg/g	2.8	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Methyl ethyl ketone	µg/g	16	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
Methyl isobutyl ketone	µg/g	1.7	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
Methyl-t-butyl Ether	µg/g	0.75	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Methylene Chloride	µg/g	0.1	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Styrene	µg/g	0.7	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Tetrachloroethylene	µg/g	0.28	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
1,1,1,2-Tetrachloroethane	µg/g	0.058	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
1,1,1-Trichloroethane	µg/g	0.38	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
1,1,2-Trichloroethane	µg/g	0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Trichloroethylene	µg/g	0.061	0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010			
Trichlorofluoromethane	µg/g	4	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Vinyl Chloride	µg/g	0.02	0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020			
THMs																								
Bromodichloromethane	µg/g	1.5	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Bromoform	µg/g	0.27	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Dibromochloromethane	µg/g	2.3	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			

Comments:
Results compared to MECP 2011 Table 2 Site Condition Standards for Residential/Parkland/Institutional Land Use in a Potable Groundwater Condition with Coarse-Textured Soil

RDL - Reported Detection Limit; G / S - Guideline / Standard

<150	Detection limit exceeded Standard
150	Sample result exceeded Standard

The sample was analysed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed.

Results are based on the dry weight of the soil.

NV- No Value

NA-Not Analyzed

TABLE 8
GROUNDWATER QUALITY ANALYSIS
METALS, HYDRIDE METALS, OTHER REGULATED PARAMETERS
163-164 EDWARD ST E
CREEMORE, ON
PROJECT # 22-052

Sample Name	Units	MECP Table 2 2011 Criteria CT	RDL	Maximum	BH104	BH105	BH107	BH109	BH113	BH115	BH116	DUP (BH105)
COC ID #					WT2205887-001	WT2205887-002	WT2205887-004	WT2205887-005	WT2205887-006	WT2205887-007	WT2205887-008	WT2205887-009
Date					16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022
Depth of Sample (m)					4.6 - 7.6	4.6 - 7.6	4.6 - 7.6	4.3 - 7.3	4.6 - 7.6	6.1 - 9.1	4.6 - 7.6	4.6 - 7.6
Elev of Sample (masl)					247.8 - 244.8	247.7 - 244.6	246.2 - 243.1	247.4 - 244.4	244.8 - 241.7	243.6 - 240.5	245.5 - 242.4	247.7 - 244.6
Parameter												
Metals												
Barium	µg/L	1,000	0.1	93.5	50.6	93.5	58.6	68.4	77.2	49.1	36.5	92.1
Beryllium	µg/L	4	0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Boron (total)	µg/L	5,000	10	34	19	34	26	26	25	17	12	34
Cadmium	µg/L	2.7	0.005	0.141	0.106	0.0351	0.006	0.0491	0.0228	0.141	0.0118	0.0346
Chromium Total	µg/L	50	0.5	0.58	<0.50	<0.50	<0.50	0.58	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	3.8	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Copper	µg/L	87	0.2	5.28	3.41	0.89	0.52	1.61	0.67	5.28	0.45	0.9
Lead	µg/L	10	0.05	0.139	<0.050	<0.050	<0.050	<0.050	<0.050	0.139	<0.050	<0.050
Molybdenum	µg/L	70	0.05	0.759	0.308	0.731	0.211	0.19	0.134	0.362	0.326	0.759
Nickel	µg/L	100	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	µg/L	1.5	0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Thallium	µg/L	2	0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	µg/L	20	0.01	0.639	0.322	0.639	0.424	0.451	0.385	0.248	0.382	0.633
Vanadium	µg/L	6.2	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Zinc	µg/L	1,100	1	67.9	67.9	41.5	9.2	29.4	8.2	28.1	4.6	42.4
Hydride-Metals												
Antimony	µg/L	6	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Arsenic	µg/L	25	0.1	0.15	0.12	0.14	<0.10	0.11	<0.10	<0.10	<0.10	0.15
Selenium	µg/L	10	0.05	0.576	0.37	0.322	0.576	0.368	0.403	0.352	0.416	0.358
Other Regulated Parameters (ORPs)												
Chromium VI	µg/L	25	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cyanide (CN-)	µg/L	66	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	µg/L	0.29	0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chloride	µg/L	790,000	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	µg/L	490,000	50	45,500	25600	45500	37100	30800	32300	14900	12600	44600
pH	-	-	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA

Comments:

Results compared to MECP 2011 Table 2 Site Condition Standards for All Property Use in a Potable Groundwater Condition for Coarse Textured Soil

RDL - Reported Detection Limit; G / S - Guideline / Standard

<150	Detection limit exceeded Standard
150	Sample result exceeded Standard

NV-No Value

NA-Not Analyzed

TABLE 10
GROUNDWATER QUALITY ANALYSIS
PETROLEUM HYDROCARBONS
163-164 EDWARD ST E
CREEMORE, ON
PROJECT # 22-052

Sample Name	Units	MECP Table 2 2011 Criteria CT	RDL	Maximum	BH104	BH105	BH106	BH109	DUP (BH105)
COC ID #					WT2205887-001	WT2205887-002	WT2205887-003	WT2205887-005	WT2205887-009
Date					16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022
Depth of Sample (m)					4.6 - 7.6	4.6 - 7.6	4.6 - 7.6	4.3 - 7.3	4.6 - 7.6
Elev of Sample (masl)					247.8 - 244.8	247.7 - 244.6	246.7 - 243.7	247.4 - 244.4	247.7 - 244.6
Parameter									
F1 (C6 to C10)	µg/L	750	25	<25	<25	<25	<25	<25	<25
F1-BTEX (C6-C10)	µg/L	750	25	<25	<25	<25	<25	<25	<25
F2 (C10 to C16)	µg/L	150	100	<100	<100	<100	<100	<100	<100
F3 (C16 to C34)	µg/L	500	250	<250	<250	<250	<250	<250	<250
F4 (C34 to C50)	µg/L	500	250	<250	<250	<250	<250	<250	<250
Total Hydrocarbons (C6-C50)	µg/L	-	-	<370	<370	<370	<370	<370	<370
Chromatogram returned to baseline at nC50	Y/N	-	-	YES	YES	YES	YES	YES	YES

Comments:

Results compared to MECP 2011 Table 2 Site Condition Standards for All Property Use in a Potable Groundwater Condition for Coarse Textured Soil

RDL - Reported Detection Limit; G / S - Guideline / Standard

<150	Detection limit exceeded Standard
150	Sample result exceeded Standard

The C6-C10 fraction is calculated using Toluene response factor.

The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.

Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.

Total C6-C50 results are corrected for BTEX and PAH contributions.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 nC34 average.

Linearity is within 15%.

Extraction and holding times were met for this sample.

+ - Insufficient water for sampling

NA-Not Analyzed

TABLE 11
GROUNDWATER QUALITY ANALYSIS
BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
163-164 EDWARD ST E
CREEMORE, ON
PROJECT # 22-052

Sample Name	Units	MECP Table 2 2011 Criteria CT	RDL	Maximum	BH104	BH105	BH106	BH109	DUP (BH105)
COC ID #					WT2205887-001	WT2205887-002	WT2205887-003	WT2205887-005	WT2205887-009
Date					16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022
Depth of Sample (m)					4.6 - 7.6	4.6 - 7.6	4.6 - 7.6	4.3 - 7.3	4.6 - 7.6
Elev of Sample (masl)					247.8 - 244.8	247.7 - 244.6	246.7 - 243.7	247.4 - 244.4	247.7 - 244.6
Parameter									
Benzene	µg/L	5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	µg/L	2	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	µg/L	24	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Xylene Mixture	µg/L	300	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m/p-xylene	µg/L	-	0.4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
o-xylene	µg/L	-	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

Comments:

Results compared to MECP 2011 Table 2 Site Condition Standards for All Property Use in a Potable Groundwater Condition for Coarse Textured Soil

RDL - Reported Detection Limit; G / S - Guideline / Standard

<150	Detection limit exceeded Standard
150	Sample result exceeded Standard

Extraction and holding times were met for this sample.

NV-No Value

NA-Not Analyzed

TABLE 12
GROUNDWATER QUALITY ANALYSIS
VOLATILE ORGANIC COMPOUNDS
163-164 EDWARD ST E
CREEMORE, ON
PROJECT # 22-052

Sample Name	Units	MECP Table 2 2011 Criteria CT	RDL	Maximum	BH104	BH105	BH106	BH109	DUP (BH105)
COC ID #					WT2205887-001	WT2205887-002	WT2205887-003	WT2205887-005	WT2205887-009
Date					16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022
Depth of Sample (m)					4.6 - 7.6	4.6 - 7.6	4.6 - 7.6	4.3 - 7.3	4.6 - 7.6
Elev of Sample (masl)					247.8 - 244.8	247.7 - 244.6	246.7 - 243.7	247.4 - 244.4	247.7 - 244.6
Parameter									
VOCs									
Acetone	µg/L	2,700	30	30	<20	<20	<20	30	<20
Bromomethane	µg/L	0.89	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	µg/L	0.79	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	30	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	µg/L	2.4	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	3	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	59	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	1	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	590	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethane, 1,1-	µg/L	5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethane, 1,2-	µg/L	1.6	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethylene, 1,1-	µg/L	1.6	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethylene, 1,2-cis-	µg/L	1.6	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethylene, 1,2-trans-	µg/L	1.6	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, 1,3-	µg/L	0.5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylene dibromide	µg/L	0.2	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n)	µg/L	51	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Ethyl Ketone	µg/L	1,800	20	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	µg/L	640	20	<20	<20	<20	<20	<20	<20
Methyl tert-Butyl Ether (MTBE)	µg/L	15	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	µg/L	50	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	µg/L	5.4	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	1.1	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	1	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	µg/L	1.6	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethane, 1,1,1-	µg/L	200	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethane, 1,1,2-	µg/L	4.7	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	µg/L	1.6	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	µg/L	150	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	µg/L	0.5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
THMs									
Bromodichloromethane	µg/L	16	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	µg/L	25	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	µg/L	25	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Comments:

Results compared to MECP 2011 Table 2 Site Condition Standards for All Property Use in a Potable Groundwater Condition for Coarse Textured Soil

RDL - Reported Detection Limit; G / S - Guideline / Standard

<150	Detection limit exceeded Standard
150	Sample result exceeded Standard

NV-No Value

NA-Not Analyzed

TABLE 14
GROUNDWATER QUALITY ANALYSIS
ORGANOCHLORINE PESTICIDES
163-164 EDWARD ST E
CREEMORE, ON
PROJECT # 22-052

Sample Name	Units	MECP Table 2 2011 Criteria CT	RDL	Maximum	BH104	BH105	BH107	BH109	BH113	BH115	BH116	DUP (BH105)
COC ID #					WT2205887-001	WT2205887-002	WT2205887-004	WT2205887-005	WT2205887-006	WT2205887-007	WT2205887-008	WT2205887-009
Date					16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022	16-Jun-2022
Depth of Sample (m)					4.6 - 7.6	4.6 - 7.6	4.6 - 7.6	4.3 - 7.3	4.6 - 7.6	6.1 - 9.1	4.6 - 7.6	4.6 - 7.6
Elev of Sample (masl)					247.8 - 244.8	247.7 - 244.6	246.2 - 243.1	247.4 - 244.4	244.8 - 241.7	243.6 - 240.5	245.5 - 242.4	247.7 - 244.6
Parameter												
Aldrin	µg/L	0.35	0.008	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Chlordane	µg/L	7	0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
DDD	µg/L	10	0.006	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
DDE	µg/L	10	0.006	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
DDT	µg/L	2.8	0.006	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Dieldrin	µg/L	0.35	0.008	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
gamma-HHC*	µg/L	1.2	0.008	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Endosulfan	µg/L	1.5	0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Endrin	µg/L	0.48	0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Heptachlor	µg/L	1.5	0.008	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Heptachlor epoxide	µg/L	0.048	0.008	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Hexachlorobenzene	µg/L	1	0.008	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Hexachlorobutadiene	µg/L	0.44	0.008	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Hexachloroethane	µg/L	2.1	0.008	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Methoxychlor	µg/L	6.5	0.008	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080

Comments:

Results compared to MECP 2011 Table 2 Site Condition Standards for All Property Use in a Potable Groundwater Condition for Coarse Textured Soil

RDL - Reported Detection Limit; G / S - Guideline / Standard

<150	Detection limit exceeded Standard
150	Sample result exceeded Standard

*erroneously referred to as gamma-BHC or Lindane

The sum of alpha- and gamma-chlordane is compared to the standard

The sum of endosulfan I and II is compared to the standard

DDT standard applies to the total DDT (i.e., sum of the DDT isomers), the DDE standard applies to total DDE (i.e., sum of the DDE isomers), and the DDD standard applies to the total DDD (i.e., sum of the DDD isomers.)

NV- No Value

NA-Not Analyzed

APPENDIX A



SAMPLING/TESTING METHODS

SS: split spoon sample
 AS: auger sample
 GS: grab sample
 FV: shear vane
 DP: direct push
 PMT: pressuremeter test
 ST: shelby tube
 CORE: soil coring
 RUN: rock coring

SYMBOLS & ABBREVIATIONS

MC: moisture content
 LL: liquid limit
 PL: plastic limit
 PI: plasticity index
 γ : soil unit weight (bulk)
 G_s : specific gravity
 S_u : undrained shear strength
 unstabalized water level
 1st water level measurement
 2nd water level measurement most recent
 water level measurement

ENVIRONMENTAL SAMPLES

M&I: metals and inorganic parameters
 PAH: polycyclic aromatic hydrocarbon
 PCB: polychlorinated biphenyl
 VOC: volatile organic compound
 PHC: petroleum hydrocarbon
 BTEX: benzene, toluene, ethylbenzene and xylene
 PPM: parts per million

FIELD MOISTURE (based on tactile inspection)

DRY: no observable pore water
MOIST: inferred pore water, not observable (i.e. grey, cool, etc.)
WET: visible pore water

COHESIONLESS

Relative Density	N-Value
Very Loose	<4
Loose	4 - 10
Compact	10 - 30
Dense	30 - 50
Very Dense	>50

COHESIVE

Consistency	N-Value	Su (kPa)
Very Soft	<2	<12
Soft	2 - 4	12 - 25
Firm	4 - 8	25 - 50
Stiff	8 - 15	50 - 100
Very Stiff	15 - 30	100 - 200
Hard	>30	>200

COMPOSITION

Term	% by weight
trace silt	<10
some silt	10 - 20
silty	20 - 35
sand and silt	>35

ASTM STANDARDS**ASTM D1586 Standard Penetration Test (SPT)**

Driving a 51 mm O.D. split-barrel sampler ("split spoon") into soil with a 63.5 kg weight free falling 760 mm. The blows required to drive the split spoon 300 mm ("bpf") after an initial penetration of 150 mm is referred to as the N-Value.

ASTM D3441 Cone Penetration Test (CPT)

Pushing an internal still rod with a outer hollow rod ("sleeve") tipped with a cone with an apex angle of 60° and a cross-sectional area of 1000 mm² into soil. The resistance is measured in the sleeve and at the tip to determine the skin friction and the tip resistance.

ASTM D2573 Field Vane Test (FVT)

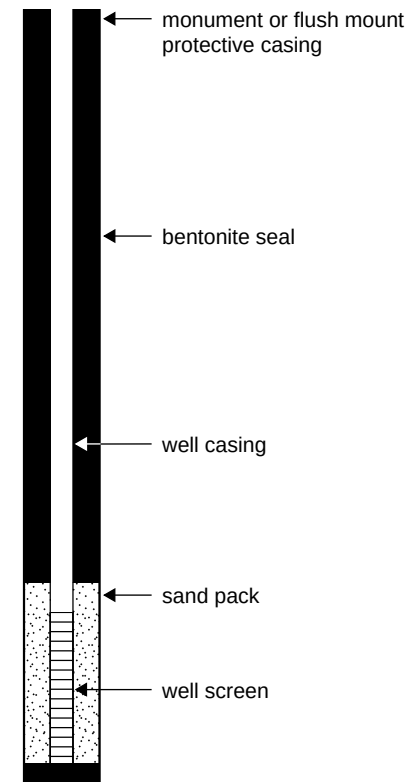
Pushing a four blade vane into soil and rotating it from the surface to determine the torque required to shear a cylindrical surface with the vane. The torque is converted to the shear strength of the soil using a limit equilibrium analysis.

ASTM D1587 Shelby Tubes (ST)

Pushing a thin-walled metal tube into the in-situ soil at the bottom of a borehole, removing the tube and sealing the ends to prevent soil movement or changes in moisture content for the purposes of extracting a relatively undisturbed sample.

ASTM D4719 Pressuremeter Test (PMT)

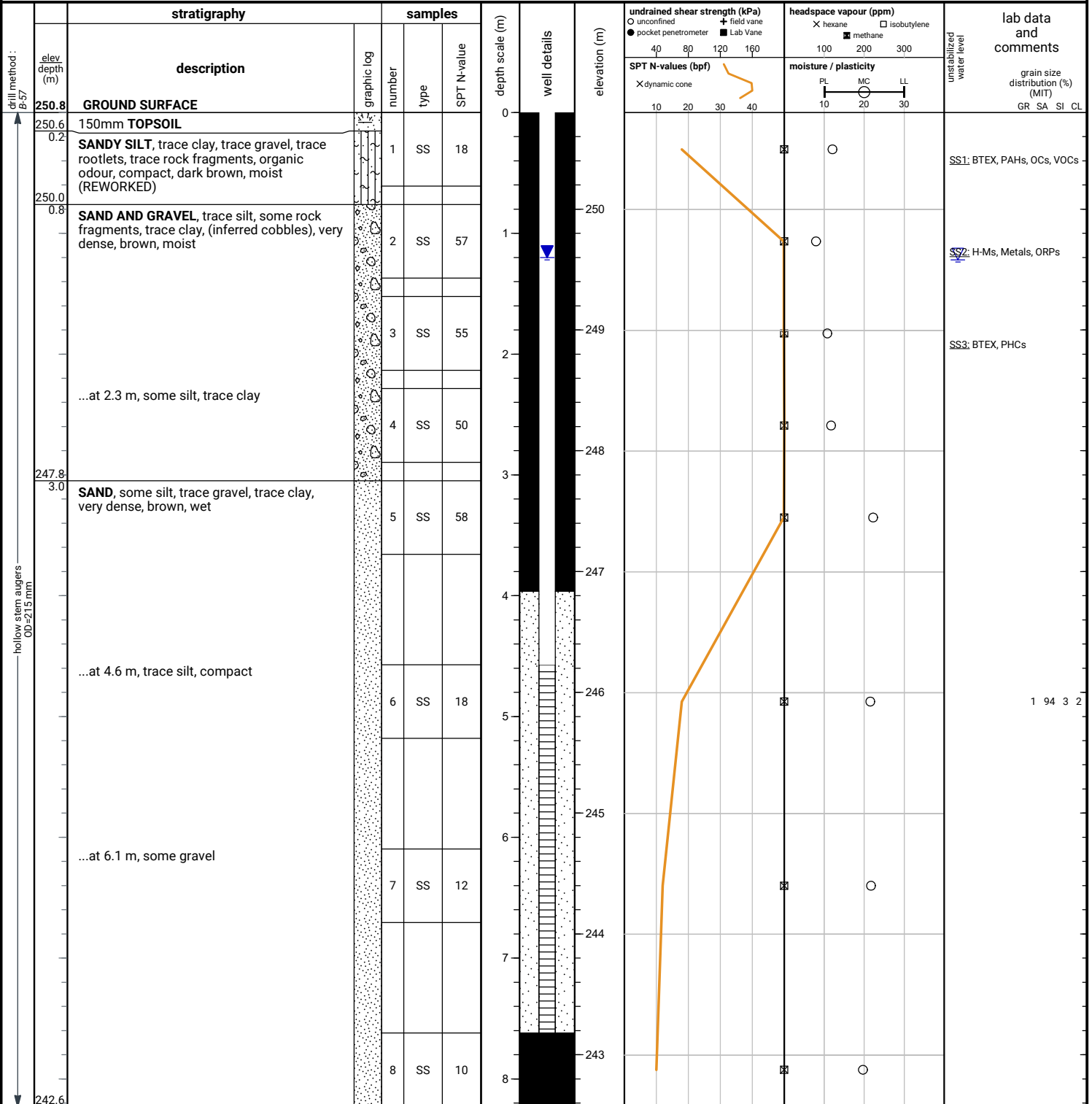
Place an inflatable cylindrical probe into a pre-drilled hole and expanding it while measuring the change in volume and pressure in the probe. It is inflated under either equal pressure increments or equal volume increments. This provides the stress-strain response of the soil.

WELL LEGEND

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 1.2 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.
No. 10 screen

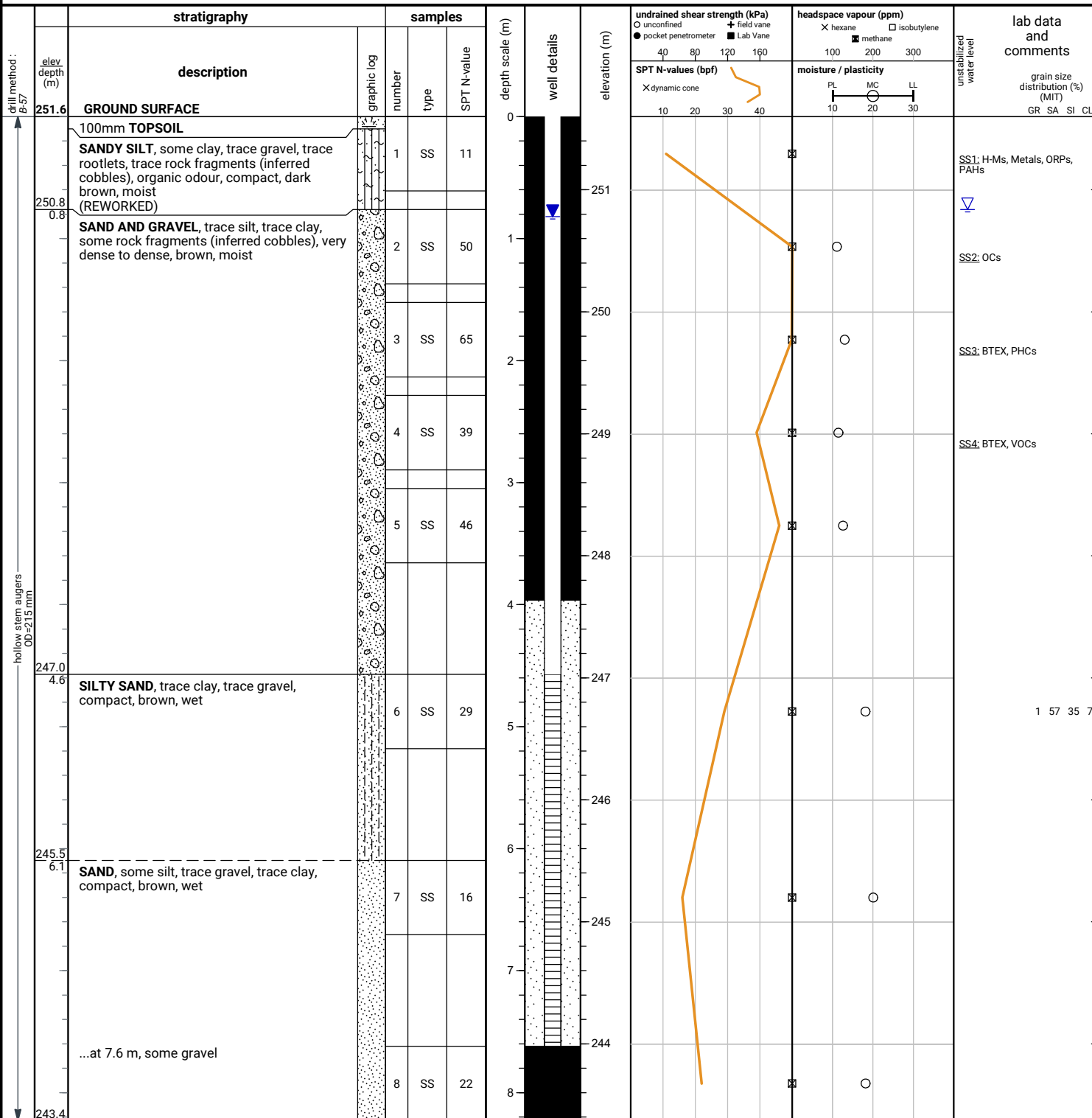
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
Apr 29, 2022	1.1	249.7
May 5, 2022	1.1	249.7
Jun 15, 2022	1.2	249.6

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 0.8 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.
No. 10 screen

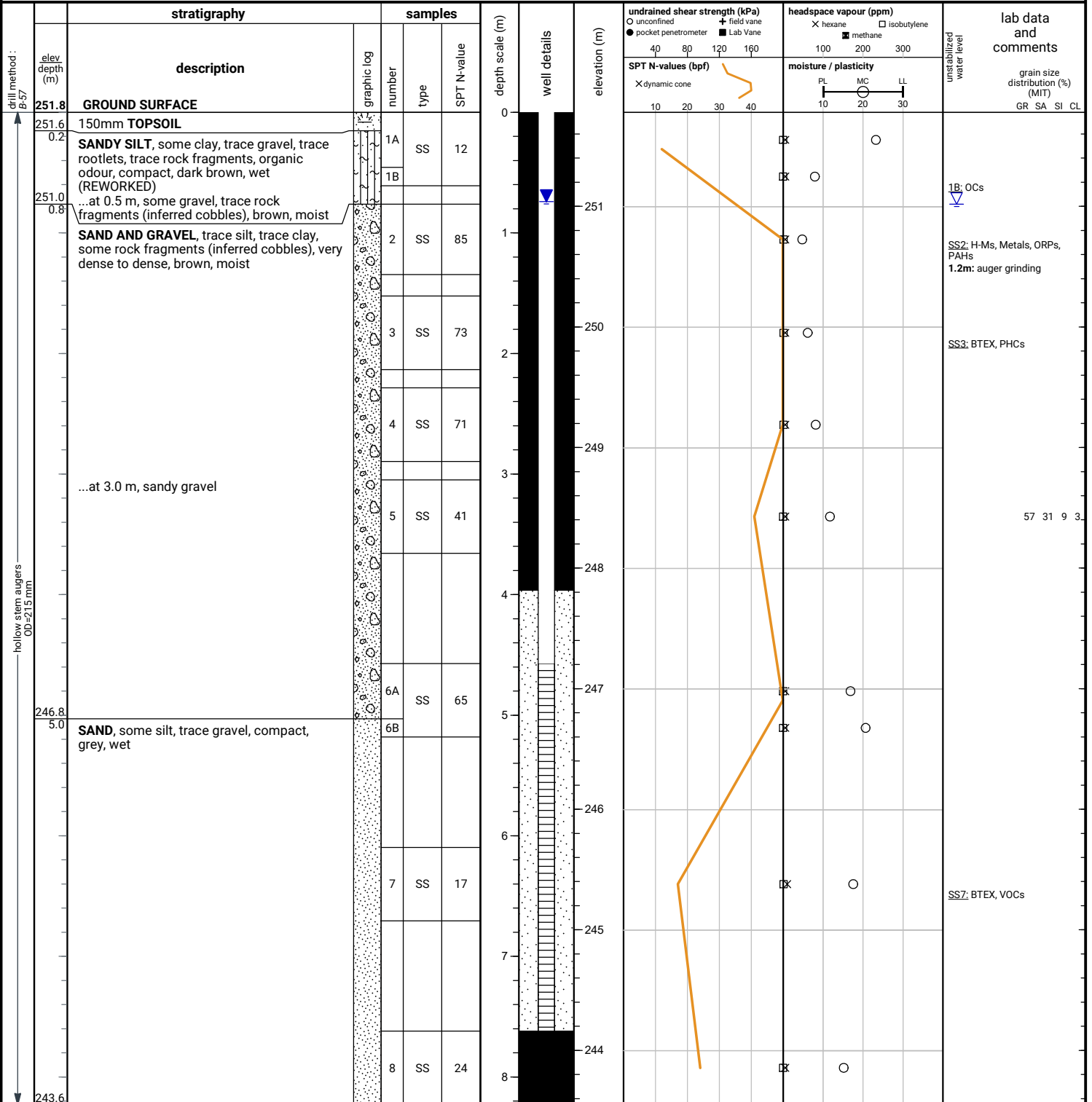
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
Apr 29, 2022	0.9	250.7
Jun 15, 2022	0.8	250.8

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 0.8 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.
No. 10 screen

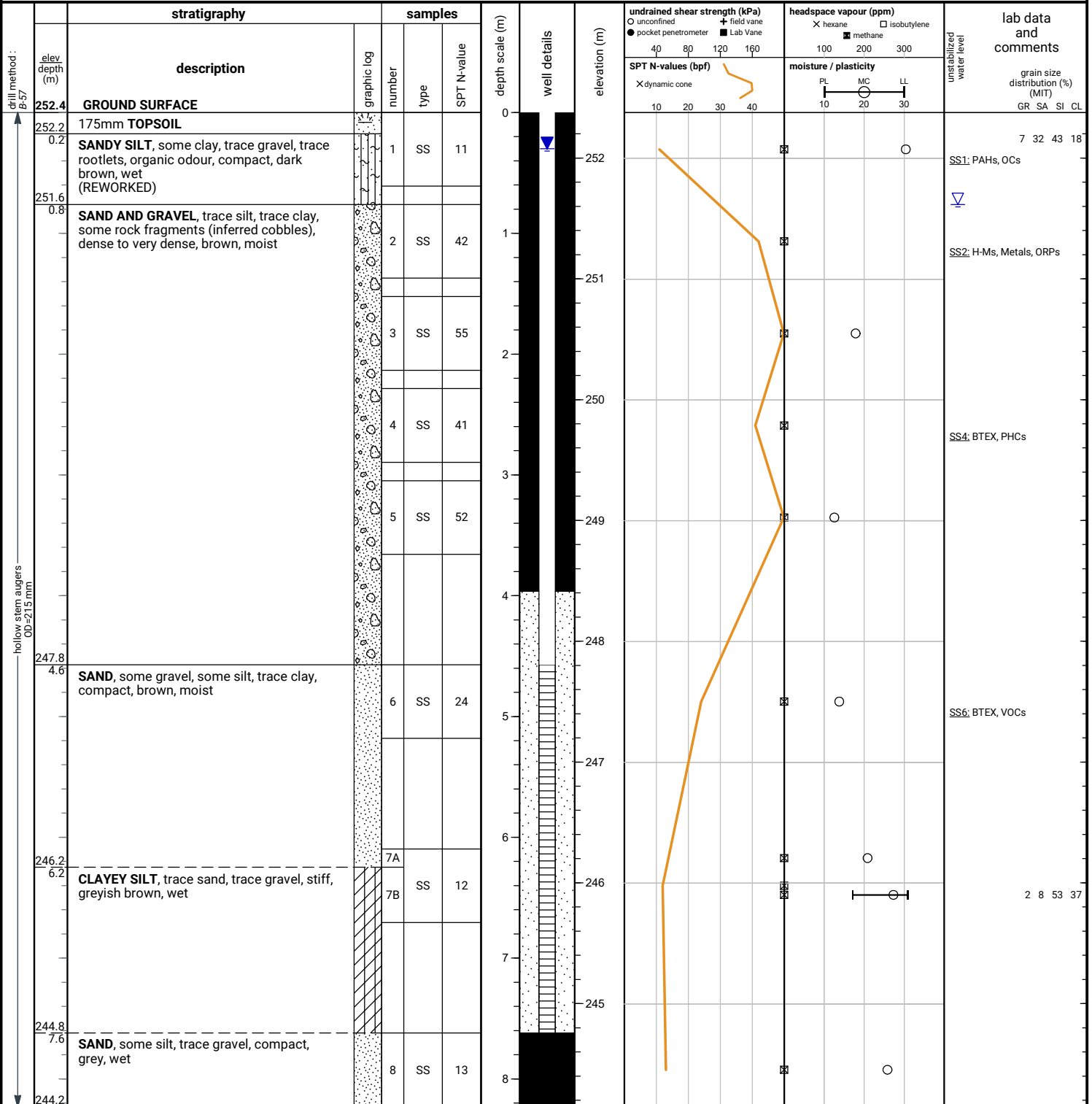
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
Apr 29, 2022	0.8	251.0
May 5, 2022	0.7	251.1
Jun 15, 2022	0.7	251.1

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 0.8 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.
No. 10 screen

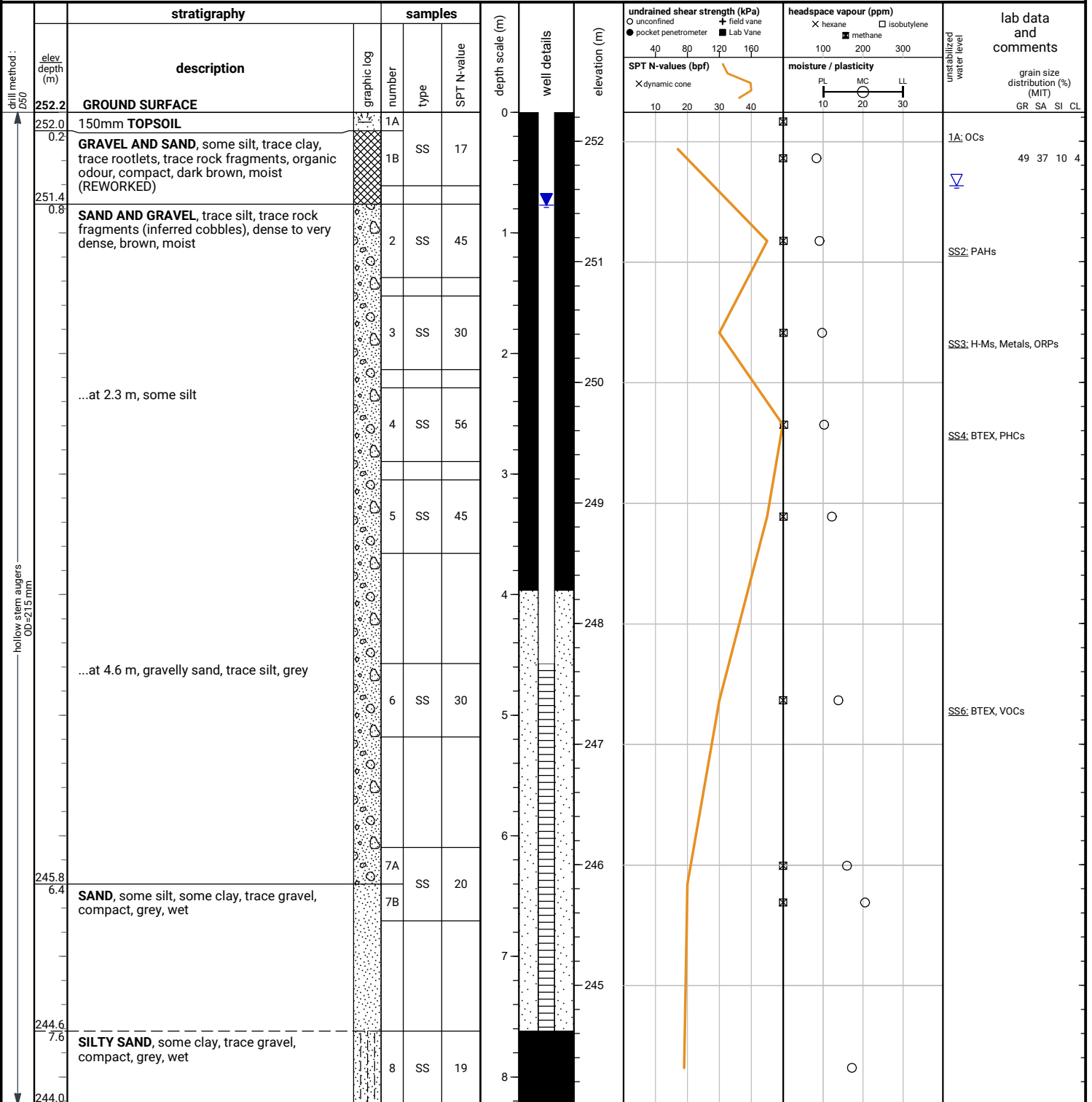
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
Apr 29, 2022	0.3	252.1
Jun 15, 2022	0.2	252.2
Jun 16, 2022	0.3	252.1

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 0.6 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.
No. 10 screen

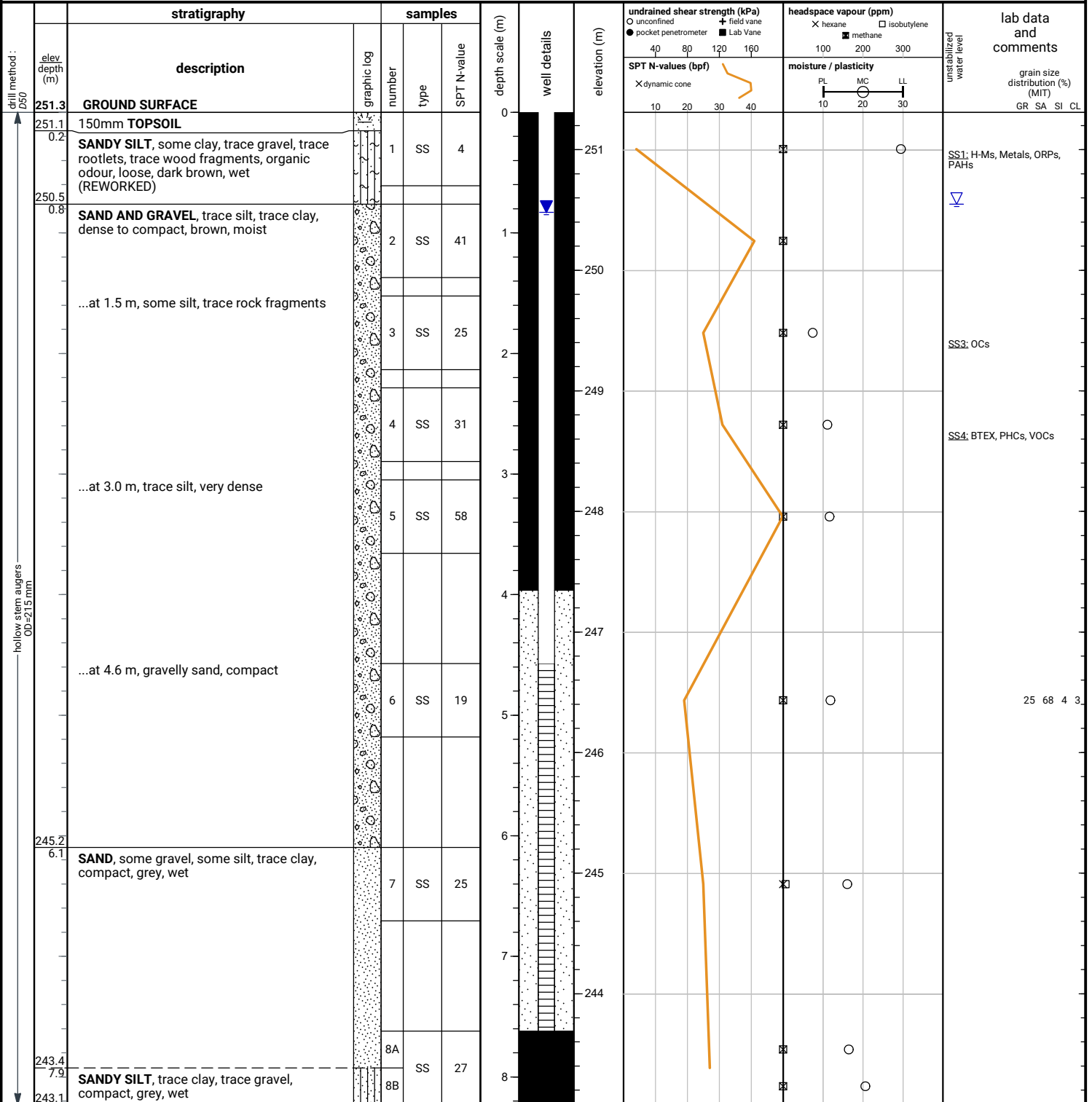
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
Apr 29, 2022	0.8	251.4
May 5, 2022	0.7	251.5
Jun 15, 2022	0.9	251.3
Jun 16, 2022	0.8	251.4

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 0.8 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.
No. 10 screen

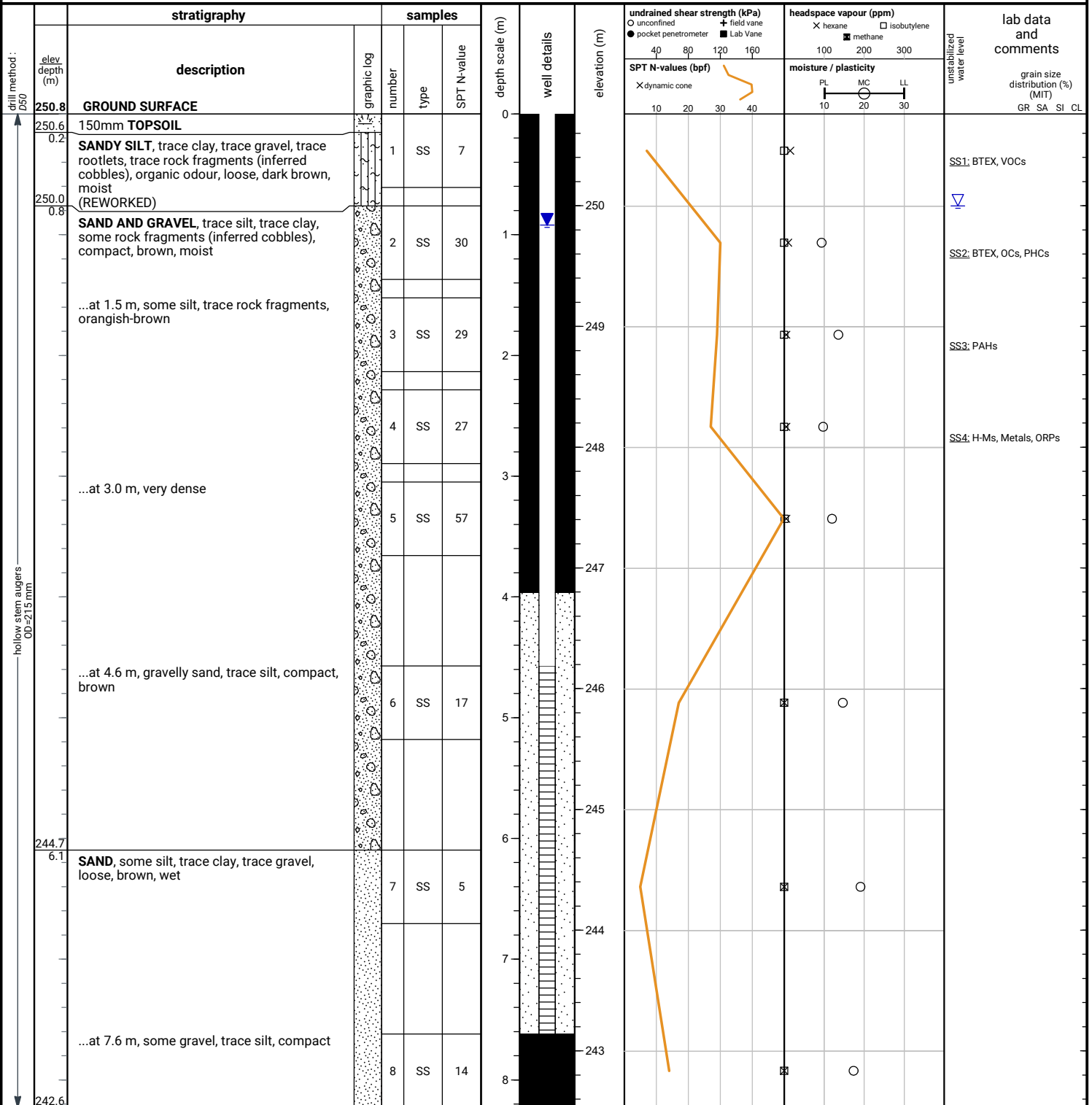
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
Apr 29, 2022	0.8	250.5
Jun 15, 2022	0.8	250.5
Jun 16, 2022	0.8	250.5

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 0.8 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.
No. 10 screen

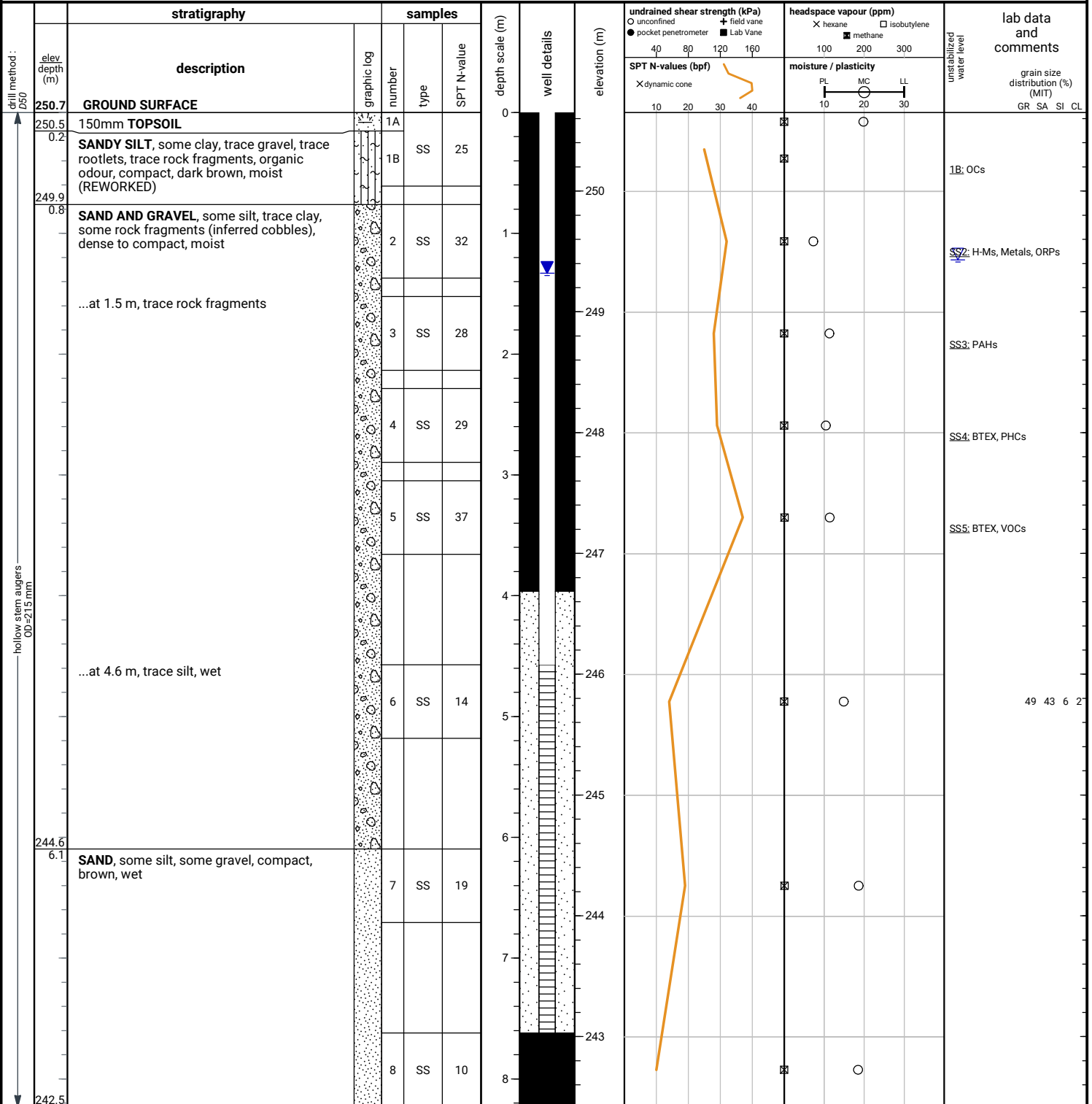
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
Apr 29, 2022	0.9	249.9
May 5, 2022	0.9	249.9
Jun 15, 2022	0.9	249.9
Jun 16, 2022	0.9	249.9

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 1.2 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.
No. 10 screen

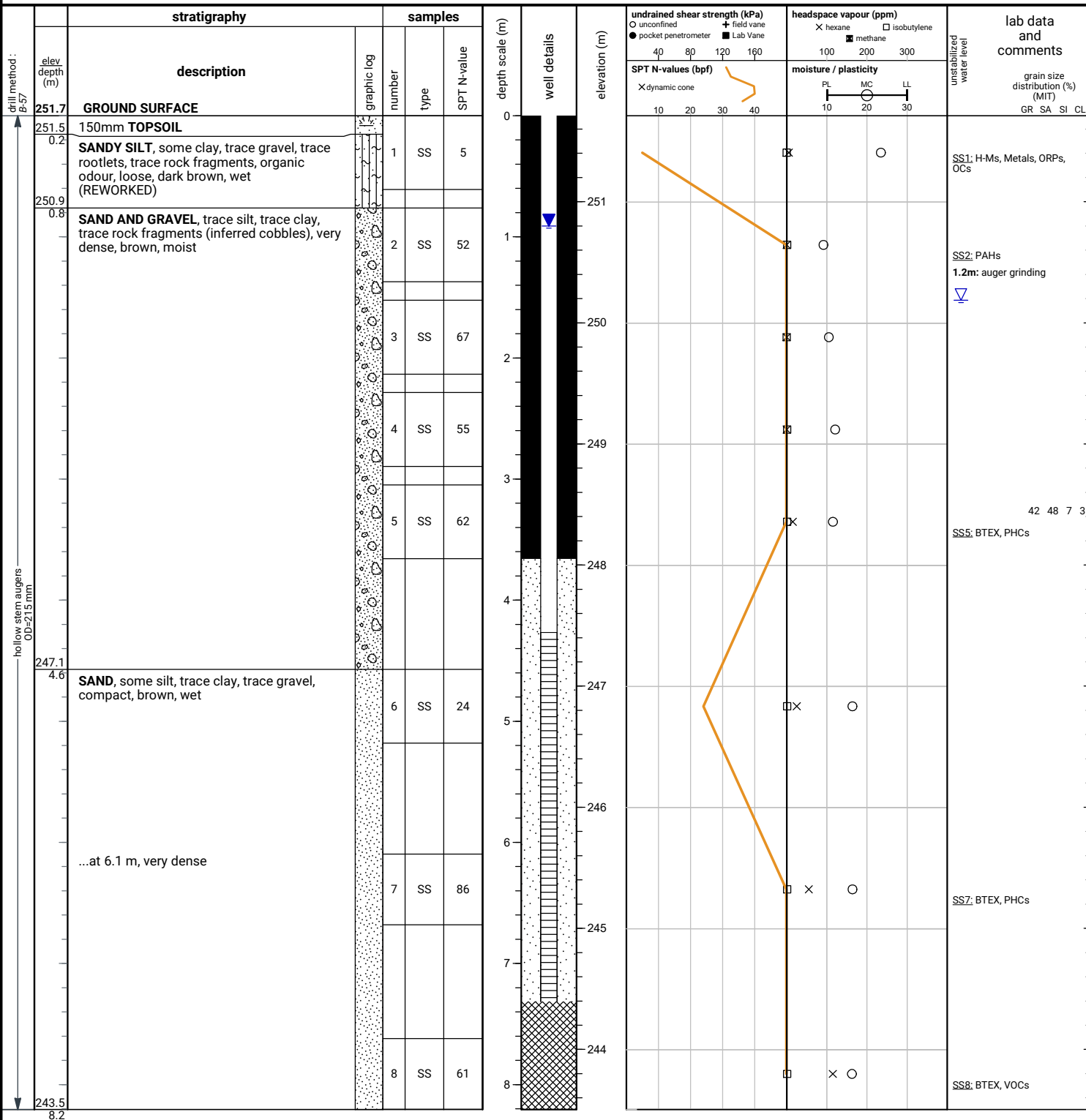
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
Apr 29, 2022	1.2	249.5
Jun 15, 2022	1.3	249.4

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 1.5 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.
No. 10 screen

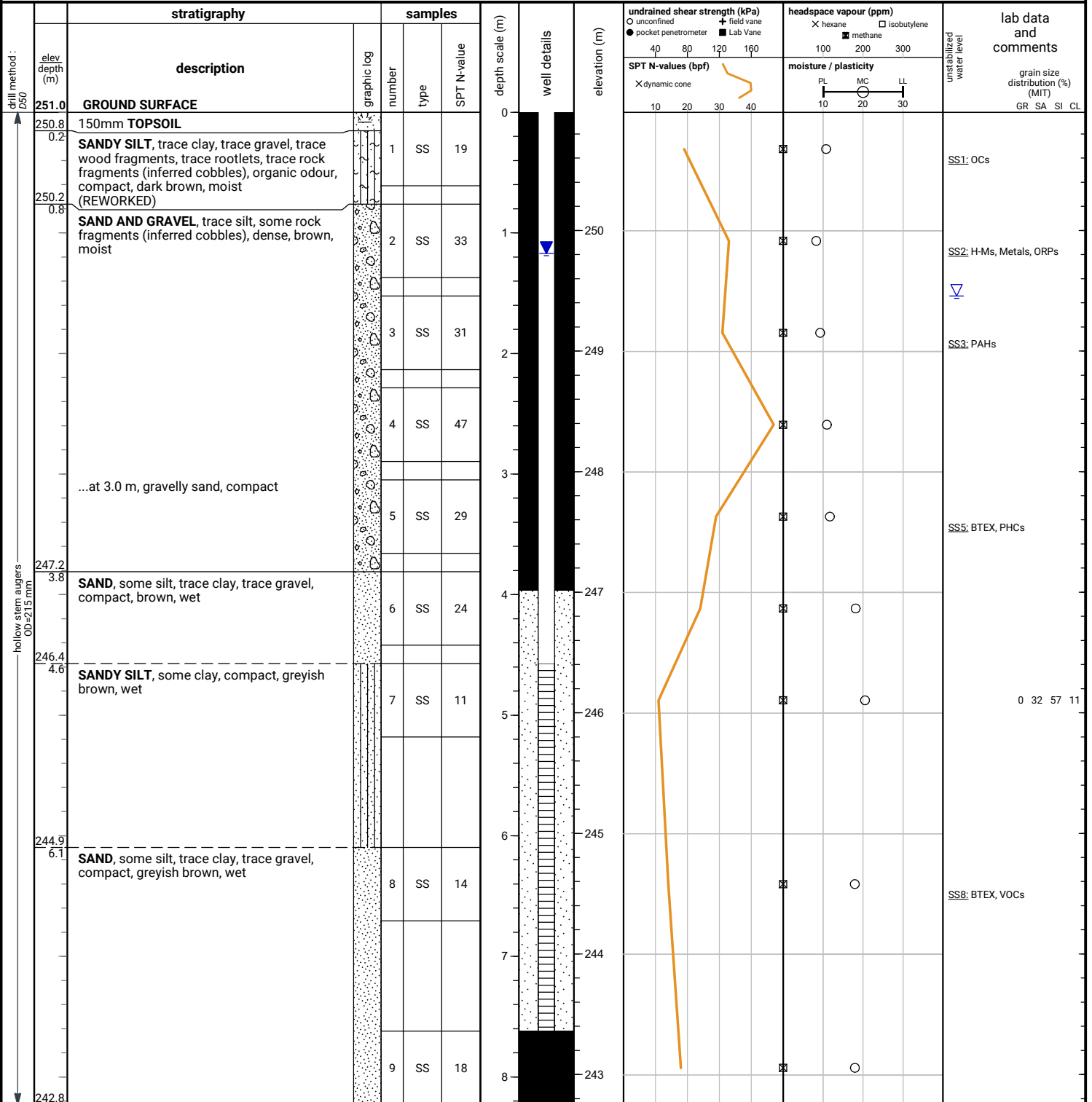
GROUNDWATER LEVELS

<u>date</u>	<u>depth (m)</u>	<u>elevation (m)</u>
Apr 29, 2022	1.0	250.7
May 5, 2022	0.8	250.9
Jun 15, 2022	1.0	250.7
Jun 16, 2022	0.9	250.8

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 1.5 m below ground surface upon completion of drilling.

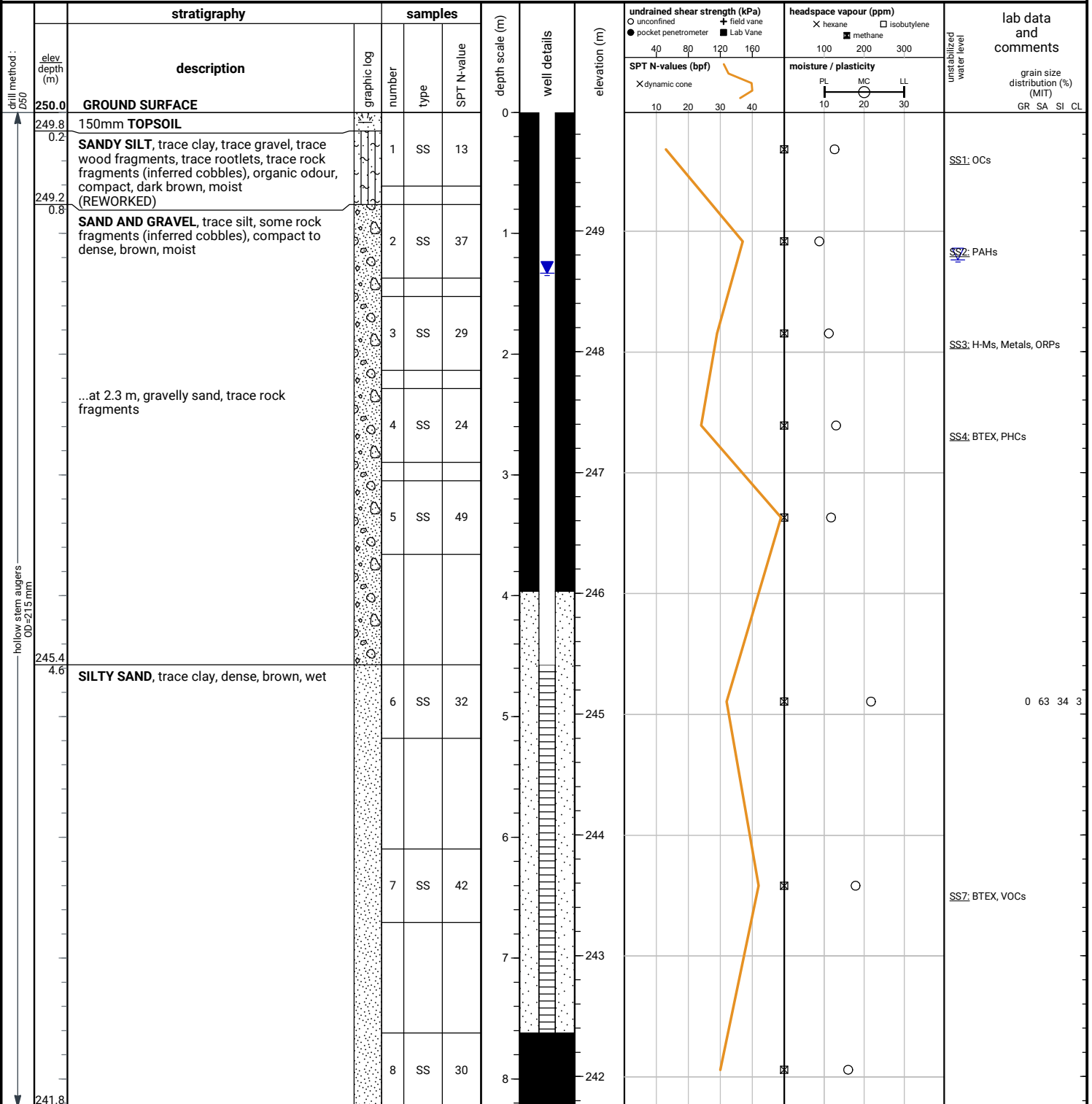
50 mm dia. monitoring well installed.
No. 10 screen

GROUNDWATER LEVELS
date depth (m) elevation (m)
Jun 15, 2022 1.2 249.8

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 1.2 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.
No. 10 screen

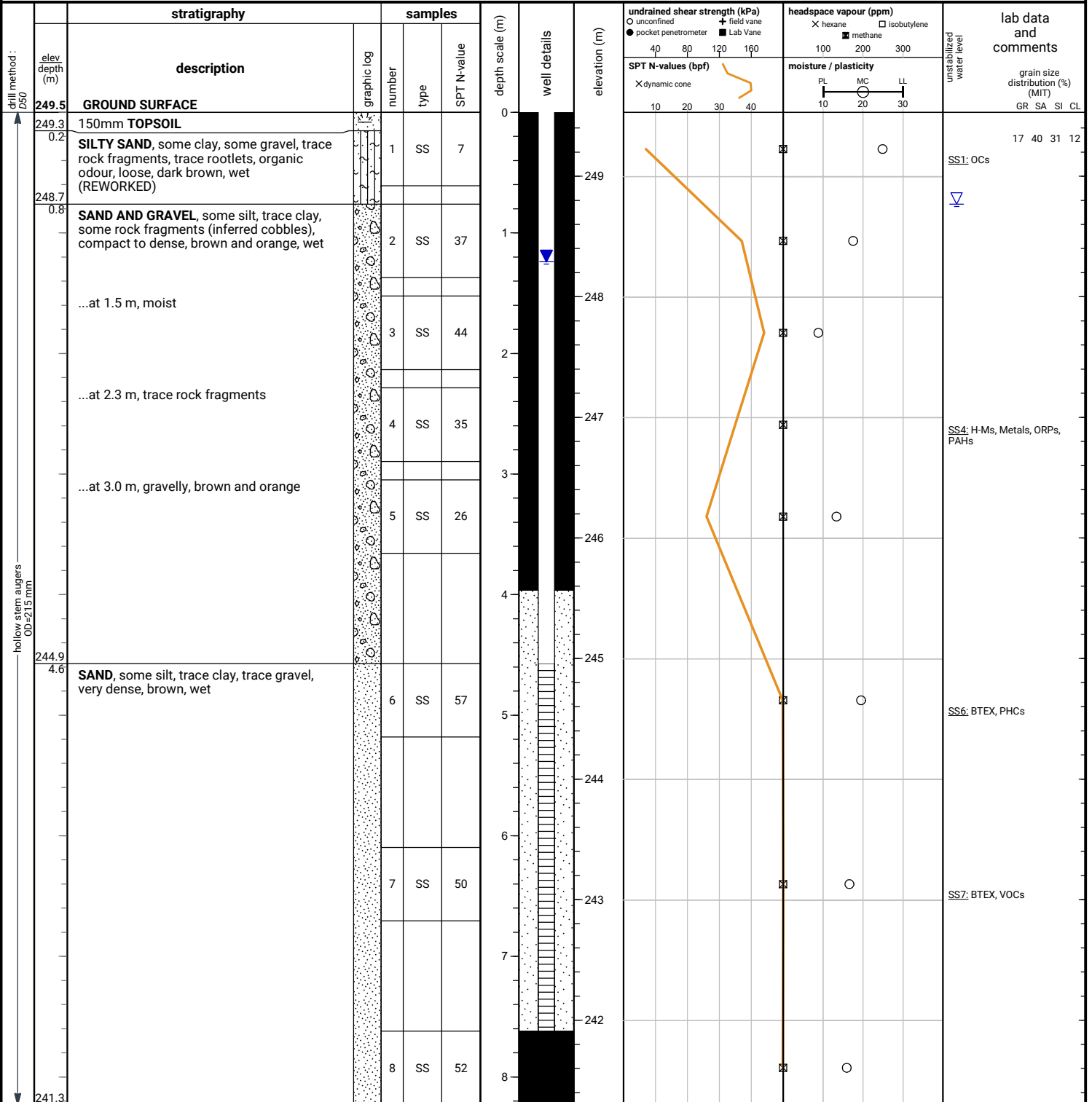
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
Apr 29, 2022	1.1	248.9
May 5, 2022	1.1	248.9
Jun 15, 2022	1.3	248.7

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 0.8 m below ground surface upon completion of drilling.

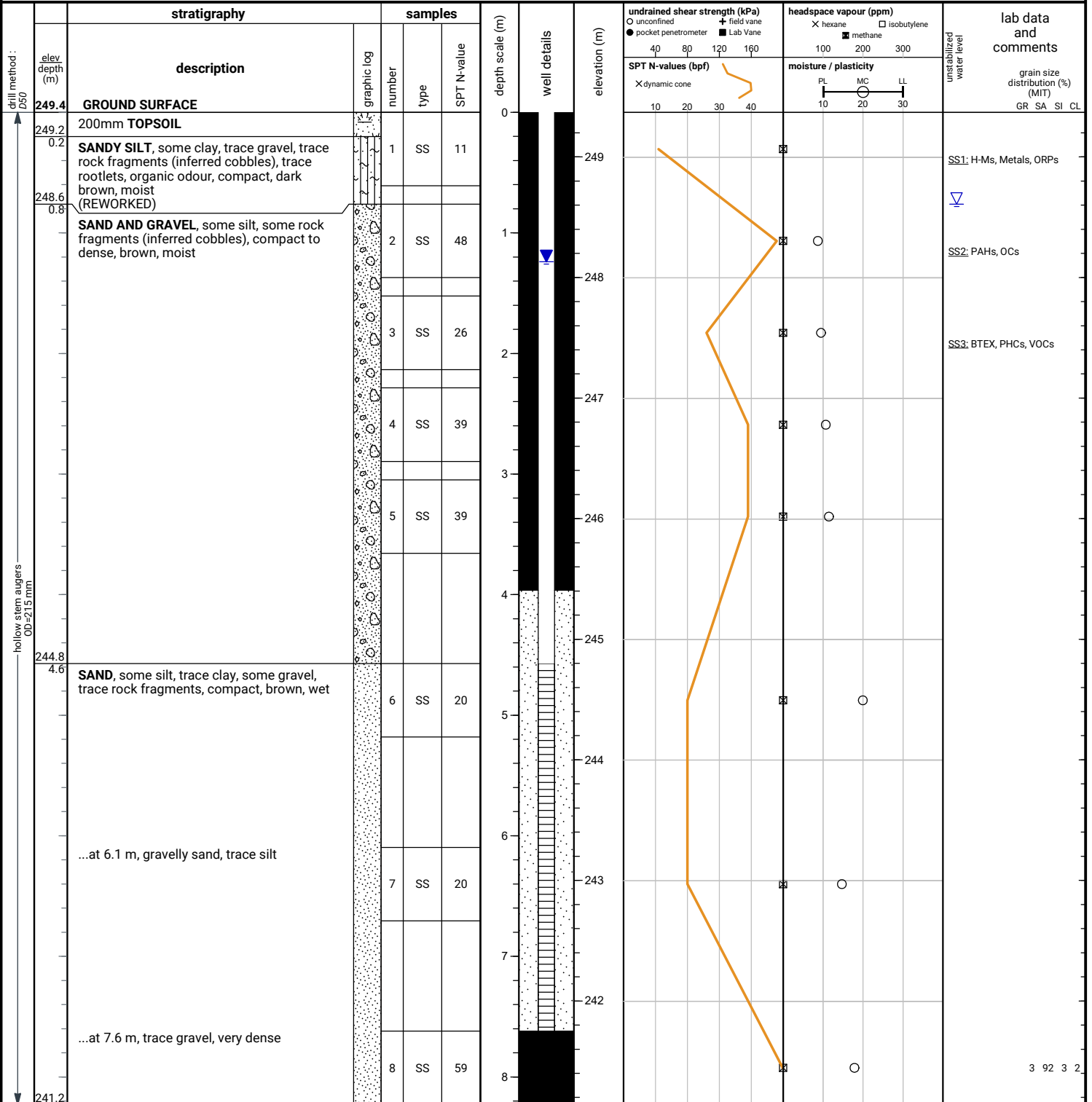
50 mm dia. monitoring well installed.
No. 10 screen

GROUNDWATER LEVELS
date depth (m) elevation (m)
Jun 15, 2022 1.2 248.3

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 0.8 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.
No. 10 screen

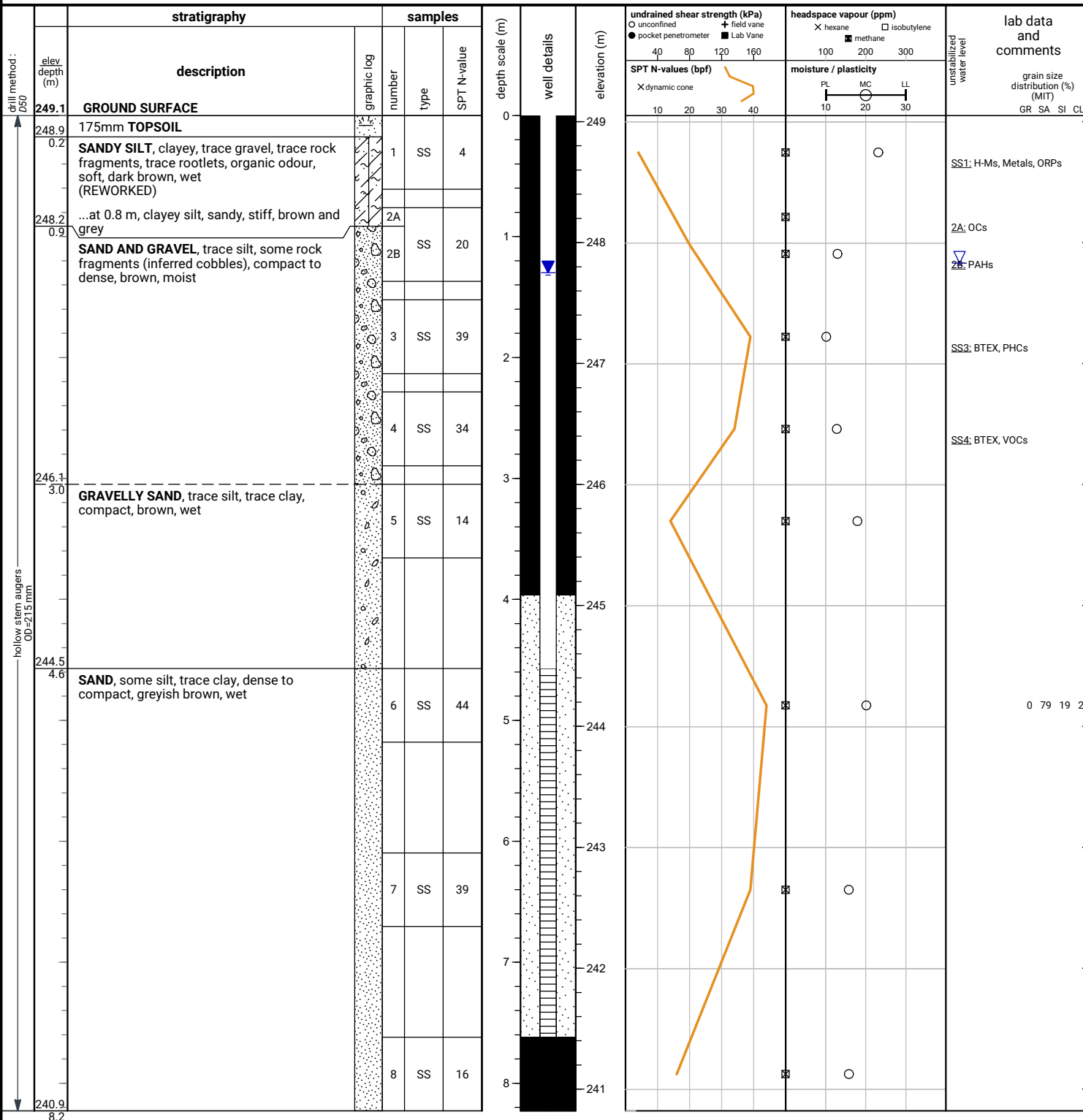
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
May 5, 2022	1.0	248.4
Jun 15, 2022	1.3	248.1
Jun 16, 2022	1.2	248.2

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 1.2 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.
No. 10 screen

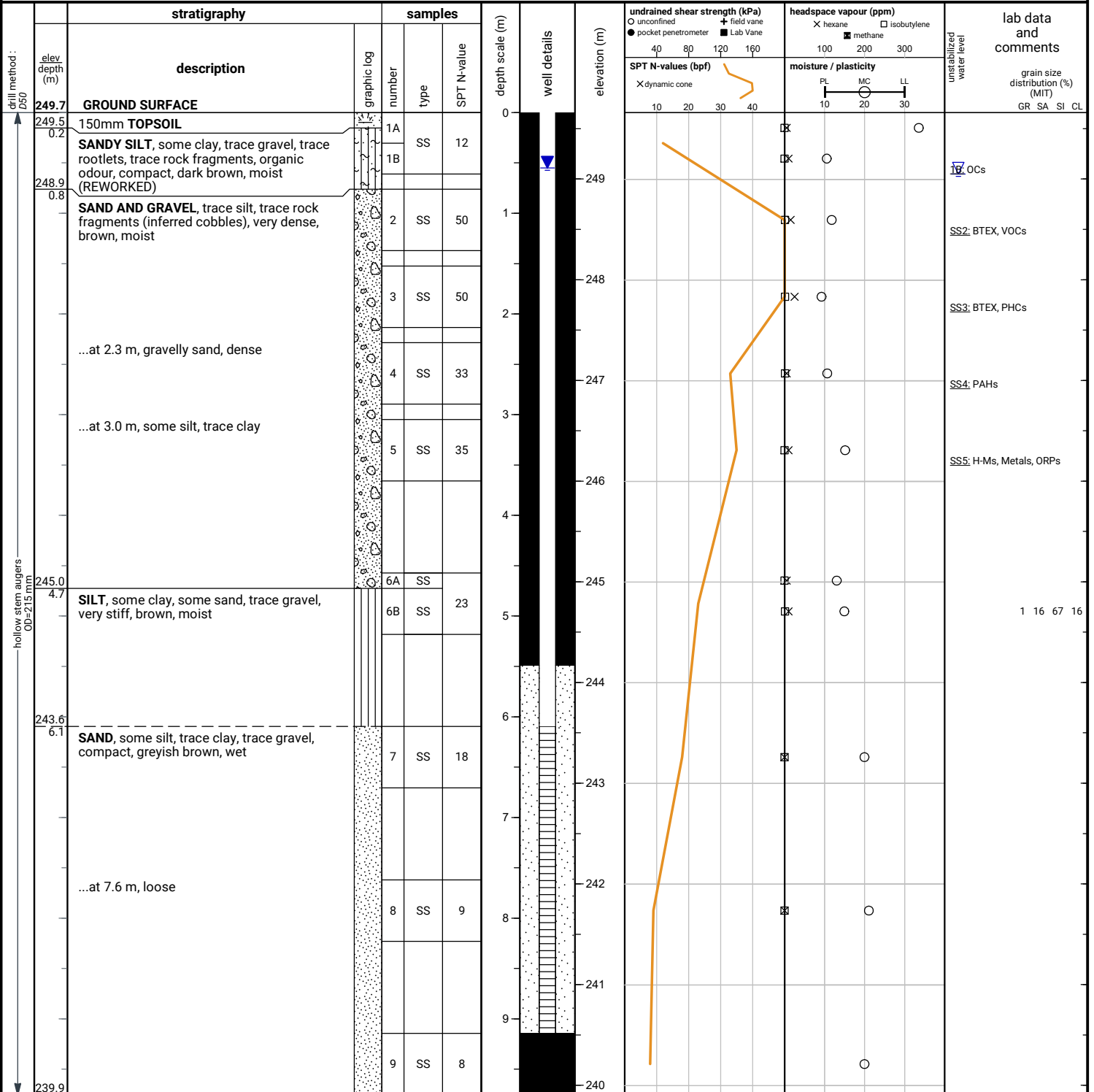
GROUNDWATER LEVELS

<u>date</u>	<u>depth (m)</u>	<u>elevation (m)</u>
Jun 15, 2022	1.3	247.8

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.



END OF BOREHOLE

Unstabilized water level measured at 0.6 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.
No. 10 screen

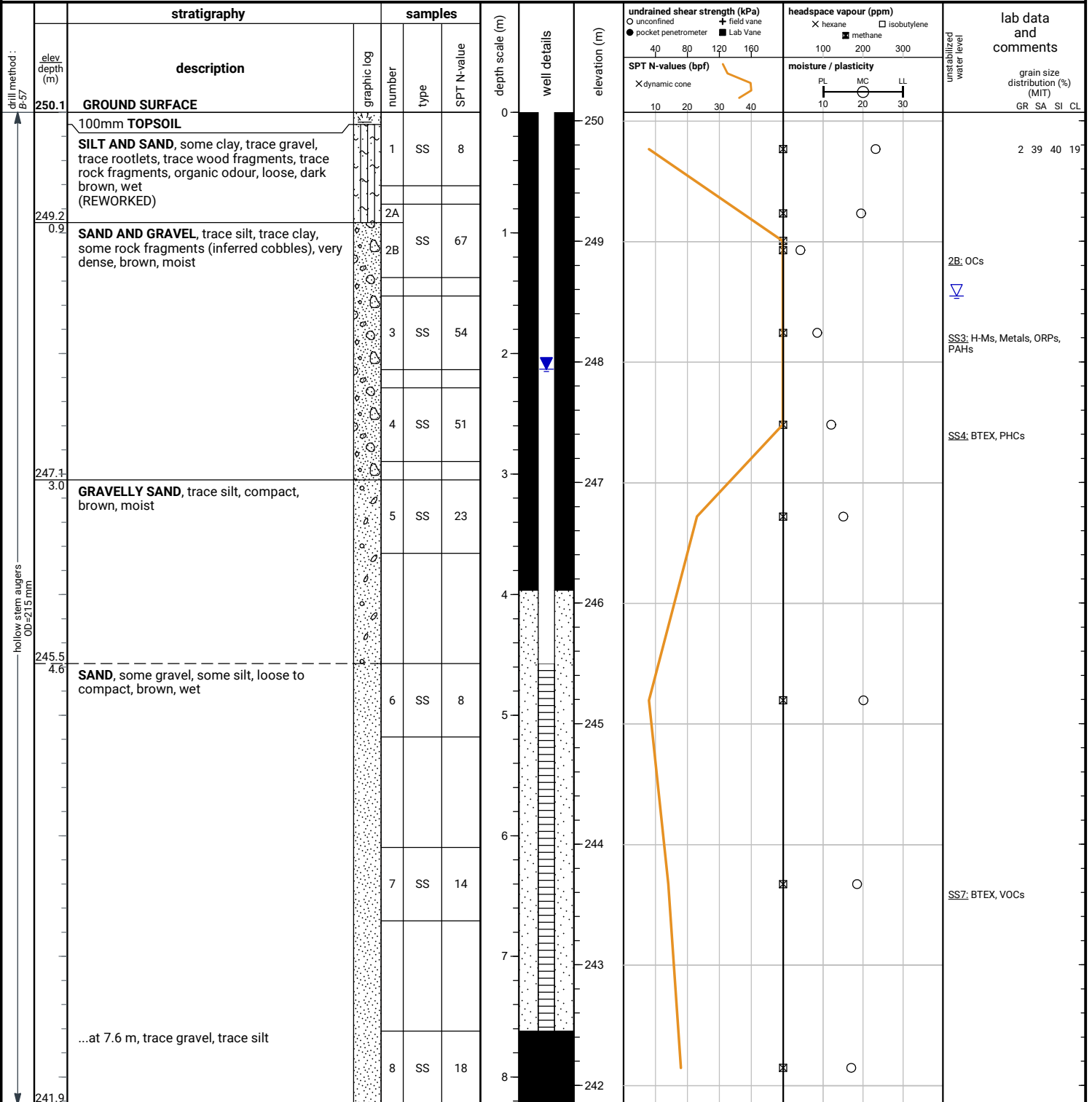
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
May 5, 2022	0.5	249.2
Jun 15, 2022	0.8	248.9
Jun 16, 2022	0.6	249.1

File No. : 22-052

Project : 163-164 Edward St, Creemore, ON

Client : Lamb Development Corp.

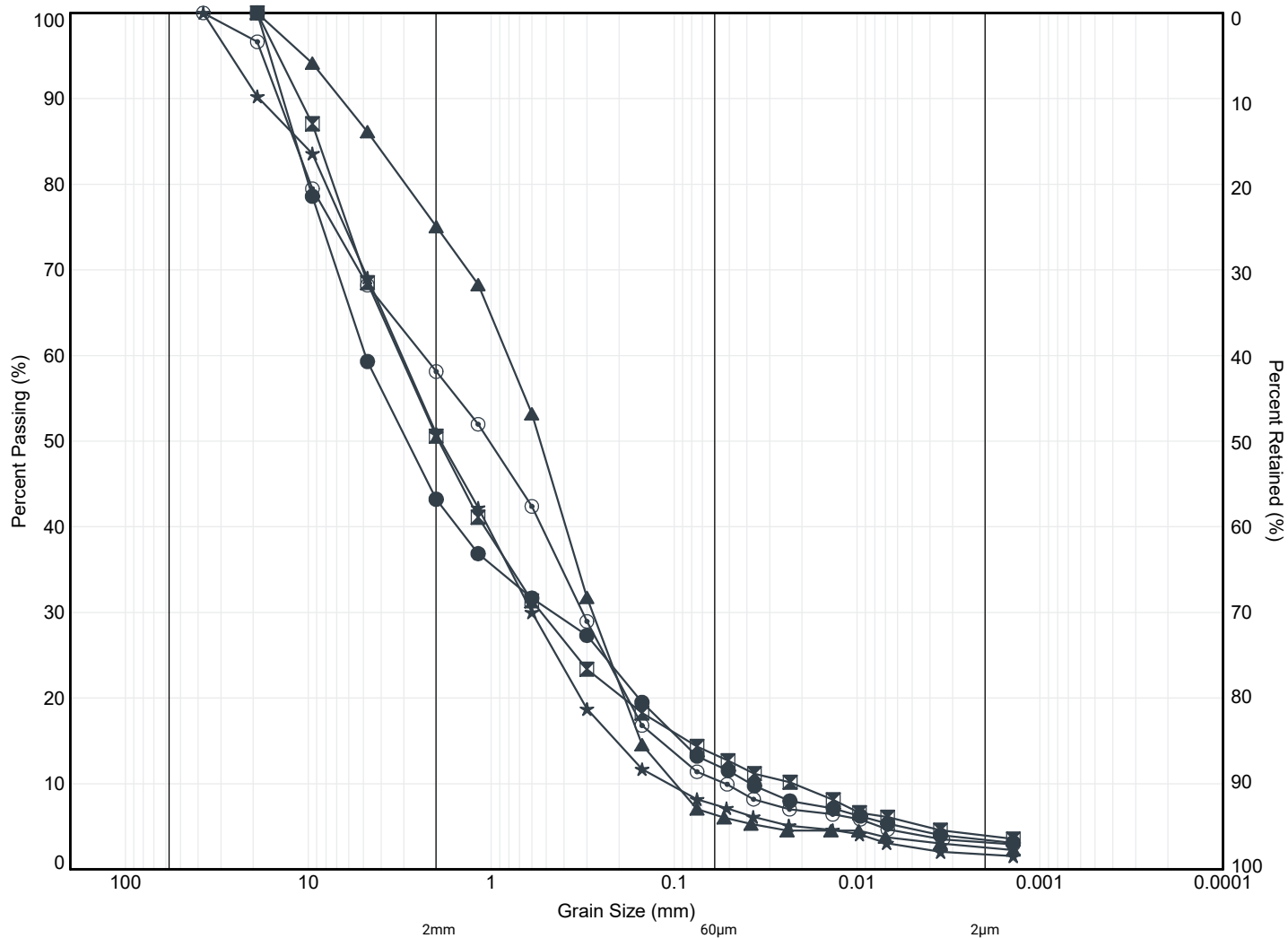


END OF BOREHOLE

Unstabilized water level measured at 1.5 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.
No. 10 screen

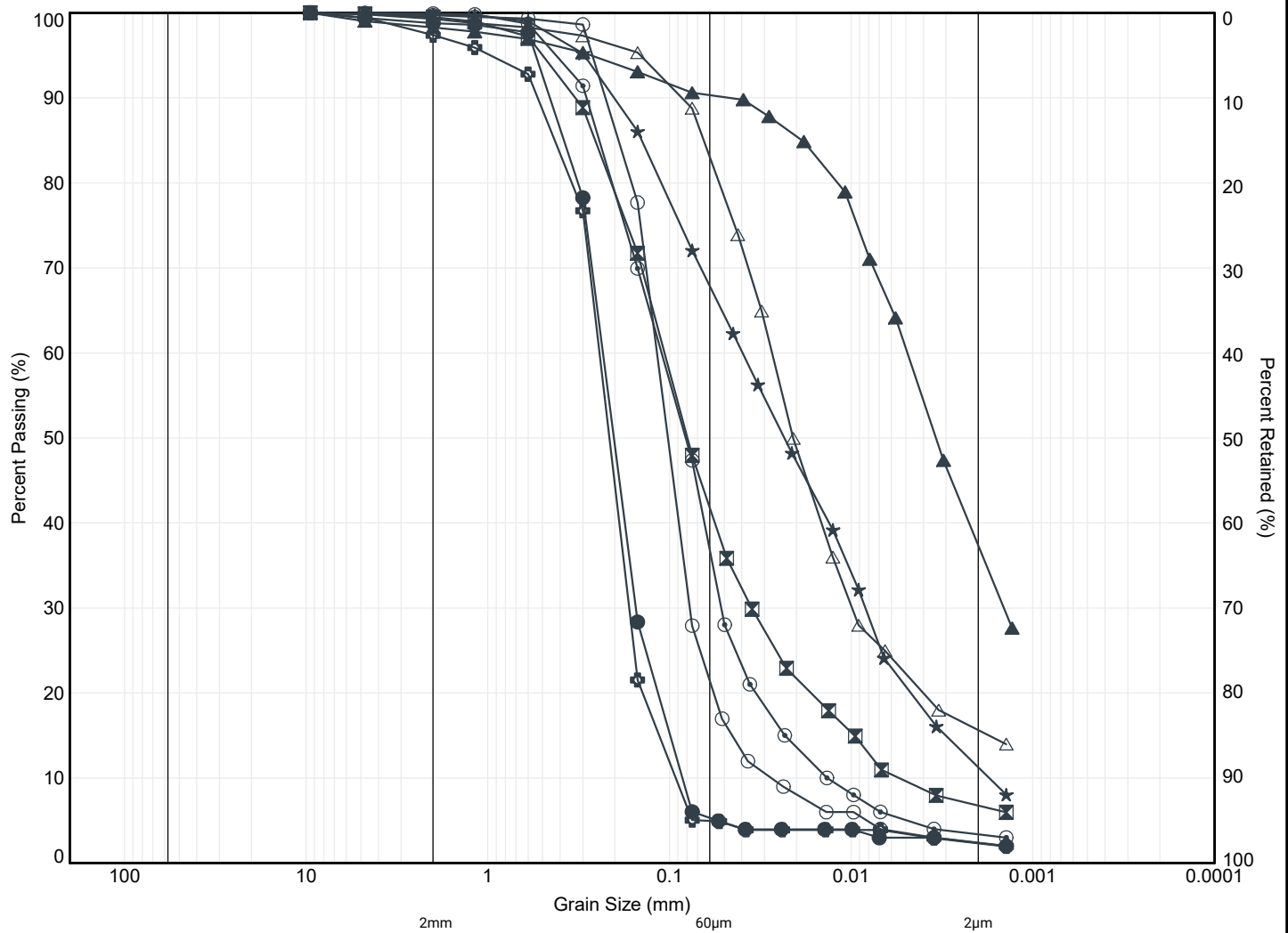
GROUNDWATER LEVELS
date: Jun 15, 2022
depth (m): 2.1
elevation (m): 248.0



MIT SYSTEM	COBBLES	GRAVEL			SAND			SILT	CLAY
		COARSE	MEDIUM	FINE	COARSE	MEDIUM	FINE		

MIT SYSTEM

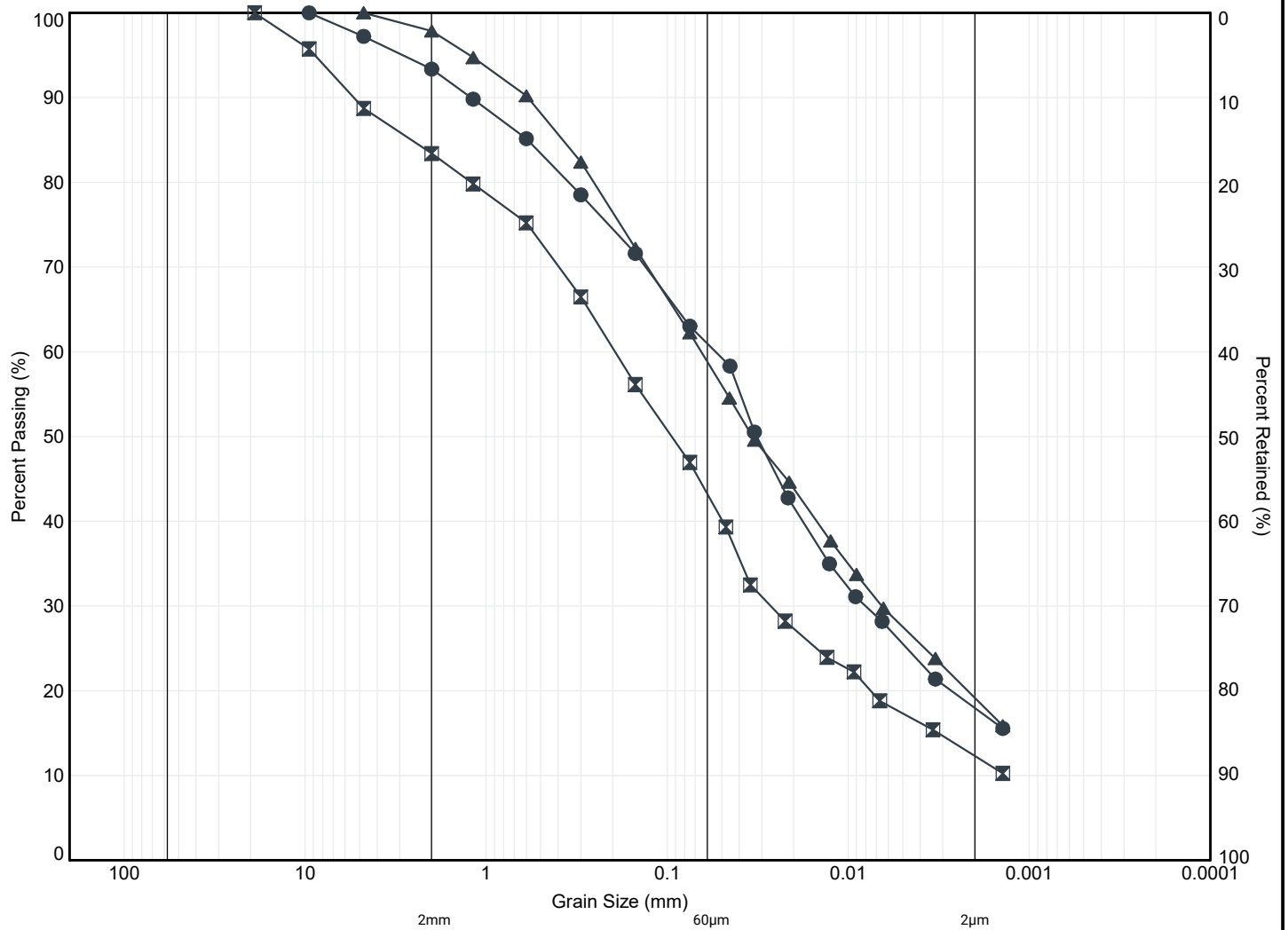
Borehole	Sample	Depth (m)	Elev. (m)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
● 103	SS5	3.4	248.4	57	31	9	3
⊠ 105	1B	0.4	251.9	49	37	10	4
▲ 106	SS6	4.9	246.4	25	68	4	3
★ 108	SS6	4.9	245.8	49	43	6	2
⊙ 109	SS5	3.4	248.4	42	48	7	3



MIT SYSTEM	COBBLES	GRAVEL			SAND			SILT	CLAY
		COARSE	MEDIUM	FINE	COARSE	MEDIUM	FINE		

MIT SYSTEM

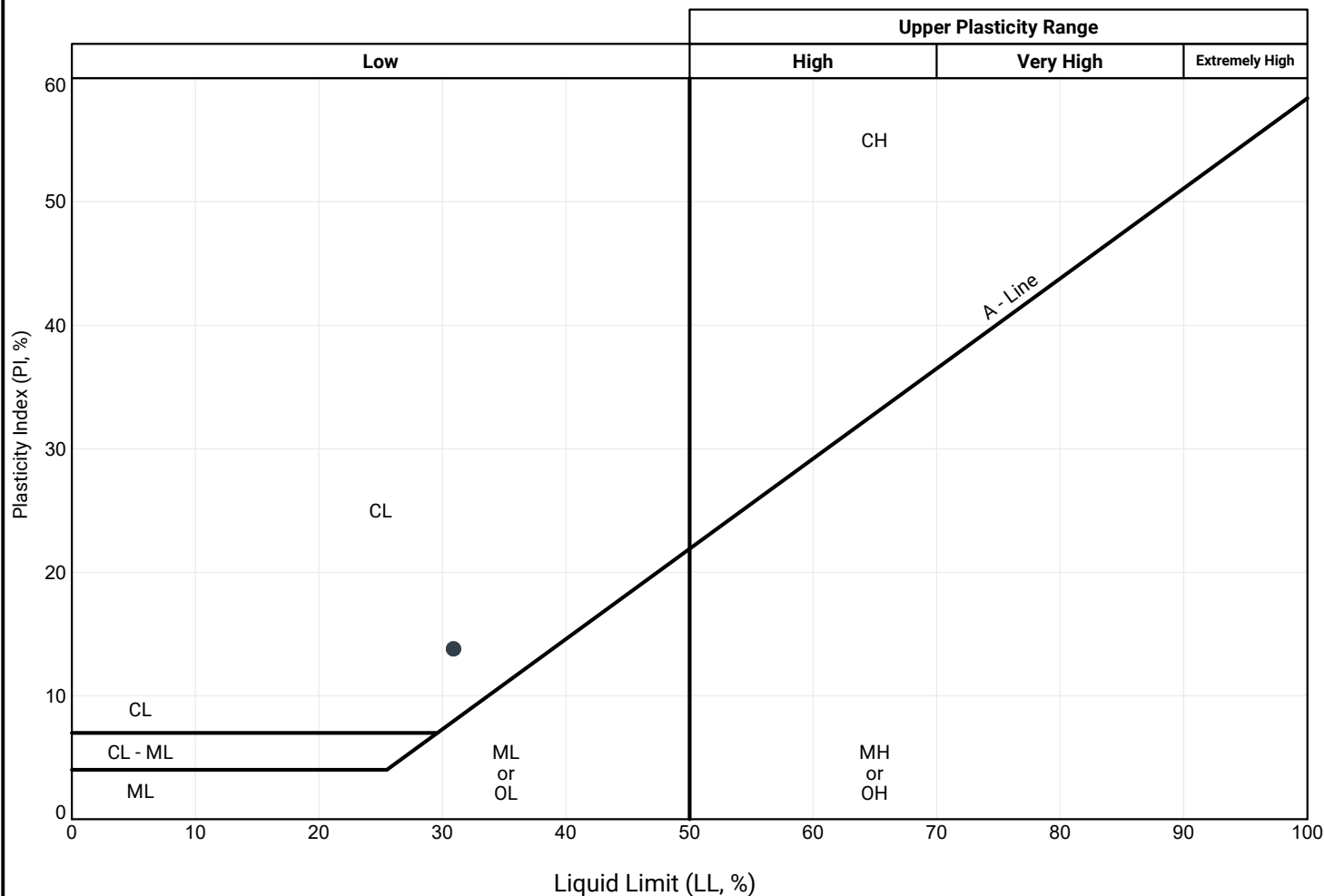
Borehole	Sample	Depth (m)	Elev. (m)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
● 101	SS6	4.9	245.9	1	94	3	2
⊠ 102	SS6	4.9	246.7	1	57	35	7
▲ 104	7B	6.5	245.9	2	8	53	37
★ 110	SS7	4.9	246.1	0	32	57	11
⊙ 111	SS6	4.9	245.1	0	63	34	3
⊕ 113	SS8	7.9	241.4	3	92	3	2
○ 114	SS6	4.9	244.2	0	79	19	2
△ 115	SS6B	5.0	244.7	1	16	67	16



MIT SYSTEM	COBBLES	GRAVEL			SAND			SILT	CLAY
		COARSE	MEDIUM	FINE	COARSE	MEDIUM	FINE		

MIT SYSTEM

Borehole	Sample	Depth (m)	Elev. (m)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
● 104	SS1	0.3	252.1	7	32	43	18
☒ 112	SS1	0.3	249.2	17	40	31	12
▲ 116	SS1	0.3	249.8	2	39	40	19



Borehole	Sample	Depth (m)	LL (%)	PL (%)	PI (%)
● 104	SS7B	6.5	31	17	14

APPENDIX B





Grounded Engineering Inc
ATTN: James Rybicki
1 Banigan Drive
TORONTO ON M4H 1G3

Date Received: 21-APR-22
Report Date: 29-APR-22 10:12 (MT)
Version: FINAL

Client Phone: 647-264-7928

Certificate of Analysis

Lab Work Order #: L2700321

Project P.O. #: NOT SUBMITTED

Job Reference: 22-052

C of C Numbers: 20-955440, 20-955441, 20-955442, 20-955444

Legal Site Desc: 163-164 EDWARD ST. E.

Amanda Overholster
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 5730 Coopers Avenue, Unit #26, Mississauga, ON L4Z 2E9 Canada | Phone: +1 905 507 6910 | Fax: +1 905 507 6927
ALS CANADA LTD Part of the ALS Group An ALS Limited Company



ANALYTICAL REPORT

Summary of Guideline Exceedances

Guideline							
ALS ID	Client ID	Grouping	Analyte	Result	Guideline Limit	Unit	
Ontario Regulation 153/04 - April 15, 2011 Standards - T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use							
(No parameter exceedances)							
Ontario Regulation 153/04 - April 15, 2011 Standards - T2-Soil-Res/Park/Inst. Property Use (Coarse)							
(No parameter exceedances)							

* Please refer to the Reference Information section for an explanation of any qualifiers noted.



L2700321 CONT'D....

PAGE 3 of 22

29-APR-22 10:12 (MT)

Physical Tests - SOIL

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

* Please refer to the Reference Information section for an explanation of any qualifiers noted.



ANALYTICAL REPORT

Physical Tests - SOIL

Analyte	Unit	Guide Limits		Lab ID							
		#1	#2	Sample Date							
				Sample ID							
Conductivity	mS/cm	0.57	0.7	0.0727	0.0796					0.0918	
% Moisture	%	-	-	14.1	17.6	26.9	9.84	8.92	12.6	19.6	9.89 16.5
pH	pH units	-	-	8.00	7.14					7.88	

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use
Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

* Please refer to the Reference Information section for an explanation of any qualifiers noted.



ANALYTICAL REPORT

Physical Tests - SOIL

Analyte	Unit	Guide Limits		Lab ID								
		#1	#2	Sample Date								
				Sample ID								
Conductivity	mS/cm	0.57	0.7		0.190					0.0940		
% Moisture	%	-	-	14.9	20.3	7.53	12.6	14.9	7.89	11.7	11.5	14.6
pH	pH units	-	-		7.38					7.90		

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use
Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

* Please refer to the Reference Information section for an explanation of any qualifiers noted.



ANALYTICAL REPORT

Physical Tests - SOIL

Analyte	Unit	Guide Limits											
		#1	#2										
		Lab ID	L2700321-28	L2700321-29	L2700321-30	L2700321-31	L2700321-32	L2700321-33	L2700321-34	L2700321-35	L2700321-36		
		Sample Date	20-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22		
		Sample ID	BH108 SS1B	BH108 SS2	BH108 SS3	BH108 SS4	BH108 SS5	BH107 SS1	BH107 SS2	BH107 SS3	BH107 SS4		
Conductivity	mS/cm	0.57	0.7		0.101						0.0952		
% Moisture	%	-	-	5.66	7.66	9.92	9.94	9.75	17.5	10.7	10.8	9.39	
pH	pH units	-	-		7.93							7.94	

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use
Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

* Please refer to the Reference Information section for an explanation of any qualifiers noted.



ANALYTICAL REPORT

Physical Tests - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2700321-37	L2700321-38	L2700321-39	L2700321-40	L2700321-41
		#1	#2	Sample Date	20-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22
				Sample ID	DUP-1	DUP-2	DUP-3	DUP-4	DUP-5
Conductivity	mS/cm	0.57	0.7		0.128				
% Moisture	%	-	-		8.75	9.56	10.2	9.32	6.19
pH	pH units	-	-		7.90				

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use
Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)
Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

* Please refer to the Reference Information section for an explanation of any qualifiers noted.



ANALYTICAL REPORT

Cyanides - SOIL

Analyte	Unit	Guide Limits		L2700321-2	L2700321-10	L2700321-11	L2700321-17	L2700321-20	L2700321-25	L2700321-29	L2700321-36	L2700321-37	
		#1	#2										
				Lab ID	L2700321-2	L2700321-10	L2700321-11	L2700321-17	L2700321-20	L2700321-25	L2700321-29	L2700321-36	L2700321-37
				Sample Date	18-APR-22	18-APR-22	19-APR-22	19-APR-22	19-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22
				Sample ID	BH110 SS2	BH115 SS5	BH114 SS1	BH112 SS4	BH113 SS1	BH111 SS3	BH108 SS2	BH107 SS4	DUP-1

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

- Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
- Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

* Please refer to the Reference Information section for an explanation of any qualifiers noted.



ANALYTICAL REPORT

Saturated Paste Extractables - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2700321-2	L2700321-10	L2700321-11	L2700321-17	L2700321-20	L2700321-25	L2700321-29	L2700321-36	L2700321-37
		Sample Date	Sample ID	18-APR-22	18-APR-22	19-APR-22	19-APR-22	19-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22
				BH110 SS2	BH115 SS5	BH114 SS1	BH112 SS4	BH113 SS1	BH111 SS3	BH108 SS2	BH107 SS4	DUP-1	
		#1	#2										
SAR	SAR	2.4	5	1.03	0.55 SAR:M	0.14 SAR:M	1.02 SAR:M	<0.10	0.66 SAR:M	0.37	1.39 SAR:M	0.41	
Calcium (Ca)	mg/L	-	-	4.44	1.42	3.43	1.89	30.0	2.47	3.93	1.73	7.56	
Magnesium (Mg)	mg/L	-	-	0.78	<0.50	<0.50	<0.50	2.89	<0.50	0.55	<0.50	1.28	
Sodium (Na)	mg/L	-	-	8.96	2.37	0.94	5.08	1.50	3.74	2.97	6.64	4.59	

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use
Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

* Please refer to the Reference Information section for an explanation of any qualifiers noted.



ANALYTICAL REPORT

Metals - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2700321-2	L2700321-10	L2700321-11	L2700321-17	L2700321-20	L2700321-25	L2700321-29	L2700321-36	L2700321-37
		#1	#2												
Antimony (Sb)	ug/g	1.3	7.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic (As)	ug/g	18	18	3.4	2.2	8.4	4.1	7.6	3.4	3.7	2.3	3.8			
Barium (Ba)	ug/g	220	390	25.9	21.8	142	30.7	91.7	27.0	27.6	78.5	26.6			
Beryllium (Be)	ug/g	2.5	4	<0.50	<0.50	0.85	<0.50	0.59	<0.50	<0.50	<0.50	<0.50			
Boron (B)	ug/g	36	120	9.0	5.2	11.8	7.7	8.4	7.1	9.5	6.3	9.0			
Boron (B), Hot Water Ext.	ug/g	36	1.5	<0.10	<0.10	0.25	<0.10	0.42	<0.10	<0.10	<0.10	<0.10			
Cadmium (Cd)	ug/g	1.2	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
Chromium (Cr)	ug/g	70	160	9.3	9.8	22.8	11.6	17.0	8.3	9.7	7.5	8.9			
Cobalt (Co)	ug/g	21	22	3.6	3.2	9.6	4.8	7.9	3.6	4.1	6.8	3.7			
Copper (Cu)	ug/g	92	140	24.9	16.1	43.3	30.0	34.8	30.2	25.8	19.7	22.4			
Lead (Pb)	ug/g	120	120	4.6	3.5	11.3	4.8	13.2	4.9	4.5	2.9	4.1			
Mercury (Hg)	ug/g	0.27	0.27	0.0073	<0.0050	0.0764	0.0098	0.0614	0.0068	0.0077	<0.0050	0.0070			
Molybdenum (Mo)	ug/g	2	6.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Nickel (Ni)	ug/g	82	100	8.5	5.6	22.0	10.7	15.4	7.7	8.8	9.3	7.9			
Selenium (Se)	ug/g	1.5	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Silver (Ag)	ug/g	0.5	20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20			
Thallium (Tl)	ug/g	1	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
Uranium (U)	ug/g	2.5	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Vanadium (V)	ug/g	86	86	15.3	22.0	35.8	14.8	27.7	15.9	15.0	28.0	14.1			
Zinc (Zn)	ug/g	290	340	19.8	14.5	52.1	23.8	54.1	20.6	22.5	50.2	19.3			

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Speciated Metals - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2700321-2	L2700321-10	L2700321-11	L2700321-17	L2700321-20	L2700321-25	L2700321-29	L2700321-36	L2700321-37
		#1	#2	Sample Date	18-APR-22	18-APR-22	19-APR-22	19-APR-22	19-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22
				Sample ID	BH110 SS2	BH115 SS5	BH114 SS1	BH112 SS4	BH113 SS1	BH111 SS3	BH108 SS2	BH107 SS4	DUP-1
Chromium, Hexavalent	ug/g	0.66	8		<0.20	<0.20	0.31	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use
Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

- Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
- Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

* Please refer to the Reference Information section for an explanation of any qualifiers noted.

ANALYTICAL REPORT

Volatile Organic Compounds - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2700321-4	L2700321-5	L2700321-7	L2700321-8	L2700321-14	L2700321-15	L2700321-18	L2700321-19	L2700321-22
		#1	#2												
Acetone	ug/g	0.5	16				<0.50	<0.50				<0.50		<0.50	<0.50
Benzene	ug/g	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
Bromodichloromethane	ug/g	0.05	1.5		<0.050	<0.050						<0.050		<0.050	<0.050
Bromoform	ug/g	0.05	0.27		<0.050	<0.050						<0.050		<0.050	<0.050
Bromomethane	ug/g	0.05	0.05		<0.050	<0.050						<0.050		<0.050	<0.050
Carbon tetrachloride	ug/g	0.05	0.05		<0.050	<0.050						<0.050		<0.050	<0.050
Chlorobenzene	ug/g	0.05	2.4		<0.050	<0.050						<0.050		<0.050	<0.050
Dibromochloromethane	ug/g	0.05	2.3		<0.050	<0.050						<0.050		<0.050	<0.050
Chloroform	ug/g	0.05	0.05		<0.050	<0.050						<0.050		<0.050	<0.050
1,2-Dibromoethane	ug/g	0.05	0.05		<0.050	<0.050						<0.050		<0.050	<0.050
1,2-Dichlorobenzene	ug/g	0.05	1.2		<0.050	<0.050						<0.050		<0.050	<0.050
1,3-Dichlorobenzene	ug/g	0.05	4.8		<0.050	<0.050						<0.050		<0.050	<0.050
1,4-Dichlorobenzene	ug/g	0.05	0.083		<0.050	<0.050						<0.050		<0.050	<0.050
Dichlorodifluoromethane	ug/g	0.05	16		<0.050	<0.050						<0.050		<0.050	<0.050
1,1-Dichloroethane	ug/g	0.05	0.47		<0.050	<0.050						<0.050		<0.050	<0.050
1,2-Dichloroethane	ug/g	0.05	0.05		<0.050	<0.050						<0.050		<0.050	<0.050
1,1-Dichloroethylene	ug/g	0.05	0.05		<0.050	<0.050						<0.050		<0.050	<0.050
cis-1,2-Dichloroethylene	ug/g	0.05	1.9		<0.050	<0.050						<0.050		<0.050	<0.050
trans-1,2-Dichloroethylene	ug/g	0.05	0.084		<0.050	<0.050						<0.050		<0.050	<0.050
Methylene Chloride	ug/g	0.05	0.1		<0.050	<0.050						<0.050		<0.050	<0.050
1,2-Dichloropropane	ug/g	0.05	0.05		<0.050	<0.050						<0.050		<0.050	<0.050
cis-1,3-Dichloropropene	ug/g	-	-		<0.030	<0.030						<0.030		<0.030	<0.030
trans-1,3-Dichloropropene	ug/g	-	-		<0.030	<0.030						<0.030		<0.030	<0.030
1,3-Dichloropropene (cis & trans)	ug/g	0.05	0.05		<0.042	<0.042						<0.042		<0.042	<0.042
Ethylbenzene	ug/g	0.05	1.1	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
n-Hexane	ug/g	0.05	2.8		<0.050	<0.050						<0.050		<0.050	<0.050
Methyl Ethyl Ketone	ug/g	0.5	16		<0.50	<0.50						<0.50		<0.50	<0.50
Methyl Isobutyl Ketone	ug/g	0.5	1.7		<0.50	<0.50						<0.50		<0.50	<0.50
MTBE	ug/g	0.05	0.75		<0.050	<0.050						<0.050		<0.050	<0.050
Styrene	ug/g	0.05	0.7		<0.050	<0.050						<0.050		<0.050	<0.050

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

* Please refer to the Reference Information section for an explanation of any qualifiers noted.

ANALYTICAL REPORT

Volatile Organic Compounds - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2700321-26	L2700321-27	L2700321-31	L2700321-32	L2700321-33	L2700321-34	L2700321-39	L2700321-40
		#1	#2				BH111 SS4	BH111 SS7	BH108 SS4	BH108 SS5	BH107 SS1	BH107 SS2	DUP-3	DUP-4
Acetone	ug/g	0.5	16					<0.50		<0.50	<0.50			<0.50
Benzene	ug/g	0.02	0.21	<0.0068	<0.0068	<0.0068								<0.0068
Bromodichloromethane	ug/g	0.05	1.5		<0.050					<0.050	<0.050			<0.050
Bromoform	ug/g	0.05	0.27		<0.050					<0.050	<0.050			<0.050
Bromomethane	ug/g	0.05	0.05		<0.050					<0.050	<0.050			<0.050
Carbon tetrachloride	ug/g	0.05	0.05		<0.050					<0.050	<0.050			<0.050
Chlorobenzene	ug/g	0.05	2.4		<0.050					<0.050	<0.050			<0.050
Dibromochloromethane	ug/g	0.05	2.3		<0.050					<0.050	<0.050			<0.050
Chloroform	ug/g	0.05	0.05		<0.050					<0.050	<0.050			<0.050
1,2-Dibromoethane	ug/g	0.05	0.05		<0.050					<0.050	<0.050			<0.050
1,2-Dichlorobenzene	ug/g	0.05	1.2		<0.050					<0.050	<0.050			<0.050
1,3-Dichlorobenzene	ug/g	0.05	4.8		<0.050					<0.050	<0.050			<0.050
1,4-Dichlorobenzene	ug/g	0.05	0.083		<0.050					<0.050	<0.050			<0.050
Dichlorodifluoromethane	ug/g	0.05	16		<0.050					<0.050	<0.050			<0.050
1,1-Dichloroethane	ug/g	0.05	0.47		<0.050					<0.050	<0.050			<0.050
1,2-Dichloroethane	ug/g	0.05	0.05		<0.050					<0.050	<0.050			<0.050
1,1-Dichloroethylene	ug/g	0.05	0.05		<0.050					<0.050	<0.050			<0.050
cis-1,2-Dichloroethylene	ug/g	0.05	1.9		<0.050					<0.050	<0.050			<0.050
trans-1,2-Dichloroethylene	ug/g	0.05	0.084		<0.050					<0.050	<0.050			<0.050
Methylene Chloride	ug/g	0.05	0.1		<0.050					<0.050	<0.050			<0.050
1,2-Dichloropropane	ug/g	0.05	0.05		<0.050					<0.050	<0.050			<0.050
cis-1,3-Dichloropropene	ug/g	-	-		<0.030					<0.030	<0.030			<0.030
trans-1,3-Dichloropropene	ug/g	-	-		<0.030					<0.030	<0.030			<0.030
1,3-Dichloropropene (cis & trans)	ug/g	0.05	0.05		<0.042					<0.042	<0.042			<0.042
Ethylbenzene	ug/g	0.05	1.1	<0.018	<0.018	<0.018				<0.018	<0.018	<0.018	<0.018	<0.018
n-Hexane	ug/g	0.05	2.8		<0.050					<0.050	<0.050			<0.050
Methyl Ethyl Ketone	ug/g	0.5	16		<0.50					<0.50	<0.50			<0.50
Methyl Isobutyl Ketone	ug/g	0.5	1.7		<0.50					<0.50	<0.50			<0.50
MTBE	ug/g	0.05	0.75		<0.050					<0.050	<0.050			<0.050
Styrene	ug/g	0.05	0.7		<0.050					<0.050	<0.050			<0.050

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

* Please refer to the Reference Information section for an explanation of any qualifiers noted.

ANALYTICAL REPORT

Volatile Organic Compounds - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2700321-4	L2700321-5	L2700321-7	L2700321-8	L2700321-14	L2700321-15	L2700321-18	L2700321-19	L2700321-22	
		#1	#2				18-APR-22	18-APR-22	18-APR-22	18-APR-22	19-APR-22	19-APR-22	19-APR-22	19-APR-22	19-APR-22	19-APR-22
							BH110 SS5	BH110 SS8	BH115 SS2	BH115 SS3	BH114 SS3	BH114 SS4	BH112 SS6	BH112 SS7	BH113 SS3	
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.058					<0.050	<0.050			<0.050		<0.050	<0.050	
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05					<0.050	<0.050			<0.050		<0.050	<0.050	
Tetrachloroethylene	ug/g	0.05	0.28					<0.050	<0.050			<0.050		<0.050	<0.050	
Toluene	ug/g	0.2	2.3	<0.080			<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	
1,1,1-Trichloroethane	ug/g	0.05	0.38				<0.050	<0.050				<0.050		<0.050	<0.050	
1,1,2-Trichloroethane	ug/g	0.05	0.05				<0.050	<0.050				<0.050		<0.050	<0.050	
Trichloroethylene	ug/g	0.05	0.061				<0.010	<0.010				<0.010		<0.010	<0.010	
Trichlorofluoromethane	ug/g	0.25	4				<0.050	<0.050				<0.050		<0.050	<0.050	
Vinyl chloride	ug/g	0.02	0.02				<0.020	<0.020				<0.020		<0.020	<0.020	
o-Xylene	ug/g	-	-	<0.020			<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
m+p-Xylenes	ug/g	-	-	<0.030			<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	
Xylenes (Total)	ug/g	0.05	3.1	<0.050			<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Surrogate: 4-Bromofluorobenzene	%	-	-	107.9	75.4		86.0	99.7	105.8	69.9	105.3	74.3	90.3			
Surrogate: 1,4-Difluorobenzene	%	-	-	114.5	94.4		103.1	107.2	111.8	88.0	113.2	93.1	94.5			

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

ANALYTICAL REPORT

Volatile Organic Compounds - SOIL

Analyte	Unit	Guide Limits											
		#1	#2										
		Lab ID	Sample Date	Sample ID	L2700321-26	L2700321-27	L2700321-31	L2700321-32	L2700321-33	L2700321-34	L2700321-39	L2700321-40	
					20-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22	
					BH111 SS4	BH111 SS7	BH108 SS4	BH108 SS5	BH107 SS1	BH107 SS2	DUP-3	DUP-4	
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.058			<0.050		<0.050	<0.050			<0.050	
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05			<0.050		<0.050	<0.050			<0.050	
Tetrachloroethylene	ug/g	0.05	0.28			<0.050		<0.050	<0.050			<0.050	
Toluene	ug/g	0.2	2.3	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	
1,1,1-Trichloroethane	ug/g	0.05	0.38			<0.050		<0.050	<0.050			<0.050	
1,1,2-Trichloroethane	ug/g	0.05	0.05			<0.050		<0.050	<0.050			<0.050	
Trichloroethylene	ug/g	0.05	0.061			<0.010		<0.010	<0.010			<0.010	
Trichlorofluoromethane	ug/g	0.25	4			<0.050		<0.050	<0.050			<0.050	
Vinyl chloride	ug/g	0.02	0.02			<0.020		<0.020	<0.020			<0.020	
o-Xylene	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
m+p-Xylenes	ug/g	-	-	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	
Xylenes (Total)	ug/g	0.05	3.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Surrogate: 4-Bromofluorobenzene	%	-	-	110.8	72.8	104.9	79.8	73.6	106.8	107.7	75.3		
Surrogate: 1,4-Difluorobenzene	%	-	-	109.2	90.7	107.2	97.8	91.6	106.5	107.3	93.8		

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Hydrocarbons - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2700321-4	L2700321-8	L2700321-14	L2700321-18	L2700321-22	L2700321-26	L2700321-31	L2700321-34	L2700321-39
		#1	#2												
F1 (C6-C10)	ug/g	25	55				<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F1-BTEX	ug/g	25	55				<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	ug/g	10	98				<10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16-C34)	ug/g	240	300				<50	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34-C50)	ug/g	120	2800				<50	<50	<50	<50	<50	<50	<50	<50	<50
Total Hydrocarbons (C6-C50)	ug/g	-	-				<72	<72	<72	<72	<72	<72	<72	<72	<72
Chrom. to baseline at nC50		-	-				YES	YES	YES	YES	YES	YES	YES	YES	YES
Surrogate: 2-Bromobenzotrifluoride	%	-	-				90.6	89.9	90.4	90.6	89.8	89.0	85.2	84.5	90.8
Surrogate: 3,4-Dichlorotoluene	%	-	-				93.5	86.0	90.9	89.5	79.8	121.5	118.3	133.8	124.1

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use
Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)
Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

* Please refer to the Reference Information section for an explanation of any qualifiers noted.



ANALYTICAL REPORT

Polycyclic Aromatic Hydrocarbons - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2700321-3	L2700321-9	L2700321-13	L2700321-17	L2700321-21	L2700321-24	L2700321-30	L2700321-35	L2700321-38
		#1	#2				18-APR-22	18-APR-22	19-APR-22	19-APR-22	19-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22
							BH110 SS3	BH115 SS4	BH114 SS2B	BH112 SS4	BH113 SS2	BH111 SS2	BH108 SS3	BH107 SS3	DUP-2
Acenaphthene	ug/g	0.072	7.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	ug/g	0.093	0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	ug/g	0.16	0.67	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)anthracene	ug/g	0.36	0.5	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	ug/g	0.3	0.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b&j)fluoranthene	ug/g	0.47	0.78	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	ug/g	0.68	6.6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	ug/g	0.48	0.78	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	ug/g	2.8	7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	ug/g	0.1	0.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	ug/g	0.56	0.69	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	ug/g	0.12	62	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	ug/g	0.23	0.38	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1+2-Methylnaphthalenes	ug/g	0.59	0.99	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
1-Methylnaphthalene	ug/g	0.59	0.99	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
2-Methylnaphthalene	ug/g	0.59	0.99	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	ug/g	0.09	0.6	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Phenanthrene	ug/g	0.69	6.2	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046
Pyrene	ug/g	1	78	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Surrogate: 2-Fluorobiphenyl	%	-	-	90.1	85.9	84.2	88.4	84.2	86.6	88.4	87.4	88.5			
Surrogate: d14-Terphenyl	%	-	-	88.7	84.7	83.8	85.3	82.6	85.8	86.3	85.5	87.6			

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Organochlorine Pesticides - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2700321-1	L2700321-6	L2700321-12	L2700321-16	L2700321-21	L2700321-23	L2700321-28	L2700321-34	L2700321-41
		#1	#2				18-APR-22	18-APR-22	19-APR-22	19-APR-22	19-APR-22	20-APR-22	20-APR-22	20-APR-22	20-APR-22
							BH110 SS1	BH115 SS1B	BH114 SS2A	BH112 SS1	BH113 SS2	BH111 SS1	BH108 SS1B	BH107 SS2	DUP-5
Aldrin	ug/g	0.05	0.05	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Lindane	ug/g	0.01	0.056	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
a-chlordane	ug/g	-	-	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Chlordane (Total)	ug/g	0.05	0.05	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042
g-chlordane	ug/g	-	-	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
o,p-DDD	ug/g	-	-	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
pp-DDD	ug/g	-	-	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Total DDD	ug/g	0.05	3.3	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042
o,p-DDE	ug/g	-	-	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
pp-DDE	ug/g	-	-	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Total DDE	ug/g	0.05	0.26	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042
op-DDT	ug/g	-	-	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}
pp-DDT	ug/g	-	-	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}
Total DDT	ug/g	1.4	1.4	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
Dieldrin	ug/g	0.05	0.05	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
alpha-Endosulfan	ug/g	-	-	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
beta-Endosulfan	ug/g	-	-	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Endosulfan (Total)	ug/g	0.04	0.04	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042
Endrin	ug/g	0.04	0.04	<0.0025 ^{DLM}	<0.0025 ^{DLM}	<0.0025 ^{DLM}	<0.0025 ^{DLM}	<0.0025 ^{DLM}	<0.0025 ^{DLM}	<0.0025 ^{DLM}	<0.0025 ^{DLM}	<0.0025 ^{DLM}	<0.0025 ^{DLM}	<0.0025 ^{DLM}	<0.0025 ^{DLM}
Heptachlor	ug/g	0.05	0.15	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Heptachlor Epoxide	ug/g	0.05	0.05	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Hexachlorobenzene	ug/g	0.01	0.52	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Hexachlorobutadiene	ug/g	0.01	0.012	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Hexachloroethane	ug/g	0.01	0.089	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Methoxychlor	ug/g	0.05	0.13	<0.0050 ^{DLM}	<0.0050 ^{DLM}	<0.0050 ^{DLM}	<0.0050 ^{DLM}	<0.0050 ^{DLM}	<0.0050 ^{DLM}	<0.0050 ^{DLM}	<0.0050 ^{DLM}	<0.0050 ^{DLM}	<0.0050 ^{DLM}	<0.0050 ^{DLM}	<0.0050 ^{DLM}
Surrogate: Decachlorobiphenyl	%	-	-	105.9	101.3	104.6	99.9	102.0	97.3	102.8	108.1	106.4			
Surrogate: Tetrachloro-m-xylene	%	-	-	93.5	91.3	95.9	88.7	92.4	84.9	90.9	89.4	91.7			

Guide Limit #1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

* Please refer to the Reference Information section for an explanation of any qualifiers noted.

Reference Information

L2700321 CONT'D....
Job Reference: 22-052
PAGE 19 of 22
29-APR-22 10:12 (MT)

Qualifiers for Individual Parameters Listed:

Qualifier	Description
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.

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).

CR-CR6-IC-WT	Soil	Hexavalent Chromium in Soil	SW846 3060A/7199
---------------------	------	-----------------------------	------------------

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

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-	Soil	Endosulfan Total sums	CALCULATION
---------------------------	------	-----------------------	-------------

Reference Information

L2700321 CONT'D....
Job Reference: 22-052
PAGE 20 of 22
29-APR-22 10:12 (MT)

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
---------------	--------	------------------	--------------------

WT

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).

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

Reference Information

L2700321 CONT'D....
Job Reference: 22-052
PAGE 21 of 22
29-APR-22 10:12 (MT)

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
---------------	--------	------------------	--------------------

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)

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 technique is 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.

Reference Information

L2700321 CONT'D....
 Job Reference: 22-052
 PAGE 22 of 22
 29-APR-22 10:12 (MT)

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
---------------	--------	------------------	--------------------

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.

**ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody Numbers:

20-955440 20-955441 20-955442 20-955444

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

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: L2700321

Report Date: 29-APR-22

Page 1 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT Soil								
Batch	R5768760							
WG3720327-4 DUP		L2700473-4						
Boron (B), Hot Water Ext.		<0.10	<0.10	RPD-NA	ug/g	N/A	30	26-APR-22
WG3720327-2 IRM		WT SAR4						
Boron (B), Hot Water Ext.			104.7		%		70-130	26-APR-22
WG3720327-3 LCS								
Boron (B), Hot Water Ext.			110.0		%		70-130	26-APR-22
WG3720327-1 MB								
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	26-APR-22
BTX-511-HS-WT Soil								
Batch	R5768499							
WG3720223-4 DUP		WG3720223-3						
Benzene		<0.022	<0.022	RPD-NA	ug/g	N/A	40	26-APR-22
Ethylbenzene		0.058	<0.057	RPD-NA	ug/g	N/A	40	26-APR-22
m+p-Xylenes		<0.095	<0.095	RPD-NA	ug/g	N/A	40	26-APR-22
o-Xylene		<0.064	<0.064	RPD-NA	ug/g	N/A	40	26-APR-22
Toluene		<0.25	<0.25	RPD-NA	ug/g	N/A	40	26-APR-22
WG3720223-2 LCS								
Benzene			107.9		%		70-130	26-APR-22
Ethylbenzene			111.4		%		70-130	26-APR-22
m+p-Xylenes			108.1		%		70-130	26-APR-22
o-Xylene			103.6		%		70-130	26-APR-22
Toluene			118.1		%		70-130	26-APR-22
WG3720223-1 MB								
Benzene			<0.0068		ug/g		0.0068	26-APR-22
Ethylbenzene			<0.018		ug/g		0.018	26-APR-22
m+p-Xylenes			<0.030		ug/g		0.03	26-APR-22
o-Xylene			<0.020		ug/g		0.02	26-APR-22
Toluene			<0.080		ug/g		0.08	26-APR-22
Surrogate: 1,4-Difluorobenzene			117.2		%		50-140	26-APR-22
Surrogate: 4-Bromofluorobenzene			116.8		%		50-140	26-APR-22
WG3720223-5 MS		WG3720223-3						
Benzene			136.9		%		60-140	26-APR-22
Ethylbenzene			107.0		%		60-140	26-APR-22
m+p-Xylenes			107.1		%		60-140	26-APR-22
o-Xylene			104.7		%		60-140	26-APR-22
Toluene			139.0		%		60-140	26-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 2 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT		Soil						
Batch	R5768818							
WG3720187-4	DUP	WG3720187-3						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	28-APR-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	28-APR-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	28-APR-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	28-APR-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	28-APR-22
WG3720187-2	LCS							
Benzene			106.2		%		70-130	28-APR-22
Ethylbenzene			104.4		%		70-130	28-APR-22
m+p-Xylenes			103.1		%		70-130	28-APR-22
o-Xylene			108.0		%		70-130	28-APR-22
Toluene			106.0		%		70-130	28-APR-22
WG3720187-1	MB							
Benzene			<0.0068		ug/g		0.0068	28-APR-22
Ethylbenzene			<0.018		ug/g		0.018	28-APR-22
m+p-Xylenes			<0.030		ug/g		0.03	28-APR-22
o-Xylene			<0.020		ug/g		0.02	28-APR-22
Toluene			<0.080		ug/g		0.08	28-APR-22
Surrogate: 1,4-Difluorobenzene			117.2		%		50-140	28-APR-22
Surrogate: 4-Bromofluorobenzene			111.5		%		50-140	28-APR-22
WG3720187-5	MS	WG3720187-3						
Benzene			119.4		%		60-140	28-APR-22
Ethylbenzene			115.0		%		60-140	28-APR-22
m+p-Xylenes			114.8		%		60-140	28-APR-22
o-Xylene			119.6		%		60-140	28-APR-22
Toluene			118.4		%		60-140	28-APR-22
CN-WAD-R511-WT		Soil						
Batch	R5768144							
WG3719344-3	DUP	L2700163-3						
Cyanide, Weak Acid Diss		<0.050	<0.050	RPD-NA	ug/g	N/A	35	25-APR-22
WG3719344-2	LCS							
Cyanide, Weak Acid Diss			101.6		%		80-120	26-APR-22
WG3719344-1	MB							
Cyanide, Weak Acid Diss			<0.050		ug/g		0.05	25-APR-22
WG3719344-4	MS	L2700163-3						
Cyanide, Weak Acid Diss			104.1		%		70-130	25-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 3 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CR-CR6-IC-WT		Soil						
Batch	R5768497							
WG3719857-3	DUP	L2700321-10						
Chromium, Hexavalent		<0.20	<0.20	RPD-NA	ug/g	N/A	35	25-APR-22
WG3719857-2	LCS							
Chromium, Hexavalent			85.6		%		80-120	25-APR-22
WG3719857-1	MB							
Chromium, Hexavalent			<0.20		ug/g		0.2	25-APR-22
WG3719857-4	MS	L2700321-10						
Chromium, Hexavalent			99.5		%		70-130	25-APR-22
Batch	R5768880							
WG3719908-3	DUP	L2699837-21						
Chromium, Hexavalent		<0.20	<0.20	RPD-NA	ug/g	N/A	35	26-APR-22
WG3719908-2	LCS							
Chromium, Hexavalent			80.1		%		80-120	26-APR-22
WG3719908-1	MB							
Chromium, Hexavalent			<0.20		ug/g		0.2	26-APR-22
WG3719908-4	MS	L2699837-21						
Chromium, Hexavalent			101.3		%		70-130	26-APR-22
EC-WT		Soil						
Batch	R5768625							
WG3720331-4	DUP	WG3720331-3						
Conductivity		0.113	0.112		mS/cm	0.7	20	26-APR-22
WG3720331-2	IRM	WT SAR4						
Conductivity			100.3		%		70-130	26-APR-22
WG3720543-1	LCS							
Conductivity			100.0		%		90-110	26-APR-22
WG3720331-1	MB							
Conductivity			<0.0040		mS/cm		0.004	26-APR-22
F1-HS-511-WT		Soil						
Batch	R5768499							
WG3720223-4	DUP	WG3720223-3						
F1 (C6-C10)		23	26		ug/g	14	30	26-APR-22
WG3720223-2	LCS							
F1 (C6-C10)			99.96		%		80-120	26-APR-22
WG3720223-1	MB							
F1 (C6-C10)			<5.0		ug/g		5	26-APR-22
Surrogate: 3,4-Dichlorotoluene			136.5		%		60-140	26-APR-22
WG3720223-5	MS	WG3720223-3						



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 4 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT		Soil						
Batch	R5768499							
WG3720223-5	MS	WG3720223-3						
F1 (C6-C10)			139.1		%		60-140	27-APR-22
Batch	R5768681							
WG3720133-4	DUP	WG3720133-3						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	26-APR-22
WG3720133-2	LCS							
F1 (C6-C10)			110.0		%		80-120	26-APR-22
WG3720133-1	MB							
F1 (C6-C10)			<5.0		ug/g		5	26-APR-22
Surrogate: 3,4-Dichlorotoluene			108.4		%		60-140	26-APR-22
WG3720133-5	MS	WG3720133-3						
F1 (C6-C10)			114.8		%		60-140	26-APR-22
Batch	R5768818							
WG3720187-4	DUP	WG3720187-3						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	28-APR-22
WG3720187-2	LCS							
F1 (C6-C10)			109.3		%		80-120	28-APR-22
WG3720187-1	MB							
F1 (C6-C10)			<5.0		ug/g		5	28-APR-22
Surrogate: 3,4-Dichlorotoluene			113.6		%		60-140	28-APR-22
WG3720187-5	MS	WG3720187-3						
F1 (C6-C10)			119.8		%		60-140	28-APR-22
F2-F4-511-WT		Soil						
Batch	R5768558							
WG3719489-7	DUP	WG3719489-6						
F2 (C10-C16)		58	177	DUP-H	ug/g	101	40	28-APR-22
F3 (C16-C34)		742	1860	DUP-H	ug/g	86	40	28-APR-22
F4 (C34-C50)		555	650		ug/g	16	40	28-APR-22
WG3719489-2	LCS							
F2 (C10-C16)			97.7		%		70-130	26-APR-22
F3 (C16-C34)			90.8		%		70-130	26-APR-22
F4 (C34-C50)			88.6		%		70-130	26-APR-22
WG3719489-1	MB							
F2 (C10-C16)			<10		ug/g		10	26-APR-22
F3 (C16-C34)			<50		ug/g		50	26-APR-22
F4 (C34-C50)			<50		ug/g		50	26-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 5 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT Soil								
Batch	R5768558							
WG3719489-1 MB								
Surrogate: 2-Bromobenzotrifluoride			99.1		%		60-140	26-APR-22
WG3719489-8 MS		WG3719489-6						
F2 (C10-C16)			92.9		%		60-140	28-APR-22
F3 (C16-C34)			93.9		%		60-140	28-APR-22
F4 (C34-C50)			81.8		%		60-140	28-APR-22
HG-200.2-CVAA-WT Soil								
Batch	R5768540							
WG3720309-2 CRM		WT-SS-2						
Mercury (Hg)			103.4		%		70-130	26-APR-22
WG3720309-6 DUP		WG3720309-5						
Mercury (Hg)		0.0137	0.0136		ug/g	1.1	40	26-APR-22
WG3720309-3 LCS								
Mercury (Hg)			115.0		%		80-120	26-APR-22
WG3720309-1 MB								
Mercury (Hg)			<0.0050		mg/kg		0.005	26-APR-22
MET-200.2-CCMS-WT Soil								
Batch	R5768639							
WG3720309-2 CRM		WT-SS-2						
Antimony (Sb)			90.9		%		70-130	26-APR-22
Arsenic (As)			95.0		%		70-130	26-APR-22
Barium (Ba)			104.7		%		70-130	26-APR-22
Beryllium (Be)			98.1		%		70-130	26-APR-22
Boron (B)			8.4		mg/kg		3.5-13.5	26-APR-22
Cadmium (Cd)			92.8		%		70-130	26-APR-22
Chromium (Cr)			91.7		%		70-130	26-APR-22
Cobalt (Co)			95.2		%		70-130	26-APR-22
Copper (Cu)			95.4		%		70-130	26-APR-22
Lead (Pb)			94.3		%		70-130	26-APR-22
Molybdenum (Mo)			93.8		%		70-130	26-APR-22
Nickel (Ni)			94.1		%		70-130	26-APR-22
Selenium (Se)			0.13		mg/kg		0-0.34	26-APR-22
Silver (Ag)			87.6		%		70-130	26-APR-22
Thallium (Tl)			0.064		mg/kg		0.029-0.129	26-APR-22
Uranium (U)			82.6		%		70-130	26-APR-22
Vanadium (V)			93.2		%		70-130	26-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 6 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5768639							
WG3720309-2	CRM	WT-SS-2						
Zinc (Zn)			91.5		%		70-130	26-APR-22
WG3720309-6	DUP	WG3720309-5						
Antimony (Sb)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	26-APR-22
Arsenic (As)		4.43	4.76		ug/g	7.2	30	26-APR-22
Barium (Ba)		58.9	64.6		ug/g	9.2	40	26-APR-22
Beryllium (Be)		0.42	0.44		ug/g	5.1	30	26-APR-22
Boron (B)		6.3	6.8		ug/g	6.8	30	26-APR-22
Cadmium (Cd)		0.073	0.078		ug/g	7.7	30	26-APR-22
Chromium (Cr)		14.1	15.3		ug/g	8.1	30	26-APR-22
Cobalt (Co)		8.88	9.65		ug/g	8.3	30	26-APR-22
Copper (Cu)		22.2	24.0		ug/g	7.7	30	26-APR-22
Lead (Pb)		8.56	9.44		ug/g	9.8	40	26-APR-22
Molybdenum (Mo)		0.36	0.39		ug/g	9.6	40	26-APR-22
Nickel (Ni)		16.8	18.6		ug/g	9.7	30	26-APR-22
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	26-APR-22
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	26-APR-22
Thallium (Tl)		0.104	0.113		ug/g	8.6	30	26-APR-22
Uranium (U)		0.452	0.509		ug/g	12	30	26-APR-22
Vanadium (V)		22.7	24.4		ug/g	7.5	30	26-APR-22
Zinc (Zn)		40.6	43.7		ug/g	7.5	30	26-APR-22
WG3720309-4	LCS							
Antimony (Sb)			95.4		%		80-120	26-APR-22
Arsenic (As)			97.5		%		80-120	26-APR-22
Barium (Ba)			99.0		%		80-120	26-APR-22
Beryllium (Be)			92.9		%		80-120	26-APR-22
Boron (B)			92.4		%		80-120	26-APR-22
Cadmium (Cd)			99.4		%		80-120	26-APR-22
Chromium (Cr)			94.9		%		80-120	26-APR-22
Cobalt (Co)			93.7		%		80-120	26-APR-22
Copper (Cu)			91.5		%		80-120	26-APR-22
Lead (Pb)			99.98		%		80-120	26-APR-22
Molybdenum (Mo)			95.1		%		80-120	26-APR-22
Nickel (Ni)			93.9		%		80-120	26-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 7 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5768639							
WG3720309-4	LCS							
Selenium (Se)			92.2		%		80-120	26-APR-22
Silver (Ag)			87.8		%		80-120	26-APR-22
Thallium (Tl)			97.6		%		80-120	26-APR-22
Uranium (U)			92.1		%		80-120	26-APR-22
Vanadium (V)			98.4		%		80-120	26-APR-22
Zinc (Zn)			92.4		%		80-120	26-APR-22
WG3720309-1	MB							
Antimony (Sb)			<0.10		mg/kg		0.1	26-APR-22
Arsenic (As)			<0.10		mg/kg		0.1	26-APR-22
Barium (Ba)			<0.50		mg/kg		0.5	26-APR-22
Beryllium (Be)			<0.10		mg/kg		0.1	26-APR-22
Boron (B)			<5.0		mg/kg		5	26-APR-22
Cadmium (Cd)			<0.020		mg/kg		0.02	26-APR-22
Chromium (Cr)			<0.50		mg/kg		0.5	26-APR-22
Cobalt (Co)			<0.10		mg/kg		0.1	26-APR-22
Copper (Cu)			<0.50		mg/kg		0.5	26-APR-22
Lead (Pb)			<0.50		mg/kg		0.5	26-APR-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	26-APR-22
Nickel (Ni)			<0.50		mg/kg		0.5	26-APR-22
Selenium (Se)			<0.20		mg/kg		0.2	26-APR-22
Silver (Ag)			<0.10		mg/kg		0.1	26-APR-22
Thallium (Tl)			<0.050		mg/kg		0.05	26-APR-22
Uranium (U)			<0.050		mg/kg		0.05	26-APR-22
Vanadium (V)			<0.20		mg/kg		0.2	26-APR-22
Zinc (Zn)			<2.0		mg/kg		2	26-APR-22
MOISTURE-WT		Soil						
Batch	R5767615							
WG3719375-3	DUP	L2700011-5						
% Moisture		12.4	11.9		%	4.2	20	22-APR-22
WG3719375-2	LCS							
% Moisture			100.1		%		90-110	22-APR-22
WG3719375-1	MB							
% Moisture			<0.25		%		0.25	22-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 8 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT		Soil						
Batch	R5767698							
WG3719405-3	DUP	L2700321-18						
% Moisture		16.5	15.5		%	6.0	20	22-APR-22
WG3719405-2	LCS		99.5		%		90-110	22-APR-22
% Moisture								
WG3719405-1	MB		<0.25		%		0.25	22-APR-22
% Moisture								
Batch	R5767812							
WG3719432-3	DUP	L2700321-41						
% Moisture		6.19	5.81		%	6.4	20	22-APR-22
WG3719432-2	LCS		99.4		%		90-110	22-APR-22
% Moisture								
WG3719432-1	MB		<0.25		%		0.25	22-APR-22
% Moisture								
OCP-TRACE-WT		Soil						
Batch	R5769432							
WG3719630-3	DUP	WG3719630-5						
Aldrin		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	28-APR-22
a-chlordane		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	28-APR-22
g-chlordane		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	28-APR-22
o,p-DDD		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	28-APR-22
pp-DDD		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	28-APR-22
o,p-DDE		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	28-APR-22
pp-DDE		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	28-APR-22
op-DDT		<0.0030	<0.0030	RPD-NA	ug/g	N/A	50	28-APR-22
pp-DDT		<0.0030	<0.0030	RPD-NA	ug/g	N/A	50	28-APR-22
Dieldrin		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	28-APR-22
alpha-Endosulfan		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	28-APR-22
beta-Endosulfan		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	28-APR-22
Endrin		<0.0025	<0.0025	RPD-NA	ug/g	N/A	50	28-APR-22
Heptachlor		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	28-APR-22
Heptachlor Epoxide		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	28-APR-22
Hexachlorobenzene		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	28-APR-22
Hexachlorobutadiene		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	28-APR-22
Hexachloroethane		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	28-APR-22
Lindane		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	28-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 9 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT		Soil						
Batch	R5769432							
WG3719630-3	DUP	WG3719630-5						
Methoxychlor		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	28-APR-22
WG3719630-2	LCS							
Aldrin			99.99		%		50-150	28-APR-22
a-chlordane			96.4		%		50-150	28-APR-22
g-chlordane			95.9		%		50-150	28-APR-22
o,p-DDD			114.2		%		50-150	28-APR-22
pp-DDD			134.6		%		50-150	28-APR-22
o,p-DDE			90.2		%		50-150	28-APR-22
pp-DDE			101.7		%		50-150	28-APR-22
op-DDT			54.8		%		50-150	28-APR-22
pp-DDT			61.0		%		50-150	28-APR-22
Dieldrin			102.7		%		50-150	28-APR-22
alpha-Endosulfan			82.8		%		50-150	28-APR-22
beta-Endosulfan			77.0		%		50-150	28-APR-22
Endrin			52.5		%		50-150	28-APR-22
Heptachlor			89.3		%		50-150	28-APR-22
Heptachlor Epoxide			104.3		%		50-150	28-APR-22
Hexachlorobenzene			103.5		%		50-150	28-APR-22
Hexachlorobutadiene			121.5		%		50-150	28-APR-22
Hexachloroethane			105.7		%		50-150	28-APR-22
Lindane			98.9		%		50-150	28-APR-22
Methoxychlor			68.8		%		50-150	28-APR-22
WG3719630-1	MB							
Aldrin			<0.00020		ug/g		0.0002	28-APR-22
a-chlordane			<0.00030		ug/g		0.0003	28-APR-22
g-chlordane			<0.00030		ug/g		0.0003	28-APR-22
o,p-DDD			<0.00030		ug/g		0.0003	28-APR-22
pp-DDD			<0.00030		ug/g		0.0003	28-APR-22
o,p-DDE			<0.00030		ug/g		0.0003	28-APR-22
pp-DDE			<0.00030		ug/g		0.0003	28-APR-22
op-DDT			<0.00030		ug/g		0.0003	28-APR-22
pp-DDT			<0.00030		ug/g		0.0003	28-APR-22
Dieldrin			<0.00020		ug/g		0.0002	28-APR-22
alpha-Endosulfan			<0.00030		ug/g		0.0003	28-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 10 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT		Soil						
Batch	R5769432							
WG3719630-1 MB								
beta-Endosulfan			<0.00030		ug/g		0.0003	28-APR-22
Endrin			<0.00050		ug/g		0.0005	28-APR-22
Heptachlor			<0.00020		ug/g		0.0002	28-APR-22
Heptachlor Epoxide			<0.00020		ug/g		0.0002	28-APR-22
Hexachlorobenzene			<0.00050		ug/g		0.0005	28-APR-22
Hexachlorobutadiene			<0.00050		ug/g		0.0005	28-APR-22
Hexachloroethane			<0.00050		ug/g		0.0005	28-APR-22
Lindane			<0.00020		ug/g		0.0002	28-APR-22
Methoxychlor			<0.00050		ug/g		0.0005	28-APR-22
Surrogate: Tetrachloro-m-xylene			96.7		%		50-150	28-APR-22
Surrogate: Decachlorobiphenyl			102.8		%		50-150	28-APR-22
WG3719630-4 MS		WG3719630-5						
Aldrin			96.7		%		50-150	28-APR-22
a-chlordane			92.0		%		50-150	28-APR-22
g-chlordane			84.1		%		50-150	28-APR-22
o,p-DDD			101.4		%		50-150	28-APR-22
pp-DDD			124.5		%		50-150	28-APR-22
o,p-DDE			80.9		%		50-150	28-APR-22
pp-DDE			92.5		%		50-150	28-APR-22
op-DDT			57.8		%		50-150	28-APR-22
pp-DDT			51.8		%		50-150	28-APR-22
Dieldrin			92.7		%		50-150	28-APR-22
alpha-Endosulfan			69.9		%		50-150	28-APR-22
beta-Endosulfan			64.7		%		50-150	28-APR-22
Endrin			75.1		%		50-150	28-APR-22
Heptachlor			90.9		%		50-150	28-APR-22
Heptachlor Epoxide			88.8		%		50-150	28-APR-22
Hexachlorobenzene			100.2		%		50-150	28-APR-22
Hexachlorobutadiene			114.3		%		50-150	28-APR-22
Hexachloroethane			100.3		%		50-150	28-APR-22
Lindane			94.9		%		50-150	28-APR-22
Methoxychlor			72.7		%		50-150	28-APR-22

PAH-511-WT **Soil**



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 11 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT		Soil						
Batch	R5768326							
WG3719504-8 DUP		WG3719504-6						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-APR-22
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-APR-22
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-22
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-22
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-22
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-22
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-22
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-22
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-22
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-22
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-22
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-22
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-22
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-22
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-22
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	25-APR-22
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	25-APR-22
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-APR-22
WG3719504-2 LCS								
1-Methylnaphthalene			86.7		%		50-140	25-APR-22
2-Methylnaphthalene			89.3		%		50-140	25-APR-22
Acenaphthene			86.1		%		50-140	25-APR-22
Acenaphthylene			92.0		%		50-140	25-APR-22
Anthracene			96.4		%		50-140	25-APR-22
Benzo(a)anthracene			90.0		%		50-140	25-APR-22
Benzo(a)pyrene			101.2		%		50-140	25-APR-22
Benzo(b&j)fluoranthene			97.7		%		50-140	25-APR-22
Benzo(g,h,i)perylene			72.9		%		50-140	25-APR-22
Benzo(k)fluoranthene			84.1		%		50-140	25-APR-22
Chrysene			91.2		%		50-140	25-APR-22
Dibenz(a,h)anthracene			79.3		%		50-140	25-APR-22
Fluoranthene			89.0		%		50-140	25-APR-22
Fluorene			85.3		%		50-140	25-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 12 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT		Soil						
Batch	R5768326							
WG3719504-2	LCS							
Indeno(1,2,3-cd)pyrene			76.7		%		50-140	25-APR-22
Naphthalene			87.7		%		50-140	25-APR-22
Phenanthrene			87.1		%		50-140	25-APR-22
Pyrene			89.0		%		50-140	25-APR-22
WG3719504-1	MB							
1-Methylnaphthalene			<0.030		ug/g		0.03	25-APR-22
2-Methylnaphthalene			<0.030		ug/g		0.03	25-APR-22
Acenaphthene			<0.050		ug/g		0.05	25-APR-22
Acenaphthylene			<0.050		ug/g		0.05	25-APR-22
Anthracene			<0.050		ug/g		0.05	25-APR-22
Benzo(a)anthracene			<0.050		ug/g		0.05	25-APR-22
Benzo(a)pyrene			<0.050		ug/g		0.05	25-APR-22
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	25-APR-22
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	25-APR-22
Benzo(k)fluoranthene			<0.050		ug/g		0.05	25-APR-22
Chrysene			<0.050		ug/g		0.05	25-APR-22
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	25-APR-22
Fluoranthene			<0.050		ug/g		0.05	25-APR-22
Fluorene			<0.050		ug/g		0.05	25-APR-22
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	25-APR-22
Naphthalene			<0.013		ug/g		0.013	25-APR-22
Phenanthrene			<0.046		ug/g		0.046	25-APR-22
Pyrene			<0.050		ug/g		0.05	25-APR-22
Surrogate: 2-Fluorobiphenyl			89.4		%		50-140	25-APR-22
Surrogate: d14-Terphenyl			86.2		%		50-140	25-APR-22
WG3719504-7	MS	WG3719504-6						
1-Methylnaphthalene			90.8		%		50-140	25-APR-22
2-Methylnaphthalene			93.4		%		50-140	25-APR-22
Acenaphthene			91.6		%		50-140	25-APR-22
Acenaphthylene			96.3		%		50-140	25-APR-22
Anthracene			102.6		%		50-140	25-APR-22
Benzo(a)anthracene			95.9		%		50-140	25-APR-22
Benzo(a)pyrene			106.9		%		50-140	25-APR-22
Benzo(b&j)fluoranthene			98.3		%		50-140	25-APR-22

Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 13 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT								
Soil								
Batch	R5768326							
WG3719504-7 MS		WG3719504-6						
Benzo(g,h,i)perylene			80.3		%		50-140	25-APR-22
Benzo(k)fluoranthene			94.0		%		50-140	25-APR-22
Chrysene			95.2		%		50-140	25-APR-22
Dibenz(a,h)anthracene			88.9		%		50-140	25-APR-22
Fluoranthene			93.4		%		50-140	25-APR-22
Fluorene			90.6		%		50-140	25-APR-22
Indeno(1,2,3-cd)pyrene			90.9		%		50-140	25-APR-22
Naphthalene			90.4		%		50-140	25-APR-22
Phenanthrene			91.4		%		50-140	25-APR-22
Pyrene			93.6		%		50-140	25-APR-22
PH-WT								
Soil								
Batch	R5769378							
WG3719460-1 DUP		L2700211-1						
pH		7.53	7.55	J	pH units	0.02	0.3	28-APR-22
WG3721333-1 LCS								
pH			7.01		pH units		6.9-7.1	28-APR-22
SAR-R511-WT								
Soil								
Batch	R5768743							
WG3720331-4 DUP		WG3720331-3						
Calcium (Ca)		4.57	4.45		mg/L	2.7	30	26-APR-22
Sodium (Na)		3.33	3.33		mg/L	0.0	30	26-APR-22
Magnesium (Mg)		1.54	1.50		mg/L	2.6	30	26-APR-22
WG3720331-2 IRM		WT SAR4						
Calcium (Ca)			109.2		%		70-130	26-APR-22
Sodium (Na)			104.4		%		70-130	26-APR-22
Magnesium (Mg)			109.3		%		70-130	26-APR-22
WG3720331-5 LCS								
Calcium (Ca)			101.3		%		80-120	26-APR-22
Sodium (Na)			98.6		%		80-120	26-APR-22
Magnesium (Mg)			99.8		%		80-120	26-APR-22
WG3720331-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	26-APR-22
Sodium (Na)			<0.50		mg/L		0.5	26-APR-22
Magnesium (Mg)			<0.50		mg/L		0.5	26-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 14 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5768681							
WG3720133-4	DUP	WG3720133-3						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	26-APR-22
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	26-APR-22
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	26-APR-22
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	26-APR-22
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	26-APR-22
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	26-APR-22
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	26-APR-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	26-APR-22
Styrene		<0.050	<0.050		ug/g			26-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 15 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5768681							
WG3720133-4 DUP		WG3720133-3						
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	26-APR-22
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	26-APR-22
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	26-APR-22
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	26-APR-22
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	26-APR-22
WG3720133-2 LCS								
1,1,1,2-Tetrachloroethane			99.3		%		60-130	26-APR-22
1,1,1,2,2-Tetrachloroethane			108.2		%		60-130	26-APR-22
1,1,1-Trichloroethane			103.1		%		60-130	26-APR-22
1,1,2-Trichloroethane			104.4		%		60-130	26-APR-22
1,1-Dichloroethane			104.2		%		60-130	26-APR-22
1,1-Dichloroethylene			91.3		%		60-130	26-APR-22
1,2-Dibromoethane			100.9		%		70-130	26-APR-22
1,2-Dichlorobenzene			98.2		%		70-130	26-APR-22
1,2-Dichloroethane			104.5		%		60-130	26-APR-22
1,2-Dichloropropane			96.2		%		70-130	26-APR-22
1,3-Dichlorobenzene			95.5		%		70-130	26-APR-22
1,4-Dichlorobenzene			95.4		%		70-130	26-APR-22
Acetone			114.5		%		60-140	26-APR-22
Benzene			89.3		%		70-130	26-APR-22
Bromodichloromethane			104.8		%		50-140	26-APR-22
Bromoform			102.2		%		70-130	26-APR-22
Bromomethane			88.9		%		50-140	26-APR-22
Carbon tetrachloride			104.4		%		70-130	26-APR-22
Chlorobenzene			96.1		%		70-130	26-APR-22
Chloroform			99.2		%		70-130	26-APR-22
cis-1,2-Dichloroethylene			95.8		%		70-130	26-APR-22
cis-1,3-Dichloropropene			91.2		%		70-130	26-APR-22
Dibromochloromethane			97.0		%		60-130	26-APR-22
Dichlorodifluoromethane			70.7		%		50-140	26-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 16 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5768681							
WG3720133-2	LCS							
Ethylbenzene			91.4		%		70-130	26-APR-22
n-Hexane			90.7		%		70-130	26-APR-22
Methylene Chloride			104.2		%		70-130	26-APR-22
MTBE			93.8		%		70-130	26-APR-22
m+p-Xylenes			92.0		%		70-130	26-APR-22
Methyl Ethyl Ketone			104.8		%		60-140	26-APR-22
Methyl Isobutyl Ketone			105.0		%		60-140	26-APR-22
o-Xylene			94.3		%		70-130	26-APR-22
Styrene			85.2		%		70-130	26-APR-22
Tetrachloroethylene			90.2		%		60-130	26-APR-22
Toluene			90.7		%		70-130	26-APR-22
trans-1,2-Dichloroethylene			98.3		%		60-130	26-APR-22
trans-1,3-Dichloropropene			93.0		%		70-130	26-APR-22
Trichloroethylene			93.2		%		60-130	26-APR-22
Trichlorofluoromethane			90.3		%		50-140	26-APR-22
Vinyl chloride			77.4		%		60-140	26-APR-22
WG3720133-1	MB							
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	26-APR-22
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	26-APR-22
1,1,1-Trichloroethane			<0.050		ug/g		0.05	26-APR-22
1,1,2-Trichloroethane			<0.050		ug/g		0.05	26-APR-22
1,1-Dichloroethane			<0.050		ug/g		0.05	26-APR-22
1,1-Dichloroethylene			<0.050		ug/g		0.05	26-APR-22
1,2-Dibromoethane			<0.050		ug/g		0.05	26-APR-22
1,2-Dichlorobenzene			<0.050		ug/g		0.05	26-APR-22
1,2-Dichloroethane			<0.050		ug/g		0.05	26-APR-22
1,2-Dichloropropane			<0.050		ug/g		0.05	26-APR-22
1,3-Dichlorobenzene			<0.050		ug/g		0.05	26-APR-22
1,4-Dichlorobenzene			<0.050		ug/g		0.05	26-APR-22
Acetone			<0.50		ug/g		0.5	26-APR-22
Benzene			<0.0068		ug/g		0.0068	26-APR-22
Bromodichloromethane			<0.050		ug/g		0.05	26-APR-22
Bromoform			<0.050		ug/g		0.05	26-APR-22
Bromomethane			<0.050		ug/g		0.05	26-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 17 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5768681							
WG3720133-1 MB								
Carbon tetrachloride			<0.050		ug/g		0.05	26-APR-22
Chlorobenzene			<0.050		ug/g		0.05	26-APR-22
Chloroform			<0.050		ug/g		0.05	26-APR-22
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	26-APR-22
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	26-APR-22
Dibromochloromethane			<0.050		ug/g		0.05	26-APR-22
Dichlorodifluoromethane			<0.050		ug/g		0.05	26-APR-22
Ethylbenzene			<0.018		ug/g		0.018	26-APR-22
n-Hexane			<0.050		ug/g		0.05	26-APR-22
Methylene Chloride			<0.050		ug/g		0.05	26-APR-22
MTBE			<0.050		ug/g		0.05	26-APR-22
m+p-Xylenes			<0.030		ug/g		0.03	26-APR-22
Methyl Ethyl Ketone			<0.50		ug/g		0.5	26-APR-22
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	26-APR-22
o-Xylene			<0.020		ug/g		0.02	26-APR-22
Styrene			<0.050		ug/g		0.05	26-APR-22
Tetrachloroethylene			<0.050		ug/g		0.05	26-APR-22
Toluene			<0.080		ug/g		0.08	26-APR-22
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	26-APR-22
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	26-APR-22
Trichloroethylene			<0.010		ug/g		0.01	26-APR-22
Trichlorofluoromethane			<0.050		ug/g		0.05	26-APR-22
Vinyl chloride			<0.020		ug/g		0.02	26-APR-22
Surrogate: 1,4-Difluorobenzene			104.9		%		50-140	26-APR-22
Surrogate: 4-Bromofluorobenzene			99.6		%		50-140	26-APR-22
WG3720133-5 MS		WG3720133-3						
1,1,1,2-Tetrachloroethane			102.6		%		50-140	26-APR-22
1,1,2,2-Tetrachloroethane			111.9		%		50-140	26-APR-22
1,1,1-Trichloroethane			107.0		%		50-140	26-APR-22
1,1,2-Trichloroethane			108.1		%		50-140	26-APR-22
1,1-Dichloroethane			108.9		%		50-140	26-APR-22
1,1-Dichloroethylene			97.6		%		50-140	26-APR-22
1,2-Dibromoethane			105.0		%		50-140	26-APR-22
1,2-Dichlorobenzene			101.5		%		50-140	26-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 18 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5768681							
WG3720133-5 MS		WG3720133-3						
1,2-Dichloroethane			111.9		%		50-140	26-APR-22
1,2-Dichloropropane			97.4		%		50-140	26-APR-22
1,3-Dichlorobenzene			97.1		%		50-140	26-APR-22
1,4-Dichlorobenzene			97.6		%		50-140	26-APR-22
Acetone			118.7		%		50-140	26-APR-22
Benzene			92.0		%		50-140	26-APR-22
Bromodichloromethane			106.4		%		50-140	26-APR-22
Bromoform			107.2		%		50-140	26-APR-22
Bromomethane			98.6		%		50-140	26-APR-22
Carbon tetrachloride			109.0		%		50-140	26-APR-22
Chlorobenzene			97.8		%		50-140	26-APR-22
Chloroform			103.0		%		50-140	26-APR-22
cis-1,2-Dichloroethylene			100.9		%		50-140	26-APR-22
cis-1,3-Dichloropropene			88.5		%		50-140	26-APR-22
Dibromochloromethane			100.7		%		50-140	26-APR-22
Dichlorodifluoromethane			108.4		%		50-140	26-APR-22
Ethylbenzene			92.1		%		50-140	26-APR-22
n-Hexane			99.3		%		50-140	26-APR-22
Methylene Chloride			109.8		%		50-140	26-APR-22
MTBE			97.4		%		50-140	26-APR-22
m+p-Xylenes			93.2		%		50-140	26-APR-22
Methyl Ethyl Ketone			107.3		%		50-140	26-APR-22
Methyl Isobutyl Ketone			105.0		%		50-140	26-APR-22
o-Xylene			93.6		%		50-140	26-APR-22
Styrene			85.4		%		50-140	26-APR-22
Tetrachloroethylene			92.8		%		50-140	26-APR-22
Toluene			90.6		%		50-140	26-APR-22
trans-1,2-Dichloroethylene			100.4		%		50-140	26-APR-22
trans-1,3-Dichloropropene			92.0		%		50-140	26-APR-22
Trichloroethylene			95.4		%		50-140	26-APR-22
Trichlorofluoromethane			101.5		%		50-140	26-APR-22
Vinyl chloride			88.8		%		50-140	26-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 19 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5769451							
WG3720688-4	DUP	WG3720688-3						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	28-APR-22
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	28-APR-22
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	28-APR-22
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	28-APR-22
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	28-APR-22
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	28-APR-22
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	28-APR-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	28-APR-22
Styrene		<0.050	<0.050		ug/g			28-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 20 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5769451							
WG3720688-4 DUP		WG3720688-3						
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	28-APR-22
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	28-APR-22
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	28-APR-22
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-APR-22
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	28-APR-22
WG3720688-2 LCS								
1,1,1,2-Tetrachloroethane			104.9		%		60-130	27-APR-22
1,1,2,2-Tetrachloroethane			95.3		%		60-130	27-APR-22
1,1,1-Trichloroethane			111.3		%		60-130	27-APR-22
1,1,2-Trichloroethane			101.3		%		60-130	27-APR-22
1,1-Dichloroethane			106.7		%		60-130	27-APR-22
1,1-Dichloroethylene			103.0		%		60-130	27-APR-22
1,2-Dibromoethane			99.2		%		70-130	27-APR-22
1,2-Dichlorobenzene			108.8		%		70-130	27-APR-22
1,2-Dichloroethane			103.9		%		60-130	27-APR-22
1,2-Dichloropropane			99.7		%		70-130	27-APR-22
1,3-Dichlorobenzene			104.9		%		70-130	27-APR-22
1,4-Dichlorobenzene			108.4		%		70-130	27-APR-22
Acetone			97.6		%		60-140	27-APR-22
Benzene			105.1		%		70-130	27-APR-22
Bromodichloromethane			109.1		%		50-140	27-APR-22
Bromoform			112.4		%		70-130	27-APR-22
Bromomethane			100.5		%		50-140	27-APR-22
Carbon tetrachloride			116.5		%		70-130	27-APR-22
Chlorobenzene			108.2		%		70-130	27-APR-22
Chloroform			109.7		%		70-130	27-APR-22
cis-1,2-Dichloroethylene			118.0		%		70-130	27-APR-22
cis-1,3-Dichloropropene			97.5		%		70-130	27-APR-22
Dibromochloromethane			99.0		%		60-130	27-APR-22
Dichlorodifluoromethane			67.3		%		50-140	27-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 21 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5769451							
WG3720688-2	LCS							
Ethylbenzene			96.5		%		70-130	27-APR-22
n-Hexane			87.7		%		70-130	27-APR-22
Methylene Chloride			111.3		%		70-130	27-APR-22
MTBE			102.1		%		70-130	27-APR-22
m+p-Xylenes			101.9		%		70-130	27-APR-22
Methyl Ethyl Ketone			101.3		%		60-140	27-APR-22
Methyl Isobutyl Ketone			78.8		%		60-140	27-APR-22
o-Xylene			100.1		%		70-130	27-APR-22
Styrene			88.5		%		70-130	27-APR-22
Tetrachloroethylene			108.0		%		60-130	27-APR-22
Toluene			97.8		%		70-130	27-APR-22
trans-1,2-Dichloroethylene			101.1		%		60-130	27-APR-22
trans-1,3-Dichloropropene			89.1		%		70-130	27-APR-22
Trichloroethylene			111.5		%		60-130	27-APR-22
Trichlorofluoromethane			103.5		%		50-140	27-APR-22
Vinyl chloride			84.0		%		60-140	27-APR-22
WG3720688-1	MB							
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	27-APR-22
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	27-APR-22
1,1,1-Trichloroethane			<0.050		ug/g		0.05	27-APR-22
1,1,2-Trichloroethane			<0.050		ug/g		0.05	27-APR-22
1,1-Dichloroethane			<0.050		ug/g		0.05	27-APR-22
1,1-Dichloroethylene			<0.050		ug/g		0.05	27-APR-22
1,2-Dibromoethane			<0.050		ug/g		0.05	27-APR-22
1,2-Dichlorobenzene			<0.050		ug/g		0.05	27-APR-22
1,2-Dichloroethane			<0.050		ug/g		0.05	27-APR-22
1,2-Dichloropropane			<0.050		ug/g		0.05	27-APR-22
1,3-Dichlorobenzene			<0.050		ug/g		0.05	27-APR-22
1,4-Dichlorobenzene			<0.050		ug/g		0.05	27-APR-22
Acetone			<0.50		ug/g		0.5	27-APR-22
Benzene			<0.0068		ug/g		0.0068	27-APR-22
Bromodichloromethane			<0.050		ug/g		0.05	27-APR-22
Bromoform			<0.050		ug/g		0.05	27-APR-22
Bromomethane			<0.050		ug/g		0.05	27-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 22 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5769451							
WG3720688-1 MB								
Carbon tetrachloride			<0.050		ug/g		0.05	27-APR-22
Chlorobenzene			<0.050		ug/g		0.05	27-APR-22
Chloroform			<0.050		ug/g		0.05	27-APR-22
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	27-APR-22
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	27-APR-22
Dibromochloromethane			<0.050		ug/g		0.05	27-APR-22
Dichlorodifluoromethane			<0.050		ug/g		0.05	27-APR-22
Ethylbenzene			<0.018		ug/g		0.018	27-APR-22
n-Hexane			<0.050		ug/g		0.05	27-APR-22
Methylene Chloride			<0.050		ug/g		0.05	27-APR-22
MTBE			<0.050		ug/g		0.05	27-APR-22
m+p-Xylenes			<0.030		ug/g		0.03	27-APR-22
Methyl Ethyl Ketone			<0.50		ug/g		0.5	27-APR-22
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	27-APR-22
o-Xylene			<0.020		ug/g		0.02	27-APR-22
Styrene			<0.050		ug/g		0.05	27-APR-22
Tetrachloroethylene			<0.050		ug/g		0.05	27-APR-22
Toluene			<0.080		ug/g		0.08	27-APR-22
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	27-APR-22
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	27-APR-22
Trichloroethylene			<0.010		ug/g		0.01	27-APR-22
Trichlorofluoromethane			<0.050		ug/g		0.05	27-APR-22
Vinyl chloride			<0.020		ug/g		0.02	27-APR-22
Surrogate: 1,4-Difluorobenzene			107.3		%		50-140	27-APR-22
Surrogate: 4-Bromofluorobenzene			86.5		%		50-140	27-APR-22
WG3720688-5 MS		WG3720688-3						
1,1,1,2-Tetrachloroethane			110.1		%		50-140	28-APR-22
1,1,2,2-Tetrachloroethane			96.8		%		50-140	28-APR-22
1,1,1-Trichloroethane			118.0		%		50-140	28-APR-22
1,1,2-Trichloroethane			105.4		%		50-140	28-APR-22
1,1-Dichloroethane			113.5		%		50-140	28-APR-22
1,1-Dichloroethylene			111.9		%		50-140	28-APR-22
1,2-Dibromoethane			102.7		%		50-140	28-APR-22
1,2-Dichlorobenzene			111.7		%		50-140	28-APR-22



Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Page 23 of 24

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5769451							
WG3720688-5 MS		WG3720688-3						
1,2-Dichloroethane			107.9		%		50-140	28-APR-22
1,2-Dichloropropane			103.1		%		50-140	28-APR-22
1,3-Dichlorobenzene			106.1		%		50-140	28-APR-22
1,4-Dichlorobenzene			109.3		%		50-140	28-APR-22
Acetone			102.2		%		50-140	28-APR-22
Benzene			109.3		%		50-140	28-APR-22
Bromodichloromethane			113.4		%		50-140	28-APR-22
Bromoform			116.3		%		50-140	28-APR-22
Bromomethane			110.9		%		50-140	28-APR-22
Carbon tetrachloride			123.9		%		50-140	28-APR-22
Chlorobenzene			110.5		%		50-140	28-APR-22
Chloroform			114.8		%		50-140	28-APR-22
cis-1,2-Dichloroethylene			122.0		%		50-140	28-APR-22
cis-1,3-Dichloropropene			90.8		%		50-140	28-APR-22
Dibromochloromethane			104.1		%		50-140	28-APR-22
Dichlorodifluoromethane			120.4		%		50-140	28-APR-22
Ethylbenzene			97.7		%		50-140	28-APR-22
n-Hexane			99.4		%		50-140	28-APR-22
Methylene Chloride			116.5		%		50-140	28-APR-22
MTBE			106.7		%		50-140	28-APR-22
m+p-Xylenes			102.7		%		50-140	28-APR-22
Methyl Ethyl Ketone			101.2		%		50-140	28-APR-22
Methyl Isobutyl Ketone			79.0		%		50-140	28-APR-22
o-Xylene			101.3		%		50-140	28-APR-22
Styrene			89.6		%		50-140	28-APR-22
Tetrachloroethylene			108.8		%		50-140	28-APR-22
Toluene			100.5		%		50-140	28-APR-22
trans-1,2-Dichloroethylene			103.1		%		50-140	28-APR-22
trans-1,3-Dichloropropene			82.4		%		50-140	28-APR-22
Trichloroethylene			113.4		%		50-140	28-APR-22
Trichlorofluoromethane			119.5		%		50-140	28-APR-22
Vinyl chloride			101.3		%		50-140	28-APR-22

Quality Control Report

Workorder: L2700321

Report Date: 29-APR-22

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3
Contact: James Rybicki

Page 24 of 24

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.
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.

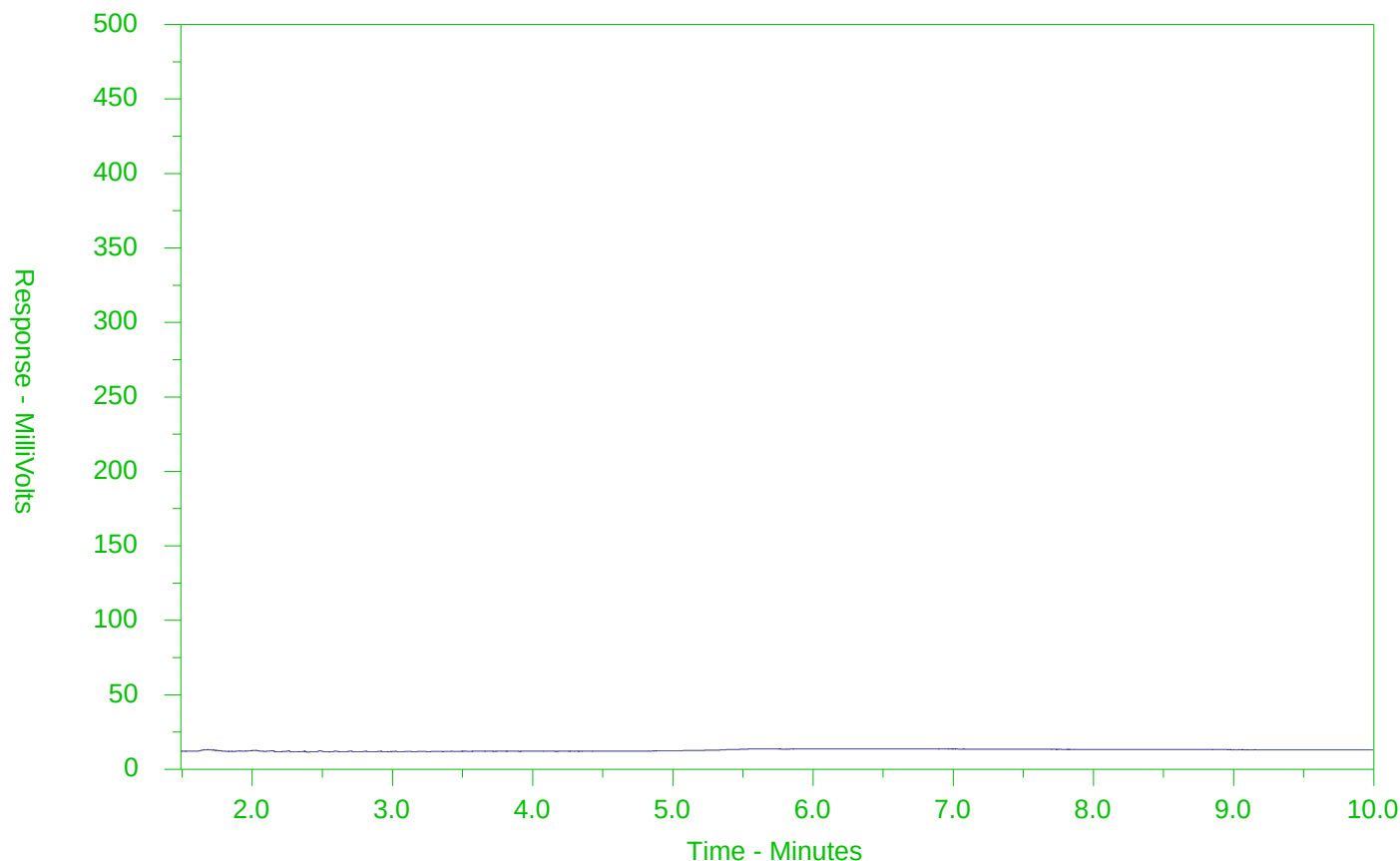
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide 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: L2700321-4
 Client Sample ID: BH110 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.

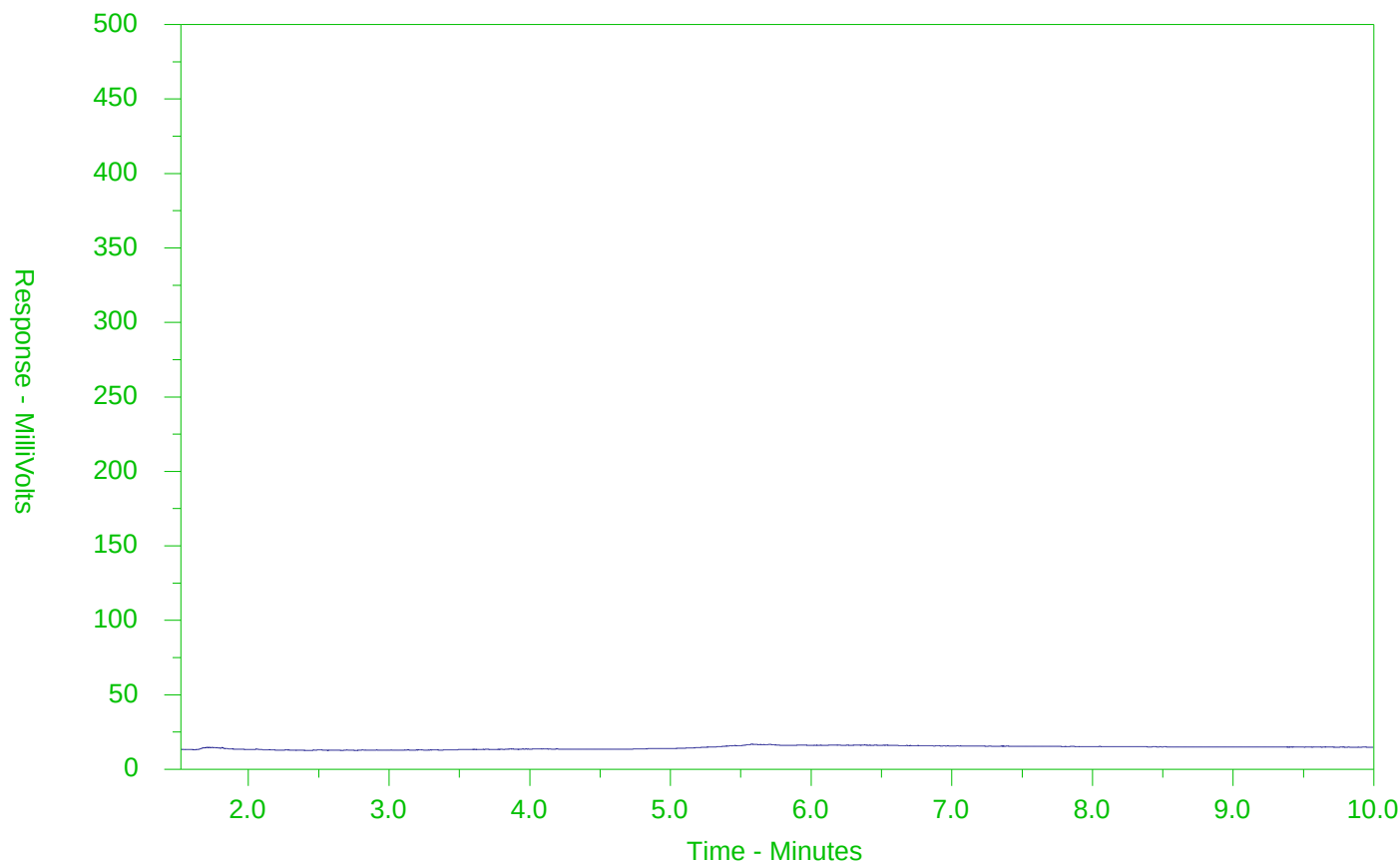
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2700321-8
 Client Sample ID: BH115 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.

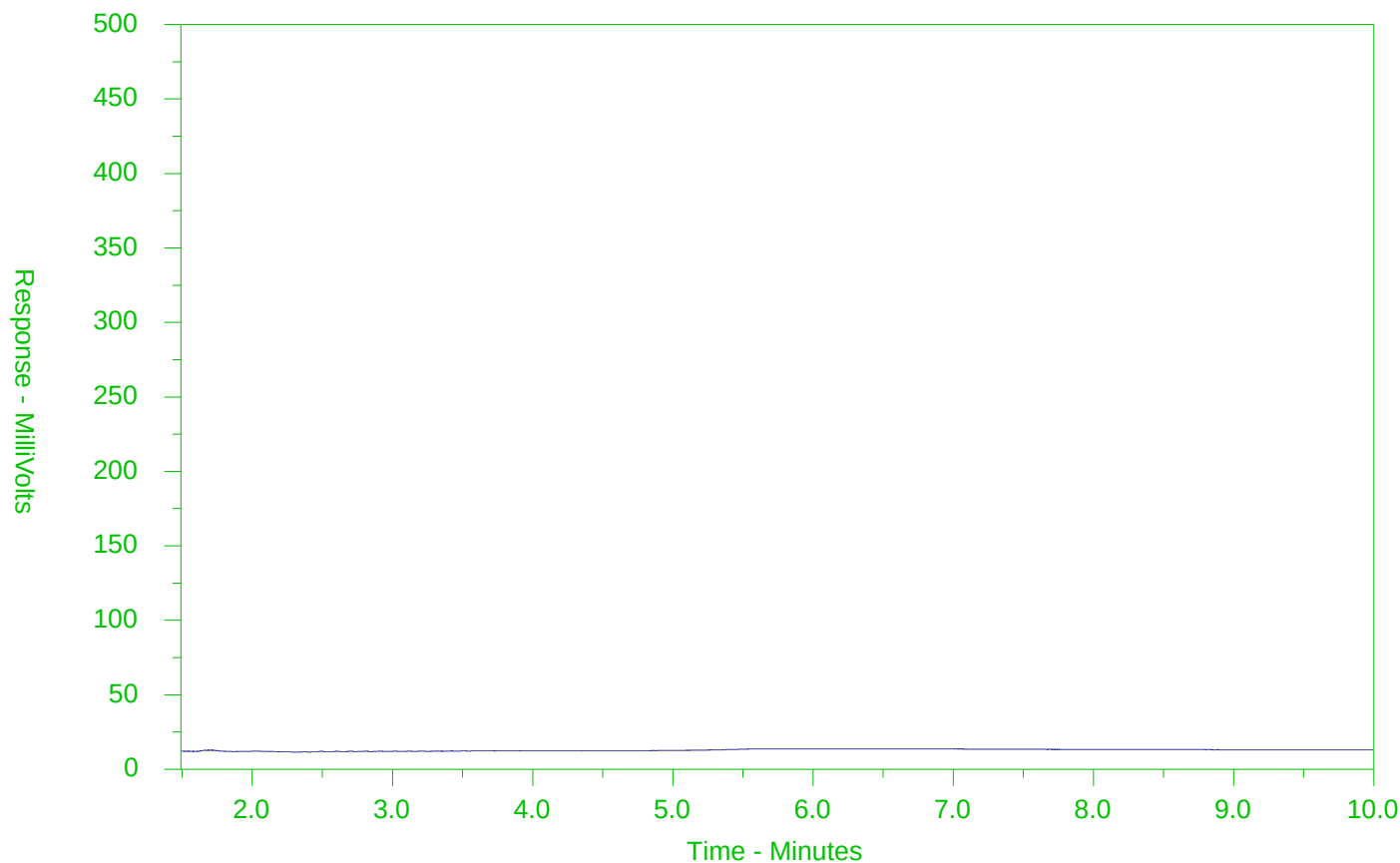
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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: L2700321-14
 Client Sample ID: BH114 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.

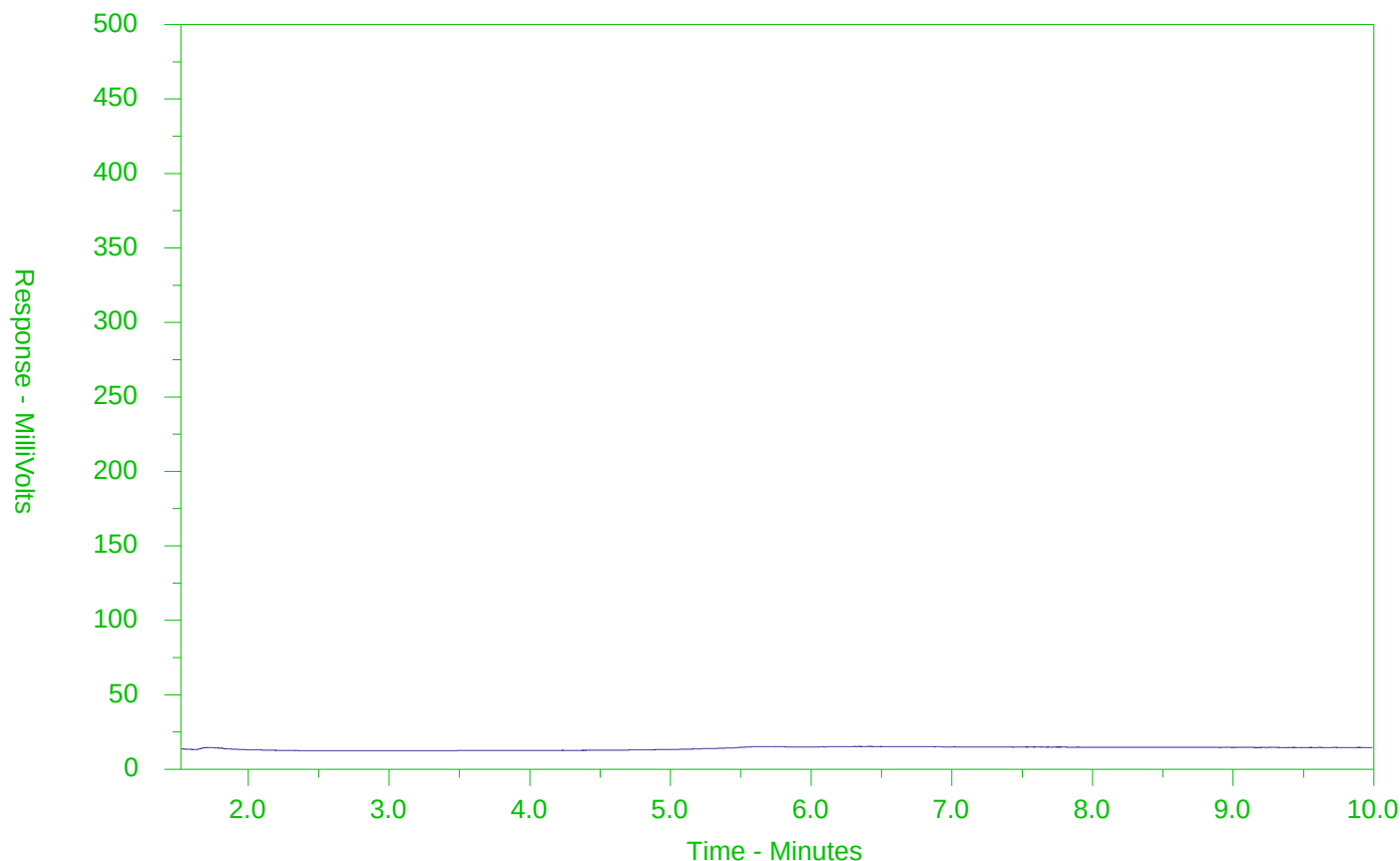
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2700321-18
 Client Sample ID: BH112 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.

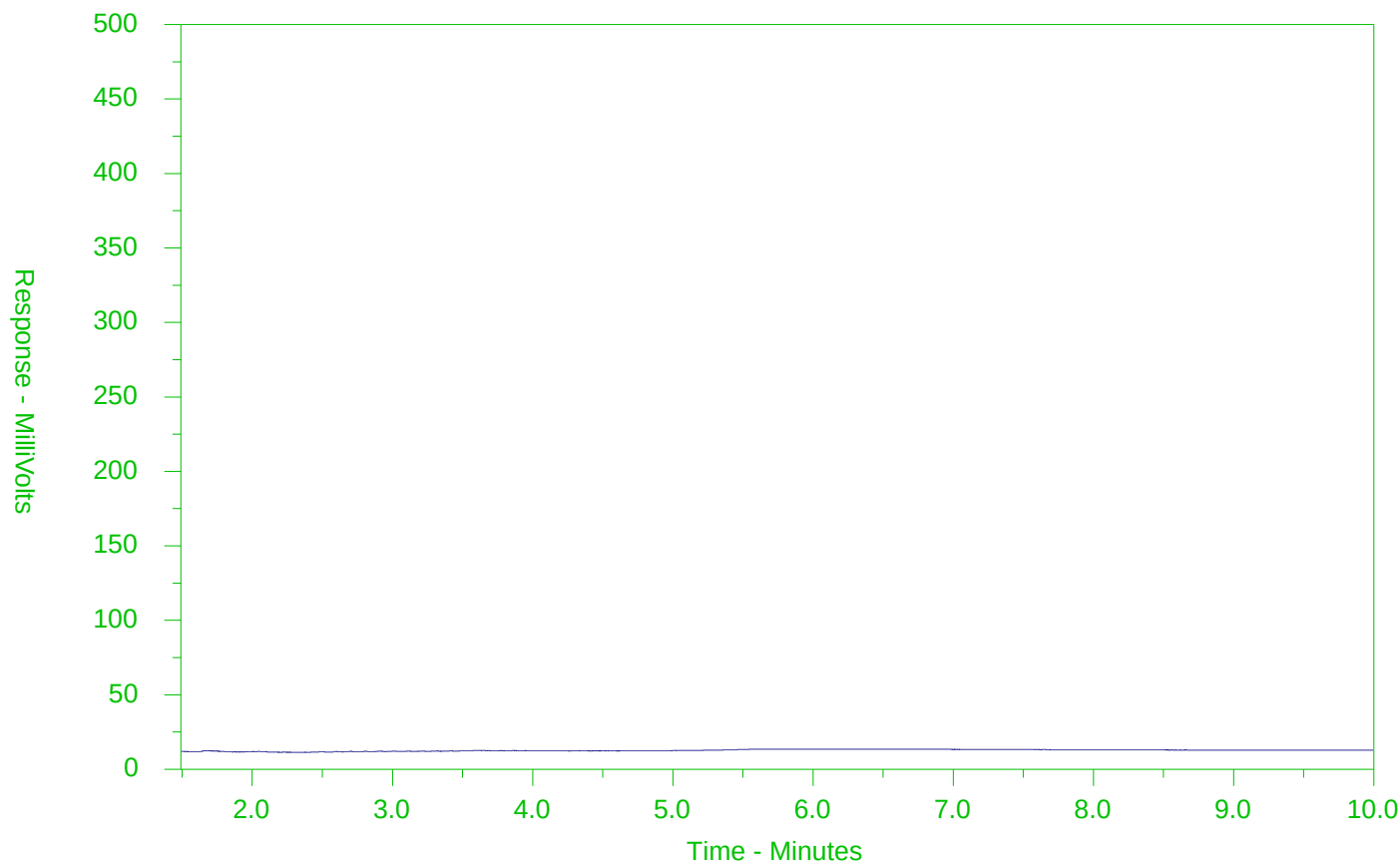
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2700321-22
 Client Sample ID: BH113 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.

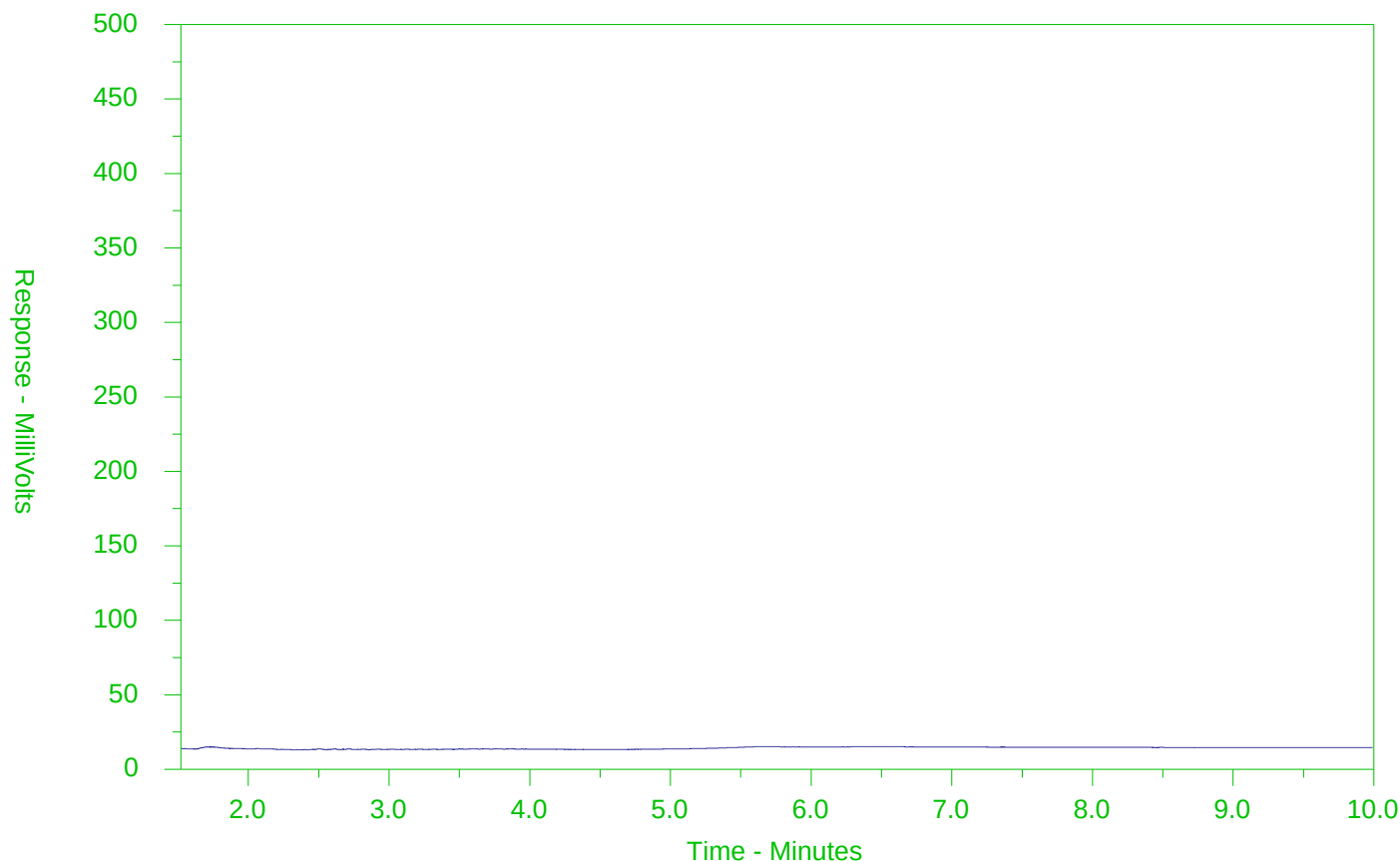
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2700321-26
 Client Sample ID: BH111 SS4



← 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.

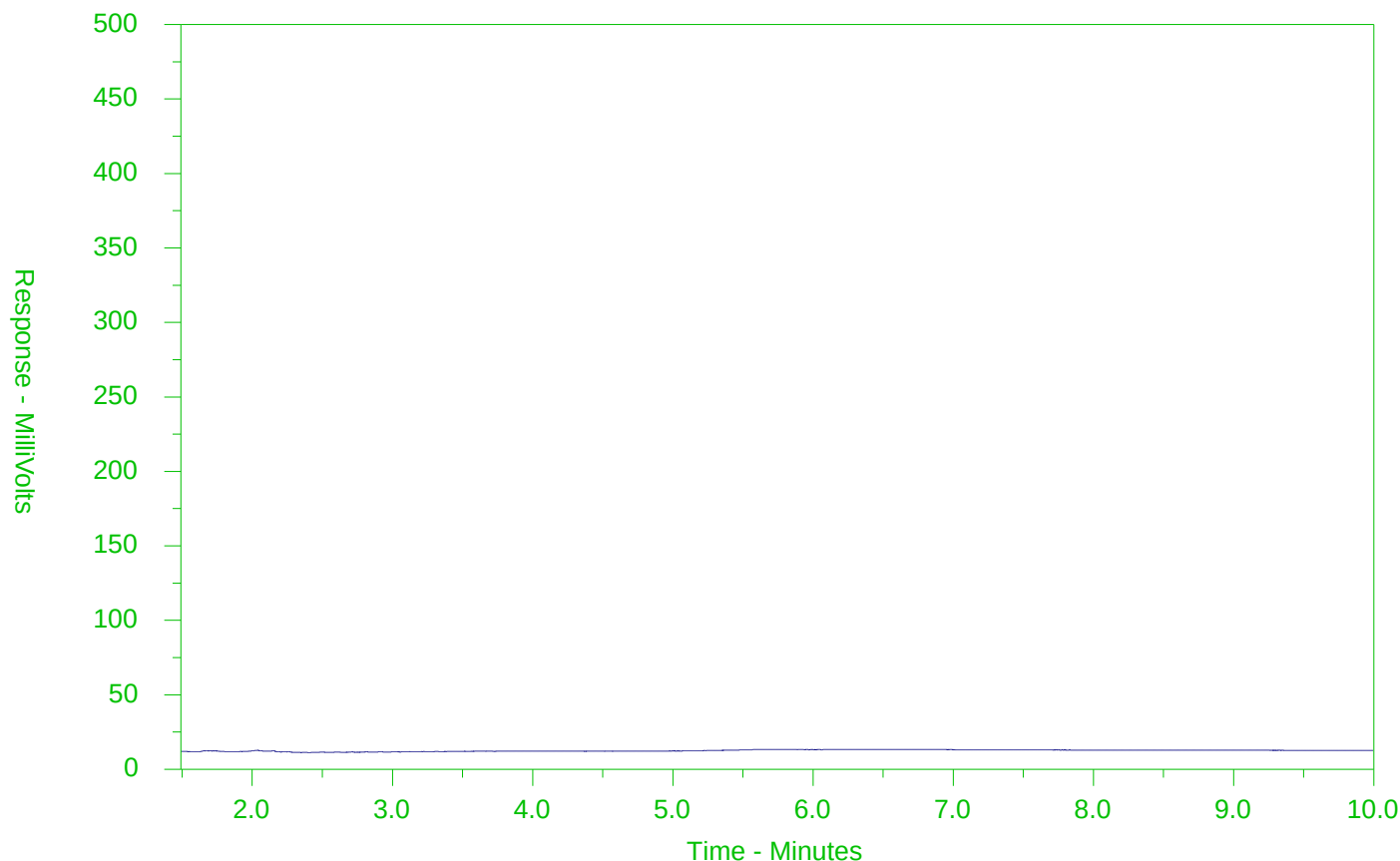
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2700321-31
 Client Sample ID: BH108 SS4



← 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.

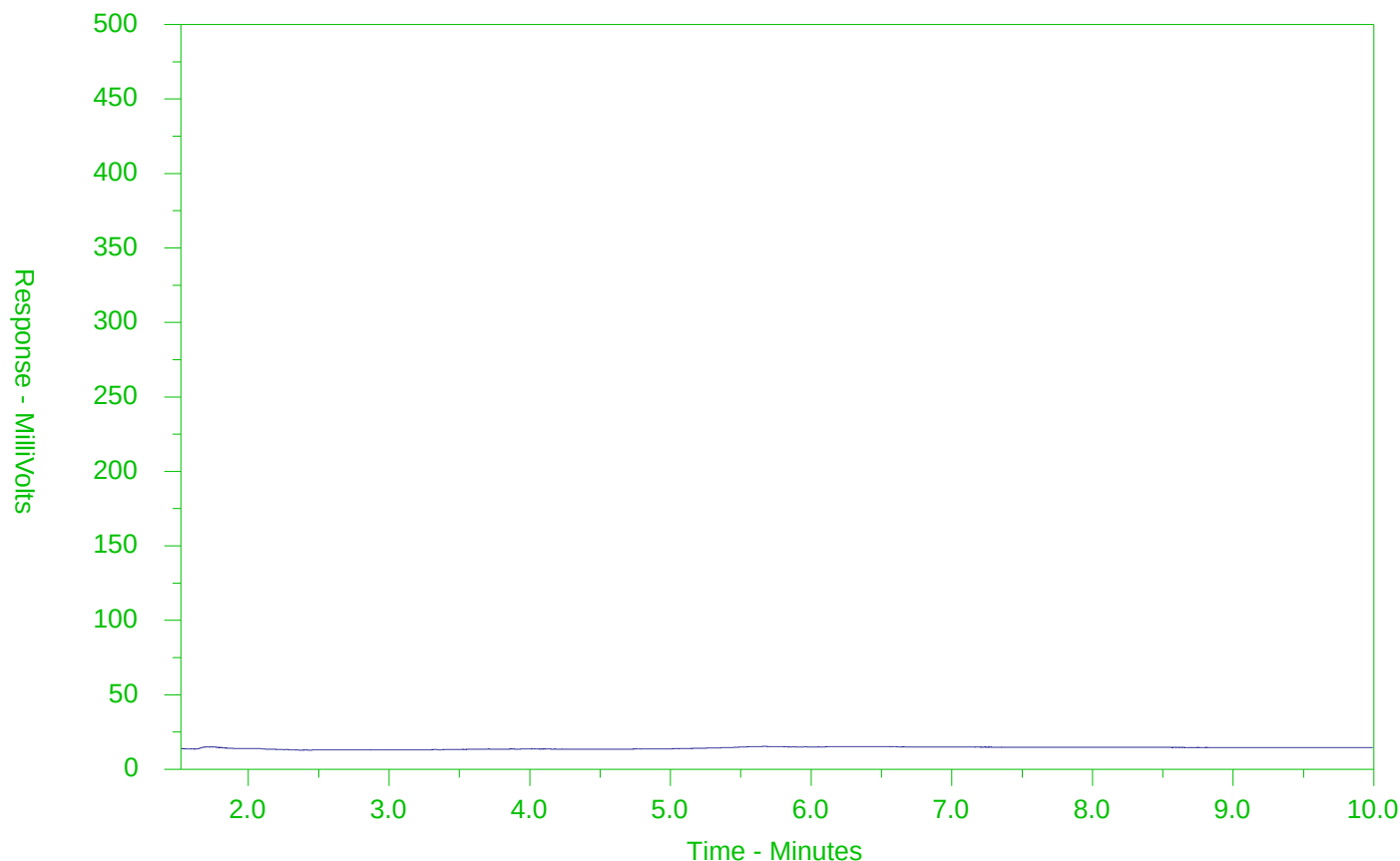
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2700321-34
 Client Sample ID: BH107 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.

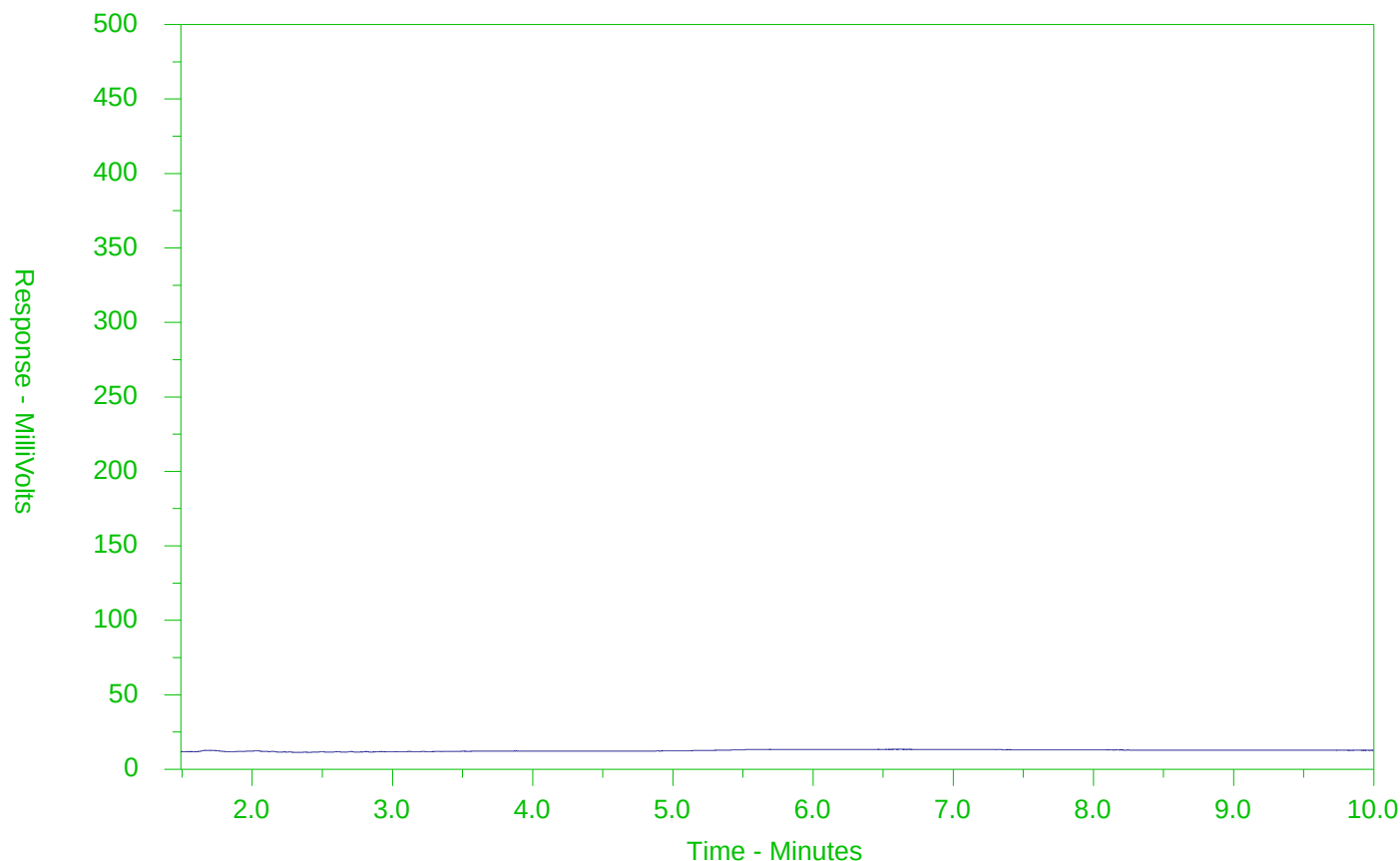
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2700321-39
 Client Sample ID: DUP-3



← 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.



L2700321-COFC

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 - 955444

Canada Toll Free: 1 800 668 9878

Page 4 of 4

Report To		Contact and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested		AFFIX ALS BARCODE LABEL HERE (ALS use only)				
Company:	Grounded Engineering			Select Report Format:	☒ PDF ☐ EXCEL ☒ EDD (DIGITAL)		☒ Routine [R] if received by 3pm M-F - no surcharges apply					
Contact:	James Rybicki			Merge QC/QCI Reports with COA	☒ YES ☐ NO ☐ N/A		☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum					
Phone:				Compare Results to Criteria on Report - provide details below if box checked	☒		☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum					
Company address below will appear on the final report				Select Distribution:	☒ EMAIL ☐ MAIL ☐ FAX		☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum					
Street:	1 Bangian Dr			Email 1 or Fax	Trybicki@groundedeng.ca		☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum					
City/Province:	Toronto ON			Email 2	bwatters@groundedeng.ca		☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests					
Postal Code:	M1H 1E3			Email 3			Date and Time Required for all E&P TATs:					
Invoice To	Same as Report To ☒ YES ☐ NO			Invoice Recipients		For all tests with rush TATs requested, please contact your AM to confirm availability.						
	Copy of Invoice with Report ☐ YES ☐ NO			Select Invoice Distribution:	☐ EMAIL ☐ MAIL ☐ FAX		Analysis Request					
Company:				Email 1 or Fax			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below					
Contact:				Email 2								
Project Information				Oil and Gas Required Fields (client use)								
ALS Account # / Quote #:				AFE/Cost Center:	PO#							
Job #:	22-052			Major/Minor Code:	Routing Code:							
PO / AFE:				Requisitioner:								
LSD:	163-164 Edward St E			Location:								
ALS Lab Work Order # (ALS use only): 12700321				ALS Contact:		Sampler: VT						
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)			Date (dd-mm-yy)	Time (hh:mm)	Sample Type			NUMBER OF CONTAINERS	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	BH107 SS1			20-Apr-22	16:30	SOL1	3					
	BH107 SS2						4					
	BH107 SS3						1					
	BH107 SS4						1					
	DVP-1						1					
	DVP-2						1					
	DVP-3						3					
	DVP-4						3					
	DVP-5						1					
Drinking Water (DW) Samples ¹ (client use)				Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)				SAMPLE RECEIPT DETAILS (ALS use only)				
Are samples taken from a Regulated DW System? ☐ YES ☐ NO				Compare to 0.Reg 153/04 both Table 1 & Table 2 RPI, coarse				Cooling Method: ☐ NONE ☐ ICE ☒ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED				
Are samples for human consumption/ use? ☐ YES ☐ NO								Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO				
								Cooler Custody Seals Intact: ☐ YES ☒ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A				
								INITIAL COOLER TEMPERATURES °C				
								FINAL COOLER TEMPERATURES °C				
SHIPMENT RELEASE (client use)				INITIAL SHIPMENT RECEPTION (ALS use only)				FINAL SHIPMENT RECEPTION (ALS use only)				
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:				
Vivi Tran	2022104/20						APR 21/22	10:30				

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

ALS-1023 (Rev 1)



L2700321-COFC

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20 - 955442

Page 3 of 4

Report To Contact and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested		AFFIX ALS BARCODE LABEL HERE (ALS use only)																																																							
Company: <u>Grounded Engineering</u>		Select Report Format: ☒ PDF ☐ EXCEL ☒ ESD (DIGITAL)		☒ Routine [R] if received by 3pm M-F - no surcharges apply																																																									
Contact: <u>James Rybicki</u>		Merge QC/QCI Reports with COA ☒ YES ☐ NO ☐ N/A		☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum																																																									
Phone:		☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum																																																									
Company address below will appear on the final report		Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum																																																									
Street: <u>1 Bangian Dr</u>		Email 1 or Fax: <u>Jrybicki@groundedeng.ca</u>		☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum																																																									
City/Province: <u>Toronto ON</u>		Email 2: <u>hwaiters@groundedeng.ca</u>		☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests																																																									
Postal Code: <u>M4H 1G3</u>		Email 3:		Date and Time Required for all E&P TATs:																																																									
Invoice To: Same as Report To ☒ YES ☐ NO		Invoice Recipients		For all tests with rush TATs requested, please contact your AM to confirm availability.																																																									
Copy of Invoice with Report ☐ YES ☐ NO		Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX		Analysis Request																																																									
Company:		Email 1 or Fax:		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																																																									
Contact:		Email 2:																																																											
Project Information		Oil and Gas Required Fields (client use)		<table border="1"> <tr> <th rowspan="5">NUMBER OF CONTAINERS</th> <th colspan="10"></th> <th rowspan="5">SAMPLES ON HOLD</th> <th rowspan="5">EXTENDED STORAGE REQUIRED</th> <th rowspan="5">SUSPECTED HAZARD (see notes)</th> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>				NUMBER OF CONTAINERS											SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)																																								
NUMBER OF CONTAINERS											SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)																																																
ALS Account # / Quote #		APE/Cost Center:		PO#																																																									
Job #: <u>22-052</u>		Major/Minor Code:		Routing Code:																																																									
PO / AFE:		Requisitioner:																																																											
LSD: <u>163 - 164 Edward St E</u>		Location:																																																											
ALS Lab Work Order # (ALS use only): <u>L2700321</u>		ALS Contact:		Sampler: <u>VT</u>																																																									
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type																																																									
	BH111 SS1	20-APR-22	11:15	SOIL	1																																																								
	BH111 SS2				1	X																																																							
	BH111 SS3				1																																																								
	BH111 SS4				3		X																																																						
	BH111 SS7				3																																																								
	BH108 SS1B		13:30		1		X																																																						
	BH108 SS2				1	X																																																							
	BH108 SS3				1		X																																																						
	BH108 SS4				3		X																																																						
	BH108 SS5				3		X																																																						
Drinking Water (DW) Samples¹ (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)																																																									
Are samples taken from a Regulated DW System? ☐ YES ☐ NO		<u>Compare to D. Reg ISS104 both Table 1 & Table 2 RPI, coarse</u>		Cooling Method: ☐ NONE ☐ ICE ☒ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED																																																									
Are samples for human consumption/ use? ☐ YES ☐ NO				Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO																																																									
				Cooler Custody Seals Intact: ☐ YES ☒ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A																																																									
				INITIAL COOLER TEMPERATURES °C																																																									
				FINAL COOLER TEMPERATURES °C																																																									
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)																																																									
Released by: <u>Vivi Tran</u>	Date: <u>2022/04/20</u>	Time:	Received by:	Date:	Time:	Received by: <u>RJ</u>	Date: <u>APR 21/22</u>																																																						
							Time: <u>10:30</u>																																																						

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

AUG 2020 FRONT



L2700321-COFC

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20 - 955441

Page 2 of 4

Report To		Reports / Recipients		Turnaround Time (TAT) Requested		AFFIX ALS BARCODE LABEL HERE (ALS use only)	
Company: <u>Grounded Engineering</u>		Select Report Format: ☒ PDF ☐ EXCEL ☒ EDD (DIGITAL)		☒ Routine [R] If received by 3pm M-F - no surcharges apply			
Contact: <u>James Rybicki</u>		Merge QC/QCI Reports with COA ☒ YES ☐ NO ☐ N/A		☐ 4 day [P4] If received by 3pm M-F - 20% rush surcharge minimum			
Phone:		☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day [P3] If received by 3pm M-F - 25% rush surcharge minimum			
Company address below will appear on the final report		Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		☐ 2 day [P2] If received by 3pm M-F - 50% rush surcharge minimum			
Street: <u>1 Bangian Dr</u>		Email 1 or Fax: <u>Jrybicki@groundedeng.ca</u>		☐ 1 day [E] If received by 3pm M-F - 100% rush surcharge minimum			
City/Province: <u>Toronto, ON</u>		Email 2: <u>bwatters@groundedeng.ca</u>		☐ Same day [E2] If received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests			
Postal Code: <u>M4H 1G3</u>		Email 3:		Date and Time Required for all E&P TATs:			
Invoice To: Same as Report To ☒ YES ☐ NO		Invoice Recipients		For all tests with rush TATs requested, please contact your AM to confirm availability.			
Copy of Invoice with Report ☐ YES ☐ NO		Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX		Analysis Request			
Company:		Email 1 or Fax:		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below			
Contact:		Email 2:		NUMBER OF CONTAINERS		SAMPLES ON HOLD	
Project Information		Oil and Gas Required Fields (client use)				EXTENDED STORAGE REQUIRED	
ALS Account # / Quote #		AFE/Cost Center:				SUSPECTED HAZARD (see notes)	
Job #: <u>22-052</u>		Major/Minor Code:					
PO / AFE:		Routing Code:					
LSD: <u>163-164 Edward St E</u>		Requisitioner:					
ALS Lab Work Order # (ALS use only): <u>L2700321</u>		Location:					
ALS Contact:		Sampler: <u>VT</u>					
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (h:k:mm)	Sample Type			
	BH114 SS1	19-Apr-21	11:00	Soil	1	X	
	BH114 SS2A				1		
	BH114 SS2B				1	X	
	BH114 SS3				3		
	BH114 SS4				3		
	BH112 SS1		18:00		1		
	BH112 SS4				2	X	
	BH112 SS6				3		
	BH112 SS7				3		
	BH113 SS1		18:15		1	X	
	BH113 SS2				2	X	
	BH113 SS3				3		
Drinking Water (DW) Samples¹ (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excl COC only)		SAMPLE RECEIPT DETAILS (ALS use only)			
Are samples taken from a Regulated DW System?		Compare to D. Reg 153/04 both Table 1 & Table 2 EPI, coarse		Cooling Method: ☐ NONE ☐ ICE ☒ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED			
☐ YES ☐ NO				Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO			
Are samples for human consumption/ use?				Cooler Custody Seals Intact: ☐ YES ☒ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A			
☐ YES ☐ NO				INITIAL COOLER TEMPERATURES °C			
				FINAL COOLER TEMPERATURES °C			
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)			
Released by: <u>Viv Tran</u>	Date: <u>2022/04/20</u>	Received by:	Date:	Received by: <u>RA</u>	Date: <u>APR 21/22</u>	Time: <u>10:30</u>	

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

ALS-010-010-010



www.als



L2700321-COFC

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20 - 955440

Page 1 of 4

Report To Contact and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested		AFFIX ALS BARCODE LABEL HERE (ALS use only)	
Company:	Grounded Engineering	Select Report Format:	☒ PDF ☐ EXCEL ☒ EDD (DIGITAL)	☒ Routine [R] if received by 3pm M-F - no surcharges apply ☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum ☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum ☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum ☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum ☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests			
Contact:	James Rybicki	Merge QC/QCI Reports with COA	☒ YES ☐ NO ☐ N/A				
Phone:		☒ 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:	1 Bangian Dr	Email 1 or Fax	Jrybicki@groundedeng.ca				
City/Province:	Toronto, ON	Email 2	b.walters@groundedeng.ca				
Postal Code:	M4H 1G3	Email 3					
Invoice To	Same as Report To ☒ YES ☐ NO	Invoice Recipients		Date and Time Required for all E&P TATs:			
	Copy of Invoice with Report ☐ YES ☐ NO	Select Invoice Distribution:	☐ EMAIL ☐ MAIL ☐ FAX		For all tests with rush TATs requested, please contact your AM to confirm availability.		
Company:		Email 1 or Fax			Analysis Request		
Contact:		Email 2			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below		
Project Information		Oil and Gas Required Fields (client use)		NUMBER OF CONTAINERS		SAMPLES ON HOLD	
ALS Account # / Quote #		AFE/Cost Center:	PO#				
Job #:	77-052	Major/Minor Code:	Routing Code:				
PO / AFE:		Requisitioner:					
LSD:	163-164 Edward St E	Location:					
ALS Lab Work Order # (ALS use only): L2700321 JTD		ALS Contact:		Sampler: VT			
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type			
	BH110 SS1	18-Apr-22	13:30	Soil			
	BH110 SS2						
	BH110 SS3						
	BH110 SS5						
	BH110 SS8						
	BH115 SS1B		16:00				
	BH115 SS2						
	BH115 SS3						
	BH115 SS4						
	BH115 SS5						
Drinking Water (DW) Samples¹ (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)			
Are samples taken from a Regulated DW System? ☐ YES ☐ NO		Compare to O.Reg 153/04 for both Table 1 & Table 2 RPI, coarse		Cooling Method: ☐ NONE ☐ ICE ☒ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED			
Are samples for human consumption/ use? ☐ YES ☐ NO				Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO			
				Cooler Custody Seals Intact: ☐ YES ☒ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A			
				INITIAL COOLER TEMPERATURES °C: FINAL COOLER TEMPERATURES °C: 6.8			
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)			
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Time:
Vivian Tsan	2022104/20					RJ	10:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

ALS 2700321



Grounded Engineering Inc
ATTN: James Rybicki
1 Banigan Drive
TORONTO ON M4H 1G3

Date Received: 28-APR-22
Report Date: 16-JUN-22 08:12 (MT)
Version: FINAL REV. 2

Client Phone: 647-264-7928

Certificate of Analysis

Lab Work Order #: L2701892
Project P.O. #: NOT SUBMITTED
Job Reference: 22-052
C of C Numbers: 20-955445
Legal Site Desc: 163-164 EDWARD ST E.

Comments: ADDITIONAL 15-JUN-22 14:16

Amanda Overholster
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 5730 Coopers Avenue, Unit #26, Mississauga, ON L4Z 2E9 Canada | Phone: +1 905 507 6910 | Fax: +1 905 507 6927
ALS CANADA LTD Part of the ALS Group An ALS Limited Company



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 2 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-1	BH106 SS1									
Sampled By:	VT on 21-APR-22 @ 14:30									
Matrix:	SOIL						#1	#2		
Physical Tests										
Conductivity		0.187		0.0040	mS/cm	02-MAY-22	0.57	0.7		
% Moisture		20.6		0.25	%	01-MAY-22				
pH		7.49		0.10	pH units	03-MAY-22				
Cyanides										
Cyanide, Weak Acid Diss		<0.050		0.050	ug/g	03-MAY-22	0.051	0.051		
Saturated Paste Extractables										
SAR		<0.10		0.10	SAR	02-MAY-22	2.4	5		
Calcium (Ca)		34.3		0.50	mg/L	02-MAY-22				
Magnesium (Mg)		4.18		0.50	mg/L	02-MAY-22				
Sodium (Na)		1.26		0.50	mg/L	02-MAY-22				
Metals										
Antimony (Sb)		<1.0		1.0	ug/g	02-MAY-22	1.3	7.5		
Arsenic (As)		7.3		1.0	ug/g	02-MAY-22	18	18		
Barium (Ba)		95.4		1.0	ug/g	02-MAY-22	220	390		
Beryllium (Be)		0.64		0.50	ug/g	02-MAY-22	2.5	4		
Boron (B)		14.8		5.0	ug/g	02-MAY-22	36	120		
Boron (B), Hot Water Ext.		0.35		0.10	ug/g	02-MAY-22	36	1.5		
Cadmium (Cd)		<0.50		0.50	ug/g	02-MAY-22	1.2	1.2		
Chromium (Cr)		20.3		1.0	ug/g	02-MAY-22	70	160		
Cobalt (Co)		8.2		1.0	ug/g	02-MAY-22	21	22		
Copper (Cu)		34.2		1.0	ug/g	02-MAY-22	92	140		
Lead (Pb)		11.8		1.0	ug/g	02-MAY-22	120	120		
Mercury (Hg)		0.0565		0.0050	ug/g	02-MAY-22	0.27	0.27		
Molybdenum (Mo)		<1.0		1.0	ug/g	02-MAY-22	2	6.9		
Nickel (Ni)		16.0		1.0	ug/g	02-MAY-22	82	100		
Selenium (Se)		<1.0		1.0	ug/g	02-MAY-22	1.5	2.4		
Silver (Ag)		<0.20		0.20	ug/g	02-MAY-22	0.5	20		
Thallium (Tl)		<0.50		0.50	ug/g	02-MAY-22	1	1		
Uranium (U)		<1.0		1.0	ug/g	02-MAY-22	2.5	23		
Vanadium (V)		30.2		1.0	ug/g	02-MAY-22	86	86		
Zinc (Zn)		128		5.0	ug/g	02-MAY-22	290	340		
Speciated Metals										
Chromium, Hexavalent		<0.20		0.20	ug/g	04-MAY-22	0.66	8		
Polycyclic Aromatic Hydrocarbons										
Acenaphthene		<0.050		0.050	ug/g	02-MAY-22	0.072	7.9		
Acenaphthylene		<0.050		0.050	ug/g	02-MAY-22	0.093	0.15		
Anthracene		<0.050		0.050	ug/g	02-MAY-22	0.16	0.67		
Benzo(a)anthracene		<0.050		0.050	ug/g	02-MAY-22	0.36	0.5		
Benzo(a)pyrene		<0.050		0.050	ug/g	02-MAY-22	0.3	0.3		
Benzo(b&j)fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.47	0.78		
Benzo(g,h,i)perylene		<0.050		0.050	ug/g	02-MAY-22	0.68	6.6		
Benzo(k)fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.48	0.78		
Chrysene		<0.050		0.050	ug/g	02-MAY-22	2.8	7		
Dibenz(a,h)anthracene		<0.050		0.050	ug/g	02-MAY-22	0.1	0.1		
Fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.56	0.69		

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 3 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-1	BH106 SS1									
Sampled By:	VT on 21-APR-22 @ 14:30									
Matrix:	SOIL						#1	#2		
Polycyclic Aromatic Hydrocarbons										
Fluorene		<0.050		0.050	ug/g	02-MAY-22	0.12	62		
Indeno(1,2,3-cd)pyrene		<0.050		0.050	ug/g	02-MAY-22	0.23	0.38		
1+2-Methylnaphthalenes		<0.042		0.042	ug/g	02-MAY-22	0.59	0.99		
1-Methylnaphthalene		<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
2-Methylnaphthalene		<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
Naphthalene		<0.013		0.013	ug/g	02-MAY-22	0.09	0.6		
Phenanthrene		<0.046		0.046	ug/g	02-MAY-22	0.69	6.2		
Pyrene		<0.050		0.050	ug/g	02-MAY-22	1	78		
Surrogate: 2-Fluorobiphenyl		93.7		50-140	%	02-MAY-22				
Surrogate: d14-Terphenyl		91.7		50-140	%	02-MAY-22				
L2701892-2	BH106 SS3									
Sampled By:	VT on 21-APR-22 @ 14:30									
Matrix:	SOIL						#1	#2		
Physical Tests										
% Moisture		8.84		0.25	%	01-MAY-22				
Organochlorine Pesticides										
Aldrin		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
Lindane		<0.00020		0.00020	ug/g	02-MAY-22	0.01	0.056		
a-chlordane		<0.00030		0.00030	ug/g	02-MAY-22				
Chlordane (Total)		<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.05		
g-chlordane		<0.00030		0.00030	ug/g	02-MAY-22				
o,p-DDD		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDD		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDD		<0.00042		0.00042	ug/g	02-MAY-22	0.05	3.3		
o,p-DDE		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDE		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDE		<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.26		
op-DDT		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDT		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDT		<0.00042		0.00042	ug/g	02-MAY-22	1.4	1.4		
Dieldrin		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
alpha-Endosulfan		<0.00030		0.00030	ug/g	02-MAY-22				
beta-Endosulfan		<0.00030		0.00030	ug/g	02-MAY-22				
Endosulfan (Total)		<0.00042		0.00042	ug/g	02-MAY-22	0.04	0.04		
Endrin		<0.00050		0.00050	ug/g	02-MAY-22	0.04	0.04		
Heptachlor		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.15		
Heptachlor Epoxide		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
Hexachlorobenzene		<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.52		
Hexachlorobutadiene		<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.012		
Hexachloroethane		<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.089		
Methoxychlor		<0.00050		0.00050	ug/g	02-MAY-22	0.05	0.13		
Surrogate: Decachlorobiphenyl		95.0		50-150	%	02-MAY-22				
Surrogate: Tetrachloro-m-xylene		79.0		50-150	%	02-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 4 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-3	BH106 SS4									
Sampled By:	VT on 21-APR-22 @ 14:30									
Matrix:	SOIL									
Physical Tests										
% Moisture		13.0		0.25	%	01-MAY-22				
Volatile Organic Compounds										
Acetone		<0.50		0.50	ug/g	04-MAY-22	0.5	16		
Benzene		<0.0068		0.0068	ug/g	04-MAY-22	0.02	0.21		
Bromodichloromethane		<0.050		0.050	ug/g	04-MAY-22	0.05	1.5		
Bromoform		<0.050		0.050	ug/g	04-MAY-22	0.05	0.27		
Bromomethane		<0.050		0.050	ug/g	04-MAY-22	0.05	0.05		
Carbon tetrachloride		<0.050		0.050	ug/g	04-MAY-22	0.05	0.05		
Chlorobenzene		<0.050		0.050	ug/g	04-MAY-22	0.05	2.4		
Dibromochloromethane		<0.050		0.050	ug/g	04-MAY-22	0.05	2.3		
Chloroform		<0.050		0.050	ug/g	04-MAY-22	0.05	0.05		
1,2-Dibromoethane		<0.050		0.050	ug/g	04-MAY-22	0.05	0.05		
1,2-Dichlorobenzene		<0.050		0.050	ug/g	04-MAY-22	0.05	1.2		
1,3-Dichlorobenzene		<0.050		0.050	ug/g	04-MAY-22	0.05	4.8		
1,4-Dichlorobenzene		<0.050		0.050	ug/g	04-MAY-22	0.05	0.083		
Dichlorodifluoromethane		<0.050		0.050	ug/g	04-MAY-22	0.05	16		
1,1-Dichloroethane		<0.050		0.050	ug/g	04-MAY-22	0.05	0.47		
1,2-Dichloroethane		<0.050		0.050	ug/g	04-MAY-22	0.05	0.05		
1,1-Dichloroethylene		<0.050		0.050	ug/g	04-MAY-22	0.05	0.05		
cis-1,2-Dichloroethylene		<0.050		0.050	ug/g	04-MAY-22	0.05	1.9		
trans-1,2-Dichloroethylene		<0.050		0.050	ug/g	04-MAY-22	0.05	0.084		
Methylene Chloride		<0.050		0.050	ug/g	04-MAY-22	0.05	0.1		
1,2-Dichloropropane		<0.050		0.050	ug/g	04-MAY-22	0.05	0.05		
cis-1,3-Dichloropropene		<0.030		0.030	ug/g	04-MAY-22				
trans-1,3-Dichloropropene		<0.030		0.030	ug/g	04-MAY-22				
1,3-Dichloropropene (cis & trans)		<0.042		0.042	ug/g	04-MAY-22	0.05	0.05		
Ethylbenzene		<0.018		0.018	ug/g	04-MAY-22	0.05	1.1		
n-Hexane		<0.050		0.050	ug/g	04-MAY-22	0.05	2.8		
Methyl Ethyl Ketone		<0.50		0.50	ug/g	04-MAY-22	0.5	16		
Methyl Isobutyl Ketone		<0.50		0.50	ug/g	04-MAY-22	0.5	1.7		
MTBE		<0.050		0.050	ug/g	04-MAY-22	0.05	0.75		
Styrene		<0.050		0.050	ug/g	04-MAY-22	0.05	0.7		
1,1,1,2-Tetrachloroethane		<0.050		0.050	ug/g	04-MAY-22	0.05	0.058		
1,1,2,2-Tetrachloroethane		<0.050		0.050	ug/g	04-MAY-22	0.05	0.05		
Tetrachloroethylene		<0.050		0.050	ug/g	04-MAY-22	0.05	0.28		
Toluene		<0.080		0.080	ug/g	04-MAY-22	0.2	2.3		
1,1,1-Trichloroethane		<0.050		0.050	ug/g	04-MAY-22	0.05	0.38		
1,1,2-Trichloroethane		<0.050		0.050	ug/g	04-MAY-22	0.05	0.05		
Trichloroethylene		<0.010		0.010	ug/g	04-MAY-22	0.05	0.061		
Trichlorofluoromethane		<0.050		0.050	ug/g	04-MAY-22	0.25	4		
Vinyl chloride		<0.020		0.020	ug/g	04-MAY-22	0.02	0.02		
o-Xylene		<0.020		0.020	ug/g	04-MAY-22				
m+p-Xylenes		<0.030		0.030	ug/g	04-MAY-22				
Xylenes (Total)		<0.050		0.050	ug/g	04-MAY-22	0.05	3.1		
Surrogate: 4-Bromofluorobenzene		98.5		50-140	%	04-MAY-22				
Surrogate: 1,4-Difluorobenzene		102.0		50-140	%	04-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 5 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-3	BH106 SS4									
Sampled By:	VT on 21-APR-22 @ 14:30									
Matrix:	SOIL						#1	#2		
Hydrocarbons										
F1 (C6-C10)		<5.0		5.0	ug/g	04-MAY-22	25	55		
F1-BTEX		<5.0		5.0	ug/g	04-MAY-22	25	55		
F2 (C10-C16)		<10		10	ug/g	03-MAY-22	10	98		
F3 (C16-C34)		<50		50	ug/g	03-MAY-22	240	300		
F4 (C34-C50)		<50		50	ug/g	03-MAY-22	120	2800		
Total Hydrocarbons (C6-C50)		<72		72	ug/g	04-MAY-22				
Chrom. to baseline at nC50		YES			No Unit	03-MAY-22				
Surrogate: 2-Bromobenzotrifluoride		81.9		60-140	%	03-MAY-22				
Surrogate: 3,4-Dichlorotoluene		95.9		60-140	%	04-MAY-22				
L2701892-4	BH105 SS1A									
Sampled By:	VT on 21-APR-22 @ 15:00									
Matrix:	SOIL						#1	#2		
Physical Tests										
% Moisture		22.1		0.25	%	01-MAY-22				
Organochlorine Pesticides										
Aldrin		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
Lindane		<0.00020		0.00020	ug/g	02-MAY-22	0.01	0.056		
a-chlordane		<0.00030		0.00030	ug/g	02-MAY-22				
Chlordane (Total)		<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.05		
g-chlordane		<0.00030		0.00030	ug/g	02-MAY-22				
o,p-DDD		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDD		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDD		<0.00042		0.00042	ug/g	02-MAY-22	0.05	3.3		
o,p-DDE		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDE		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDE		<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.26		
op-DDT		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDT		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDT		<0.00042		0.00042	ug/g	02-MAY-22	1.4	1.4		
Dieldrin		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
alpha-Endosulfan		<0.00030		0.00030	ug/g	02-MAY-22				
beta-Endosulfan		<0.00030		0.00030	ug/g	02-MAY-22				
Endosulfan (Total)		<0.00042		0.00042	ug/g	02-MAY-22	0.04	0.04		
Endrin		<0.00050		0.00050	ug/g	02-MAY-22	0.04	0.04		
Heptachlor		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.15		
Heptachlor Epoxide		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
Hexachlorobenzene		<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.52		
Hexachlorobutadiene		<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.012		
Hexachloroethane		<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.089		
Methoxychlor		<0.00050		0.00050	ug/g	02-MAY-22	0.05	0.13		
Surrogate: Decachlorobiphenyl		89.0		50-150	%	02-MAY-22				
Surrogate: Tetrachloro-m-xylene		79.4		50-150	%	02-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 6 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-5	BH105 SS2									
Sampled By:	VT on 21-APR-22 @ 15:00									
Matrix:	SOIL									
Physical Tests										
% Moisture		8.33		0.25	%	01-MAY-22				
Polycyclic Aromatic Hydrocarbons										
Acenaphthene		<0.050		0.050	ug/g	02-MAY-22	0.072	7.9		
Acenaphthylene		<0.050		0.050	ug/g	02-MAY-22	0.093	0.15		
Anthracene		<0.050		0.050	ug/g	02-MAY-22	0.16	0.67		
Benzo(a)anthracene		<0.050		0.050	ug/g	02-MAY-22	0.36	0.5		
Benzo(a)pyrene		<0.050		0.050	ug/g	02-MAY-22	0.3	0.3		
Benzo(b&j)fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.47	0.78		
Benzo(g,h,i)perylene		<0.050		0.050	ug/g	02-MAY-22	0.68	6.6		
Benzo(k)fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.48	0.78		
Chrysene		<0.050		0.050	ug/g	02-MAY-22	2.8	7		
Dibenz(a,h)anthracene		<0.050		0.050	ug/g	02-MAY-22	0.1	0.1		
Fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.56	0.69		
Fluorene		<0.050		0.050	ug/g	02-MAY-22	0.12	62		
Indeno(1,2,3-cd)pyrene		<0.050		0.050	ug/g	02-MAY-22	0.23	0.38		
1+2-Methylnaphthalenes		<0.042		0.042	ug/g	02-MAY-22	0.59	0.99		
1-Methylnaphthalene		<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
2-Methylnaphthalene		<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
Naphthalene		<0.013		0.013	ug/g	02-MAY-22	0.09	0.6		
Phenanthrene		<0.046		0.046	ug/g	02-MAY-22	0.69	6.2		
Pyrene		<0.050		0.050	ug/g	02-MAY-22	1	78		
Surrogate: 2-Fluorobiphenyl		91.1		50-140	%	02-MAY-22				
Surrogate: d14-Terphenyl		88.2		50-140	%	02-MAY-22				
L2701892-6	BH105 SS3									
Sampled By:	VT on 21-APR-22 @ 15:00									
Matrix:	SOIL									
Physical Tests										
Conductivity		0.107		0.0040	mS/cm	02-MAY-22	0.57	0.7		
% Moisture		10.8		0.25	%	01-MAY-22				
pH		7.84		0.10	pH units	03-MAY-22				
Cyanides										
Cyanide, Weak Acid Diss		<0.050		0.050	ug/g	03-MAY-22	0.051	0.051		
Saturated Paste Extractables										
SAR		0.81		0.10	SAR	02-MAY-22	2.4	5		
Calcium (Ca)		6.42		0.50	mg/L	02-MAY-22				
Magnesium (Mg)		0.75		0.50	mg/L	02-MAY-22				
Sodium (Na)		8.10		0.50	mg/L	02-MAY-22				
Metals										
Antimony (Sb)		<1.0		1.0	ug/g	02-MAY-22	1.3	7.5		
Arsenic (As)		3.5		1.0	ug/g	02-MAY-22	18	18		
Barium (Ba)		33.9		1.0	ug/g	02-MAY-22	220	390		
Beryllium (Be)		<0.50		0.50	ug/g	02-MAY-22	2.5	4		
Boron (B)		10.3		5.0	ug/g	02-MAY-22	36	120		
Boron (B), Hot Water Ext.		<0.10		0.10	ug/g	02-MAY-22	36	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:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 7 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-6	BH105 SS3									
Sampled By:	VT on 21-APR-22 @ 15:00									
Matrix:	SOIL						#1	#2		
Metals										
	Cadmium (Cd)	<0.50		0.50	ug/g	02-MAY-22	1.2	1.2		
	Chromium (Cr)	9.6		1.0	ug/g	02-MAY-22	70	160		
	Cobalt (Co)	4.0		1.0	ug/g	02-MAY-22	21	22		
	Copper (Cu)	25.5		1.0	ug/g	02-MAY-22	92	140		
	Lead (Pb)	4.1		1.0	ug/g	02-MAY-22	120	120		
	Mercury (Hg)	0.0059		0.0050	ug/g	02-MAY-22	0.27	0.27		
	Molybdenum (Mo)	<1.0		1.0	ug/g	02-MAY-22	2	6.9		
	Nickel (Ni)	8.7		1.0	ug/g	02-MAY-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	02-MAY-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	02-MAY-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	02-MAY-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	02-MAY-22	2.5	23		
	Vanadium (V)	17.3		1.0	ug/g	02-MAY-22	86	86		
	Zinc (Zn)	24.5		5.0	ug/g	02-MAY-22	290	340		
Speciated Metals										
	Chromium, Hexavalent	<0.20		0.20	ug/g	04-MAY-22	0.66	8		
L2701892-7	BH105 SS4									
Sampled By:	VT on 21-APR-22 @ 15:00									
Matrix:	SOIL						#1	#2		
Physical Tests										
	% Moisture	12.0		0.25	%	01-MAY-22				
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	04-MAY-22	0.02	0.21		
	Ethylbenzene	<0.018		0.018	ug/g	04-MAY-22	0.05	1.1		
	Toluene	<0.080		0.080	ug/g	04-MAY-22	0.2	2.3		
	o-Xylene	<0.020		0.020	ug/g	04-MAY-22				
	m+p-Xylenes	<0.030		0.030	ug/g	04-MAY-22				
	Xylenes (Total)	<0.050		0.050	ug/g	04-MAY-22	0.05	3.1		
	Surrogate: 4-Bromofluorobenzene	97.8		50-140	%	04-MAY-22				
	Surrogate: 1,4-Difluorobenzene	103.7		50-140	%	04-MAY-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	04-MAY-22	25	55		
	F1-BTEX	<5.0		5.0	ug/g	04-MAY-22	25	55		
	F2 (C10-C16)	<10		10	ug/g	03-MAY-22	10	98		
	F3 (C16-C34)	<50		50	ug/g	03-MAY-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	03-MAY-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	04-MAY-22				
	Chrom. to baseline at nC50	YES			No Unit	03-MAY-22				
	Surrogate: 2-Bromobenzotrifluoride	83.4		60-140	%	03-MAY-22				
	Surrogate: 3,4-Dichlorotoluene	76.4		60-140	%	04-MAY-22				
L2701892-8	BH105 SS6									
Sampled By:	VT on 21-APR-22 @ 15:00									
Matrix:	SOIL						#1	#2		
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:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 8 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-8	BH105 SS6									
Sampled By: VT on 21-APR-22 @ 15:00										
Matrix: SOIL										
Physical Tests										
% Moisture		17.6		0.25	%	01-MAY-22				
Volatile Organic Compounds										
Acetone		<0.50		0.50	ug/g	05-MAY-22	0.5	16		
Benzene		<0.0068		0.0068	ug/g	05-MAY-22	0.02	0.21		
Bromodichloromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	1.5		
Bromoform		<0.050		0.050	ug/g	05-MAY-22	0.05	0.27		
Bromomethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Carbon tetrachloride		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Chlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	2.4		
Dibromochloromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	2.3		
Chloroform		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,2-Dibromoethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,2-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	1.2		
1,3-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	4.8		
1,4-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.083		
Dichlorodifluoromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	16		
1,1-Dichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.47		
1,2-Dichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,1-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
cis-1,2-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	1.9		
trans-1,2-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.084		
Methylene Chloride		<0.050		0.050	ug/g	05-MAY-22	0.05	0.1		
1,2-Dichloropropane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
cis-1,3-Dichloropropene		<0.030		0.030	ug/g	05-MAY-22				
trans-1,3-Dichloropropene		<0.030		0.030	ug/g	05-MAY-22				
1,3-Dichloropropene (cis & trans)		<0.042		0.042	ug/g	05-MAY-22	0.05	0.05		
Ethylbenzene		<0.018		0.018	ug/g	05-MAY-22	0.05	1.1		
n-Hexane		<0.050		0.050	ug/g	05-MAY-22	0.05	2.8		
Methyl Ethyl Ketone		<0.50		0.50	ug/g	05-MAY-22	0.5	16		
Methyl Isobutyl Ketone		<0.50		0.50	ug/g	05-MAY-22	0.5	1.7		
MTBE		<0.050		0.050	ug/g	05-MAY-22	0.05	0.75		
Styrene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.7		
1,1,1,2-Tetrachloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.058		
1,1,2,2-Tetrachloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Tetrachloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.28		
Toluene		<0.080		0.080	ug/g	05-MAY-22	0.2	2.3		
1,1,1-Trichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.38		
1,1,2-Trichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Trichloroethylene		<0.010		0.010	ug/g	05-MAY-22	0.05	0.061		
Trichlorofluoromethane		<0.050		0.050	ug/g	05-MAY-22	0.25	4		
Vinyl chloride		<0.020		0.020	ug/g	05-MAY-22	0.02	0.02		
o-Xylene		<0.020		0.020	ug/g	05-MAY-22				
m+p-Xylenes		<0.030		0.030	ug/g	05-MAY-22				
Xylenes (Total)		<0.050		0.050	ug/g	05-MAY-22	0.05	3.1		
Surrogate: 4-Bromofluorobenzene		81.4		50-140	%	05-MAY-22				
Surrogate: 1,4-Difluorobenzene		101.2		50-140	%	05-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 9 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-9	BH109 SS1									
Sampled By:	VT on 25-APR-22 @ 13:15									
Matrix:	SOIL						#1	#2		
Physical Tests										
Conductivity		0.117		0.0040	mS/cm	02-MAY-22	0.57	0.7		
% Moisture		15.1		0.25	%	01-MAY-22				
pH		7.59		0.10	pH units	03-MAY-22				
Cyanides										
Cyanide, Weak Acid Diss		<0.050		0.050	ug/g	03-MAY-22	0.051	0.051		
Saturated Paste Extractables										
SAR		<0.10		0.10	SAR	02-MAY-22	2.4	5		
Calcium (Ca)		19.2		0.50	mg/L	02-MAY-22				
Magnesium (Mg)		1.63		0.50	mg/L	02-MAY-22				
Sodium (Na)		0.85		0.50	mg/L	02-MAY-22				
Metals										
Antimony (Sb)		<1.0		1.0	ug/g	02-MAY-22	1.3	7.5		
Arsenic (As)		3.5		1.0	ug/g	02-MAY-22	18	18		
Barium (Ba)		35.3		1.0	ug/g	02-MAY-22	220	390		
Beryllium (Be)		<0.50		0.50	ug/g	02-MAY-22	2.5	4		
Boron (B)		<5.0		5.0	ug/g	02-MAY-22	36	120		
Boron (B), Hot Water Ext.		0.17		0.10	ug/g	02-MAY-22	36	1.5		
Cadmium (Cd)		<0.50		0.50	ug/g	02-MAY-22	1.2	1.2		
Chromium (Cr)		12.9		1.0	ug/g	02-MAY-22	70	160		
Cobalt (Co)		6.0		1.0	ug/g	02-MAY-22	21	22		
Copper (Cu)		14.2		1.0	ug/g	02-MAY-22	92	140		
Lead (Pb)		5.9		1.0	ug/g	02-MAY-22	120	120		
Mercury (Hg)		0.0242		0.0050	ug/g	02-MAY-22	0.27	0.27		
Molybdenum (Mo)		<1.0		1.0	ug/g	02-MAY-22	2	6.9		
Nickel (Ni)		10.0		1.0	ug/g	02-MAY-22	82	100		
Selenium (Se)		<1.0		1.0	ug/g	02-MAY-22	1.5	2.4		
Silver (Ag)		<0.20		0.20	ug/g	02-MAY-22	0.5	20		
Thallium (Tl)		<0.50		0.50	ug/g	02-MAY-22	1	1		
Uranium (U)		<1.0		1.0	ug/g	02-MAY-22	2.5	23		
Vanadium (V)		24.9		1.0	ug/g	02-MAY-22	86	86		
Zinc (Zn)		29.7		5.0	ug/g	02-MAY-22	290	340		
Speciated Metals										
Chromium, Hexavalent		0.36		0.20	ug/g	04-MAY-22	0.66	8		
Organochlorine Pesticides										
Aldrin		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
Lindane		<0.00020		0.00020	ug/g	02-MAY-22	0.01	0.056		
a-chlordane		<0.00030		0.00030	ug/g	02-MAY-22				
Chlordane (Total)		<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.05		
g-chlordane		<0.00030		0.00030	ug/g	02-MAY-22				
o,p-DDD		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDD		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDD		<0.00042		0.00042	ug/g	02-MAY-22	0.05	3.3		
o,p-DDE		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDE		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDE		<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.26		
op-DDT		<0.00030		0.00030	ug/g	02-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 10 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-9	BH109 SS1									
Sampled By: VT on 25-APR-22 @ 13:15										
Matrix: SOIL										
Organochlorine Pesticides										
	pp-DDT	<0.00030		0.00030	ug/g	02-MAY-22				
	Total DDT	<0.00042		0.00042	ug/g	02-MAY-22	1.4	1.4		
	Dieldrin	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
	alpha-Endosulfan	<0.00030		0.00030	ug/g	02-MAY-22				
	beta-Endosulfan	<0.00030		0.00030	ug/g	02-MAY-22				
	Endosulfan (Total)	<0.00042		0.00042	ug/g	02-MAY-22	0.04	0.04		
	Endrin	<0.00050		0.00050	ug/g	02-MAY-22	0.04	0.04		
	Heptachlor	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.15		
	Heptachlor Epoxide	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
	Hexachlorobenzene	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.52		
	Hexachlorobutadiene	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.012		
	Hexachloroethane	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.089		
	Methoxychlor	<0.00050		0.00050	ug/g	02-MAY-22	0.05	0.13		
	Surrogate: Decachlorobiphenyl	57.1		50-150	%	02-MAY-22				
	Surrogate: Tetrachloro-m-xylene	154.9	SURR-ND	50-150	%	02-MAY-22				
L2701892-10	BH109 SS2									
Sampled By: VT on 25-APR-22 @ 13:15										
Matrix: SOIL										
Physical Tests										
	% Moisture	8.64		0.25	%	01-MAY-22				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	02-MAY-22	0.072	7.9		
	Acenaphthylene	<0.050		0.050	ug/g	02-MAY-22	0.093	0.15		
	Anthracene	<0.050		0.050	ug/g	02-MAY-22	0.16	0.67		
	Benzo(a)anthracene	<0.050		0.050	ug/g	02-MAY-22	0.36	0.5		
	Benzo(a)pyrene	<0.050		0.050	ug/g	02-MAY-22	0.3	0.3		
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	02-MAY-22	0.47	0.78		
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	02-MAY-22	0.68	6.6		
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	02-MAY-22	0.48	0.78		
	Chrysene	<0.050		0.050	ug/g	02-MAY-22	2.8	7		
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	02-MAY-22	0.1	0.1		
	Fluoranthene	<0.050		0.050	ug/g	02-MAY-22	0.56	0.69		
	Fluorene	<0.050		0.050	ug/g	02-MAY-22	0.12	62		
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	02-MAY-22	0.23	0.38		
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	02-MAY-22	0.59	0.99		
	1-Methylnaphthalene	<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
	2-Methylnaphthalene	<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
	Naphthalene	<0.013		0.013	ug/g	02-MAY-22	0.09	0.6		
	Phenanthrene	<0.046		0.046	ug/g	02-MAY-22	0.69	6.2		
	Pyrene	<0.050		0.050	ug/g	02-MAY-22	1	78		
	Surrogate: 2-Fluorobiphenyl	91.7		50-140	%	02-MAY-22				
	Surrogate: d14-Terphenyl	88.5		50-140	%	02-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 11 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-11	BH109 SS5									
Sampled By: VT on 25-APR-22 @ 13:15										
Matrix: SOIL										
Physical Tests										
% Moisture		14.2		0.25	%	28-APR-22				
Volatile Organic Compounds										
Benzene		<0.0068		0.0068	ug/g	04-MAY-22	0.02	0.21		
Ethylbenzene		<0.018		0.018	ug/g	04-MAY-22	0.05	1.1		
Toluene		<0.080		0.080	ug/g	04-MAY-22	0.2	2.3		
o-Xylene		<0.020		0.020	ug/g	04-MAY-22				
m+p-Xylenes		<0.030		0.030	ug/g	04-MAY-22				
Xylenes (Total)		<0.50		0.50	ug/g	15-JUN-22	**0.05	3.1		
Surrogate: 4-Bromofluorobenzene		93.8		50-140	%	04-MAY-22				
Surrogate: 1,4-Difluorobenzene		98.3		50-140	%	04-MAY-22				
Hydrocarbons										
F1 (C6-C10)		<5.0		5.0	ug/g	04-MAY-22	25	55		
F1-BTEX		<5.0		5.0	ug/g	04-MAY-22	25	55		
F2 (C10-C16)		<10		10	ug/g	03-MAY-22	10	98		
F3 (C16-C34)		<50		50	ug/g	03-MAY-22	240	300		
F4 (C34-C50)		<50		50	ug/g	03-MAY-22	120	2800		
Total Hydrocarbons (C6-C50)		<72		72	ug/g	04-MAY-22				
Chrom. to baseline at nC50		YES			No Unit	03-MAY-22				
Surrogate: 2-Bromobenzotrifluoride		87.5		60-140	%	03-MAY-22				
Surrogate: 3,4-Dichlorotoluene		66.4		60-140	%	04-MAY-22				
L2701892-12	BH109 SS7									
Sampled By: VT on 25-APR-22 @ 13:15										
Matrix: SOIL										
Physical Tests										
% Moisture		16.8		0.25	%	28-APR-22				
Volatile Organic Compounds										
Benzene		<0.0068		0.0068	ug/g	04-MAY-22	0.02	0.21		
Ethylbenzene		<0.018		0.018	ug/g	04-MAY-22	0.05	1.1		
Toluene		<0.080		0.080	ug/g	04-MAY-22	0.2	2.3		
o-Xylene		<0.020		0.020	ug/g	04-MAY-22				
m+p-Xylenes		<0.030		0.030	ug/g	04-MAY-22				
Xylenes (Total)		<0.50		0.50	ug/g	15-JUN-22	**0.05	3.1		
Surrogate: 4-Bromofluorobenzene		105.6		50-140	%	04-MAY-22				
Surrogate: 1,4-Difluorobenzene		101.1		50-140	%	04-MAY-22				
Hydrocarbons										
F1 (C6-C10)		<5.0		5.0	ug/g	04-MAY-22	25	55		
F1-BTEX		<5.0		5.0	ug/g	04-MAY-22	25	55		
F2 (C10-C16)		<10		10	ug/g	03-MAY-22	10	98		
F3 (C16-C34)		<50		50	ug/g	03-MAY-22	240	300		
F4 (C34-C50)		<50		50	ug/g	03-MAY-22	120	2800		
Total Hydrocarbons (C6-C50)		<72		72	ug/g	04-MAY-22				
Chrom. to baseline at nC50		YES			No Unit	03-MAY-22				
Surrogate: 2-Bromobenzotrifluoride		87.2		60-140	%	03-MAY-22				
Surrogate: 3,4-Dichlorotoluene		129.5		60-140	%	04-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 12 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-13	BH109 SS8									
Sampled By: VT on 25-APR-22 @ 13:15										
Matrix: SOIL										
Physical Tests										
% Moisture		14.4		0.25	%	01-MAY-22				
Volatile Organic Compounds										
	Acetone	<0.50		0.50	ug/g	05-MAY-22	0.5	16		
	Benzene	<0.0068		0.0068	ug/g	05-MAY-22	0.02	0.21		
	Bromodichloromethane	<0.050		0.050	ug/g	05-MAY-22	0.05	1.5		
	Bromoform	<0.050		0.050	ug/g	05-MAY-22	0.05	0.27		
	Bromomethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	Carbon tetrachloride	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	Chlorobenzene	<0.050		0.050	ug/g	05-MAY-22	0.05	2.4		
	Dibromochloromethane	<0.050		0.050	ug/g	05-MAY-22	0.05	2.3		
	Chloroform	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	1,2-Dibromoethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-22	0.05	1.2		
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-22	0.05	4.8		
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.083		
	Dichlorodifluoromethane	<0.050		0.050	ug/g	05-MAY-22	0.05	16		
	1,1-Dichloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.47		
	1,2-Dichloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	1,1-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-22	0.05	1.9		
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.084		
	Methylene Chloride	<0.050		0.050	ug/g	05-MAY-22	0.05	0.1		
	1,2-Dichloropropane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	05-MAY-22				
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	05-MAY-22				
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	05-MAY-22	0.05	0.05		
	Ethylbenzene	<0.018		0.018	ug/g	05-MAY-22	0.05	1.1		
	n-Hexane	<0.050		0.050	ug/g	05-MAY-22	0.05	2.8		
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	05-MAY-22	0.5	16		
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	05-MAY-22	0.5	1.7		
	MTBE	<0.050		0.050	ug/g	05-MAY-22	0.05	0.75		
	Styrene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.7		
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.058		
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	Tetrachloroethylene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.28		
	Toluene	<0.080		0.080	ug/g	05-MAY-22	0.2	2.3		
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.38		
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	Trichloroethylene	<0.010		0.010	ug/g	05-MAY-22	0.05	0.061		
	Trichlorofluoromethane	<0.050		0.050	ug/g	05-MAY-22	0.25	4		
	Vinyl chloride	<0.020		0.020	ug/g	05-MAY-22	0.02	0.02		
	o-Xylene	<0.020		0.020	ug/g	05-MAY-22				
	m+p-Xylenes	<0.030		0.030	ug/g	05-MAY-22				
	Xylenes (Total)	<0.050		0.050	ug/g	05-MAY-22	0.05	3.1		
	Surrogate: 4-Bromofluorobenzene	72.1		50-140	%	05-MAY-22				
	Surrogate: 1,4-Difluorobenzene	91.0		50-140	%	05-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 13 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-14	BH103 SS1B									
Sampled By:	VT on 26-APR-22 @ 11:00									
Matrix:	SOIL						#1	#2		
Physical Tests										
% Moisture		11.6		0.25	%	28-APR-22				
Organochlorine Pesticides										
Aldrin		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
Lindane		<0.00020		0.00020	ug/g	02-MAY-22	0.01	0.056		
a-chlordane		<0.00030		0.00030	ug/g	02-MAY-22				
Chlordane (Total)		<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.05		
g-chlordane		<0.00030		0.00030	ug/g	02-MAY-22				
o,p-DDD		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDD		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDD		<0.00042		0.00042	ug/g	02-MAY-22	0.05	3.3		
o,p-DDE		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDE		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDE		<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.26		
op-DDT		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDT		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDT		<0.00042		0.00042	ug/g	02-MAY-22	1.4	1.4		
Dieldrin		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
alpha-Endosulfan		<0.00030		0.00030	ug/g	02-MAY-22				
beta-Endosulfan		<0.00030		0.00030	ug/g	02-MAY-22				
Endosulfan (Total)		<0.00042		0.00042	ug/g	02-MAY-22	0.04	0.04		
Endrin		<0.00050		0.00050	ug/g	02-MAY-22	0.04	0.04		
Heptachlor		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.15		
Heptachlor Epoxide		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
Hexachlorobenzene		<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.52		
Hexachlorobutadiene		<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.012		
Hexachloroethane		<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.089		
Methoxychlor		<0.00050		0.00050	ug/g	02-MAY-22	0.05	0.13		
Surrogate: Decachlorobiphenyl		147.8		50-150	%	02-MAY-22				
Surrogate: Tetrachloro-m-xylene		82.1		50-150	%	02-MAY-22				
L2701892-15	BH103 SS2									
Sampled By:	VT on 26-APR-22 @ 11:00									
Matrix:	SOIL						#1	#2		
Physical Tests										
Conductivity		0.268		0.0040	mS/cm	02-MAY-22	0.57	0.7		
% Moisture		9.21		0.25	%	28-APR-22				
pH		8.04		0.10	pH units	03-MAY-22				
Cyanides										
Cyanide, Weak Acid Diss		<0.050		0.050	ug/g	03-MAY-22	0.051	0.051		
Saturated Paste Extractables										
SAR		>14.	SAR:L	0.10	SAR	02-MAY-22	*2.4	*5		
Calcium (Ca)		<0.50		0.50	mg/L	02-MAY-22				
Magnesium (Mg)		<0.50		0.50	mg/L	02-MAY-22				
Sodium (Na)		57.8		0.50	mg/L	02-MAY-22				
Metals										
Antimony (Sb)		<1.0		1.0	ug/g	02-MAY-22	1.3	7.5		

** 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:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 14 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-15	BH103 SS2									
Sampled By:	VT on 26-APR-22 @ 11:00									
Matrix:	SOIL						#1	#2		
Metals										
Arsenic (As)		3.1		1.0	ug/g	02-MAY-22	18	18		
Barium (Ba)		28.0		1.0	ug/g	02-MAY-22	220	390		
Beryllium (Be)		<0.50		0.50	ug/g	02-MAY-22	2.5	4		
Boron (B)		7.9		5.0	ug/g	02-MAY-22	36	120		
Boron (B), Hot Water Ext.		0.14		0.10	ug/g	02-MAY-22	36	1.5		
Cadmium (Cd)		<0.50		0.50	ug/g	02-MAY-22	1.2	1.2		
Chromium (Cr)		9.1		1.0	ug/g	02-MAY-22	70	160		
Cobalt (Co)		3.3		1.0	ug/g	02-MAY-22	21	22		
Copper (Cu)		21.2		1.0	ug/g	02-MAY-22	92	140		
Lead (Pb)		5.3		1.0	ug/g	02-MAY-22	120	120		
Mercury (Hg)		0.0055		0.0050	ug/g	02-MAY-22	0.27	0.27		
Molybdenum (Mo)		<1.0		1.0	ug/g	02-MAY-22	2	6.9		
Nickel (Ni)		7.0		1.0	ug/g	02-MAY-22	82	100		
Selenium (Se)		<1.0		1.0	ug/g	02-MAY-22	1.5	2.4		
Silver (Ag)		<0.20		0.20	ug/g	02-MAY-22	0.5	20		
Thallium (Tl)		<0.50		0.50	ug/g	02-MAY-22	1	1		
Uranium (U)		<1.0		1.0	ug/g	02-MAY-22	2.5	23		
Vanadium (V)		15.1		1.0	ug/g	02-MAY-22	86	86		
Zinc (Zn)		18.6		5.0	ug/g	02-MAY-22	290	340		
Speciated Metals										
Chromium, Hexavalent		<0.20		0.20	ug/g	04-MAY-22	0.66	8		
Polycyclic Aromatic Hydrocarbons										
Acenaphthene		<0.050		0.050	ug/g	02-MAY-22	0.072	7.9		
Acenaphthylene		<0.050		0.050	ug/g	02-MAY-22	0.093	0.15		
Anthracene		<0.050		0.050	ug/g	02-MAY-22	0.16	0.67		
Benzo(a)anthracene		<0.050		0.050	ug/g	02-MAY-22	0.36	0.5		
Benzo(a)pyrene		<0.050		0.050	ug/g	02-MAY-22	0.3	0.3		
Benzo(b&j)fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.47	0.78		
Benzo(g,h,i)perylene		<0.050		0.050	ug/g	02-MAY-22	0.68	6.6		
Benzo(k)fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.48	0.78		
Chrysene		<0.050		0.050	ug/g	02-MAY-22	2.8	7		
Dibenz(a,h)anthracene		<0.050		0.050	ug/g	02-MAY-22	0.1	0.1		
Fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.56	0.69		
Fluorene		<0.050		0.050	ug/g	02-MAY-22	0.12	62		
Indeno(1,2,3-cd)pyrene		<0.050		0.050	ug/g	02-MAY-22	0.23	0.38		
1+2-Methylnaphthalenes		<0.042		0.042	ug/g	02-MAY-22	0.59	0.99		
1-Methylnaphthalene		<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
2-Methylnaphthalene		<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
Naphthalene		<0.013		0.013	ug/g	02-MAY-22	0.09	0.6		
Phenanthrene		<0.046		0.046	ug/g	02-MAY-22	0.69	6.2		
Pyrene		<0.050		0.050	ug/g	02-MAY-22	1	78		
Surrogate: 2-Fluorobiphenyl		91.9		50-140	%	02-MAY-22				
Surrogate: d14-Terphenyl		88.1		50-140	%	02-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 15 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-16	BH103 SS3									
Sampled By: VT on 26-APR-22 @ 11:00										
Matrix: SOIL										
Physical Tests										
% Moisture		13.8		0.25	%	28-APR-22				
Volatile Organic Compounds										
Benzene		<0.0068		0.0068	ug/g	04-MAY-22	0.02	0.21		
Ethylbenzene		<0.018		0.018	ug/g	04-MAY-22	0.05	1.1		
Toluene		<0.080		0.080	ug/g	04-MAY-22	0.2	2.3		
o-Xylene		<0.020		0.020	ug/g	04-MAY-22				
m+p-Xylenes		<0.030		0.030	ug/g	04-MAY-22				
Xylenes (Total)		<0.50		0.50	ug/g	15-JUN-22	**0.05	3.1		
Surrogate: 4-Bromofluorobenzene		95.8		50-140	%	04-MAY-22				
Surrogate: 1,4-Difluorobenzene		100.0		50-140	%	04-MAY-22				
Hydrocarbons										
F1 (C6-C10)		<5.0		5.0	ug/g	04-MAY-22	25	55		
F1-BTEX		<5.0		5.0	ug/g	04-MAY-22	25	55		
F2 (C10-C16)		<10		10	ug/g	03-MAY-22	10	98		
F3 (C16-C34)		<50		50	ug/g	03-MAY-22	240	300		
F4 (C34-C50)		<50		50	ug/g	03-MAY-22	120	2800		
Total Hydrocarbons (C6-C50)		<72		72	ug/g	04-MAY-22				
Chrom. to baseline at nC50		YES			No Unit	03-MAY-22				
Surrogate: 2-Bromobenzotrifluoride		86.6		60-140	%	03-MAY-22				
Surrogate: 3,4-Dichlorotoluene		81.6		60-140	%	04-MAY-22				
L2701892-17	BH103 SS7									
Sampled By: VT on 26-APR-22 @ 11:00										
Matrix: SOIL										
Physical Tests										
% Moisture		15.6		0.25	%	01-MAY-22				
Volatile Organic Compounds										
Acetone		<0.50		0.50	ug/g	05-MAY-22	0.5	16		
Benzene		<0.0068		0.0068	ug/g	05-MAY-22	0.02	0.21		
Bromodichloromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	1.5		
Bromoform		<0.050		0.050	ug/g	05-MAY-22	0.05	0.27		
Bromomethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Carbon tetrachloride		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Chlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	2.4		
Dibromochloromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	2.3		
Chloroform		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,2-Dibromoethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,2-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	1.2		
1,3-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	4.8		
1,4-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.083		
Dichlorodifluoromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	16		
1,1-Dichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.47		
1,2-Dichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,1-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
cis-1,2-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	1.9		
trans-1,2-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.084		

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 16 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-17 BH103 SS7										
Sampled By: VT on 26-APR-22 @ 11:00										
Matrix: SOIL										
Volatile Organic Compounds							#1	#2		
	Methylene Chloride	<0.050		0.050	ug/g	05-MAY-22	0.05	0.1		
	1,2-Dichloropropane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	05-MAY-22				
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	05-MAY-22				
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	05-MAY-22	0.05	0.05		
	Ethylbenzene	<0.018		0.018	ug/g	05-MAY-22	0.05	1.1		
	n-Hexane	<0.050		0.050	ug/g	05-MAY-22	0.05	2.8		
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	05-MAY-22	0.5	16		
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	05-MAY-22	0.5	1.7		
	MTBE	<0.050		0.050	ug/g	05-MAY-22	0.05	0.75		
	Styrene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.7		
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.058		
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	Tetrachloroethylene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.28		
	Toluene	<0.080		0.080	ug/g	05-MAY-22	0.2	2.3		
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.38		
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	Trichloroethylene	<0.010		0.010	ug/g	05-MAY-22	0.05	0.061		
	Trichlorofluoromethane	<0.050		0.050	ug/g	05-MAY-22	0.25	4		
	Vinyl chloride	<0.020		0.020	ug/g	05-MAY-22	0.02	0.02		
	o-Xylene	<0.020		0.020	ug/g	05-MAY-22				
	m+p-Xylenes	<0.030		0.030	ug/g	05-MAY-22				
	Xylenes (Total)	<0.050		0.050	ug/g	05-MAY-22	0.05	3.1		
	Surrogate: 4-Bromofluorobenzene	72.4		50-140	%	05-MAY-22				
	Surrogate: 1,4-Difluorobenzene	92.9		50-140	%	05-MAY-22				
L2701892-18 BH104 SS1										
Sampled By: VT on 26-APR-22 @ 13:45										
Matrix: SOIL										
Physical Tests							#1	#2		
	% Moisture	24.6		0.25	%	28-APR-22				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	02-MAY-22	0.072	7.9		
	Acenaphthylene	<0.050		0.050	ug/g	02-MAY-22	0.093	0.15		
	Anthracene	<0.050		0.050	ug/g	02-MAY-22	0.16	0.67		
	Benzo(a)anthracene	<0.050		0.050	ug/g	02-MAY-22	0.36	0.5		
	Benzo(a)pyrene	<0.050		0.050	ug/g	02-MAY-22	0.3	0.3		
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	02-MAY-22	0.47	0.78		
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	02-MAY-22	0.68	6.6		
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	02-MAY-22	0.48	0.78		
	Chrysene	<0.050		0.050	ug/g	02-MAY-22	2.8	7		
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	02-MAY-22	0.1	0.1		
	Fluoranthene	<0.050		0.050	ug/g	02-MAY-22	0.56	0.69		
	Fluorene	<0.050		0.050	ug/g	02-MAY-22	0.12	62		
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	02-MAY-22	0.23	0.38		
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	02-MAY-22	0.59	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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 17 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-18	BH104 SS1									
Sampled By: VT on 26-APR-22 @ 13:45										
Matrix: SOIL							#1	#2		
Polycyclic Aromatic Hydrocarbons										
	1-Methylnaphthalene	<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
	2-Methylnaphthalene	<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
	Naphthalene	<0.013		0.013	ug/g	02-MAY-22	0.09	0.6		
	Phenanthrene	<0.046		0.046	ug/g	02-MAY-22	0.69	6.2		
	Pyrene	<0.050		0.050	ug/g	02-MAY-22	1	78		
	Surrogate: 2-Fluorobiphenyl	91.8		50-140	%	02-MAY-22				
	Surrogate: d14-Terphenyl	89.1		50-140	%	02-MAY-22				
Organochlorine Pesticides										
	Aldrin	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
	Lindane	<0.00020		0.00020	ug/g	02-MAY-22	0.01	0.056		
	a-chlordane	<0.00030		0.00030	ug/g	02-MAY-22				
	Chlordane (Total)	<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.05		
	g-chlordane	<0.00030		0.00030	ug/g	02-MAY-22				
	o,p-DDD	<0.00030		0.00030	ug/g	02-MAY-22				
	pp-DDD	<0.00030		0.00030	ug/g	02-MAY-22				
	Total DDD	<0.00042		0.00042	ug/g	02-MAY-22	0.05	3.3		
	o,p-DDE	<0.00030		0.00030	ug/g	02-MAY-22				
	pp-DDE	<0.00030		0.00030	ug/g	02-MAY-22				
	Total DDE	<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.26		
	op-DDT	<0.00030		0.00030	ug/g	02-MAY-22				
	pp-DDT	<0.00030		0.00030	ug/g	02-MAY-22				
	Total DDT	<0.00042		0.00042	ug/g	02-MAY-22	1.4	1.4		
	Dieldrin	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
	alpha-Endosulfan	<0.00030		0.00030	ug/g	02-MAY-22				
	beta-Endosulfan	<0.00030		0.00030	ug/g	02-MAY-22				
	Endosulfan (Total)	<0.00042		0.00042	ug/g	02-MAY-22	0.04	0.04		
	Endrin	<0.00050		0.00050	ug/g	02-MAY-22	0.04	0.04		
	Heptachlor	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.15		
	Heptachlor Epoxide	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
	Hexachlorobenzene	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.52		
	Hexachlorobutadiene	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.012		
	Hexachloroethane	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.089		
	Methoxychlor	<0.00050		0.00050	ug/g	02-MAY-22	0.05	0.13		
	Surrogate: Decachlorobiphenyl	91.1		50-150	%	02-MAY-22				
	Surrogate: Tetrachloro-m-xylene	85.3		50-150	%	02-MAY-22				
L2701892-19	BH104 SS2									
Sampled By: VT on 26-APR-22 @ 13:45										
Matrix: SOIL							#1	#2		
Physical Tests										
	Conductivity	0.112		0.0040	mS/cm	03-MAY-22	0.57	0.7		
	% Moisture	13.7		0.25	%	28-APR-22				
	pH	7.85		0.10	pH units	04-MAY-22				
Cyanides										
	Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	03-MAY-22	0.051	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:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 18 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-19	BH104 SS2									
Sampled By: VT on 26-APR-22 @ 13:45										
Matrix: SOIL							#1	#2		
Saturated Paste Extractables										
	SAR	0.62		0.10	SAR	03-MAY-22	2.4	5		
	Calcium (Ca)	7.40		0.50	mg/L	03-MAY-22				
	Magnesium (Mg)	0.98		0.50	mg/L	03-MAY-22				
	Sodium (Na)	6.77		0.50	mg/L	03-MAY-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	03-MAY-22	1.3	7.5		
	Arsenic (As)	4.5		1.0	ug/g	03-MAY-22	18	18		
	Barium (Ba)	37.8		1.0	ug/g	03-MAY-22	220	390		
	Beryllium (Be)	<0.50		0.50	ug/g	03-MAY-22	2.5	4		
	Boron (B)	8.8		5.0	ug/g	03-MAY-22	36	120		
	Boron (B), Hot Water Ext.	0.10		0.10	ug/g	03-MAY-22	36	1.5		
	Cadmium (Cd)	<0.50		0.50	ug/g	03-MAY-22	1.2	1.2		
	Chromium (Cr)	8.6		1.0	ug/g	03-MAY-22	70	160		
	Cobalt (Co)	4.3		1.0	ug/g	03-MAY-22	21	22		
	Copper (Cu)	24.8		1.0	ug/g	03-MAY-22	92	140		
	Lead (Pb)	5.5		1.0	ug/g	03-MAY-22	120	120		
	Mercury (Hg)	0.0098		0.0050	ug/g	03-MAY-22	0.27	0.27		
	Molybdenum (Mo)	<1.0		1.0	ug/g	03-MAY-22	2	6.9		
	Nickel (Ni)	9.8		1.0	ug/g	03-MAY-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	03-MAY-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	03-MAY-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	03-MAY-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	03-MAY-22	2.5	23		
	Vanadium (V)	13.0		1.0	ug/g	03-MAY-22	86	86		
	Zinc (Zn)	23.4		5.0	ug/g	03-MAY-22	290	340		
L2701892-20	BH104 SS4									
Sampled By: VT on 26-APR-22 @ 13:45										
Matrix: SOIL							#1	#2		
Physical Tests										
	% Moisture	15.1		0.25	%	28-APR-22				
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	04-MAY-22	0.02	0.21		
	Ethylbenzene	<0.018		0.018	ug/g	04-MAY-22	0.05	1.1		
	Toluene	<0.080		0.080	ug/g	04-MAY-22	0.2	2.3		
	o-Xylene	<0.020		0.020	ug/g	04-MAY-22				
	m+p-Xylenes	<0.030		0.030	ug/g	04-MAY-22				
	Xylenes (Total)	<0.50		0.50	ug/g	15-JUN-22	**0.05	3.1		
	Surrogate: 4-Bromofluorobenzene	91.9		50-140	%	04-MAY-22				
	Surrogate: 1,4-Difluorobenzene	98.7		50-140	%	04-MAY-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	04-MAY-22	25	55		
	F1-BTEX	<5.0		5.0	ug/g	04-MAY-22	25	55		
	F2 (C10-C16)	<10		10	ug/g	03-MAY-22	10	98		
	F3 (C16-C34)	<50		50	ug/g	03-MAY-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	03-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 19 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-20	BH104 SS4									
Sampled By:	VT on 26-APR-22 @ 13:45									
Matrix:	SOIL									
Hydrocarbons										
							#1	#2		
							120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	04-MAY-22				
	Chrom. to baseline at nC50	YES			No Unit	03-MAY-22				
	Surrogate: 2-Bromobenzotrifluoride	83.5		60-140	%	03-MAY-22				
	Surrogate: 3,4-Dichlorotoluene	83.3		60-140	%	04-MAY-22				
L2701892-21	BH104 SS6									
Sampled By:	VT on 26-APR-22 @ 13:45									
Matrix:	SOIL									
Physical Tests										
	% Moisture	19.0		0.25	%	01-MAY-22				
Volatile Organic Compounds										
	Acetone	<0.50		0.50	ug/g	05-MAY-22	0.5	16		
	Benzene	<0.0068		0.0068	ug/g	05-MAY-22	0.02	0.21		
	Bromodichloromethane	<0.050		0.050	ug/g	05-MAY-22	0.05	1.5		
	Bromoform	<0.050		0.050	ug/g	05-MAY-22	0.05	0.27		
	Bromomethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	Carbon tetrachloride	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	Chlorobenzene	<0.050		0.050	ug/g	05-MAY-22	0.05	2.4		
	Dibromochloromethane	<0.050		0.050	ug/g	05-MAY-22	0.05	2.3		
	Chloroform	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	1,2-Dibromoethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-22	0.05	1.2		
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-22	0.05	4.8		
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.083		
	Dichlorodifluoromethane	<0.050		0.050	ug/g	05-MAY-22	0.05	16		
	1,1-Dichloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.47		
	1,2-Dichloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	1,1-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-22	0.05	1.9		
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.084		
	Methylene Chloride	<0.050		0.050	ug/g	05-MAY-22	0.05	0.1		
	1,2-Dichloropropane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	05-MAY-22				
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	05-MAY-22				
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	05-MAY-22	0.05	0.05		
	Ethylbenzene	<0.018		0.018	ug/g	05-MAY-22	0.05	1.1		
	n-Hexane	<0.050		0.050	ug/g	05-MAY-22	0.05	2.8		
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	05-MAY-22	0.5	16		
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	05-MAY-22	0.5	1.7		
	MTBE	<0.050		0.050	ug/g	05-MAY-22	0.05	0.75		
	Styrene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.7		
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.058		
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	Tetrachloroethylene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.28		
	Toluene	<0.080		0.080	ug/g	05-MAY-22	0.2	2.3		

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 20 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-21	BH104 SS6									
Sampled By: VT on 26-APR-22 @ 13:45										
Matrix: SOIL							#1	#2		
Volatile Organic Compounds										
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.38		
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	Trichloroethylene	<0.010		0.010	ug/g	05-MAY-22	0.05	0.061		
	Trichlorofluoromethane	<0.050		0.050	ug/g	05-MAY-22	0.25	4		
	Vinyl chloride	<0.020		0.020	ug/g	05-MAY-22	0.02	0.02		
	o-Xylene	<0.020		0.020	ug/g	05-MAY-22				
	m+p-Xylenes	<0.030		0.030	ug/g	05-MAY-22				
	Xylenes (Total)	<0.050		0.050	ug/g	05-MAY-22	0.05	3.1		
	Surrogate: 4-Bromofluorobenzene	68.9		50-140	%	05-MAY-22				
	Surrogate: 1,4-Difluorobenzene	87.3		50-140	%	05-MAY-22				
L2701892-22	BH102 SS1									
Sampled By: VT on 26-APR-22 @ 16:00										
Matrix: SOIL							#1	#2		
Physical Tests										
	Conductivity	0.219		0.0040	mS/cm	03-MAY-22	0.57	0.7		
	% Moisture	21.9		0.25	%	28-APR-22				
	pH	7.66		0.10	pH units	04-MAY-22				
Cyanides										
	Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	03-MAY-22	0.051	0.051		
Saturated Paste Extractables										
	SAR	<0.10		0.10	SAR	03-MAY-22	2.4	5		
	Calcium (Ca)	41.9		0.50	mg/L	03-MAY-22				
	Magnesium (Mg)	3.21		0.50	mg/L	03-MAY-22				
	Sodium (Na)	1.99		0.50	mg/L	03-MAY-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	03-MAY-22	1.3	7.5		
	Arsenic (As)	8.0		1.0	ug/g	03-MAY-22	18	18		
	Barium (Ba)	108		1.0	ug/g	03-MAY-22	220	390		
	Beryllium (Be)	0.64		0.50	ug/g	03-MAY-22	2.5	4		
	Boron (B)	6.3		5.0	ug/g	03-MAY-22	36	120		
	Boron (B), Hot Water Ext.	0.39		0.10	ug/g	03-MAY-22	36	1.5		
	Cadmium (Cd)	<0.50		0.50	ug/g	03-MAY-22	1.2	1.2		
	Chromium (Cr)	18.5		1.0	ug/g	03-MAY-22	70	160		
	Cobalt (Co)	8.3		1.0	ug/g	03-MAY-22	21	22		
	Copper (Cu)	35.6		1.0	ug/g	03-MAY-22	92	140		
	Lead (Pb)	12.3		1.0	ug/g	03-MAY-22	120	120		
	Mercury (Hg)	0.0892		0.0050	ug/g	03-MAY-22	0.27	0.27		
	Molybdenum (Mo)	<1.0		1.0	ug/g	03-MAY-22	2	6.9		
	Nickel (Ni)	17.5		1.0	ug/g	03-MAY-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	03-MAY-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	03-MAY-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	03-MAY-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	03-MAY-22	2.5	23		
	Vanadium (V)	29.8		1.0	ug/g	03-MAY-22	86	86		
	Zinc (Zn)	50.3		5.0	ug/g	03-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



Environmental

ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 21 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-22	BH102 SS1									
Sampled By: VT on 26-APR-22 @ 16:00										
Matrix: SOIL										
Speciated Metals										
Chromium, Hexavalent		0.31		0.20	ug/g	04-MAY-22	0.66	8		
Polycyclic Aromatic Hydrocarbons										
Acenaphthene		<0.050		0.050	ug/g	02-MAY-22	0.072	7.9		
Acenaphthylene		<0.050		0.050	ug/g	02-MAY-22	0.093	0.15		
Anthracene		<0.050		0.050	ug/g	02-MAY-22	0.16	0.67		
Benzo(a)anthracene		<0.050		0.050	ug/g	02-MAY-22	0.36	0.5		
Benzo(a)pyrene		<0.050		0.050	ug/g	02-MAY-22	0.3	0.3		
Benzo(b&j)fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.47	0.78		
Benzo(g,h,i)perylene		<0.050		0.050	ug/g	02-MAY-22	0.68	6.6		
Benzo(k)fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.48	0.78		
Chrysene		<0.050		0.050	ug/g	02-MAY-22	2.8	7		
Dibenz(a,h)anthracene		<0.050		0.050	ug/g	02-MAY-22	0.1	0.1		
Fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.56	0.69		
Fluorene		<0.050		0.050	ug/g	02-MAY-22	0.12	62		
Indeno(1,2,3-cd)pyrene		<0.050		0.050	ug/g	02-MAY-22	0.23	0.38		
1+2-Methylnaphthalenes		<0.042		0.042	ug/g	02-MAY-22	0.59	0.99		
1-Methylnaphthalene		<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
2-Methylnaphthalene		<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
Naphthalene		<0.013		0.013	ug/g	02-MAY-22	0.09	0.6		
Phenanthrene		<0.046		0.046	ug/g	02-MAY-22	0.69	6.2		
Pyrene		<0.050		0.050	ug/g	02-MAY-22	1	78		
Surrogate: 2-Fluorobiphenyl		92.7		50-140	%	02-MAY-22				
Surrogate: d14-Terphenyl		89.7		50-140	%	02-MAY-22				
L2701892-23	BH102 SS2									
Sampled By: VT on 26-APR-22 @ 16:00										
Matrix: SOIL										
Physical Tests										
% Moisture		9.88		0.25	%	28-APR-22				
Organochlorine Pesticides										
Aldrin		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
Lindane		<0.00020		0.00020	ug/g	02-MAY-22	0.01	0.056		
a-chlordane		<0.00030		0.00030	ug/g	02-MAY-22				
Chlordane (Total)		<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.05		
g-chlordane		<0.00030		0.00030	ug/g	02-MAY-22				
o,p-DDD		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDD		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDD		<0.00042		0.00042	ug/g	02-MAY-22	0.05	3.3		
o,p-DDE		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDE		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDE		<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.26		
op-DDT		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDT		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDT		<0.00042		0.00042	ug/g	02-MAY-22	1.4	1.4		
Dieldrin		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
alpha-Endosulfan		<0.00030		0.00030	ug/g	02-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 22 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-23	BH102 SS2									
Sampled By: VT on 26-APR-22 @ 16:00										
Matrix: SOIL										
Organochlorine Pesticides										
	beta-Endosulfan	<0.00030		0.00030	ug/g	02-MAY-22				
	Endosulfan (Total)	<0.00042		0.00042	ug/g	02-MAY-22	0.04	0.04		
	Endrin	<0.00050		0.00050	ug/g	02-MAY-22	0.04	0.04		
	Heptachlor	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.15		
	Heptachlor Epoxide	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
	Hexachlorobenzene	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.52		
	Hexachlorobutadiene	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.012		
	Hexachloroethane	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.089		
	Methoxychlor	<0.00050		0.00050	ug/g	02-MAY-22	0.05	0.13		
	Surrogate: Decachlorobiphenyl	157.1	SURR-ND	50-150	%	02-MAY-22				
	Surrogate: Tetrachloro-m-xylene	84.0		50-150	%	02-MAY-22				
L2701892-24	BH102 SS3									
Sampled By: VT on 26-APR-22 @ 16:00										
Matrix: SOIL										
Physical Tests										
	% Moisture	10.4		0.25	%	28-APR-22				
Volatile Organic Compounds										
	Benzene	<0.0068		0.0068	ug/g	04-MAY-22	0.02	0.21		
	Ethylbenzene	<0.018		0.018	ug/g	04-MAY-22	0.05	1.1		
	Toluene	<0.080		0.080	ug/g	04-MAY-22	0.2	2.3		
	o-Xylene	<0.020		0.020	ug/g	04-MAY-22				
	m+p-Xylenes	<0.030		0.030	ug/g	04-MAY-22				
	Xylenes (Total)	<0.50		0.50	ug/g	15-JUN-22	**0.05	3.1		
	Surrogate: 4-Bromofluorobenzene	115.1		50-140	%	04-MAY-22				
	Surrogate: 1,4-Difluorobenzene	100.8		50-140	%	04-MAY-22				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	04-MAY-22	25	55		
	F1-BTEX	<5.0		5.0	ug/g	04-MAY-22	25	55		
	F2 (C10-C16)	<10		10	ug/g	03-MAY-22	10	98		
	F3 (C16-C34)	<50		50	ug/g	03-MAY-22	240	300		
	F4 (C34-C50)	<50		50	ug/g	03-MAY-22	120	2800		
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	04-MAY-22				
	Chrom. to baseline at nC50	YES			No Unit	03-MAY-22				
	Surrogate: 2-Bromobenzotrifluoride	86.2		60-140	%	03-MAY-22				
	Surrogate: 3,4-Dichlorotoluene	94.8		60-140	%	04-MAY-22				
L2701892-25	BH102 SS4									
Sampled By: VT on 26-APR-22 @ 16:00										
Matrix: SOIL										
Physical Tests										
	% Moisture	17.5		0.25	%	01-MAY-22				
Volatile Organic Compounds										
	Acetone	<0.50		0.50	ug/g	05-MAY-22	0.5	16		
	Benzene	<0.0068		0.0068	ug/g	05-MAY-22	0.02	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:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 23 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-25 BH102 SS4										
Sampled By: VT on 26-APR-22 @ 16:00										
Matrix: SOIL							#1	#2		
Volatile Organic Compounds										
	Bromodichloromethane	<0.050		0.050	ug/g	05-MAY-22	0.05	1.5		
	Bromoform	<0.050		0.050	ug/g	05-MAY-22	0.05	0.27		
	Bromomethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	Carbon tetrachloride	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	Chlorobenzene	<0.050		0.050	ug/g	05-MAY-22	0.05	2.4		
	Dibromochloromethane	<0.050		0.050	ug/g	05-MAY-22	0.05	2.3		
	Chloroform	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	1,2-Dibromoethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-22	0.05	1.2		
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-22	0.05	4.8		
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.083		
	Dichlorodifluoromethane	<0.050		0.050	ug/g	05-MAY-22	0.05	16		
	1,1-Dichloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.47		
	1,2-Dichloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	1,1-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-22	0.05	1.9		
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.084		
	Methylene Chloride	<0.050		0.050	ug/g	05-MAY-22	0.05	0.1		
	1,2-Dichloropropane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	05-MAY-22				
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	05-MAY-22				
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	05-MAY-22	0.05	0.05		
	Ethylbenzene	<0.018		0.018	ug/g	05-MAY-22	0.05	1.1		
	n-Hexane	<0.050		0.050	ug/g	05-MAY-22	0.05	2.8		
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	05-MAY-22	0.5	16		
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	05-MAY-22	0.5	1.7		
	MTBE	<0.050		0.050	ug/g	05-MAY-22	0.05	0.75		
	Styrene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.7		
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.058		
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	Tetrachloroethylene	<0.050		0.050	ug/g	05-MAY-22	0.05	0.28		
	Toluene	<0.080		0.080	ug/g	05-MAY-22	0.2	2.3		
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.38		
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
	Trichloroethylene	<0.010		0.010	ug/g	05-MAY-22	0.05	0.061		
	Trichlorofluoromethane	<0.050		0.050	ug/g	05-MAY-22	0.25	4		
	Vinyl chloride	<0.020		0.020	ug/g	05-MAY-22	0.02	0.02		
	o-Xylene	<0.020		0.020	ug/g	05-MAY-22				
	m+p-Xylenes	<0.030		0.030	ug/g	05-MAY-22				
	Xylenes (Total)	<0.050		0.050	ug/g	05-MAY-22	0.05	3.1		
	Surrogate: 4-Bromofluorobenzene	77.8		50-140	%	05-MAY-22				
	Surrogate: 1,4-Difluorobenzene	99.8		50-140	%	05-MAY-22				
L2701892-26 BH101 SS1										
Sampled By: VT on 27-APR-22 @ 11:45										
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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 24 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-26	BH101 SS1									
Sampled By: VT on 27-APR-22 @ 11:45										
Matrix: SOIL										
Physical Tests										
% Moisture		10.9		0.25	%	28-APR-22				
Volatile Organic Compounds										
Acetone		<0.50		0.50	ug/g	05-MAY-22	0.5	16		
Benzene		<0.0068		0.0068	ug/g	05-MAY-22	0.02	0.21		
Bromodichloromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	1.5		
Bromoform		<0.050		0.050	ug/g	05-MAY-22	0.05	0.27		
Bromomethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Carbon tetrachloride		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Chlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	2.4		
Dibromochloromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	2.3		
Chloroform		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,2-Dibromoethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,2-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	1.2		
1,3-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	4.8		
1,4-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.083		
Dichlorodifluoromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	16		
1,1-Dichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.47		
1,2-Dichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,1-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
cis-1,2-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	1.9		
trans-1,2-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.084		
Methylene Chloride		<0.050		0.050	ug/g	05-MAY-22	0.05	0.1		
1,2-Dichloropropane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
cis-1,3-Dichloropropene		<0.030		0.030	ug/g	05-MAY-22				
trans-1,3-Dichloropropene		<0.030		0.030	ug/g	05-MAY-22				
1,3-Dichloropropene (cis & trans)		<0.042		0.042	ug/g	05-MAY-22	0.05	0.05		
Ethylbenzene		<0.018		0.018	ug/g	05-MAY-22	0.05	1.1		
n-Hexane		<0.050		0.050	ug/g	05-MAY-22	0.05	2.8		
Methyl Ethyl Ketone		<0.50		0.50	ug/g	05-MAY-22	0.5	16		
Methyl Isobutyl Ketone		<0.50		0.50	ug/g	05-MAY-22	0.5	1.7		
MTBE		<0.050		0.050	ug/g	05-MAY-22	0.05	0.75		
Styrene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.7		
1,1,1,2-Tetrachloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.058		
1,1,2,2-Tetrachloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Tetrachloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.28		
Toluene		<0.080		0.080	ug/g	05-MAY-22	0.2	2.3		
1,1,1-Trichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.38		
1,1,2-Trichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Trichloroethylene		<0.010		0.010	ug/g	05-MAY-22	0.05	0.061		
Trichlorofluoromethane		<0.050		0.050	ug/g	05-MAY-22	0.25	4		
Vinyl chloride		<0.020		0.020	ug/g	05-MAY-22	0.02	0.02		
o-Xylene		<0.020		0.020	ug/g	05-MAY-22				
m+p-Xylenes		<0.030		0.030	ug/g	05-MAY-22				
Xylenes (Total)		<0.050		0.050	ug/g	05-MAY-22	0.05	3.1		
Surrogate: 4-Bromofluorobenzene		71.8		50-140	%	05-MAY-22				
Surrogate: 1,4-Difluorobenzene		92.2		50-140	%	05-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 25 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-26	BH101 SS1									
Sampled By: VT on 27-APR-22 @ 11:45										
Matrix: SOIL										
Polycyclic Aromatic Hydrocarbons							#1	#2		
Acenaphthene		<0.050		0.050	ug/g	02-MAY-22	0.072	7.9		
Acenaphthylene		<0.050		0.050	ug/g	02-MAY-22	0.093	0.15		
Anthracene		<0.050		0.050	ug/g	02-MAY-22	0.16	0.67		
Benzo(a)anthracene		<0.050		0.050	ug/g	02-MAY-22	0.36	0.5		
Benzo(a)pyrene		<0.050		0.050	ug/g	02-MAY-22	0.3	0.3		
Benzo(b&j)fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.47	0.78		
Benzo(g,h,i)perylene		<0.050		0.050	ug/g	02-MAY-22	0.68	6.6		
Benzo(k)fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.48	0.78		
Chrysene		<0.050		0.050	ug/g	02-MAY-22	2.8	7		
Dibenz(a,h)anthracene		<0.050		0.050	ug/g	02-MAY-22	0.1	0.1		
Fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.56	0.69		
Fluorene		<0.050		0.050	ug/g	02-MAY-22	0.12	62		
Indeno(1,2,3-cd)pyrene		<0.050		0.050	ug/g	02-MAY-22	0.23	0.38		
1+2-Methylnaphthalenes		<0.042		0.042	ug/g	02-MAY-22	0.59	0.99		
1-Methylnaphthalene		<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
2-Methylnaphthalene		<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
Naphthalene		<0.013		0.013	ug/g	02-MAY-22	0.09	0.6		
Phenanthrene		<0.046		0.046	ug/g	02-MAY-22	0.69	6.2		
Pyrene		<0.050		0.050	ug/g	02-MAY-22	1	78		
Surrogate: 2-Fluorobiphenyl		92.5		50-140	%	02-MAY-22				
Surrogate: d14-Terphenyl		93.1		50-140	%	02-MAY-22				
Organochlorine Pesticides										
Aldrin		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
Lindane		<0.00020		0.00020	ug/g	02-MAY-22	0.01	0.056		
a-chlordane		<0.00030		0.00030	ug/g	02-MAY-22				
Chlordane (Total)		<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.05		
g-chlordane		<0.00030		0.00030	ug/g	02-MAY-22				
o,p-DDD		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDD		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDD		<0.00042		0.00042	ug/g	02-MAY-22	0.05	3.3		
o,p-DDE		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDE		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDE		<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.26		
op-DDT		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDT		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDT		<0.00042		0.00042	ug/g	02-MAY-22	1.4	1.4		
Dieldrin		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
alpha-Endosulfan		<0.00030		0.00030	ug/g	02-MAY-22				
beta-Endosulfan		<0.00030		0.00030	ug/g	02-MAY-22				
Endosulfan (Total)		<0.00042		0.00042	ug/g	02-MAY-22	0.04	0.04		
Endrin		<0.00050		0.00050	ug/g	02-MAY-22	0.04	0.04		
Heptachlor		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.15		
Heptachlor Epoxide		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
Hexachlorobenzene		<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.52		
Hexachlorobutadiene		<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.012		
Hexachloroethane		<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.089		

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 26 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-26	BH101 SS1									
Sampled By: VT on 27-APR-22 @ 11:45										
Matrix: SOIL										
Organochlorine Pesticides										
	Methoxychlor	<0.00050		0.00050	ug/g	02-MAY-22				
	Surrogate: Decachlorobiphenyl	166.7	SURR-ND	50-150	%	02-MAY-22				
	Surrogate: Tetrachloro-m-xylene	103.1		50-150	%	02-MAY-22				
L2701892-27	BH101 SS2									
Sampled By: VT on 27-APR-22 @ 11:45										
Matrix: SOIL										
Physical Tests										
	Conductivity	0.0914		0.0040	mS/cm	03-MAY-22				
	% Moisture	8.70		0.25	%	28-APR-22				
Cyanides										
	Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	03-MAY-22				
Saturated Paste Extractables										
	SAR	0.36		0.10	SAR	03-MAY-22				
	Calcium (Ca)	5.87		0.50	mg/L	03-MAY-22				
	Magnesium (Mg)	0.59		0.50	mg/L	03-MAY-22				
	Sodium (Na)	3.40		0.50	mg/L	03-MAY-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	03-MAY-22				
	Arsenic (As)	2.1		1.0	ug/g	03-MAY-22				
	Barium (Ba)	17.2		1.0	ug/g	03-MAY-22				
	Beryllium (Be)	<0.50		0.50	ug/g	03-MAY-22				
	Boron (B)	<5.0		5.0	ug/g	03-MAY-22				
	Boron (B), Hot Water Ext.	<0.10		0.10	ug/g	03-MAY-22				
	Cadmium (Cd)	<0.50		0.50	ug/g	03-MAY-22				
	Chromium (Cr)	8.1		1.0	ug/g	03-MAY-22				
	Cobalt (Co)	2.5		1.0	ug/g	03-MAY-22				
	Copper (Cu)	14.4		1.0	ug/g	03-MAY-22				
	Lead (Pb)	2.7		1.0	ug/g	03-MAY-22				
	Mercury (Hg)	<0.0050		0.0050	ug/g	03-MAY-22				
	Molybdenum (Mo)	<1.0		1.0	ug/g	03-MAY-22				
	Nickel (Ni)	5.0		1.0	ug/g	03-MAY-22				
	Selenium (Se)	<1.0		1.0	ug/g	03-MAY-22				
	Silver (Ag)	<0.20		0.20	ug/g	03-MAY-22				
	Thallium (Tl)	<0.50		0.50	ug/g	03-MAY-22				
	Uranium (U)	<1.0		1.0	ug/g	03-MAY-22				
	Vanadium (V)	20.9		1.0	ug/g	03-MAY-22				
	Zinc (Zn)	13.5		5.0	ug/g	03-MAY-22				
Speciated Metals										
	Chromium, Hexavalent	<0.20		0.20	ug/g	04-MAY-22				
L2701892-28	BH101 SS3									
Sampled By: VT on 27-APR-22 @ 11:45										
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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 27 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-28	BH101 SS3									
Sampled By: VT on 27-APR-22 @ 11:45										
Matrix: SOIL										
Physical Tests										
% Moisture		10.2		0.25	%	28-APR-22				
Volatile Organic Compounds										
Benzene		<0.0068		0.0068	ug/g	04-MAY-22	0.02	0.21		
Ethylbenzene		<0.018		0.018	ug/g	04-MAY-22	0.05	1.1		
Toluene		<0.080		0.080	ug/g	04-MAY-22	0.2	2.3		
o-Xylene		<0.020		0.020	ug/g	04-MAY-22				
m+p-Xylenes		<0.030		0.030	ug/g	04-MAY-22				
Xylenes (Total)		<0.50		0.50	ug/g	15-JUN-22	**0.05	3.1		
Surrogate: 4-Bromofluorobenzene		97.0		50-140	%	04-MAY-22				
Surrogate: 1,4-Difluorobenzene		96.1		50-140	%	04-MAY-22				
Hydrocarbons										
F1 (C6-C10)		<5.0		5.0	ug/g	04-MAY-22	25	55		
F1-BTEX		<5.0		5.0	ug/g	04-MAY-22	25	55		
F2 (C10-C16)		<10		10	ug/g	04-MAY-22	10	98		
F3 (C16-C34)		<50		50	ug/g	04-MAY-22	240	300		
F4 (C34-C50)		<50		50	ug/g	04-MAY-22	120	2800		
Total Hydrocarbons (C6-C50)		<72		72	ug/g	04-MAY-22				
Chrom. to baseline at nC50		YES			No Unit	04-MAY-22				
Surrogate: 2-Bromobenzotrifluoride		83.9		60-140	%	04-MAY-22				
Surrogate: 3,4-Dichlorotoluene		106.9		60-140	%	04-MAY-22				
L2701892-29	BH116 SS2B									
Sampled By: VT on 27-APR-22 @ 16:00										
Matrix: SOIL										
Physical Tests										
% Moisture		6.24		0.25	%	28-APR-22				
Organochlorine Pesticides										
Aldrin		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
Lindane		<0.00020		0.00020	ug/g	02-MAY-22	0.01	0.056		
a-chlordane		<0.00030		0.00030	ug/g	02-MAY-22				
Chlordane (Total)		<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.05		
g-chlordane		<0.00030		0.00030	ug/g	02-MAY-22				
o,p-DDD		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDD		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDD		<0.00042		0.00042	ug/g	02-MAY-22	0.05	3.3		
o,p-DDE		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDE		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDE		<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.26		
op-DDT		<0.00030		0.00030	ug/g	02-MAY-22				
pp-DDT		<0.00030		0.00030	ug/g	02-MAY-22				
Total DDT		<0.00042		0.00042	ug/g	02-MAY-22	1.4	1.4		
Dieldrin		<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
alpha-Endosulfan		<0.00030		0.00030	ug/g	02-MAY-22				
beta-Endosulfan		<0.00030		0.00030	ug/g	02-MAY-22				
Endosulfan (Total)		<0.00042		0.00042	ug/g	02-MAY-22	0.04	0.04		
Endrin		<0.00050		0.00050	ug/g	02-MAY-22	0.04	0.04		

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Comm Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-29	BH116 SS2B									
Sampled By: VT on 27-APR-22 @ 16:00										
Matrix: SOIL							#1	#2		
Organochlorine Pesticides										
	Heptachlor	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.15		
	Heptachlor Epoxide	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
	Hexachlorobenzene	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.52		
	Hexachlorobutadiene	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.012		
	Hexachloroethane	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.089		
	Methoxychlor	<0.00050		0.00050	ug/g	02-MAY-22	0.05	0.13		
	Surrogate: Decachlorobiphenyl	92.1		50-150	%	02-MAY-22				
	Surrogate: Tetrachloro-m-xylene	78.0		50-150	%	02-MAY-22				
L2701892-30	BH116 SS3									
Sampled By: VT on 27-APR-22 @ 16:00										
Matrix: SOIL							#1	#2		
Physical Tests										
	Conductivity	0.0899		0.0040	mS/cm	03-MAY-22	0.57	0.7		
	% Moisture	15.9		0.25	%	29-APR-22				
	pH	7.89		0.10	pH units	04-MAY-22				
Cyanides										
	Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	03-MAY-22	0.051	0.051		
Saturated Paste Extractables										
	SAR	0.63	SAR:M	0.10	SAR	03-MAY-22	2.4	5		
	Calcium (Ca)	5.25		0.50	mg/L	03-MAY-22				
	Magnesium (Mg)	<0.50		0.50	mg/L	03-MAY-22				
	Sodium (Na)	5.21		0.50	mg/L	03-MAY-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	03-MAY-22	1.3	7.5		
	Arsenic (As)	1.7		1.0	ug/g	03-MAY-22	18	18		
	Barium (Ba)	17.8		1.0	ug/g	03-MAY-22	220	390		
	Beryllium (Be)	<0.50		0.50	ug/g	03-MAY-22	2.5	4		
	Boron (B)	<5.0		5.0	ug/g	03-MAY-22	36	120		
	Boron (B), Hot Water Ext.	<0.10		0.10	ug/g	03-MAY-22	36	1.5		
	Cadmium (Cd)	<0.50		0.50	ug/g	03-MAY-22	1.2	1.2		
	Chromium (Cr)	6.3		1.0	ug/g	03-MAY-22	70	160		
	Cobalt (Co)	2.7		1.0	ug/g	03-MAY-22	21	22		
	Copper (Cu)	15.9		1.0	ug/g	03-MAY-22	92	140		
	Lead (Pb)	2.6		1.0	ug/g	03-MAY-22	120	120		
	Mercury (Hg)	<0.0050		0.0050	ug/g	03-MAY-22	0.27	0.27		
	Molybdenum (Mo)	<1.0		1.0	ug/g	03-MAY-22	2	6.9		
	Nickel (Ni)	5.8		1.0	ug/g	03-MAY-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	03-MAY-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	03-MAY-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	03-MAY-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	03-MAY-22	2.5	23		
	Vanadium (V)	14.8		1.0	ug/g	03-MAY-22	86	86		
	Zinc (Zn)	13.2		5.0	ug/g	03-MAY-22	290	340		
Speciated 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:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 29 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-30	BH116 SS3									
Sampled By: VT on 27-APR-22 @ 16:00										
Matrix: SOIL										
Speciated Metals										
Chromium, Hexavalent		<0.20		0.20	ug/g	04-MAY-22	0.66	8		
Polycyclic Aromatic Hydrocarbons										
Acenaphthene		<0.050		0.050	ug/g	02-MAY-22	0.072	7.9		
Acenaphthylene		<0.050		0.050	ug/g	02-MAY-22	0.093	0.15		
Anthracene		<0.050		0.050	ug/g	02-MAY-22	0.16	0.67		
Benzo(a)anthracene		<0.050		0.050	ug/g	02-MAY-22	0.36	0.5		
Benzo(a)pyrene		<0.050		0.050	ug/g	02-MAY-22	0.3	0.3		
Benzo(b&j)fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.47	0.78		
Benzo(g,h,i)perylene		<0.050		0.050	ug/g	02-MAY-22	0.68	6.6		
Benzo(k)fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.48	0.78		
Chrysene		<0.050		0.050	ug/g	02-MAY-22	2.8	7		
Dibenz(a,h)anthracene		<0.050		0.050	ug/g	02-MAY-22	0.1	0.1		
Fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.56	0.69		
Fluorene		<0.050		0.050	ug/g	02-MAY-22	0.12	62		
Indeno(1,2,3-cd)pyrene		<0.050		0.050	ug/g	02-MAY-22	0.23	0.38		
1+2-Methylnaphthalenes		<0.042		0.042	ug/g	02-MAY-22	0.59	0.99		
1-Methylnaphthalene		<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
2-Methylnaphthalene		<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
Naphthalene		<0.013		0.013	ug/g	02-MAY-22	0.09	0.6		
Phenanthrene		<0.046		0.046	ug/g	02-MAY-22	0.69	6.2		
Pyrene		<0.050		0.050	ug/g	02-MAY-22	1	78		
Surrogate: 2-Fluorobiphenyl		90.4		50-140	%	02-MAY-22				
Surrogate: d14-Terphenyl		86.7		50-140	%	02-MAY-22				
L2701892-31	BH116 SS4									
Sampled By: VT on 27-APR-22 @ 16:00										
Matrix: SOIL										
Physical Tests										
% Moisture		11.2		0.25	%	29-APR-22				
Volatile Organic Compounds										
Benzene		<0.0068		0.0068	ug/g	04-MAY-22	0.02	0.21		
Ethylbenzene		<0.018		0.018	ug/g	04-MAY-22	0.05	1.1		
Toluene		<0.080		0.080	ug/g	04-MAY-22	0.2	2.3		
o-Xylene		<0.020		0.020	ug/g	04-MAY-22				
m+p-Xylenes		<0.030		0.030	ug/g	04-MAY-22				
Xylenes (Total)		<0.50		0.50	ug/g	15-JUN-22	**0.05	3.1		
Surrogate: 4-Bromofluorobenzene		94.7		50-140	%	04-MAY-22				
Surrogate: 1,4-Difluorobenzene		100.3		50-140	%	04-MAY-22				
Hydrocarbons										
F1 (C6-C10)		<5.0		5.0	ug/g	04-MAY-22	25	55		
F1-BTEX		<5.0		5.0	ug/g	04-MAY-22	25	55		
F2 (C10-C16)		<10		10	ug/g	04-MAY-22	10	98		
F3 (C16-C34)		<50		50	ug/g	04-MAY-22	240	300		
F4 (C34-C50)		<50		50	ug/g	04-MAY-22	120	2800		
Total Hydrocarbons (C6-C50)		<72		72	ug/g	04-MAY-22				
Chrom. to baseline at nC50		YES			No Unit	04-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 30 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-31	BH116 SS4									
Sampled By: VT on 27-APR-22 @ 16:00										
Matrix: SOIL										
Hydrocarbons										
Surrogate: 2-Bromobenzotrifluoride		82.6		60-140	%	04-MAY-22				
Surrogate: 3,4-Dichlorotoluene		74.0		60-140	%	04-MAY-22				
L2701892-32	BH116 SS7									
Sampled By: VT on 27-APR-22 @ 16:00										
Matrix: SOIL										
Physical Tests										
% Moisture		17.6		0.25	%	01-MAY-22				
Volatile Organic Compounds										
Acetone		<0.50		0.50	ug/g	05-MAY-22	0.5	16		
Benzene		<0.0068		0.0068	ug/g	05-MAY-22	0.02	0.21		
Bromodichloromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	1.5		
Bromoform		<0.050		0.050	ug/g	05-MAY-22	0.05	0.27		
Bromomethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Carbon tetrachloride		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Chlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	2.4		
Dibromochloromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	2.3		
Chloroform		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,2-Dibromoethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,2-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	1.2		
1,3-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	4.8		
1,4-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.083		
Dichlorodifluoromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	16		
1,1-Dichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.47		
1,2-Dichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,1-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
cis-1,2-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	1.9		
trans-1,2-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.084		
Methylene Chloride		<0.050		0.050	ug/g	05-MAY-22	0.05	0.1		
1,2-Dichloropropane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
cis-1,3-Dichloropropene		<0.030		0.030	ug/g	05-MAY-22				
trans-1,3-Dichloropropene		<0.030		0.030	ug/g	05-MAY-22				
1,3-Dichloropropene (cis & trans)		<0.042		0.042	ug/g	05-MAY-22	0.05	0.05		
Ethylbenzene		<0.018		0.018	ug/g	05-MAY-22	0.05	1.1		
n-Hexane		<0.050		0.050	ug/g	05-MAY-22	0.05	2.8		
Methyl Ethyl Ketone		<0.50		0.50	ug/g	05-MAY-22	0.5	16		
Methyl Isobutyl Ketone		<0.50		0.50	ug/g	05-MAY-22	0.5	1.7		
MTBE		<0.050		0.050	ug/g	05-MAY-22	0.05	0.75		
Styrene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.7		
1,1,1,2-Tetrachloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.058		
1,1,2,2-Tetrachloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Tetrachloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.28		
Toluene		<0.080		0.080	ug/g	05-MAY-22	0.2	2.3		
1,1,1-Trichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.38		
1,1,2-Trichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Trichloroethylene		<0.010		0.010	ug/g	05-MAY-22	0.05	0.061		

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 31 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-32	BH116 SS7									
Sampled By: VT on 27-APR-22 @ 16:00							#1	#2		
Matrix: SOIL										
Volatile Organic Compounds										
	Trichlorofluoromethane	<0.050		0.050	ug/g	05-MAY-22	0.25	4		
	Vinyl chloride	<0.020		0.020	ug/g	05-MAY-22	0.02	0.02		
	o-Xylene	<0.020		0.020	ug/g	05-MAY-22				
	m+p-Xylenes	<0.030		0.030	ug/g	05-MAY-22				
	Xylenes (Total)	<0.050		0.050	ug/g	05-MAY-22	0.05	3.1		
	Surrogate: 4-Bromofluorobenzene	72.5		50-140	%	05-MAY-22				
	Surrogate: 1,4-Difluorobenzene	93.8		50-140	%	05-MAY-22				
L2701892-33	DUP - 6									
Sampled By: VT on 26-APR-22 @ 16:00							#1	#2		
Matrix: SOIL										
Physical Tests										
	Conductivity	0.279		0.0040	mS/cm	03-MAY-22	0.57	0.7		
	% Moisture	7.95		0.25	%	29-APR-22				
	pH	8.04		0.10	pH units	04-MAY-22				
Cyanides										
	Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	03-MAY-22	0.051	0.051		
Saturated Paste Extractables										
	SAR	>14.	SAR:L	0.10	SAR	03-MAY-22	*2.4	*5		
	Calcium (Ca)	<0.50		0.50	mg/L	03-MAY-22				
	Magnesium (Mg)	<0.50		0.50	mg/L	03-MAY-22				
	Sodium (Na)	59.3		0.50	mg/L	03-MAY-22				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	03-MAY-22	1.3	7.5		
	Arsenic (As)	2.6		1.0	ug/g	03-MAY-22	18	18		
	Barium (Ba)	26.8		1.0	ug/g	03-MAY-22	220	390		
	Beryllium (Be)	<0.50		0.50	ug/g	03-MAY-22	2.5	4		
	Boron (B)	6.1		5.0	ug/g	03-MAY-22	36	120		
	Boron (B), Hot Water Ext.	0.20		0.10	ug/g	03-MAY-22	36	1.5		
	Cadmium (Cd)	<0.50		0.50	ug/g	03-MAY-22	1.2	1.2		
	Chromium (Cr)	7.8		1.0	ug/g	03-MAY-22	70	160		
	Cobalt (Co)	3.0		1.0	ug/g	03-MAY-22	21	22		
	Copper (Cu)	18.4		1.0	ug/g	03-MAY-22	92	140		
	Lead (Pb)	4.0		1.0	ug/g	03-MAY-22	120	120		
	Mercury (Hg)	<0.0050		0.0050	ug/g	03-MAY-22	0.27	0.27		
	Molybdenum (Mo)	<1.0		1.0	ug/g	03-MAY-22	2	6.9		
	Nickel (Ni)	6.3		1.0	ug/g	03-MAY-22	82	100		
	Selenium (Se)	<1.0		1.0	ug/g	03-MAY-22	1.5	2.4		
	Silver (Ag)	<0.20		0.20	ug/g	03-MAY-22	0.5	20		
	Thallium (Tl)	<0.50		0.50	ug/g	03-MAY-22	1	1		
	Uranium (U)	<1.0		1.0	ug/g	03-MAY-22	2.5	23		
	Vanadium (V)	13.1		1.0	ug/g	03-MAY-22	86	86		
	Zinc (Zn)	16.5		5.0	ug/g	03-MAY-22	290	340		
Speciated Metals										
	Chromium, Hexavalent	<0.20		0.20	ug/g	04-MAY-22	0.66	8		

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 32 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-34	DUP - 7									
Sampled By:	VT on 26-APR-22 @ 16:00									
Matrix:	SOIL						#1	#2		
Physical Tests										
% Moisture		9.07		0.25	%	01-MAY-22				
Polycyclic Aromatic Hydrocarbons										
Acenaphthene		<0.050		0.050	ug/g	02-MAY-22	0.072	7.9		
Acenaphthylene		<0.050		0.050	ug/g	02-MAY-22	0.093	0.15		
Anthracene		<0.050		0.050	ug/g	02-MAY-22	0.16	0.67		
Benzo(a)anthracene		<0.050		0.050	ug/g	02-MAY-22	0.36	0.5		
Benzo(a)pyrene		<0.050		0.050	ug/g	02-MAY-22	0.3	0.3		
Benzo(b&j)fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.47	0.78		
Benzo(g,h,i)perylene		<0.050		0.050	ug/g	02-MAY-22	0.68	6.6		
Benzo(k)fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.48	0.78		
Chrysene		<0.050		0.050	ug/g	02-MAY-22	2.8	7		
Dibenz(a,h)anthracene		<0.050		0.050	ug/g	02-MAY-22	0.1	0.1		
Fluoranthene		<0.050		0.050	ug/g	02-MAY-22	0.56	0.69		
Fluorene		<0.050		0.050	ug/g	02-MAY-22	0.12	62		
Indeno(1,2,3-cd)pyrene		<0.050		0.050	ug/g	02-MAY-22	0.23	0.38		
1+2-Methylnaphthalenes		<0.042		0.042	ug/g	02-MAY-22	0.59	0.99		
1-Methylnaphthalene		<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
2-Methylnaphthalene		<0.030		0.030	ug/g	02-MAY-22	0.59	0.99		
Naphthalene		<0.013		0.013	ug/g	02-MAY-22	0.09	0.6		
Phenanthrene		<0.046		0.046	ug/g	02-MAY-22	0.69	6.2		
Pyrene		<0.050		0.050	ug/g	02-MAY-22	1	78		
Surrogate: 2-Fluorobiphenyl		90.2		50-140	%	02-MAY-22				
Surrogate: d14-Terphenyl		86.0		50-140	%	02-MAY-22				
L2701892-35	DUP - 8									
Sampled By:	VT on 26-APR-22 @ 16:00									
Matrix:	SOIL						#1	#2		
Physical Tests										
% Moisture		13.3		0.25	%	29-APR-22				
Volatile Organic Compounds										
Benzene		<0.0068		0.0068	ug/g	04-MAY-22	0.02	0.21		
Ethylbenzene		<0.018		0.018	ug/g	04-MAY-22	0.05	1.1		
Toluene		<0.080		0.080	ug/g	04-MAY-22	0.2	2.3		
o-Xylene		<0.020		0.020	ug/g	04-MAY-22				
m+p-Xylenes		<0.030		0.030	ug/g	04-MAY-22				
Xylenes (Total)		<0.50		0.50	ug/g	15-JUN-22	**0.05	3.1		
Surrogate: 4-Bromofluorobenzene		104.8		50-140	%	04-MAY-22				
Surrogate: 1,4-Difluorobenzene		108.4		50-140	%	04-MAY-22				
Hydrocarbons										
F1 (C6-C10)		<5.0		5.0	ug/g	04-MAY-22	25	55		
F1-BTEX		<5.0		5.0	ug/g	04-MAY-22	25	55		
F2 (C10-C16)		<10		10	ug/g	04-MAY-22	10	98		
F3 (C16-C34)		<50		50	ug/g	04-MAY-22	240	300		
F4 (C34-C50)		<50		50	ug/g	04-MAY-22	120	2800		
Total Hydrocarbons (C6-C50)		<72		72	ug/g	04-MAY-22				
Chrom. to baseline at nC50		YES			No Unit	04-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 33 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-35	DUP - 8									
Sampled By:	VT on 26-APR-22 @ 16:00									
Matrix:	SOIL									
Hydrocarbons										
Surrogate: 2-Bromobenzotrifluoride		86.6		60-140	%	04-MAY-22				
Surrogate: 3,4-Dichlorotoluene		73.0		60-140	%	04-MAY-22				
L2701892-36	DUP - 9									
Sampled By:	VT on 26-APR-22 @ 16:00									
Matrix:	SOIL									
Physical Tests										
% Moisture		16.0		0.25	%	01-MAY-22				
Volatile Organic Compounds										
Acetone		<0.50		0.50	ug/g	05-MAY-22	0.5	16		
Benzene		<0.0068		0.0068	ug/g	05-MAY-22	0.02	0.21		
Bromodichloromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	1.5		
Bromoform		<0.050		0.050	ug/g	05-MAY-22	0.05	0.27		
Bromomethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Carbon tetrachloride		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Chlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	2.4		
Dibromochloromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	2.3		
Chloroform		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,2-Dibromoethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,2-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	1.2		
1,3-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	4.8		
1,4-Dichlorobenzene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.083		
Dichlorodifluoromethane		<0.050		0.050	ug/g	05-MAY-22	0.05	16		
1,1-Dichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.47		
1,2-Dichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
1,1-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
cis-1,2-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	1.9		
trans-1,2-Dichloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.084		
Methylene Chloride		<0.050		0.050	ug/g	05-MAY-22	0.05	0.1		
1,2-Dichloropropane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
cis-1,3-Dichloropropene		<0.030		0.030	ug/g	05-MAY-22				
trans-1,3-Dichloropropene		<0.030		0.030	ug/g	05-MAY-22				
1,3-Dichloropropene (cis & trans)		<0.042		0.042	ug/g	05-MAY-22	0.05	0.05		
Ethylbenzene		<0.018		0.018	ug/g	05-MAY-22	0.05	1.1		
n-Hexane		<0.050		0.050	ug/g	05-MAY-22	0.05	2.8		
Methyl Ethyl Ketone		<0.50		0.50	ug/g	05-MAY-22	0.5	16		
Methyl Isobutyl Ketone		<0.50		0.50	ug/g	05-MAY-22	0.5	1.7		
MTBE		<0.050		0.050	ug/g	05-MAY-22	0.05	0.75		
Styrene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.7		
1,1,1,2-Tetrachloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.058		
1,1,2,2-Tetrachloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Tetrachloroethylene		<0.050		0.050	ug/g	05-MAY-22	0.05	0.28		
Toluene		<0.080		0.080	ug/g	05-MAY-22	0.2	2.3		
1,1,1-Trichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.38		
1,1,2-Trichloroethane		<0.050		0.050	ug/g	05-MAY-22	0.05	0.05		
Trichloroethylene		<0.010		0.010	ug/g	05-MAY-22	0.05	0.061		

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)



ANALYTICAL GUIDELINE REPORT

L2701892 CONTD....

Page 34 of 38

16-JUN-22 08:12 (MT)

22-052 - 163-164 EDWARD ST E.

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2701892-36	DUP - 9									
Sampled By: VT on 26-APR-22 @ 16:00										
Matrix: SOIL										
Volatile Organic Compounds										
	Trichlorofluoromethane	<0.050		0.050	ug/g	05-MAY-22	0.25	4		
	Vinyl chloride	<0.020		0.020	ug/g	05-MAY-22	0.02	0.02		
	o-Xylene	<0.020		0.020	ug/g	05-MAY-22				
	m+p-Xylenes	<0.030		0.030	ug/g	05-MAY-22				
	Xylenes (Total)	<0.050		0.050	ug/g	05-MAY-22	0.05	3.1		
	Surrogate: 4-Bromofluorobenzene	74.3		50-140	%	05-MAY-22				
	Surrogate: 1,4-Difluorobenzene	94.4		50-140	%	05-MAY-22				
L2701892-37	DUP - 10									
Sampled By: VT on 26-APR-22 @ 16:00										
Matrix: SOIL										
Physical Tests										
	% Moisture	22.9		0.25	%	29-APR-22				
Organochlorine Pesticides										
	Aldrin	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
	Lindane	<0.00020		0.00020	ug/g	02-MAY-22	0.01	0.056		
	a-chlordane	<0.00030		0.00030	ug/g	02-MAY-22				
	Chlordane (Total)	<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.05		
	g-chlordane	<0.00030		0.00030	ug/g	02-MAY-22				
	o,p-DDD	<0.00030		0.00030	ug/g	02-MAY-22				
	pp-DDD	<0.00030		0.00030	ug/g	02-MAY-22				
	Total DDD	<0.00042		0.00042	ug/g	02-MAY-22	0.05	3.3		
	o,p-DDE	<0.00030		0.00030	ug/g	02-MAY-22				
	pp-DDE	<0.00030		0.00030	ug/g	02-MAY-22				
	Total DDE	<0.00042		0.00042	ug/g	02-MAY-22	0.05	0.26		
	op-DDT	<0.00030		0.00030	ug/g	02-MAY-22				
	pp-DDT	<0.00030		0.00030	ug/g	02-MAY-22				
	Total DDT	<0.00042		0.00042	ug/g	02-MAY-22	1.4	1.4		
	Dieldrin	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
	alpha-Endosulfan	<0.00030		0.00030	ug/g	02-MAY-22				
	beta-Endosulfan	<0.00030		0.00030	ug/g	02-MAY-22				
	Endosulfan (Total)	<0.00042		0.00042	ug/g	02-MAY-22	0.04	0.04		
	Endrin	<0.00050		0.00050	ug/g	02-MAY-22	0.04	0.04		
	Heptachlor	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.15		
	Heptachlor Epoxide	<0.00020		0.00020	ug/g	02-MAY-22	0.05	0.05		
	Hexachlorobenzene	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.52		
	Hexachlorobutadiene	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.012		
	Hexachloroethane	<0.00050		0.00050	ug/g	02-MAY-22	0.01	0.089		
	Methoxychlor	<0.00050		0.00050	ug/g	02-MAY-22	0.05	0.13		
	Surrogate: Decachlorobiphenyl	89.3		50-150	%	02-MAY-22				
	Surrogate: Tetrachloro-m-xylene	73.1		50-150	%	02-MAY-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 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-COARSE

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-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.		
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).			
CR-CR6-IC-WT	Soil	Hexavalent Chromium in Soil	SW846 3060A/7199
This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).			
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 CCME CWS-PHC, Pub #1310, Dec 2001-S
Parameters

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).

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	SW846 8270
		Soil/Sediment	

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 technique is 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).

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	Water	Sum of Xylene Isomer Concentrations	CALCULATION
---------------------	-------	-------------------------------------	-------------

Total xylenes represents the sum of o-xylene and m&p-xylene.

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:
20-955445

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: L2701892

Report Date: 16-JUN-22

Page 1 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT		Soil						
Batch	R5770409							
WG3722513-20	DUP	L2701057-2						
Boron (B), Hot Water Ext.		0.14	0.12		ug/g	10	30	02-MAY-22
WG3722513-18	IRM	WT SAR4						
Boron (B), Hot Water Ext.			104.1		%		70-130	02-MAY-22
WG3722513-19	LCS							
Boron (B), Hot Water Ext.			118.0		%		70-130	02-MAY-22
WG3722513-17	MB							
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	02-MAY-22
Batch	R5770766							
WG3722753-4	DUP	L2701892-30						
Boron (B), Hot Water Ext.		<0.10	<0.10	RPD-NA	ug/g	N/A	30	03-MAY-22
WG3722753-2	IRM	WT SAR4						
Boron (B), Hot Water Ext.			107.1		%		70-130	03-MAY-22
WG3722753-3	LCS							
Boron (B), Hot Water Ext.			103.0		%		70-130	03-MAY-22
WG3722753-1	MB							
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	03-MAY-22
BTX-511-HS-WT		Soil						
Batch	R5771057							
WG3722801-4	DUP	WG3722801-3						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	04-MAY-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	04-MAY-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	04-MAY-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-MAY-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	04-MAY-22
WG3722801-2	LCS							
Benzene			110.8		%		70-130	04-MAY-22
Ethylbenzene			92.6		%		70-130	04-MAY-22
m+p-Xylenes			93.8		%		70-130	04-MAY-22
o-Xylene			98.1		%		70-130	04-MAY-22
Toluene			106.6		%		70-130	04-MAY-22
WG3722801-1	MB							
Benzene			<0.0068		ug/g		0.0068	04-MAY-22
Ethylbenzene			<0.018		ug/g		0.018	04-MAY-22
m+p-Xylenes			<0.030		ug/g		0.03	04-MAY-22
o-Xylene			<0.020		ug/g		0.02	04-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 2 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT								
Soil								
Batch R5771057								
WG3722801-1 MB								
Toluene			<0.080		ug/g		0.08	04-MAY-22
Surrogate: 1,4-Difluorobenzene			154.4	SURQC	%		50-140	04-MAY-22
Surrogate: 4-Bromofluorobenzene			137.3		%		50-140	04-MAY-22
WG3722801-5 MS		WG3722801-3						
Benzene			99.0		%		60-140	04-MAY-22
Ethylbenzene			96.9		%		60-140	04-MAY-22
m+p-Xylenes			96.6		%		60-140	04-MAY-22
o-Xylene			104.5		%		60-140	04-MAY-22
Toluene			92.8		%		60-140	04-MAY-22
CN-WAD-R511-WT								
Soil								
Batch R5771111								
WG3721692-3 DUP		L2701928-7						
Cyanide, Weak Acid Diss		<0.050	<0.050	RPD-NA	ug/g	N/A	35	03-MAY-22
WG3721692-2 LCS								
Cyanide, Weak Acid Diss			93.8		%		80-120	03-MAY-22
WG3721692-1 MB								
Cyanide, Weak Acid Diss			<0.050		ug/g		0.05	03-MAY-22
WG3721692-4 MS		L2701928-7						
Cyanide, Weak Acid Diss			100.1		%		70-130	03-MAY-22
CR-CR6-IC-WT								
Soil								
Batch R5771719								
WG3723032-3 DUP		L2701547-15						
Chromium, Hexavalent		<0.20	<0.20	RPD-NA	ug/g	N/A	35	04-MAY-22
WG3723032-2 LCS								
Chromium, Hexavalent			91.2		%		80-120	04-MAY-22
WG3723032-1 MB								
Chromium, Hexavalent			<0.20		ug/g		0.2	04-MAY-22
WG3723032-4 MS		L2701547-15						
Chromium, Hexavalent			98.3		%		70-130	04-MAY-22
EC-WT								
Soil								
Batch R5770508								
WG3722516-34 DUP		WG3722516-33						
Conductivity		0.195	0.198		mS/cm	1.8	20	02-MAY-22
WG3722516-32 IRM		WT SAR4						
Conductivity			101.5		%		70-130	02-MAY-22
WG3722561-1 LCS								

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-WT		Soil						
Batch	R5770508							
WG3722561-1	LCS							
Conductivity			92.8		%		90-110	02-MAY-22
WG3722516-31	MB							
Conductivity			<0.0040		mS/cm		0.004	02-MAY-22
Batch	R5770837							
WG3722754-4	DUP	WG3722754-3						
Conductivity		0.666	0.671		mS/cm	0.7	20	03-MAY-22
WG3722754-2	IRM	WT SAR4						
Conductivity			100.6		%		70-130	03-MAY-22
WG3722992-1	LCS							
Conductivity			97.3		%		90-110	03-MAY-22
WG3722754-1	MB							
Conductivity			<0.0040		mS/cm		0.004	03-MAY-22
F1-HS-511-WT		Soil						
Batch	R5771057							
WG3722801-4	DUP	WG3722801-3						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	04-MAY-22
WG3722801-2	LCS							
F1 (C6-C10)			104.1		%		80-120	04-MAY-22
WG3722801-1	MB							
F1 (C6-C10)			<5.0		ug/g		5	04-MAY-22
Surrogate: 3,4-Dichlorotoluene			84.7		%		60-140	04-MAY-22
WG3722801-5	MS	WG3722801-3						
F1 (C6-C10)			90.8		%		60-140	04-MAY-22
Batch	R5771266							
WG3722834-4	DUP	WG3722834-3						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	04-MAY-22
WG3722834-2	LCS							
F1 (C6-C10)			107.3		%		80-120	03-MAY-22
WG3722834-1	MB							
F1 (C6-C10)			<5.0		ug/g		5	03-MAY-22
Surrogate: 3,4-Dichlorotoluene			104.2		%		60-140	03-MAY-22
WG3722834-5	MS	WG3722834-3						
F1 (C6-C10)			104.5		%		60-140	04-MAY-22
F2-F4-511-WT		Soil						



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 4 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT		Soil						
Batch	R5770876							
WG3721697-33	DUP	WG3721697-35						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	40	03-MAY-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	40	03-MAY-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	40	03-MAY-22
WG3721697-32	LCS							
F2 (C10-C16)			92.7		%		70-130	03-MAY-22
F3 (C16-C34)			96.9		%		70-130	03-MAY-22
F4 (C34-C50)			99.8		%		70-130	03-MAY-22
WG3721697-31	MB							
F2 (C10-C16)			<10		ug/g		10	03-MAY-22
F3 (C16-C34)			<50		ug/g		50	03-MAY-22
F4 (C34-C50)			<50		ug/g		50	03-MAY-22
Surrogate: 2-Bromobenzotrifluoride			91.7		%		60-140	03-MAY-22
WG3721697-34	MS	WG3721697-35						
F2 (C10-C16)			88.3		%		60-140	03-MAY-22
F3 (C16-C34)			96.4		%		60-140	03-MAY-22
F4 (C34-C50)			101.5		%		60-140	03-MAY-22
Batch	R5771016							
WG3721698-3	DUP	WG3721698-5						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	40	04-MAY-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	40	04-MAY-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	40	04-MAY-22
WG3721698-2	LCS							
F2 (C10-C16)			86.4		%		70-130	04-MAY-22
F3 (C16-C34)			93.0		%		70-130	04-MAY-22
F4 (C34-C50)			92.2		%		70-130	04-MAY-22
WG3721698-1	MB							
F2 (C10-C16)			<10		ug/g		10	04-MAY-22
F3 (C16-C34)			<50		ug/g		50	04-MAY-22
F4 (C34-C50)			<50		ug/g		50	04-MAY-22
Surrogate: 2-Bromobenzotrifluoride			83.1		%		60-140	04-MAY-22
WG3721698-4	MS	WG3721698-5						
F2 (C10-C16)			87.2		%		60-140	04-MAY-22
F3 (C16-C34)			96.0		%		60-140	04-MAY-22
F4 (C34-C50)			94.2		%		60-140	04-MAY-22

MET-200.2-CCMS-WT **Soil**



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 6 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5770801							
WG3722443-2	CRM	WT-SS-2						
Antimony (Sb)			105.2		%		70-130	02-MAY-22
Arsenic (As)			110.5		%		70-130	02-MAY-22
Barium (Ba)			112.9		%		70-130	02-MAY-22
Beryllium (Be)			120.4		%		70-130	02-MAY-22
Boron (B)			10.9		mg/kg		3.5-13.5	02-MAY-22
Cadmium (Cd)			121.8		%		70-130	02-MAY-22
Chromium (Cr)			113.1		%		70-130	02-MAY-22
Cobalt (Co)			114.0		%		70-130	02-MAY-22
Copper (Cu)			112.8		%		70-130	02-MAY-22
Lead (Pb)			116.0		%		70-130	02-MAY-22
Molybdenum (Mo)			107.7		%		70-130	02-MAY-22
Nickel (Ni)			115.4		%		70-130	02-MAY-22
Selenium (Se)			0.14		mg/kg		0-0.34	02-MAY-22
Silver (Ag)			102.3		%		70-130	02-MAY-22
Thallium (Tl)			0.082		mg/kg		0.029-0.129	02-MAY-22
Uranium (U)			105.0		%		70-130	02-MAY-22
Vanadium (V)			116.5		%		70-130	02-MAY-22
Zinc (Zn)			109.2		%		70-130	02-MAY-22
WG3722443-6	DUP	WG3722443-5						
Antimony (Sb)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	02-MAY-22
Arsenic (As)		2.68	2.96		ug/g	9.9	30	02-MAY-22
Barium (Ba)		33.9	36.8		ug/g	8.3	40	02-MAY-22
Beryllium (Be)		0.29	0.36		ug/g	22	30	02-MAY-22
Boron (B)		6.6	8.1		ug/g	20	30	02-MAY-22
Cadmium (Cd)		0.275	0.303		ug/g	9.7	30	02-MAY-22
Chromium (Cr)		10.9	12.2		ug/g	12	30	02-MAY-22
Cobalt (Co)		3.93	4.27		ug/g	8.4	30	02-MAY-22
Copper (Cu)		10.5	11.3		ug/g	7.8	30	02-MAY-22
Lead (Pb)		17.7	20.0		ug/g	12	40	02-MAY-22
Molybdenum (Mo)		0.25	0.29		ug/g	16	40	02-MAY-22
Nickel (Ni)		7.89	8.80		ug/g	11	30	02-MAY-22
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	02-MAY-22
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	02-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 7 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5770801							
WG3722443-6	DUP	WG3722443-5						
Thallium (Tl)		0.064	0.075		ug/g	15	30	02-MAY-22
Uranium (U)		0.424	0.459		ug/g	8.0	30	02-MAY-22
Vanadium (V)		20.4	22.5		ug/g	10	30	02-MAY-22
Zinc (Zn)		115	126		ug/g	9.1	30	02-MAY-22
WG3722443-4	LCS							
Antimony (Sb)			96.9		%		80-120	02-MAY-22
Arsenic (As)			99.9		%		80-120	02-MAY-22
Barium (Ba)			96.5		%		80-120	02-MAY-22
Beryllium (Be)			93.3		%		80-120	02-MAY-22
Boron (B)			91.8		%		80-120	02-MAY-22
Cadmium (Cd)			96.8		%		80-120	02-MAY-22
Chromium (Cr)			98.9		%		80-120	02-MAY-22
Cobalt (Co)			100.2		%		80-120	02-MAY-22
Copper (Cu)			98.6		%		80-120	02-MAY-22
Lead (Pb)			95.9		%		80-120	02-MAY-22
Molybdenum (Mo)			93.5		%		80-120	02-MAY-22
Nickel (Ni)			97.8		%		80-120	02-MAY-22
Selenium (Se)			97.5		%		80-120	02-MAY-22
Silver (Ag)			87.5		%		80-120	02-MAY-22
Thallium (Tl)			93.4		%		80-120	02-MAY-22
Uranium (U)			91.0		%		80-120	02-MAY-22
Vanadium (V)			103.0		%		80-120	02-MAY-22
Zinc (Zn)			95.8		%		80-120	02-MAY-22
WG3722443-1	MB							
Antimony (Sb)			<0.10		mg/kg		0.1	02-MAY-22
Arsenic (As)			<0.10		mg/kg		0.1	02-MAY-22
Barium (Ba)			<0.50		mg/kg		0.5	02-MAY-22
Beryllium (Be)			<0.10		mg/kg		0.1	02-MAY-22
Boron (B)			<5.0		mg/kg		5	02-MAY-22
Cadmium (Cd)			<0.020		mg/kg		0.02	02-MAY-22
Chromium (Cr)			<0.50		mg/kg		0.5	02-MAY-22
Cobalt (Co)			<0.10		mg/kg		0.1	02-MAY-22
Copper (Cu)			<0.50		mg/kg		0.5	02-MAY-22
Lead (Pb)			<0.50		mg/kg		0.5	02-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 8 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT								
Soil								
Batch R5770801								
WG3722443-1 MB								
Molybdenum (Mo)			<0.10		mg/kg		0.1	02-MAY-22
Nickel (Ni)			<0.50		mg/kg		0.5	02-MAY-22
Selenium (Se)			<0.20		mg/kg		0.2	02-MAY-22
Silver (Ag)			<0.10		mg/kg		0.1	02-MAY-22
Thallium (Tl)			<0.050		mg/kg		0.05	02-MAY-22
Uranium (U)			<0.050		mg/kg		0.05	02-MAY-22
Vanadium (V)			<0.20		mg/kg		0.2	02-MAY-22
Zinc (Zn)			<2.0		mg/kg		2	02-MAY-22
Batch R5770856								
WG3722752-2 CRM								
WT-SS-2								
Antimony (Sb)			91.9		%		70-130	03-MAY-22
Arsenic (As)			96.7		%		70-130	03-MAY-22
Barium (Ba)			98.0		%		70-130	03-MAY-22
Beryllium (Be)			96.6		%		70-130	03-MAY-22
Boron (B)			8.1		mg/kg		3.5-13.5	03-MAY-22
Cadmium (Cd)			104.7		%		70-130	03-MAY-22
Chromium (Cr)			92.6		%		70-130	03-MAY-22
Cobalt (Co)			92.8		%		70-130	03-MAY-22
Copper (Cu)			96.7		%		70-130	03-MAY-22
Lead (Pb)			102.1		%		70-130	03-MAY-22
Molybdenum (Mo)			96.4		%		70-130	03-MAY-22
Nickel (Ni)			96.6		%		70-130	03-MAY-22
Selenium (Se)			0.09		mg/kg		0-0.34	03-MAY-22
Silver (Ag)			82.0		%		70-130	03-MAY-22
Thallium (Tl)			0.073		mg/kg		0.029-0.129	03-MAY-22
Uranium (U)			89.0		%		70-130	03-MAY-22
Vanadium (V)			95.4		%		70-130	03-MAY-22
Zinc (Zn)			92.3		%		70-130	03-MAY-22
WG3722752-6 DUP								
WG3722752-5								
Antimony (Sb)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	03-MAY-22
Arsenic (As)		4.06	3.43		ug/g	17	30	03-MAY-22
Barium (Ba)		88.6	72.7		ug/g	20	40	03-MAY-22
Beryllium (Be)		0.54	0.44		ug/g	20	30	03-MAY-22
Boron (B)		8.0	7.0		ug/g	14	30	03-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 10 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5770856							
WG3722752-1	MB							
Antimony (Sb)			<0.10		mg/kg		0.1	03-MAY-22
Arsenic (As)			<0.10		mg/kg		0.1	03-MAY-22
Barium (Ba)			<0.50		mg/kg		0.5	03-MAY-22
Beryllium (Be)			<0.10		mg/kg		0.1	03-MAY-22
Boron (B)			<5.0		mg/kg		5	03-MAY-22
Cadmium (Cd)			<0.020		mg/kg		0.02	03-MAY-22
Chromium (Cr)			<0.50		mg/kg		0.5	03-MAY-22
Cobalt (Co)			<0.10		mg/kg		0.1	03-MAY-22
Copper (Cu)			<0.50		mg/kg		0.5	03-MAY-22
Lead (Pb)			<0.50		mg/kg		0.5	03-MAY-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	03-MAY-22
Nickel (Ni)			<0.50		mg/kg		0.5	03-MAY-22
Selenium (Se)			<0.20		mg/kg		0.2	03-MAY-22
Silver (Ag)			<0.10		mg/kg		0.1	03-MAY-22
Thallium (Tl)			<0.050		mg/kg		0.05	03-MAY-22
Uranium (U)			<0.050		mg/kg		0.05	03-MAY-22
Vanadium (V)			<0.20		mg/kg		0.2	03-MAY-22
Zinc (Zn)			<2.0		mg/kg		2	03-MAY-22
MOISTURE-WT		Soil						
Batch	R5769636							
WG3721707-3	DUP	L2701892-11						
% Moisture		14.2	13.9		%	2.3	20	28-APR-22
WG3721707-2	LCS							
% Moisture			100.3		%		90-110	28-APR-22
WG3721707-1	MB							
% Moisture			<0.25		%		0.25	28-APR-22
Batch	R5769637							
WG3721717-3	DUP	L2701892-28						
% Moisture		10.2	10.0		%	2.0	20	28-APR-22
WG3721717-2	LCS							
% Moisture			102.5		%		90-110	28-APR-22
WG3721717-1	MB							
% Moisture			<0.25		%		0.25	28-APR-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 11 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT		Soil						
Batch	R5770144							
WG3722231-3	DUP	L2701892-9						
% Moisture		15.1	15.2		%	0.8	20	01-MAY-22
WG3722231-2	LCS		99.9		%		90-110	01-MAY-22
% Moisture								
WG3722231-1	MB		<0.25		%		0.25	01-MAY-22
% Moisture								
Batch	R5770176							
WG3722267-3	DUP	L2701057-2						
% Moisture		11.2	13.0		%	14	20	01-MAY-22
WG3722267-2	LCS		100.2		%		90-110	01-MAY-22
% Moisture								
WG3722267-1	MB		<0.25		%		0.25	01-MAY-22
% Moisture								
OCP-TRACE-WT		Soil						
Batch	R5770438							
WG3721700-8	DUP	WG3721700-10						
Aldrin		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	02-MAY-22
a-chlordane		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	02-MAY-22
g-chlordane		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	02-MAY-22
o,p-DDD		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	02-MAY-22
pp-DDD		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	02-MAY-22
o,p-DDE		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	02-MAY-22
pp-DDE		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	02-MAY-22
op-DDT		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	02-MAY-22
pp-DDT		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	02-MAY-22
Dieldrin		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	02-MAY-22
alpha-Endosulfan		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	02-MAY-22
beta-Endosulfan		<0.00030	<0.00030	RPD-NA	ug/g	N/A	50	02-MAY-22
Endrin		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	02-MAY-22
Heptachlor		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	02-MAY-22
Heptachlor Epoxide		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	02-MAY-22
Hexachlorobenzene		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	02-MAY-22
Hexachlorobutadiene		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	02-MAY-22
Hexachloroethane		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	02-MAY-22
Lindane		<0.00020	<0.00020	RPD-NA	ug/g	N/A	50	02-MAY-22

Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 12 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT		Soil						
Batch	R5770438							
WG3721700-8	DUP	WG3721700-10						
Methoxychlor		<0.00050	<0.00050	RPD-NA	ug/g	N/A	50	02-MAY-22
WG3721700-7	LCS							
Aldrin			110.1		%		50-150	02-MAY-22
a-chlordane			93.8		%		50-150	02-MAY-22
g-chlordane			120.6		%		50-150	02-MAY-22
o,p-DDD			98.2		%		50-150	02-MAY-22
pp-DDD			105.2		%		50-150	02-MAY-22
o,p-DDE			89.2		%		50-150	02-MAY-22
pp-DDE			164.6	LCS-H	%		50-150	02-MAY-22
op-DDT			93.8		%		50-150	02-MAY-22
pp-DDT			130.9		%		50-150	02-MAY-22
Dieldrin			99.1		%		50-150	02-MAY-22
alpha-Endosulfan			93.1		%		50-150	02-MAY-22
beta-Endosulfan			108.0		%		50-150	02-MAY-22
Endrin			93.7		%		50-150	02-MAY-22
Heptachlor			162.1	LCS-H	%		50-150	02-MAY-22
Heptachlor Epoxide			99.3		%		50-150	02-MAY-22
Hexachlorobenzene			100.9		%		50-150	02-MAY-22
Hexachlorobutadiene			75.1		%		50-150	02-MAY-22
Hexachloroethane			119.2		%		50-150	02-MAY-22
Lindane			110.3		%		50-150	02-MAY-22
Methoxychlor			79.8		%		50-150	02-MAY-22
WG3721700-6	MB							
Aldrin			<0.00020		ug/g		0.0002	02-MAY-22
a-chlordane			<0.00030		ug/g		0.0003	02-MAY-22
g-chlordane			<0.00030		ug/g		0.0003	02-MAY-22
o,p-DDD			<0.00030		ug/g		0.0003	02-MAY-22
pp-DDD			<0.00030		ug/g		0.0003	02-MAY-22
o,p-DDE			<0.00030		ug/g		0.0003	02-MAY-22
pp-DDE			<0.00030		ug/g		0.0003	02-MAY-22
op-DDT			<0.00030		ug/g		0.0003	02-MAY-22
pp-DDT			<0.00030		ug/g		0.0003	02-MAY-22
Dieldrin			<0.00020		ug/g		0.0002	02-MAY-22
alpha-Endosulfan			<0.00030		ug/g		0.0003	02-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 13 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-TRACE-WT		Soil						
Batch	R5770438							
WG3721700-6	MB							
beta-Endosulfan			<0.00030		ug/g		0.0003	02-MAY-22
Endrin			<0.00050		ug/g		0.0005	02-MAY-22
Heptachlor			<0.00020		ug/g		0.0002	02-MAY-22
Heptachlor Epoxide			<0.00020		ug/g		0.0002	02-MAY-22
Hexachlorobenzene			<0.00050		ug/g		0.0005	02-MAY-22
Hexachlorobutadiene			<0.00050		ug/g		0.0005	02-MAY-22
Hexachloroethane			<0.00050		ug/g		0.0005	02-MAY-22
Lindane			<0.00020		ug/g		0.0002	02-MAY-22
Methoxychlor			<0.00050		ug/g		0.0005	02-MAY-22
Surrogate: Tetrachloro-m-xylene			79.9		%		50-150	02-MAY-22
Surrogate: Decachlorobiphenyl			110.7		%		50-150	02-MAY-22
WG3721700-9	MS	WG3721700-10						
Aldrin			96.0		%		50-150	02-MAY-22
a-chlordane			53.7		%		50-150	02-MAY-22
g-chlordane			60.2		%		50-150	02-MAY-22
o,p-DDD			115.4		%		50-150	02-MAY-22
pp-DDD			127.7		%		50-150	02-MAY-22
o,p-DDE			51.3		%		50-150	02-MAY-22
pp-DDE			52.8		%		50-150	02-MAY-22
op-DDT			122.4		%		50-150	02-MAY-22
pp-DDT			123.7		%		50-150	02-MAY-22
Dieldrin			108.6		%		50-150	02-MAY-22
alpha-Endosulfan			61.0		%		50-150	02-MAY-22
beta-Endosulfan			107.4		%		50-150	02-MAY-22
Endrin			121.6		%		50-150	02-MAY-22
Heptachlor			95.7		%		50-150	02-MAY-22
Heptachlor Epoxide			58.5		%		50-150	02-MAY-22
Hexachlorobenzene			96.7		%		50-150	02-MAY-22
Hexachlorobutadiene			65.1		%		50-150	02-MAY-22
Hexachloroethane			144.7		%		50-150	02-MAY-22
Lindane			105.8		%		50-150	02-MAY-22
Methoxychlor			131.2		%		50-150	02-MAY-22

PAH-511-WT **Soil**



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 14 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT		Soil						
Batch	R5770398							
WG3721661-3 DUP		WG3721661-5						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	02-MAY-22
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	02-MAY-22
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-MAY-22
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-MAY-22
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-MAY-22
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-MAY-22
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-MAY-22
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-MAY-22
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-MAY-22
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-MAY-22
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-MAY-22
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-MAY-22
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-MAY-22
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-MAY-22
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-MAY-22
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	02-MAY-22
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	02-MAY-22
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-MAY-22
WG3721661-2 LCS								
1-Methylnaphthalene			88.0		%		50-140	02-MAY-22
2-Methylnaphthalene			89.8		%		50-140	02-MAY-22
Acenaphthene			87.6		%		50-140	02-MAY-22
Acenaphthylene			89.4		%		50-140	02-MAY-22
Anthracene			92.6		%		50-140	02-MAY-22
Benzo(a)anthracene			85.2		%		50-140	02-MAY-22
Benzo(a)pyrene			97.4		%		50-140	02-MAY-22
Benzo(b&j)fluoranthene			87.4		%		50-140	02-MAY-22
Benzo(g,h,i)perylene			86.8		%		50-140	02-MAY-22
Benzo(k)fluoranthene			87.2		%		50-140	02-MAY-22
Chrysene			92.7		%		50-140	02-MAY-22
Dibenz(a,h)anthracene			86.1		%		50-140	02-MAY-22
Fluoranthene			86.0		%		50-140	02-MAY-22
Fluorene			86.6		%		50-140	02-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 15 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT		Soil						
Batch	R5770398							
WG3721661-2	LCS							
Indeno(1,2,3-cd)pyrene			85.6		%		50-140	02-MAY-22
Naphthalene			90.5		%		50-140	02-MAY-22
Phenanthrene			89.0		%		50-140	02-MAY-22
Pyrene			85.5		%		50-140	02-MAY-22
WG3721661-1	MB							
1-Methylnaphthalene			<0.030		ug/g		0.03	02-MAY-22
2-Methylnaphthalene			<0.030		ug/g		0.03	02-MAY-22
Acenaphthene			<0.050		ug/g		0.05	02-MAY-22
Acenaphthylene			<0.050		ug/g		0.05	02-MAY-22
Anthracene			<0.050		ug/g		0.05	02-MAY-22
Benzo(a)anthracene			<0.050		ug/g		0.05	02-MAY-22
Benzo(a)pyrene			<0.050		ug/g		0.05	02-MAY-22
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	02-MAY-22
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	02-MAY-22
Benzo(k)fluoranthene			<0.050		ug/g		0.05	02-MAY-22
Chrysene			<0.050		ug/g		0.05	02-MAY-22
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	02-MAY-22
Fluoranthene			<0.050		ug/g		0.05	02-MAY-22
Fluorene			<0.050		ug/g		0.05	02-MAY-22
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	02-MAY-22
Naphthalene			<0.013		ug/g		0.013	02-MAY-22
Phenanthrene			<0.046		ug/g		0.046	02-MAY-22
Pyrene			<0.050		ug/g		0.05	02-MAY-22
Surrogate: 2-Fluorobiphenyl			87.3		%		50-140	02-MAY-22
Surrogate: d14-Terphenyl			80.5		%		50-140	02-MAY-22
WG3721661-4	MS	WG3721661-5						
1-Methylnaphthalene			92.3		%		50-140	02-MAY-22
2-Methylnaphthalene			95.1		%		50-140	02-MAY-22
Acenaphthene			94.0		%		50-140	02-MAY-22
Acenaphthylene			100.8		%		50-140	02-MAY-22
Anthracene			101.8		%		50-140	02-MAY-22
Benzo(a)anthracene			101.4		%		50-140	02-MAY-22
Benzo(a)pyrene			107.9		%		50-140	02-MAY-22
Benzo(b&j)fluoranthene			96.0		%		50-140	02-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 16 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT		Soil						
Batch	R5770398							
WG3721661-4 MS		WG3721661-5						
Benzo(g,h,i)perylene			88.7		%		50-140	02-MAY-22
Benzo(k)fluoranthene			92.9		%		50-140	02-MAY-22
Chrysene			95.0		%		50-140	02-MAY-22
Dibenz(a,h)anthracene			90.0		%		50-140	02-MAY-22
Fluoranthene			96.4		%		50-140	02-MAY-22
Fluorene			95.4		%		50-140	02-MAY-22
Indeno(1,2,3-cd)pyrene			90.3		%		50-140	02-MAY-22
Naphthalene			93.1		%		50-140	02-MAY-22
Phenanthrene			92.3		%		50-140	02-MAY-22
Pyrene			93.9		%		50-140	02-MAY-22
PH-WT		Soil						
Batch	R5770673							
WG3721598-1 DUP		L2701886-15						
pH		7.83	7.79	J	pH units	0.04	0.3	03-MAY-22
WG3722640-1 LCS			7.04		pH units		6.9-7.1	03-MAY-22
Batch	R5771177							
WG3721694-1 DUP		L2701928-7						
pH		7.49	7.27	J	pH units	0.22	0.3	04-MAY-22
WG3723418-1 LCS			7.09		pH units		6.9-7.1	04-MAY-22
SAR-R511-WT		Soil						
Batch	R5770504							
WG3722516-34 DUP		WG3722516-33						
Calcium (Ca)		9.61	10.1		mg/L	5.0	30	02-MAY-22
Sodium (Na)		19.2	19.3		mg/L	0.5	30	02-MAY-22
Magnesium (Mg)		2.01	2.14		mg/L	6.3	30	02-MAY-22
WG3722516-32 IRM		WT SAR4						
Calcium (Ca)			112.3		%		70-130	02-MAY-22
Sodium (Na)			104.9		%		70-130	02-MAY-22
Magnesium (Mg)			111.3		%		70-130	02-MAY-22
WG3722516-35 LCS								
Calcium (Ca)			102.7		%		80-120	02-MAY-22
Sodium (Na)			100.2		%		80-120	02-MAY-22
Magnesium (Mg)			101.0		%		80-120	02-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 17 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAR-R511-WT								
Soil								
Batch R5770504								
WG3722516-31 MB								
Calcium (Ca)			<0.50		mg/L		0.5	02-MAY-22
Sodium (Na)			<0.50		mg/L		0.5	02-MAY-22
Magnesium (Mg)			<0.50		mg/L		0.5	02-MAY-22
Batch R5770826								
WG3722754-4 DUP								
		WG3722754-3						
Calcium (Ca)		48.0	48.4		mg/L	0.8	30	03-MAY-22
Sodium (Na)		63.5	63.4		mg/L	0.2	30	03-MAY-22
Magnesium (Mg)		7.31	7.40		mg/L	1.2	30	03-MAY-22
WG3722754-2 IRM								
		WT SAR4						
Calcium (Ca)			124.8		%		70-130	03-MAY-22
Sodium (Na)			99.0		%		70-130	03-MAY-22
Magnesium (Mg)			122.1		%		70-130	03-MAY-22
WG3722754-5 LCS								
Calcium (Ca)			101.0		%		80-120	03-MAY-22
Sodium (Na)			98.4		%		80-120	03-MAY-22
Magnesium (Mg)			100.0		%		80-120	03-MAY-22
WG3722754-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	03-MAY-22
Sodium (Na)			<0.50		mg/L		0.5	03-MAY-22
Magnesium (Mg)			<0.50		mg/L		0.5	03-MAY-22
VOC-511-HS-WT								
Soil								
Batch R5771266								
WG3722834-4 DUP								
		WG3722834-3						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
1,1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
1,1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
1,1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 18 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5771266							
WG3722834-4	DUP	WG3722834-3						
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	04-MAY-22
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	04-MAY-22
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	04-MAY-22
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	04-MAY-22
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	04-MAY-22
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	04-MAY-22
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	04-MAY-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-MAY-22
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	04-MAY-22
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	04-MAY-22
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	04-MAY-22
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	04-MAY-22
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-MAY-22
WG3722834-2	LCS							
1,1,1,2-Tetrachloroethane			94.1		%		60-130	03-MAY-22
1,1,2,2-Tetrachloroethane			85.7		%		60-130	03-MAY-22
1,1,1-Trichloroethane			102.2		%		60-130	03-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 19 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5771266							
WG3722834-2	LCS							
1,1,2-Trichloroethane			90.8		%		60-130	03-MAY-22
1,1-Dichloroethane			116.0		%		60-130	03-MAY-22
1,1-Dichloroethylene			96.5		%		60-130	03-MAY-22
1,2-Dibromoethane			82.5		%		70-130	03-MAY-22
1,2-Dichlorobenzene			98.7		%		70-130	03-MAY-22
1,2-Dichloroethane			92.7		%		60-130	03-MAY-22
1,2-Dichloropropane			95.6		%		70-130	03-MAY-22
1,3-Dichlorobenzene			104.0		%		70-130	03-MAY-22
1,4-Dichlorobenzene			106.3		%		70-130	03-MAY-22
Acetone			100.9		%		60-140	03-MAY-22
Benzene			103.2		%		70-130	03-MAY-22
Bromodichloromethane			105.6		%		50-140	03-MAY-22
Bromoform			99.7		%		70-130	03-MAY-22
Bromomethane			75.8		%		50-140	03-MAY-22
Carbon tetrachloride			103.1		%		70-130	03-MAY-22
Chlorobenzene			101.4		%		70-130	03-MAY-22
Chloroform			102.6		%		70-130	03-MAY-22
cis-1,2-Dichloroethylene			87.8		%		70-130	03-MAY-22
cis-1,3-Dichloropropene			78.0		%		70-130	03-MAY-22
Dibromochloromethane			93.3		%		60-130	03-MAY-22
Dichlorodifluoromethane			77.3		%		50-140	03-MAY-22
Ethylbenzene			94.6		%		70-130	03-MAY-22
n-Hexane			100.2		%		70-130	03-MAY-22
Methylene Chloride			103.7		%		70-130	03-MAY-22
MTBE			104.5		%		70-130	03-MAY-22
m+p-Xylenes			102.4		%		70-130	03-MAY-22
Methyl Ethyl Ketone			75.0		%		60-140	03-MAY-22
Methyl Isobutyl Ketone			71.6		%		60-140	03-MAY-22
o-Xylene			93.7		%		70-130	03-MAY-22
Styrene			94.7		%		70-130	03-MAY-22
Tetrachloroethylene			99.2		%		60-130	03-MAY-22
Toluene			92.9		%		70-130	03-MAY-22
trans-1,2-Dichloroethylene			109.4		%		60-130	03-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 20 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5771266							
WG3722834-2	LCS							
trans-1,3-Dichloropropene			58.1	LCS-L	%		70-130	03-MAY-22
Trichloroethylene			99.4		%		60-130	03-MAY-22
Trichlorofluoromethane			95.8		%		50-140	03-MAY-22
Vinyl chloride			82.2		%		60-140	03-MAY-22
WG3722834-1	MB							
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	03-MAY-22
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	03-MAY-22
1,1,1-Trichloroethane			<0.050		ug/g		0.05	03-MAY-22
1,1,2-Trichloroethane			<0.050		ug/g		0.05	03-MAY-22
1,1-Dichloroethane			<0.050		ug/g		0.05	03-MAY-22
1,1-Dichloroethylene			<0.050		ug/g		0.05	03-MAY-22
1,2-Dibromoethane			<0.050		ug/g		0.05	03-MAY-22
1,2-Dichlorobenzene			<0.050		ug/g		0.05	03-MAY-22
1,2-Dichloroethane			<0.050		ug/g		0.05	03-MAY-22
1,2-Dichloropropane			<0.050		ug/g		0.05	03-MAY-22
1,3-Dichlorobenzene			<0.050		ug/g		0.05	03-MAY-22
1,4-Dichlorobenzene			<0.050		ug/g		0.05	03-MAY-22
Acetone			<0.50		ug/g		0.5	03-MAY-22
Benzene			<0.0068		ug/g		0.0068	03-MAY-22
Bromodichloromethane			<0.050		ug/g		0.05	03-MAY-22
Bromoform			<0.050		ug/g		0.05	03-MAY-22
Bromomethane			<0.050		ug/g		0.05	03-MAY-22
Carbon tetrachloride			<0.050		ug/g		0.05	03-MAY-22
Chlorobenzene			<0.050		ug/g		0.05	03-MAY-22
Chloroform			<0.050		ug/g		0.05	03-MAY-22
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	03-MAY-22
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	03-MAY-22
Dibromochloromethane			<0.050		ug/g		0.05	03-MAY-22
Dichlorodifluoromethane			<0.050		ug/g		0.05	03-MAY-22
Ethylbenzene			<0.018		ug/g		0.018	03-MAY-22
n-Hexane			<0.050		ug/g		0.05	03-MAY-22
Methylene Chloride			<0.050		ug/g		0.05	03-MAY-22
MTBE			<0.050		ug/g		0.05	03-MAY-22
m+p-Xylenes			<0.030		ug/g		0.03	03-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 21 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5771266							
WG3722834-1 MB								
Methyl Ethyl Ketone			<0.50		ug/g		0.5	03-MAY-22
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	03-MAY-22
o-Xylene			<0.020		ug/g		0.02	03-MAY-22
Styrene			<0.050		ug/g		0.05	03-MAY-22
Tetrachloroethylene			<0.050		ug/g		0.05	03-MAY-22
Toluene			<0.080		ug/g		0.08	03-MAY-22
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	03-MAY-22
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	03-MAY-22
Trichloroethylene			<0.010		ug/g		0.01	03-MAY-22
Trichlorofluoromethane			<0.050		ug/g		0.05	03-MAY-22
Vinyl chloride			<0.020		ug/g		0.02	03-MAY-22
Surrogate: 1,4-Difluorobenzene			104.5		%		50-140	03-MAY-22
Surrogate: 4-Bromofluorobenzene			100.6		%		50-140	03-MAY-22
WG3722834-5 MS		WG3722834-3						
1,1,1,2-Tetrachloroethane			97.9		%		50-140	04-MAY-22
1,1,2,2-Tetrachloroethane			92.6		%		50-140	04-MAY-22
1,1,1-Trichloroethane			105.5		%		50-140	04-MAY-22
1,1,2-Trichloroethane			96.0		%		50-140	04-MAY-22
1,1-Dichloroethane			119.3		%		50-140	04-MAY-22
1,1-Dichloroethylene			108.5		%		50-140	04-MAY-22
1,2-Dibromoethane			88.9		%		50-140	04-MAY-22
1,2-Dichlorobenzene			102.7		%		50-140	04-MAY-22
1,2-Dichloroethane			98.2		%		50-140	04-MAY-22
1,2-Dichloropropane			100.1		%		50-140	04-MAY-22
1,3-Dichlorobenzene			106.5		%		50-140	04-MAY-22
1,4-Dichlorobenzene			106.3		%		50-140	04-MAY-22
Acetone			99.8		%		50-140	04-MAY-22
Benzene			103.0		%		50-140	04-MAY-22
Bromodichloromethane			106.4		%		50-140	04-MAY-22
Bromoform			113.1		%		50-140	04-MAY-22
Bromomethane			103.1		%		50-140	04-MAY-22
Carbon tetrachloride			105.6		%		50-140	04-MAY-22
Chlorobenzene			105.2		%		50-140	04-MAY-22
Chloroform			105.8		%		50-140	04-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 22 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5771266							
WG3722834-5 MS		WG3722834-3						
cis-1,2-Dichloroethylene			92.4		%		50-140	04-MAY-22
cis-1,3-Dichloropropene			99.0		%		50-140	04-MAY-22
Dibromochloromethane			93.8		%		50-140	04-MAY-22
Dichlorodifluoromethane			128.9		%		50-140	04-MAY-22
Ethylbenzene			98.1		%		50-140	04-MAY-22
n-Hexane			111.3		%		50-140	04-MAY-22
Methylene Chloride			108.8		%		50-140	04-MAY-22
MTBE			108.5		%		50-140	04-MAY-22
m+p-Xylenes			105.3		%		50-140	04-MAY-22
Methyl Ethyl Ketone			82.1		%		50-140	04-MAY-22
Methyl Isobutyl Ketone			79.0		%		50-140	04-MAY-22
o-Xylene			98.8		%		50-140	04-MAY-22
Styrene			87.2		%		50-140	04-MAY-22
Tetrachloroethylene			100.6		%		50-140	04-MAY-22
Toluene			95.4		%		50-140	04-MAY-22
trans-1,2-Dichloroethylene			116.1		%		50-140	04-MAY-22
trans-1,3-Dichloropropene			90.2		%		50-140	04-MAY-22
Trichloroethylene			100.8		%		50-140	04-MAY-22
Trichlorofluoromethane			109.2		%		50-140	04-MAY-22
Vinyl chloride			112.5		%		50-140	04-MAY-22
Batch	R5771478							
WG3723261-4 DUP		WG3723261-3						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 23 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5771478							
WG3723261-4 DUP		WG3723261-3						
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	05-MAY-22
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	05-MAY-22
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	05-MAY-22
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	05-MAY-22
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	05-MAY-22
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	05-MAY-22
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	05-MAY-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	05-MAY-22
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	05-MAY-22
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	05-MAY-22
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	05-MAY-22
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-22
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	05-MAY-22
WG3723261-2 LCS								
1,1,1,2-Tetrachloroethane			105.2		%		60-130	05-MAY-22
1,1,2,2-Tetrachloroethane			111.1		%		60-130	05-MAY-22
1,1,1-Trichloroethane			106.7		%		60-130	05-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 24 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5771478							
WG3723261-2	LCS							
1,1,2-Trichloroethane			100.2		%		60-130	05-MAY-22
1,1-Dichloroethane			110.1		%		60-130	05-MAY-22
1,1-Dichloroethylene			103.9		%		60-130	05-MAY-22
1,2-Dibromoethane			99.3		%		70-130	05-MAY-22
1,2-Dichlorobenzene			101.8		%		70-130	05-MAY-22
1,2-Dichloroethane			115.5		%		60-130	05-MAY-22
1,2-Dichloropropane			113.0		%		70-130	05-MAY-22
1,3-Dichlorobenzene			100.0		%		70-130	05-MAY-22
1,4-Dichlorobenzene			102.3		%		70-130	05-MAY-22
Acetone			111.5		%		60-140	05-MAY-22
Benzene			113.6		%		70-130	05-MAY-22
Bromodichloromethane			121.6		%		50-140	05-MAY-22
Bromoform			95.7		%		70-130	05-MAY-22
Bromomethane			99.9		%		50-140	05-MAY-22
Carbon tetrachloride			108.8		%		70-130	05-MAY-22
Chlorobenzene			108.5		%		70-130	05-MAY-22
Chloroform			113.9		%		70-130	05-MAY-22
cis-1,2-Dichloroethylene			106.0		%		70-130	05-MAY-22
cis-1,3-Dichloropropene			111.5		%		70-130	05-MAY-22
Dibromochloromethane			103.5		%		60-130	05-MAY-22
Dichlorodifluoromethane			77.6		%		50-140	05-MAY-22
Ethylbenzene			96.1		%		70-130	05-MAY-22
n-Hexane			103.2		%		70-130	05-MAY-22
Methylene Chloride			105.4		%		70-130	05-MAY-22
MTBE			105.3		%		70-130	05-MAY-22
m+p-Xylenes			103.9		%		70-130	05-MAY-22
Methyl Ethyl Ketone			108.7		%		60-140	05-MAY-22
Methyl Isobutyl Ketone			105.2		%		60-140	05-MAY-22
o-Xylene			101.4		%		70-130	05-MAY-22
Styrene			100.9		%		70-130	05-MAY-22
Tetrachloroethylene			93.5		%		60-130	05-MAY-22
Toluene			103.1		%		70-130	05-MAY-22
trans-1,2-Dichloroethylene			113.3		%		60-130	05-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 25 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5771478							
WG3723261-2	LCS							
trans-1,3-Dichloropropene			105.4		%		70-130	05-MAY-22
Trichloroethylene			108.4		%		60-130	05-MAY-22
Trichlorofluoromethane			99.9		%		50-140	05-MAY-22
Vinyl chloride			85.8		%		60-140	05-MAY-22
WG3723261-1	MB							
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	05-MAY-22
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	05-MAY-22
1,1,1-Trichloroethane			<0.050		ug/g		0.05	05-MAY-22
1,1,2-Trichloroethane			<0.050		ug/g		0.05	05-MAY-22
1,1-Dichloroethane			<0.050		ug/g		0.05	05-MAY-22
1,1-Dichloroethylene			<0.050		ug/g		0.05	05-MAY-22
1,2-Dibromoethane			<0.050		ug/g		0.05	05-MAY-22
1,2-Dichlorobenzene			<0.050		ug/g		0.05	05-MAY-22
1,2-Dichloroethane			<0.050		ug/g		0.05	05-MAY-22
1,2-Dichloropropane			<0.050		ug/g		0.05	05-MAY-22
1,3-Dichlorobenzene			<0.050		ug/g		0.05	05-MAY-22
1,4-Dichlorobenzene			<0.050		ug/g		0.05	05-MAY-22
Acetone			<0.50		ug/g		0.5	05-MAY-22
Benzene			<0.0068		ug/g		0.0068	05-MAY-22
Bromodichloromethane			<0.050		ug/g		0.05	05-MAY-22
Bromoform			<0.050		ug/g		0.05	05-MAY-22
Bromomethane			<0.050		ug/g		0.05	05-MAY-22
Carbon tetrachloride			<0.050		ug/g		0.05	05-MAY-22
Chlorobenzene			<0.050		ug/g		0.05	05-MAY-22
Chloroform			<0.050		ug/g		0.05	05-MAY-22
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	05-MAY-22
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	05-MAY-22
Dibromochloromethane			<0.050		ug/g		0.05	05-MAY-22
Dichlorodifluoromethane			<0.050		ug/g		0.05	05-MAY-22
Ethylbenzene			<0.018		ug/g		0.018	05-MAY-22
n-Hexane			<0.050		ug/g		0.05	05-MAY-22
Methylene Chloride			<0.050		ug/g		0.05	05-MAY-22
MTBE			<0.050		ug/g		0.05	05-MAY-22
m+p-Xylenes			<0.030		ug/g		0.03	05-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 26 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5771478							
WG3723261-1 MB								
Methyl Ethyl Ketone			<0.50		ug/g		0.5	05-MAY-22
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	05-MAY-22
o-Xylene			<0.020		ug/g		0.02	05-MAY-22
Styrene			<0.050		ug/g		0.05	05-MAY-22
Tetrachloroethylene			<0.050		ug/g		0.05	05-MAY-22
Toluene			<0.080		ug/g		0.08	05-MAY-22
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	05-MAY-22
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	05-MAY-22
Trichloroethylene			<0.010		ug/g		0.01	05-MAY-22
Trichlorofluoromethane			<0.050		ug/g		0.05	05-MAY-22
Vinyl chloride			<0.020		ug/g		0.02	05-MAY-22
Surrogate: 1,4-Difluorobenzene			111.9		%		50-140	05-MAY-22
Surrogate: 4-Bromofluorobenzene			87.5		%		50-140	05-MAY-22
WG3723261-5 MS		WG3723261-3						
1,1,1,2-Tetrachloroethane			115.1		%		50-140	05-MAY-22
1,1,2,2-Tetrachloroethane			123.4		%		50-140	05-MAY-22
1,1,1-Trichloroethane			121.5		%		50-140	05-MAY-22
1,1,2-Trichloroethane			107.2		%		50-140	05-MAY-22
1,1-Dichloroethane			126.0		%		50-140	05-MAY-22
1,1-Dichloroethylene			128.8		%		50-140	05-MAY-22
1,2-Dibromoethane			106.1		%		50-140	05-MAY-22
1,2-Dichlorobenzene			111.5		%		50-140	05-MAY-22
1,2-Dichloroethane			129.5		%		50-140	05-MAY-22
1,2-Dichloropropane			126.5		%		50-140	05-MAY-22
1,3-Dichlorobenzene			107.7		%		50-140	05-MAY-22
1,4-Dichlorobenzene			108.8		%		50-140	05-MAY-22
Acetone			131.0		%		50-140	05-MAY-22
Benzene			123.3		%		50-140	05-MAY-22
Bromodichloromethane			132.6		%		50-140	05-MAY-22
Bromoform			107.8		%		50-140	05-MAY-22
Bromomethane			119.7		%		50-140	05-MAY-22
Carbon tetrachloride			124.5		%		50-140	05-MAY-22
Chlorobenzene			117.1		%		50-140	05-MAY-22
Chloroform			128.9		%		50-140	05-MAY-22



Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Page 27 of 28

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3

Contact: James Rybicki

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5771478							
WG3723261-5	MS	WG3723261-3						
cis-1,2-Dichloroethylene			120.9		%		50-140	05-MAY-22
cis-1,3-Dichloropropene			114.1		%		50-140	05-MAY-22
Dibromochloromethane			106.2		%		50-140	05-MAY-22
Dichlorodifluoromethane			113.4		%		50-140	05-MAY-22
Ethylbenzene			102.4		%		50-140	05-MAY-22
n-Hexane			127.2		%		50-140	05-MAY-22
Methylene Chloride			120.6		%		50-140	05-MAY-22
MTBE			112.9		%		50-140	05-MAY-22
m+p-Xylenes			112.5		%		50-140	05-MAY-22
Methyl Ethyl Ketone			118.1		%		50-140	05-MAY-22
Methyl Isobutyl Ketone			109.8		%		50-140	05-MAY-22
o-Xylene			108.7		%		50-140	05-MAY-22
Styrene			93.4		%		50-140	05-MAY-22
Tetrachloroethylene			98.8		%		50-140	05-MAY-22
Toluene			109.1		%		50-140	05-MAY-22
trans-1,2-Dichloroethylene			132.5		%		50-140	05-MAY-22
trans-1,3-Dichloropropene			106.8		%		50-140	05-MAY-22
Trichloroethylene			120.2		%		50-140	05-MAY-22
Trichlorofluoromethane			125.8		%		50-140	05-MAY-22
Vinyl chloride			119.5		%		50-140	05-MAY-22

Quality Control Report

Workorder: L2701892

Report Date: 16-JUN-22

Client: Grounded Engineering Inc
1 Banigan Drive
TORONTO ON M4H 1G3
Contact: James Rybicki

Page 28 of 28

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
LCS-L	Lab Control Sample recovery was below ALS DQO. Reference Material and/or Matrix Spike results were acceptable. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.
SURQC	Surrogate recovery marginally exceeded DQO in QC sample (MB, LCS, RM, or MS). Surrogates are less important for QC samples than for test samples. Refer to regular (non-surrogate) analyte results in affected QC sample for assessment of potential impacts to those analytes.

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.

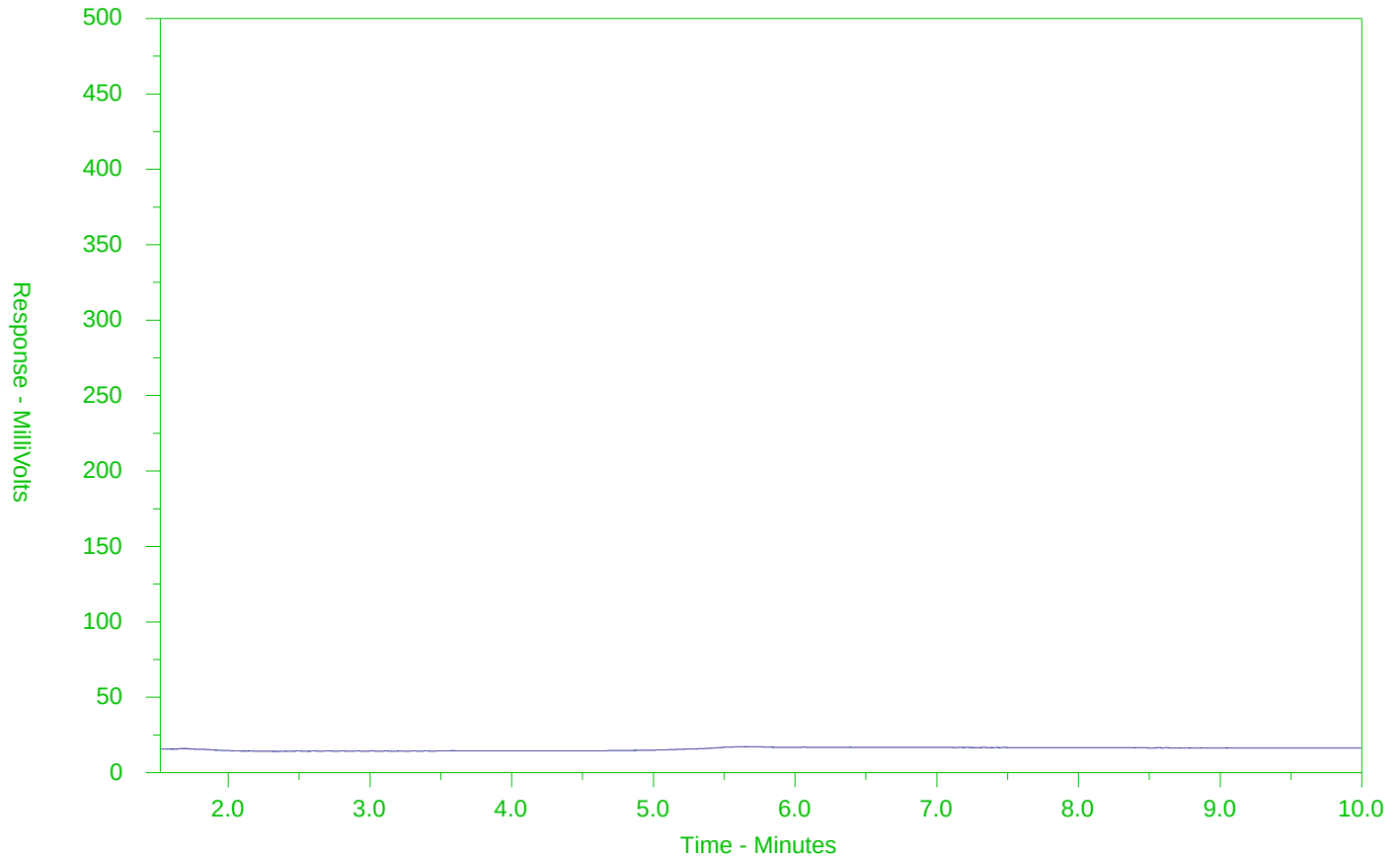
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide 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: L2701892-3
Client Sample ID: BH106 SS4



← 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.

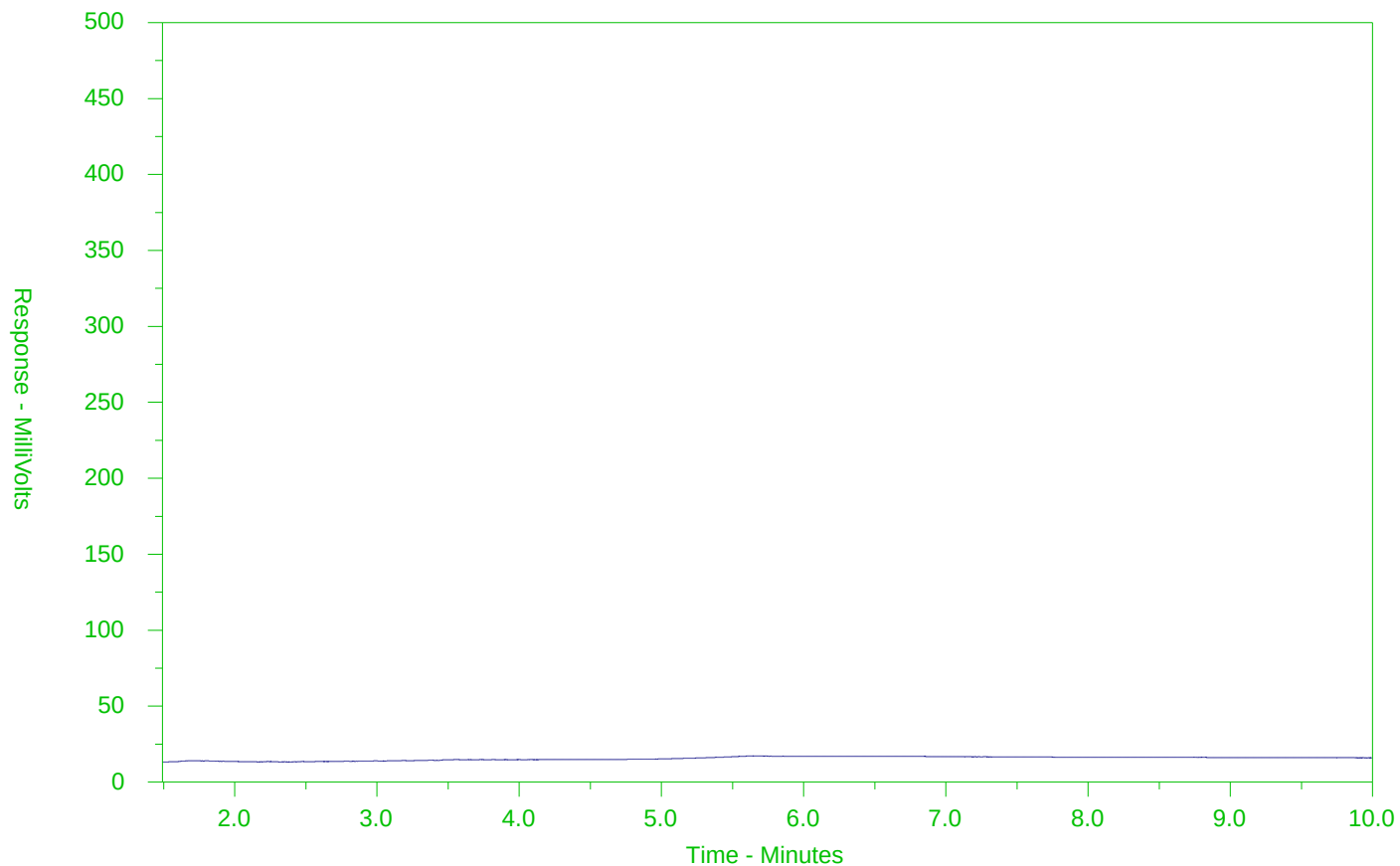
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2701892-7
Client Sample ID: BH105 SS4



← 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.

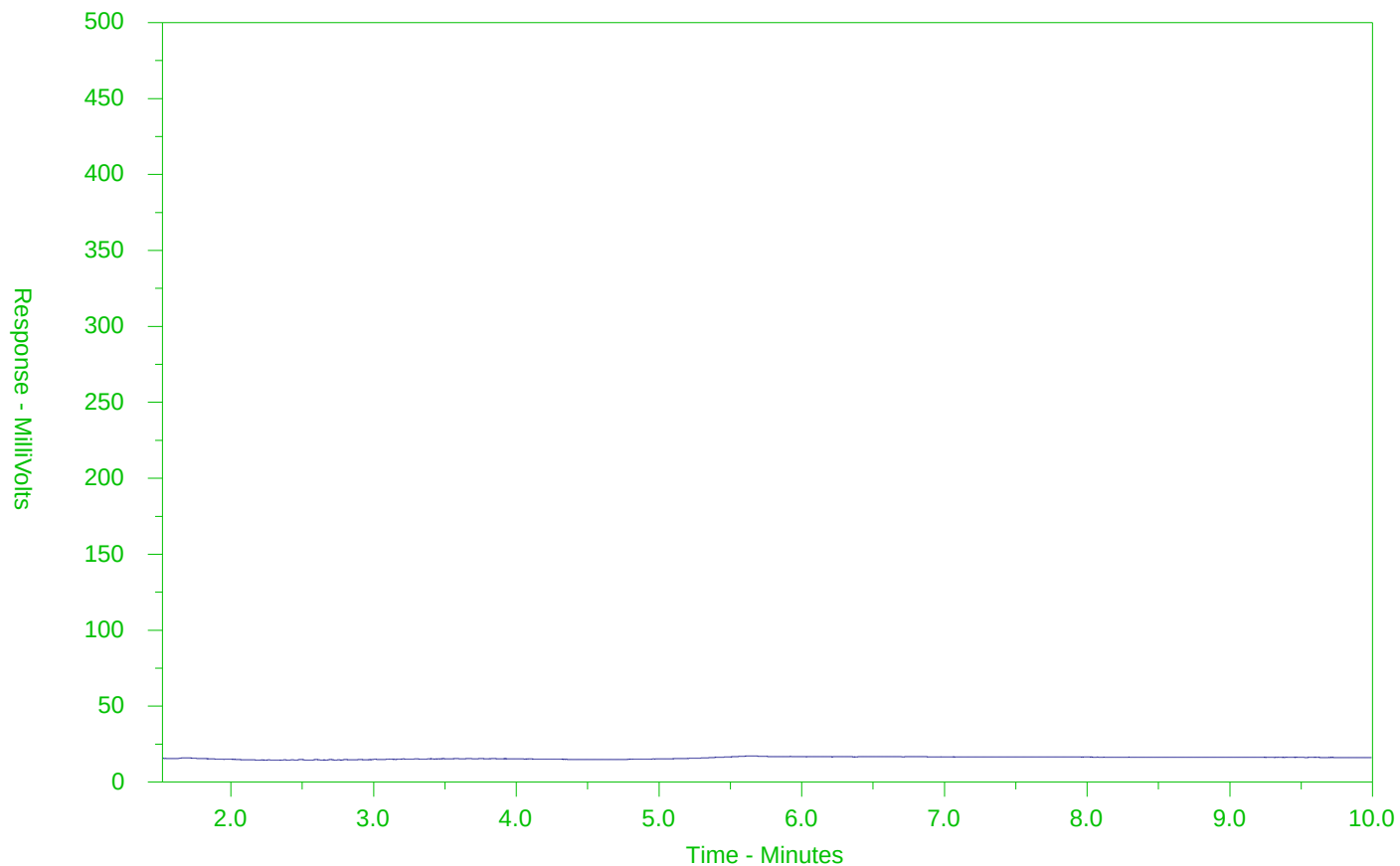
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2701892-11
Client Sample ID: BH109 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.

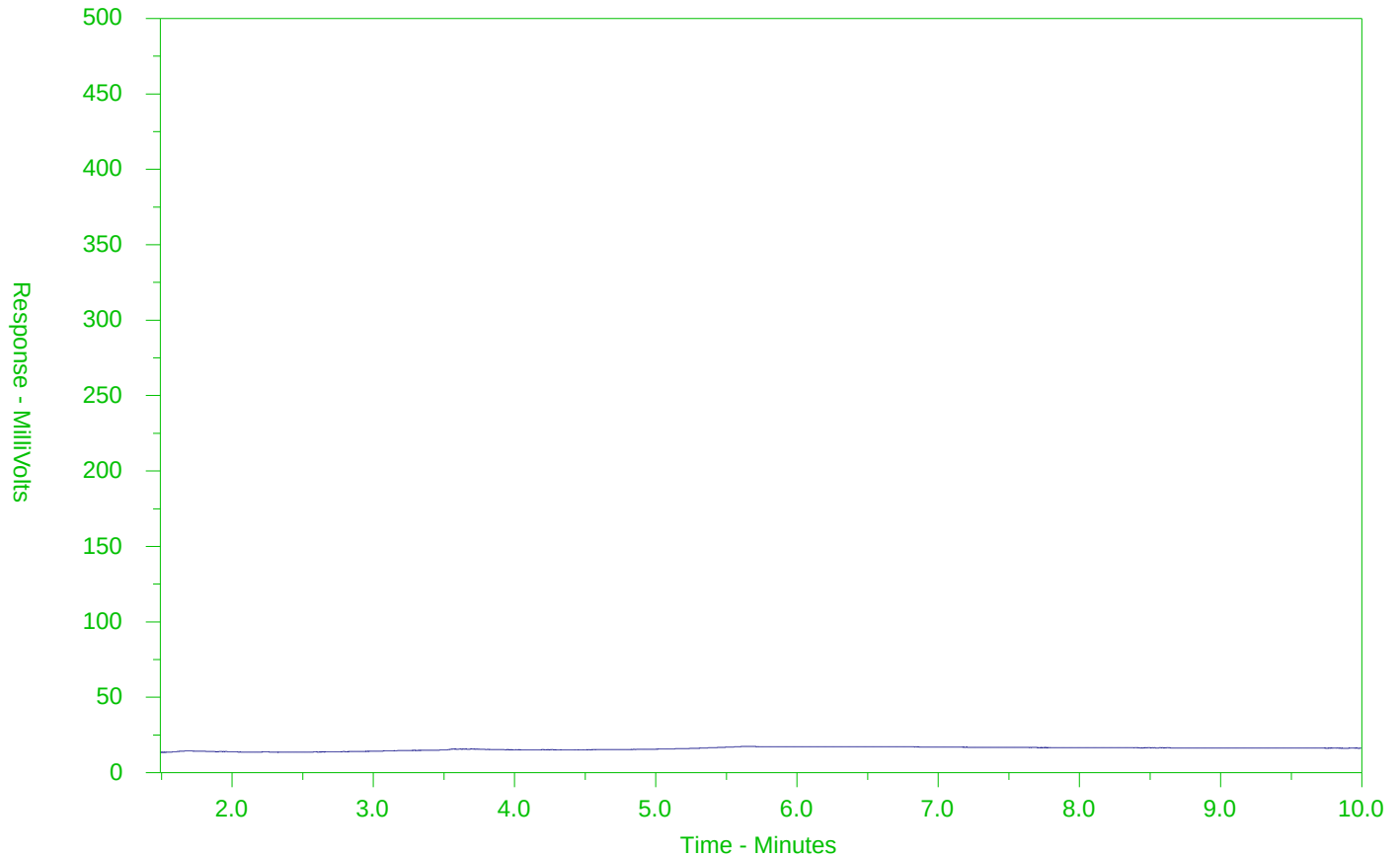
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2701892-12
Client Sample ID: BH109 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.

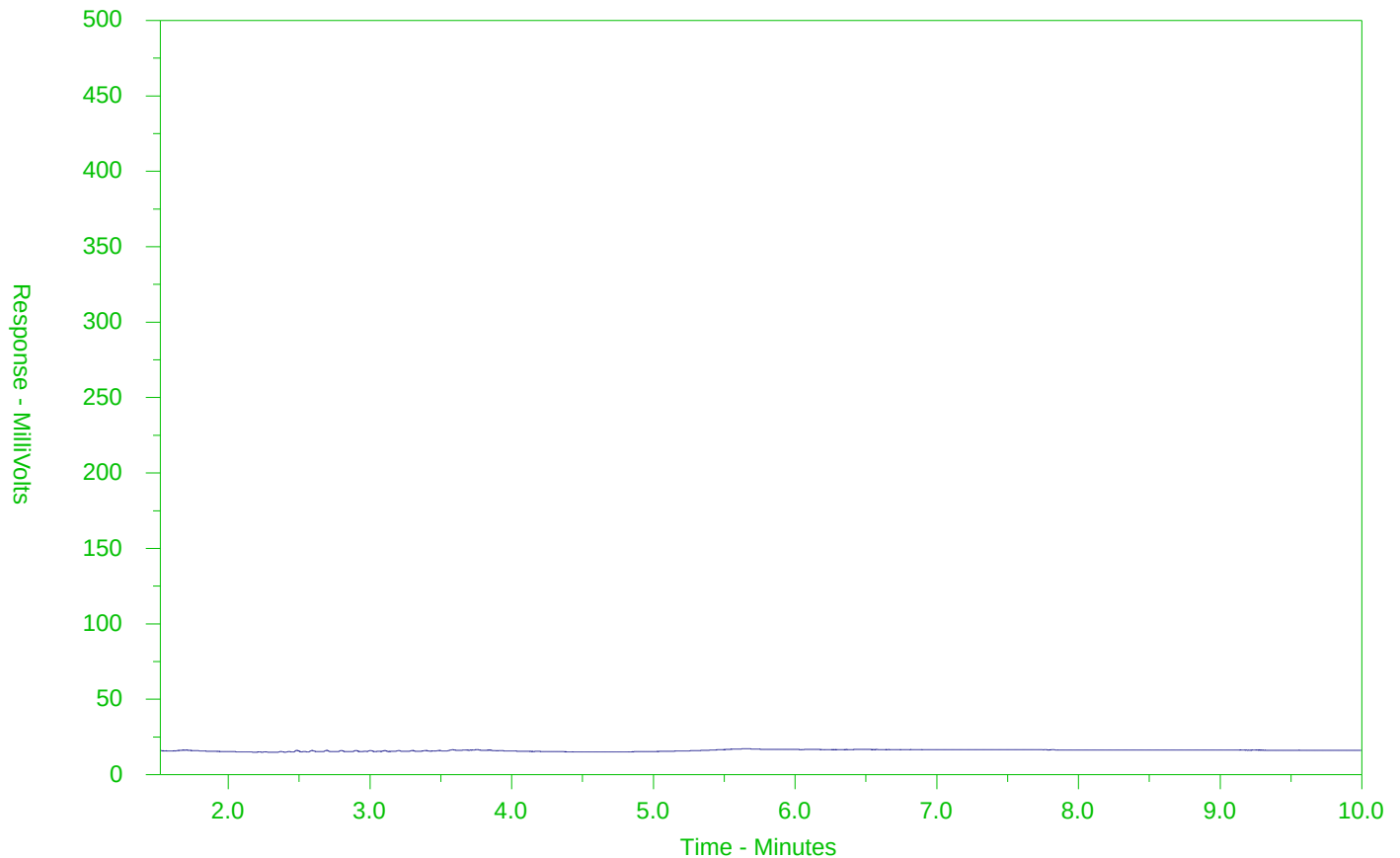
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2701892-16
Client Sample ID: BH103 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.

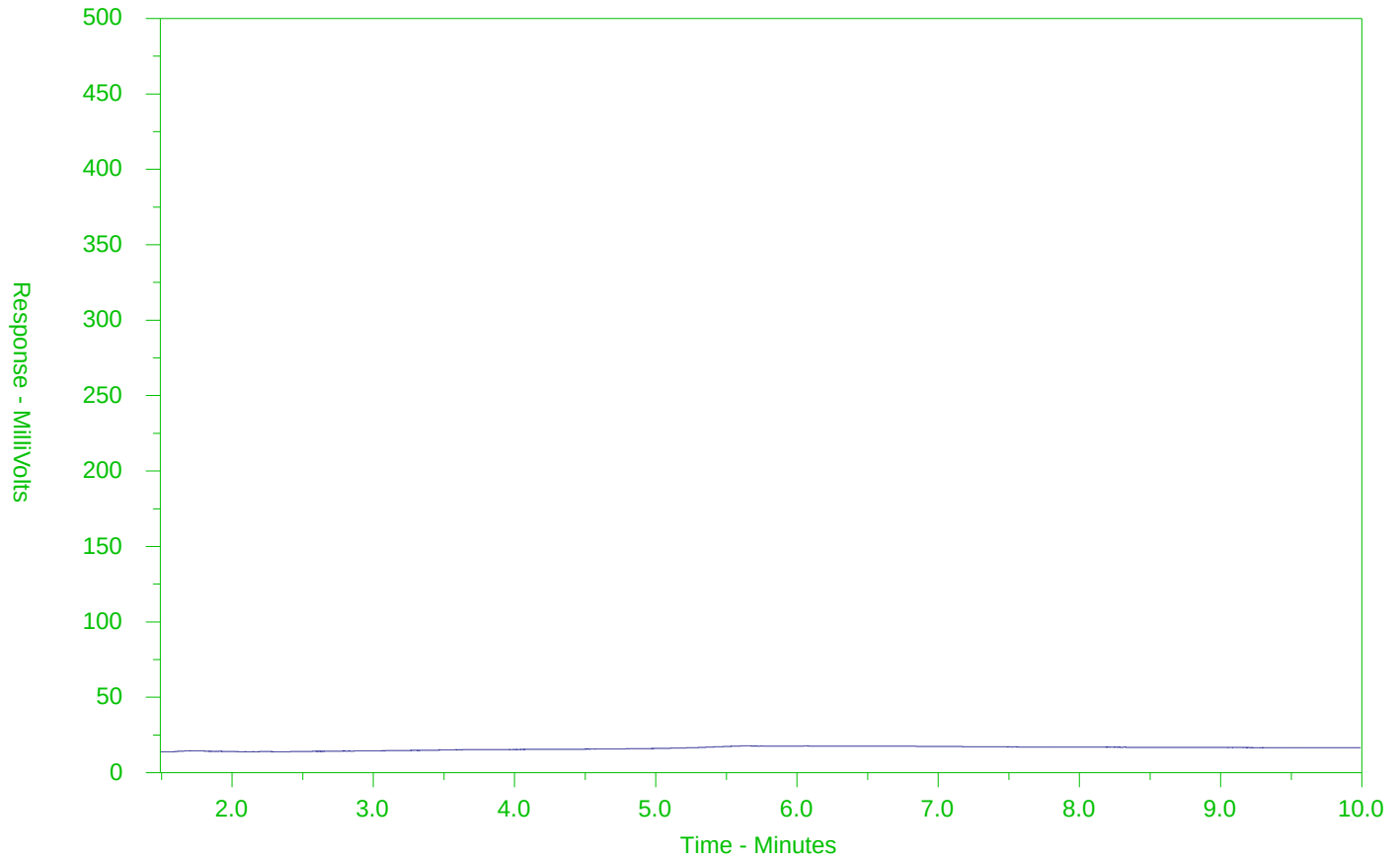
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2701892-20
Client Sample ID: BH104 SS4



← 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.

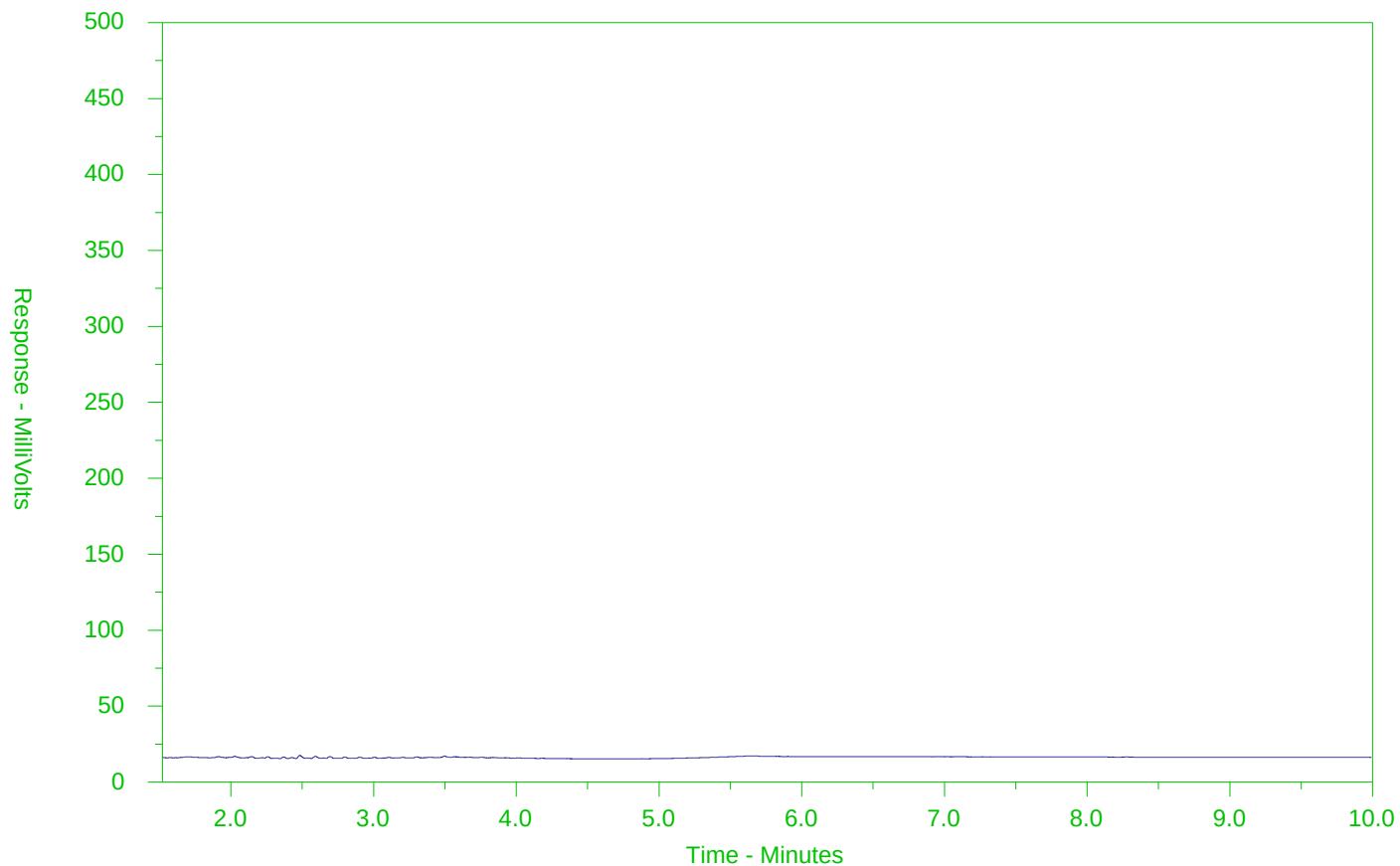
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2701892-24
Client Sample ID: BH102 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.

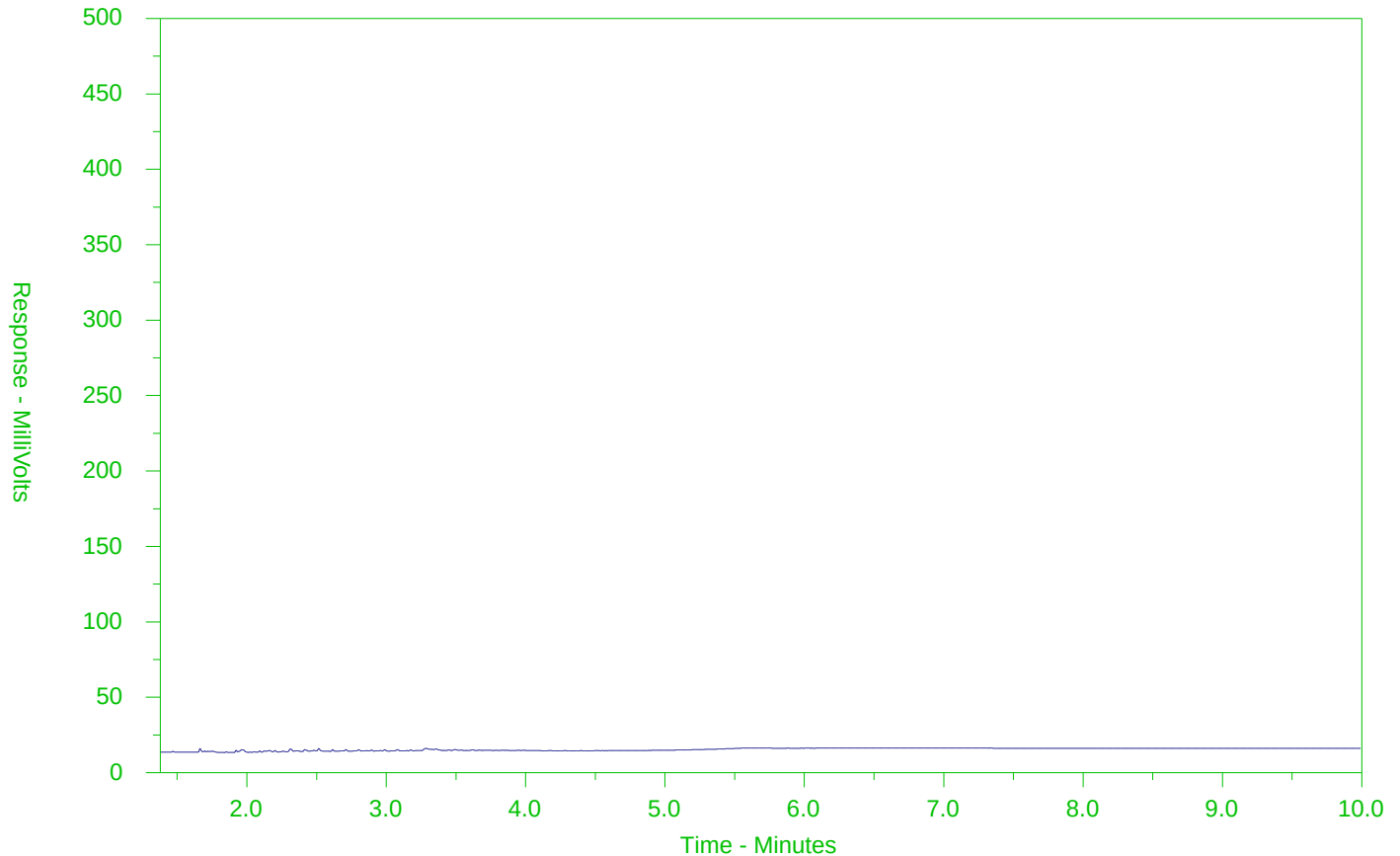
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2701892-28
Client Sample ID: BH101 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.

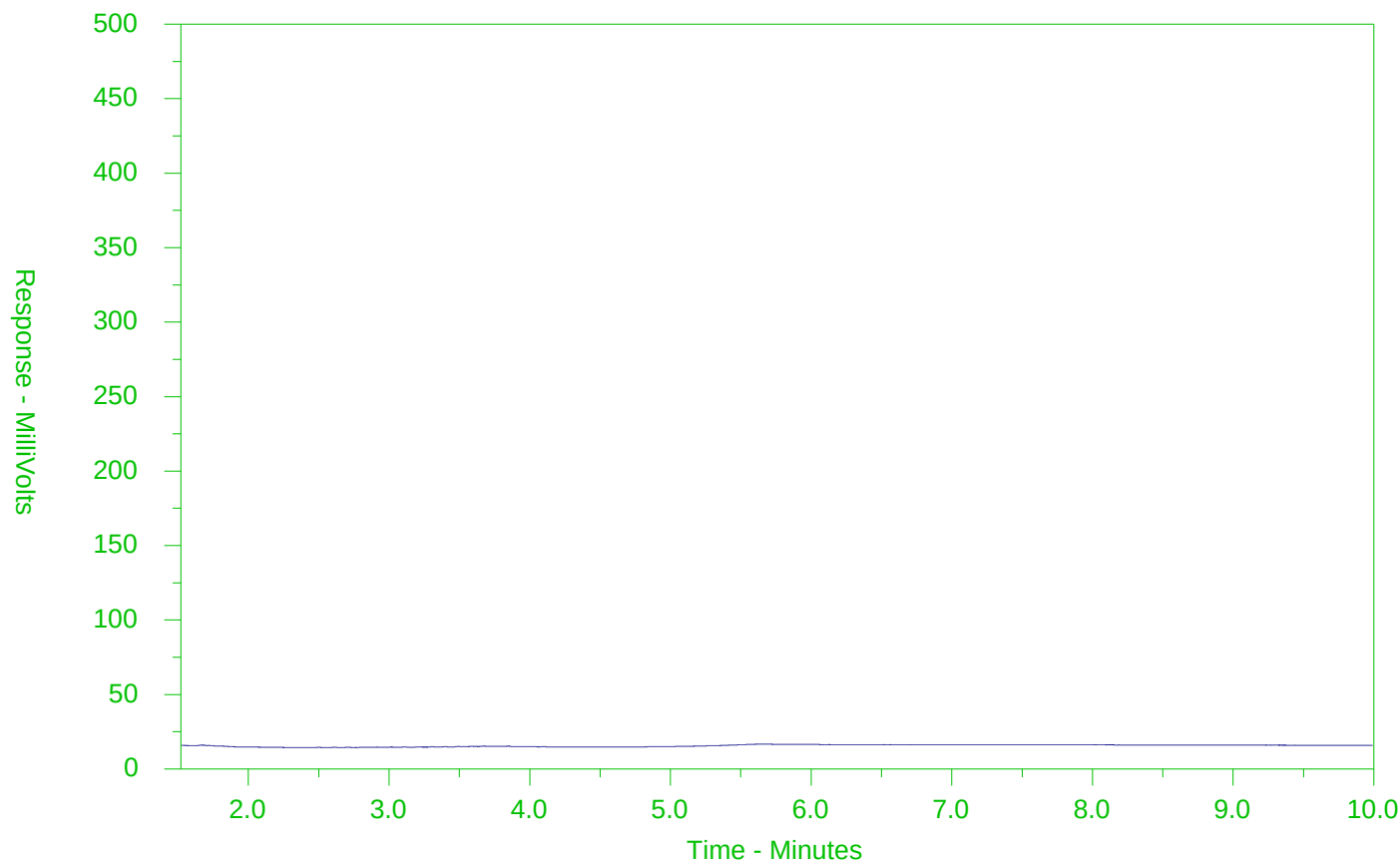
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2701892-31
Client Sample ID: BH116 SS4



← 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.

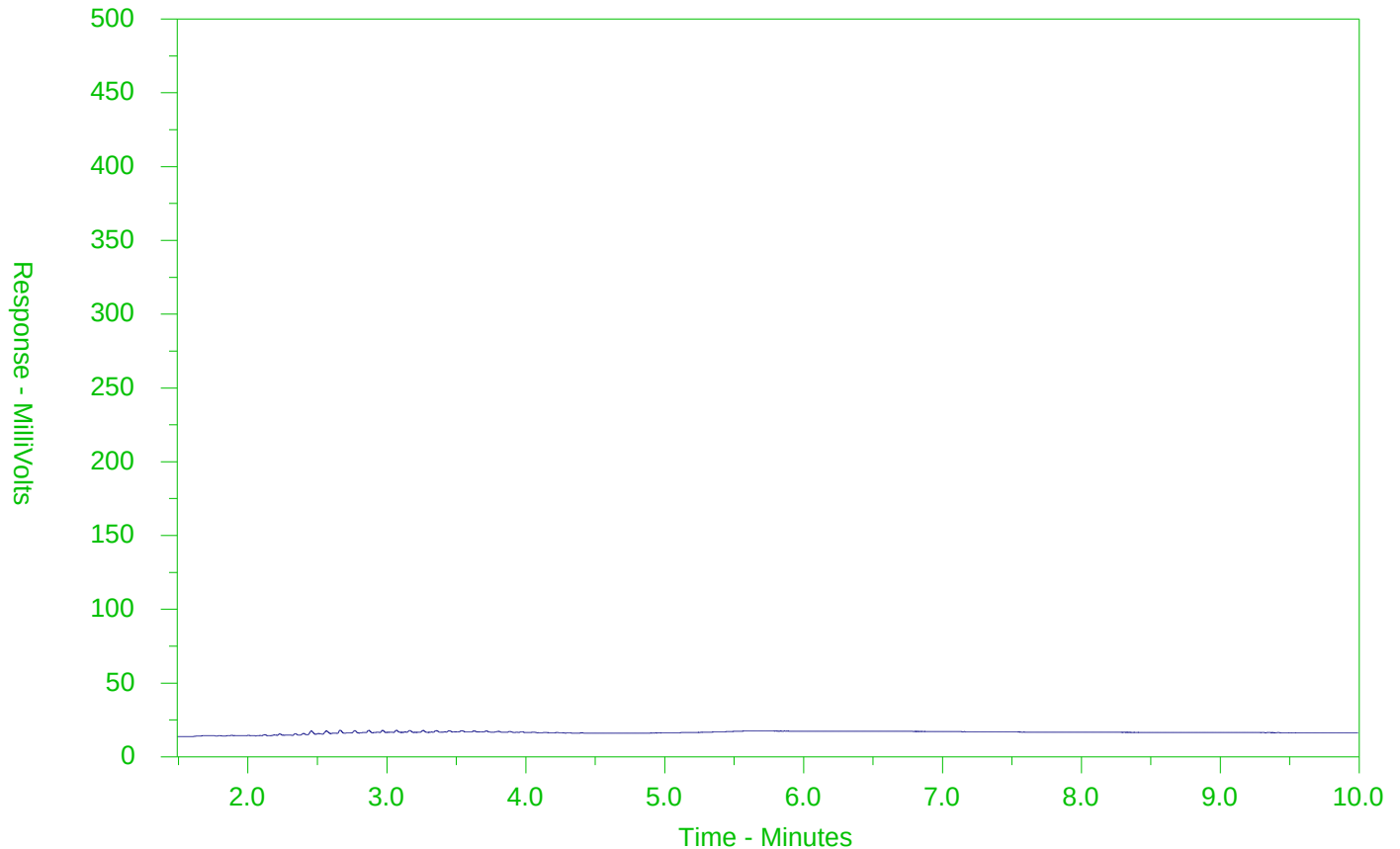
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2701892-35
Client Sample ID: DVP - 8



← 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.



www.alsglobal.com

Chain of Custody (COC) / Analytical

Canada Toll Free: 1 800 668



L2701892-COFC

20-955445

Page 1 of 4

Report To Contact and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested		AFFIX ALS BARCODE LABEL HERE (ALS use only)	
Company: <u>Grounded Engineering</u>		Select Report Format: ☒ PDF ☐ EXCEL ☒ EDD (DIGITAL)		☒ Routine [R] if received by 3pm M-F - no surcharges apply			
Contact: <u>James Rybicki</u>		Merge QC/QCI Reports with COA ☒ YES ☐ NO ☐ N/A		☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum			
Phone:		Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum			
Company address below will appear on the final report		Email 1 or Fax: <u>rybicki@groundedeng.ca</u>		☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum			
Street: <u>1 Bangian Dr</u>		Email 2: <u>bwalters@groundedeng.ca</u>		☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum			
City/Province: <u>Toronto, ON</u>		Email 3:		☐ Same day [E2] if received by 10am M-F - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests			
Postal Code: <u>M4H 1G3</u>							
Invoice To: Same as Report To ☒ YES ☐ NO		Invoice Recipients		Date and Time Required for all E&P TATs:			
Copy of Invoice with Report ☐ YES ☐ NO		Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX		For all tests with rush TATs requested, please contact your AM to confirm availability.			
Company:		Email 1 or Fax:		Analysis Request			
Contact:		Email 2:		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FIP) below			
Project Information		Oil and Gas Required Fields (client use)					
ALS Account # / Quote #:		AFE/Cost Center:					
Job #: <u>22-052</u>		Major/Minor Code:					
PO / AFE:		Requisitioner:					
LSD: <u>163 - 164 Edward St E</u>		Location:					
ALS Lab Work Order # (ALS use only): <u>L2701892</u>		ALS Contact:		Sampler: <u>VT</u>			
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS		
	BH106 SS1	21-Apr-22	14:30	COIL	2	X	X
	BH106 SS3				1		
	BH106 SS4				3		X
	BH105 SS1A		15:00		1		X
	BH105 SS2				1	X	
	BH105 SS3				3		X
	BH105 SS4				3		X
	BH105 SS6						
Drinking Water (DW) Samples¹ (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)			
Are samples taken from a Regulated DW System? ☐ YES ☐ NO		Compare to D.Reg 153/04 both Table 1 & Table 2 EPI, coarse		Cooling Method: ☐ NONE ☒ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED			
Are samples for human consumption/ use? ☐ YES ☐ NO				Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO			
				Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A			
				INITIAL COOLER TEMPERATURES °C: 4.9 7.4 -1.0 -2.1			
				FINAL COOLER TEMPERATURES °C:			
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)			
Released by: <u>V. V. Tran</u>	Date: <u>2022/04/28</u>	Time: <u>9:40</u>	Received by: <u>H.K.</u>	Date: <u>04/28/22</u>	Time: <u>9:20</u>	Received by: <u>FH</u>	Date: <u>2022-04-28</u>
Time: <u>2:10 PM</u>							

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY

YELLOW - CLIENT COPY

AUG 2009 F001

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.



www.alsglobal.com

Chain of Custody (COC) / Analy

Canada Toll Free: 1 800



L2701892-COFC

ber: 20 - 955446

Page 2 of 4

Report To Contact and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested		AFFIX ALS BARCODE LABEL HERE (ALS use only)	
Company: <u>Grounded Engineering</u>		Select Report Format: ☒ PDF ☐ EXCEL ☒ EDD (DIGITAL)		☒ Routine [R] if received by 3pm M-F - no surcharges apply			
Contact: <u>James Kybicki</u>		Merge QC/QCI Reports with COA ☒ YES ☐ NO ☐ N/A		☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum			
Phone:		☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum			
Company address below will appear on the final report		Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum			
Street: <u>1 Bangian Dr</u>		Email 1 or Fax: <u>Trybicki@groundedeng.ca</u>		☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum			
City/Province: <u>Toronto, ON</u>		Email 2: <u>hwaite@groundedeng.ca</u>		☐ Same day [S2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests.			
Postal Code: <u>M4H 1G2</u>		Email 3:		Date and Time Required for all E&P TATs:			
Invoice To: Same as Report To ☒ YES ☐ NO		Invoice Recipients		For all tests with rush TATs requested, please contact your AM to confirm availability.			
Copy of Invoice with Report ☐ YES ☐ NO		Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX					
Company:		Email 1 or Fax:					
Contact:		Email 2:					
Project Information		Oil and Gas Required Fields (client use)					
ALS Account # / Quote #: <u>72-052</u>		AFE/Cost Center:					
Job #: <u>72-052</u>		Major/Minor Code:					
PO / AFE:		Requisitioner:					
LSD: <u>163-164 Edward St E</u>		Location:					
ALS Lab Work Order # (ALS use only): <u>L2701892</u>		ALS Contact:		Sampler:			
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS		
	BH109 SS1	25-Apr-22	13:15	SOIL	2	X	
	BH109 SS2				1	X	
	BH109 SS5				3		X
	BH109 SS7				3		X
	BH109 SS8				3		X
	BH103 SS1B	26-Apr-22	11:00		1		X
	BH103 SS2				2	X	X
	BH103 SS3				3		X
	BH103 SS7				3		X
Drinking Water (DW) Samples¹ (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)			
Are samples taken from a Regulated DW System? ☐ YES ☐ NO		Compare to O.Reg. 153/04 Table 1 + Table 2		Cooling Method: ☐ NONE ☒ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED			
Are samples for human consumption/ use? ☐ YES ☐ NO		RPI, coarse		Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO			
				Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A			
				INITIAL COOLER TEMPERATURES °C: 4.9 7.4 FINAL COOLER TEMPERATURES °C: -1.0 -2.1			
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)			
Released by: <u>Vivian Tran</u>	Date: <u>2022/04/28</u>	Time: <u>9:41 AM</u>	Received by: <u>HJK</u>	Date: <u>04/28/22</u>	Time: <u>09:30</u>	Received by: <u>HH</u>	Date: <u>2022-04-28</u>

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

ALG 2020 FRONT



www.alsglobal.com

Chain of Custody (COC) / Analytic:

Canada Toll Free: 1 800 668



L2701892-COFC

20 - 955447

age 3 of 4

Report To Contact and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested		AFFIX ALS BARCODE LABEL HERE (ALS use only)	
Company: <u>Grounded Engineering</u>		Select Report Format: ☒ PDF ☐ EXCEL ☒ EDO (DIGITAL)		☒ Routine [R] if received by 3pm M-F - no surcharges apply			
Contact: <u>James Rybicki</u>		Merge QC/QC: Reports with COA ☒ YES ☐ NO ☐ N/A		☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum			
Phone:		☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum			
Company address below will appear on the final report		Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum			
Street: <u>1 Bangian Dr</u>		Email 1 or Fax: <u>Jrybicki@groundedeng.ca</u>		☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum			
City/Province: <u>Toronto, ON</u>		Email 2: <u>hwalters@groundedeng.ca</u>		☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests			
Postal Code: <u>M4H 1G3</u>		Email 3:		Date and Time Required for all E&P TATs:			
Invoice To: Same as Report To ☒ YES ☐ NO		Invoice Recipients		For all tests with rush TATs requested, please contact your AM to confirm availability.			
Copy of Invoice with Report ☐ YES ☐ NO		Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX					
Company:		Email 1 or Fax:					
Contact:		Email 2:					
Project Information		Oil and Gas Required Fields (client use)		Analysis Request			
ALS Account # / Quote #		AFE/Cost Center:		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below			
Job #: <u>22-052</u>		Major/Minor Code:					
PO / AFE:		Routing Code:					
LSD: <u>163-164 Edward St E</u>		Requisitioner:					
Location:		ALS Contact:					
ALS Lab Work Order # (ALS use only): <u>L2701892</u>		Sampler: <u>VT</u>					
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS		
	BH104 SS1	26-APR-22	13:45	SOIL	2		
	BH104 SS2				1		
	BH104 SS4				3		
	BH104 SS6				3		
	BH102 SS1		16:00		2		
	BH102 SS2				1		
	BH102 SS3				3		
	BH102 SS4				3		
	BH101 SS1	27-APR-22	11:45		5		
	BH101 SS2				1		
	BH101 SS3				3		
Drinking Water (DW) Samples¹ (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)			
Are samples taken from a Regulated DW System? ☐ YES ☐ NO		Compare to 0. Reg 153/104 both Table 1 & Table 2 RPI, coarse		Cooling Method: ☐ NONE ☒ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED			
Are samples for human consumption/ use? ☐ YES ☐ NO				Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO			
				Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A			
				INITIAL COOLER TEMPERATURES °C: 4.9 7.4 FINAL COOLER TEMPERATURES °C: -1.0 -2.1			
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)			
Released by: <u>V. Tran</u>	Date: <u>2022/04/28</u>	Time: <u>7:41M</u>	Received by: <u>H.K</u>	Date: <u>04/28/22</u>	Time: <u>09:30</u>	Received by: <u>FH</u>	Date: <u>2022-04-28</u>
				Time: <u>2:10 PM</u>			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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

Canada Toll Free: 1 800 668 98



L2701892-COFC

20 - 893255

e 4 of 4

Report To		Reports / Recipients		Turnaround Time (TAT) Requested		Analysis Request	
Contact and company name below will appear on the final report		Select Report Format: ☒ PDF ☐ EXCEL ☒ EDD (DIGITAL)		☒ Routine (R) if received by 3pm M-F - no surcharges apply		AFFIX ALS BARCODE LABEL HERE (ALS use only)	
Company: <u>Grounded Engineering</u>		Merge QC/QCI Reports with COA ☒ YES ☐ NO ☐ N/A		☐ 4 day (P4) if received by 3pm M-F - 20% rush surcharge minimum			
Contact: <u>James Rybicki</u>		☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day (P3) if received by 3pm M-F - 25% rush surcharge minimum			
Phone:		Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		☐ 2 day (P2) if received by 3pm M-F - 50% rush surcharge minimum			
Company address below will appear on the final report		Email 1 or Fax: <u>Jrybicki@groundedeng.ca</u>		☐ 1 day (E) if received by 3pm M-F - 100% rush surcharge minimum			
Street: <u>1 Bevington Dr</u>		Email 2: <u>bwalters@groundedeng.ca</u>		☐ Same day (E2) if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests			
City/Province: <u>Toronto, ON</u>		Email 3:		Date and Time Required for all E&P TATs:			
Postal Code: <u>M4H 1B3</u>				For all tests with rush TATs requested, please contact your AM to confirm availability.			
Invoice To: Same as Report To ☒ YES ☐ NO		Invoice Recipients		Analysis Request			
Copy of Invoice with Report ☐ YES ☐ NO		Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below			
Company:		Email 1 or Fax:		NUMBER OF CONTAINERS		SAMPLES ON HOLD	
Contact:		Email 2:		M&T		EXTENDED STORAGE REQUIRED	
Project Information		Oil and Gas Required Fields (client use)		PAH		SUSPECTED HAZARD (see notes)	
ALS Account # / Quote #:		AFE/Cost Center:		PHC/ISTEX			
Job #: <u>12-052</u>		Major/Minor Code:		VOC			
PO / AFE:		Routing Code:		OLP			
LSD: <u>163-164 Edward St E</u>		Requisitioner:					
ALS Lab Work Order # (ALS use only): <u>L2701892</u>		Location:					
ALS Contact:		Sampler: <u>VT</u>					
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type			
	BH116 SS2B	27-APR-22	16:00	soil	1		
	BH116 SS3				2	X	
	BH116 SS4				3		X
	BH116 SS7				3		X
	DVP-6	26-APR-22			1	X	
	DVP-7				1		X
	DVP-8				3		X
	DVP-9				3		X
	DVP-10				1		X
Drinking Water (DW) Samples (client use)					Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		
Are samples taken from a Regulated DW System? ☐ YES ☐ NO					Compare to O.Reg 153/04 both Table 1 & Table 2		
Are samples for human consumption use? ☐ YES ☐ NO					EPI, coarse		
SHIPPING RELEASE (client use)					INITIAL SHIPMENT RECEPTION (ALS use only)		
Released by: <u>Viv Tran</u>					Received by: <u>HK</u>		
Date: <u>2022/04/28</u>					Date: <u>04/28/22</u>		
Time: <u>7:41M</u>					Time: <u>09:20</u>		
WHITE - LABORATORY COPY					YELLOW - CLIENT COPY		
REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION					FINAL SHIPMENT RECEPTION (ALS use only)		
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.					Cooling Method: ☐ NONE ☒ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED		
1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.					Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO		
					Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A		
					INITIAL COOLER TEMPERATURES °C: <u>4.9</u> <u>7.4</u> FINAL COOLER TEMPERATURES °C: <u>-1.0</u> <u>2.1</u>		

CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: WT2205887	Page	: 1 of 30
Client	: Grounded Engineering Inc.	Laboratory	: Waterloo - Environmental
Contact	: James Rybicki	Account Manager	: Amanda Overholster
Address	: 1 Banigan Drive Toronto ON Canada M4H 1G3	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 647 264 7928	Telephone	: 1 416 817 2944
Project	: 22-052-902	Date Samples Received	: 20-Jun-2022 10:30
PO	: ----	Date Analysis Commenced	: 21-Jun-2022
C-O-C number	: ----	Issue Date	: 27-Jun-2022 15:38
Sampler	: MC		
Site	: 163-164 Edward St E., Creemore		
Quote number	: Q88323 - SOA		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Guideline Comparison

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Greg Pokocky	Supervisor - Inorganic	Metals, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Organics, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

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. Guidelines 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.

Key : LOR: Limit of Reporting (detection limit).

Unit	Description
-	No Unit
µg/L	micrograms per litre

>: greater than.

<: less than.

Red shading is applied where the result is greater than the Guideline Upper Limit or the result is lower than the Guideline Lower Limit.

For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

Qualifiers

Qualifier	Description
SUR-ND	Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be unaffected.



Analytical Results

				Client sample ID						
				Sampling date/time						
					BH104					
					16-Jun-2022					
					13:15					
Analyte	Method	LOR	Unit	WT2205887-001	ON153/04	T2-GW-C-All				
Dissolved Metals										
antimony, dissolved	E421	0.10	µg/L	<0.10	6 µg/L					
arsenic, dissolved	E421	0.10	µg/L	0.12	25 µg/L					
barium, dissolved	E421	0.10	µg/L	50.6	1000 µg/L					
beryllium, dissolved	E421	0.020	µg/L	<0.020	4 µg/L					
boron, dissolved	E421	10	µg/L	19	5000 µg/L					
cadmium, dissolved	E421	0.0050	µg/L	0.106	2.7 µg/L					
chromium, dissolved	E421	0.50	µg/L	<0.50	50 µg/L					
cobalt, dissolved	E421	0.10	µg/L	<0.10	3.8 µg/L					
copper, dissolved	E421	0.20	µg/L	3.41	87 µg/L					
lead, dissolved	E421	0.050	µg/L	<0.050	10 µg/L					
mercury, dissolved	E509	0.0050	µg/L	<0.0050	0.29 µg/L					
molybdenum, dissolved	E421	0.050	µg/L	0.308	70 µg/L					
nickel, dissolved	E421	0.50	µg/L	<0.50	100 µg/L					
selenium, dissolved	E421	0.050	µg/L	0.370	10 µg/L					
silver, dissolved	E421	0.010	µg/L	<0.010	1.5 µg/L					
sodium, dissolved	E421	50	µg/L	25600	490000 µg/L					
thallium, dissolved	E421	0.010	µg/L	<0.010	2 µg/L					
uranium, dissolved	E421	0.010	µg/L	0.322	20 µg/L					
vanadium, dissolved	E421	0.50	µg/L	<0.50	6.2 µg/L					
zinc, dissolved	E421	1.0	µg/L	67.9	1100 µg/L					
dissolved mercury filtration location	EP509		-	Field						
dissolved metals filtration location	EP421		-	Field						
Speciated Metals										
chromium, hexavalent [Cr VI], dissolved	E532A	0.50	µg/L	<0.50						
Volatile Organic Compounds										
acetone	E611D	20	µg/L	<20	2700 µg/L					
benzene	E611D	0.50	µg/L	<0.50	5 µg/L					
bromodichloromethane	E611D	0.50	µg/L	<0.50	16 µg/L					



Analyte	Method	LOR	Unit	WT2205887-001 (Continued)	ON153/04 T2-GW-C-All					
Volatile Organic Compounds - Continued										
bromoform	E611D	0.50	µg/L	<0.50	25 µg/L					
bromomethane	E611D	0.50	µg/L	<0.50	0.89 µg/L					
carbon tetrachloride	E611D	0.20	µg/L	<0.20	0.79 µg/L					
chlorobenzene	E611D	0.50	µg/L	<0.50	30 µg/L					
chloroform	E611D	0.50	µg/L	<0.50	2.4 µg/L					
dibromochloromethane	E611D	0.50	µg/L	<0.50	25 µg/L					
dibromoethane, 1,2-	E611D	0.20	µg/L	<0.20	0.2 µg/L					
dichlorobenzene, 1,2-	E611D	0.50	µg/L	<0.50	3 µg/L					
dichlorobenzene, 1,3-	E611D	0.50	µg/L	<0.50	59 µg/L					
dichlorobenzene, 1,4-	E611D	0.50	µg/L	<0.50	1 µg/L					
dichlorodifluoromethane	E611D	0.50	µg/L	<0.50	590 µg/L					
dichloroethane, 1,1-	E611D	0.50	µg/L	<0.50	5 µg/L					
dichloroethane, 1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, 1,1-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, cis-1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, trans-1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloromethane	E611D	1.0	µg/L	<1.0	50 µg/L					
dichloropropane, 1,2-	E611D	0.50	µg/L	<0.50	5 µg/L					
dichloropropylene, cis+trans-1,3-	E611D	0.50	µg/L	<0.50	0.5 µg/L					
dichloropropylene, cis-1,3-	E611D	0.30	µg/L	<0.30						
dichloropropylene, trans-1,3-	E611D	0.30	µg/L	<0.30						
ethylbenzene	E611D	0.50	µg/L	<0.50	2.4 µg/L					
hexane, n-	E611D	0.50	µg/L	<0.50	51 µg/L					
methyl ethyl ketone [MEK]	E611D	20	µg/L	<20	1800 µg/L					
methyl isobutyl ketone [MIBK]	E611D	20	µg/L	<20	640 µg/L					
methyl-tert-butyl ether [MTBE]	E611D	0.50	µg/L	<0.50	15 µg/L					
styrene	E611D	0.50	µg/L	<0.50	5.4 µg/L					
tetrachloroethane, 1,1,1,2-	E611D	0.50	µg/L	<0.50	1.1 µg/L					
tetrachloroethane, 1,1,2,2-	E611D	0.50	µg/L	<0.50	1 µg/L					
tetrachloroethylene	E611D	0.50	µg/L	<0.50	1.6 µg/L					
toluene	E611D	0.50	µg/L	<0.50	24 µg/L					
trichloroethane, 1,1,1-	E611D	0.50	µg/L	<0.50	200 µg/L					
trichloroethane, 1,1,2-	E611D	0.50	µg/L	<0.50	4.7 µg/L					
trichloroethylene	E611D	0.50	µg/L	<0.50	1.6 µg/L					



Analyte	Method	LOR	Unit	WT2205887-001 (Continued)	ON153/04 T2-GW-C-All					
Volatile Organic Compounds - Continued										
trichlorofluoromethane	E611D	0.50	µg/L	<0.50	150 µg/L					
vinyl chloride	E611D	0.50	µg/L	<0.50	0.5 µg/L					
xylene, m+p-	E611D	0.40	µg/L	<0.40						
xylene, o-	E611D	0.30	µg/L	<0.30						
xylenes, total	E611D	0.50	µg/L	<0.50	300 µg/L					
BTEX, total	E611D	1.0	µg/L	<1.0						
bromofluorobenzene, 4-	E611D	1.0	%	104						
difluorobenzene, 1,4-	E611D	1.0	%	98.0						
Hydrocarbons										
F1 (C6-C10)	E581.F1-L	25	µg/L	<25	750 µg/L					
F2 (C10-C16)	E601.SG	100	µg/L	<100	150 µg/L					
F3 (C16-C34)	E601.SG	250	µg/L	<250	500 µg/L					
F4 (C34-C50)	E601.SG	250	µg/L	<250	500 µg/L					
F1-BTEX	EC580	25	µg/L	<25	750 µg/L					
hydrocarbons, total (C6-C50)	EC581SG	240	µg/L	<370						
chromatogram to baseline at nC50	E601.SG		-	YES						
bromobenzotrifluoride, 2- (F2-F4 surr)	E601.SG	1.0	%	86.9						
dichlorotoluene, 3,4-	E581.F1-L	1.0	%	108						
Organochlorine Pesticides										
aldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					
chlordane, cis- (alpha)	E660F	0.0080	µg/L	<0.0080						
chlordane, total	E660F	0.011	µg/L	<0.011	7 µg/L					
chlordane, trans- (gamma)	E660F	0.0080	µg/L	<0.0080						
DDD, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDE, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDT, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, total	E660F	0.0060	µg/L	<0.0060	2.8 µg/L					
dieldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					



Analyte	Method	LOR	Unit	WT2205887-001 (Continued)	ON153/04 T2-GW-C-All					
Organochlorine Pesticides - Continued										
endosulfan, alpha-	E660F	0.0070	µg/L	<0.0070						
endosulfan, beta-	E660F	0.0070	µg/L	<0.0070						
endosulfan, total	E660F	0.010	µg/L	<0.010	1.5 µg/L					
endrin	E660F	0.010	µg/L	<0.010	0.48 µg/L					
heptachlor epoxide	E660F	0.0080	µg/L	<0.0080	0.048 µg/L					
heptachlor	E660F	0.0080	µg/L	<0.0080	1.5 µg/L					
hexachlorobenzene	E660F	0.0080	µg/L	<0.0080	1 µg/L					
hexachlorobutadiene	E660F	0.0080	µg/L	<0.0080	0.44 µg/L					
hexachlorocyclohexane, gamma-	E660F	0.0080	µg/L	<0.0080	1.2 µg/L					
hexachloroethane	E660F	0.0080	µg/L	<0.0080	2.1 µg/L					
methoxychlor	E660F	0.0080	µg/L	<0.0080	6.5 µg/L					
decachlorobiphenyl	E660F	0.10	%	107						
tetrachloro-m-xylene	E660F	0.10	%	65.9						

Please refer to the General Comments section for an explanation of any qualifiers detected.

No Breaches Found

Key:

ON153/04

Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011)

T2-GW-C-All

T2-Ground Water (Coarse Soil)-All Types of Property Use



Analytical Results

				Client sample ID						
				Sampling date/time						
					BH105					
					16-Jun-2022					
					14:00					
Analyte	Method	LOR	Unit	WT2205887-002	ON153/04	T2-GW-C-All				
Dissolved Metals										
antimony, dissolved	E421	0.10	µg/L	<0.10	6 µg/L					
arsenic, dissolved	E421	0.10	µg/L	0.14	25 µg/L					
barium, dissolved	E421	0.10	µg/L	93.5	1000 µg/L					
beryllium, dissolved	E421	0.020	µg/L	<0.020	4 µg/L					
boron, dissolved	E421	10	µg/L	34	5000 µg/L					
cadmium, dissolved	E421	0.0050	µg/L	0.0351	2.7 µg/L					
chromium, dissolved	E421	0.50	µg/L	<0.50	50 µg/L					
cobalt, dissolved	E421	0.10	µg/L	<0.10	3.8 µg/L					
copper, dissolved	E421	0.20	µg/L	0.89	87 µg/L					
lead, dissolved	E421	0.050	µg/L	<0.050	10 µg/L					
mercury, dissolved	E509	0.0050	µg/L	<0.0050	0.29 µg/L					
molybdenum, dissolved	E421	0.050	µg/L	0.731	70 µg/L					
nickel, dissolved	E421	0.50	µg/L	<0.50	100 µg/L					
selenium, dissolved	E421	0.050	µg/L	0.322	10 µg/L					
silver, dissolved	E421	0.010	µg/L	<0.010	1.5 µg/L					
sodium, dissolved	E421	50	µg/L	45500	490000 µg/L					
thallium, dissolved	E421	0.010	µg/L	<0.010	2 µg/L					
uranium, dissolved	E421	0.010	µg/L	0.639	20 µg/L					
vanadium, dissolved	E421	0.50	µg/L	<0.50	6.2 µg/L					
zinc, dissolved	E421	1.0	µg/L	41.5	1100 µg/L					
dissolved mercury filtration location	EP509		-	Field						
dissolved metals filtration location	EP421		-	Field						
Speciated Metals										
chromium, hexavalent [Cr VI], dissolved	E532A	0.50	µg/L	<0.50						
Volatile Organic Compounds										
acetone	E611D	20	µg/L	<20	2700 µg/L					
benzene	E611D	0.50	µg/L	<0.50	5 µg/L					
bromodichloromethane	E611D	0.50	µg/L	<0.50	16 µg/L					



Analyte	Method	LOR	Unit	WT2205887-002 (Continued)	ON153/04 T2-GW-C-All					
Volatile Organic Compounds - Continued										
bromoform	E611D	0.50	µg/L	<0.50	25 µg/L					
bromomethane	E611D	0.50	µg/L	<0.50	0.89 µg/L					
carbon tetrachloride	E611D	0.20	µg/L	<0.20	0.79 µg/L					
chlorobenzene	E611D	0.50	µg/L	<0.50	30 µg/L					
chloroform	E611D	0.50	µg/L	<0.50	2.4 µg/L					
dibromochloromethane	E611D	0.50	µg/L	<0.50	25 µg/L					
dibromoethane, 1,2-	E611D	0.20	µg/L	<0.20	0.2 µg/L					
dichlorobenzene, 1,2-	E611D	0.50	µg/L	<0.50	3 µg/L					
dichlorobenzene, 1,3-	E611D	0.50	µg/L	<0.50	59 µg/L					
dichlorobenzene, 1,4-	E611D	0.50	µg/L	<0.50	1 µg/L					
dichlorodifluoromethane	E611D	0.50	µg/L	<0.50	590 µg/L					
dichloroethane, 1,1-	E611D	0.50	µg/L	<0.50	5 µg/L					
dichloroethane, 1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, 1,1-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, cis-1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, trans-1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloromethane	E611D	1.0	µg/L	<1.0	50 µg/L					
dichloropropane, 1,2-	E611D	0.50	µg/L	<0.50	5 µg/L					
dichloropropylene, cis+trans-1,3-	E611D	0.50	µg/L	<0.50	0.5 µg/L					
dichloropropylene, cis-1,3-	E611D	0.30	µg/L	<0.30						
dichloropropylene, trans-1,3-	E611D	0.30	µg/L	<0.30						
ethylbenzene	E611D	0.50	µg/L	<0.50	2.4 µg/L					
hexane, n-	E611D	0.50	µg/L	<0.50	51 µg/L					
methyl ethyl ketone [MEK]	E611D	20	µg/L	<20	1800 µg/L					
methyl isobutyl ketone [MIBK]	E611D	20	µg/L	<20	640 µg/L					
methyl-tert-butyl ether [MTBE]	E611D	0.50	µg/L	<0.50	15 µg/L					
styrene	E611D	0.50	µg/L	<0.50	5.4 µg/L					
tetrachloroethane, 1,1,1,2-	E611D	0.50	µg/L	<0.50	1.1 µg/L					
tetrachloroethane, 1,1,2,2-	E611D	0.50	µg/L	<0.50	1 µg/L					
tetrachloroethylene	E611D	0.50	µg/L	<0.50	1.6 µg/L					
toluene	E611D	0.50	µg/L	<0.50	24 µg/L					
trichloroethane, 1,1,1-	E611D	0.50	µg/L	<0.50	200 µg/L					
trichloroethane, 1,1,2-	E611D	0.50	µg/L	<0.50	4.7 µg/L					
trichloroethylene	E611D	0.50	µg/L	<0.50	1.6 µg/L					



Analyte	Method	LOR	Unit	WT2205887-002 (Continued)	ON153/04 T2-GW-C-All					
Volatile Organic Compounds - Continued										
trichlorofluoromethane	E611D	0.50	µg/L	<0.50	150 µg/L					
vinyl chloride	E611D	0.50	µg/L	<0.50	0.5 µg/L					
xylene, m+p-	E611D	0.40	µg/L	<0.40						
xylene, o-	E611D	0.30	µg/L	<0.30						
xylenes, total	E611D	0.50	µg/L	<0.50	300 µg/L					
BTEX, total	E611D	1.0	µg/L	<1.0						
bromofluorobenzene, 4-	E611D	1.0	%	104						
difluorobenzene, 1,4-	E611D	1.0	%	96.9						
Hydrocarbons										
F1 (C6-C10)	E581.F1-L	25	µg/L	<25	750 µg/L					
F2 (C10-C16)	E601.SG	100	µg/L	<100	150 µg/L					
F3 (C16-C34)	E601.SG	250	µg/L	<250	500 µg/L					
F4 (C34-C50)	E601.SG	250	µg/L	<250	500 µg/L					
F1-BTEX	EC580	25	µg/L	<25	750 µg/L					
hydrocarbons, total (C6-C50)	EC581SG	240	µg/L	<370						
chromatogram to baseline at nC50	E601.SG		-	YES						
bromobenzotrifluoride, 2- (F2-F4 surr)	E601.SG	1.0	%	82.1						
dichlorotoluene, 3,4-	E581.F1-L	1.0	%	107						
Organochlorine Pesticides										
aldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					
chlordane, cis- (alpha)	E660F	0.0080	µg/L	<0.0080						
chlordane, total	E660F	0.011	µg/L	<0.011	7 µg/L					
chlordane, trans- (gamma)	E660F	0.0080	µg/L	<0.0080						
DDD, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDE, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDT, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, total	E660F	0.0060	µg/L	<0.0060	2.8 µg/L					
dieldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					



Analyte	Method	LOR	Unit	WT2205887-002 (Continued)	ON153/04 T2-GW-C-All					
Organochlorine Pesticides - Continued										
endosulfan, alpha-	E660F	0.0070	µg/L	<0.0070						
endosulfan, beta-	E660F	0.0070	µg/L	<0.0070						
endosulfan, total	E660F	0.010	µg/L	<0.010	1.5 µg/L					
endrin	E660F	0.010	µg/L	<0.010	0.48 µg/L					
heptachlor epoxide	E660F	0.0080	µg/L	<0.0080	0.048 µg/L					
heptachlor	E660F	0.0080	µg/L	<0.0080	1.5 µg/L					
hexachlorobenzene	E660F	0.0080	µg/L	<0.0080	1 µg/L					
hexachlorobutadiene	E660F	0.0080	µg/L	<0.0080	0.44 µg/L					
hexachlorocyclohexane, gamma-	E660F	0.0080	µg/L	<0.0080	1.2 µg/L					
hexachloroethane	E660F	0.0080	µg/L	<0.0080	2.1 µg/L					
methoxychlor	E660F	0.0080	µg/L	<0.0080	6.5 µg/L					
decachlorobiphenyl	E660F	0.10	%	136	SUR-ND					
tetrachloro-m-xylene	E660F	0.10	%	93.0						

Please refer to the General Comments section for an explanation of any qualifiers detected.

No Breaches Found

Key:

ON153/04

Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011)

T2-GW-C-All

T2-Ground Water (Coarse Soil)-All Types of Property Use



Analytical Results

				Client sample ID						
				Sampling date/time						
					BH106					
					16-Jun-2022					
					15:30					
Analyte	Method	LOR	Unit	WT2205887-003	ON153/04	T2-GW-C-All				
Volatile Organic Compounds										
acetone	E611D	20	µg/L	<20	2700 µg/L					
benzene	E611D	0.50	µg/L	<0.50	5 µg/L					
bromodichloromethane	E611D	0.50	µg/L	<0.50	16 µg/L					
bromoform	E611D	0.50	µg/L	<0.50	25 µg/L					
bromomethane	E611D	0.50	µg/L	<0.50	0.89 µg/L					
carbon tetrachloride	E611D	0.20	µg/L	<0.20	0.79 µg/L					
chlorobenzene	E611D	0.50	µg/L	<0.50	30 µg/L					
chloroform	E611D	0.50	µg/L	<0.50	2.4 µg/L					
dibromochloromethane	E611D	0.50	µg/L	<0.50	25 µg/L					
dibromoethane, 1,2-	E611D	0.20	µg/L	<0.20	0.2 µg/L					
dichlorobenzene, 1,2-	E611D	0.50	µg/L	<0.50	3 µg/L					
dichlorobenzene, 1,3-	E611D	0.50	µg/L	<0.50	59 µg/L					
dichlorobenzene, 1,4-	E611D	0.50	µg/L	<0.50	1 µg/L					
dichlorodifluoromethane	E611D	0.50	µg/L	<0.50	590 µg/L					
dichloroethane, 1,1-	E611D	0.50	µg/L	<0.50	5 µg/L					
dichloroethane, 1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, 1,1-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, cis-1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, trans-1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloromethane	E611D	1.0	µg/L	<1.0	50 µg/L					
dichloropropane, 1,2-	E611D	0.50	µg/L	<0.50	5 µg/L					
dichloropropylene, cis+trans-1,3-	E611D	0.50	µg/L	<0.50	0.5 µg/L					
dichloropropylene, cis-1,3-	E611D	0.30	µg/L	<0.30						
dichloropropylene, trans-1,3-	E611D	0.30	µg/L	<0.30						
ethylbenzene	E611D	0.50	µg/L	<0.50	2.4 µg/L					
hexane, n-	E611D	0.50	µg/L	<0.50	51 µg/L					
methyl ethyl ketone [MEK]	E611D	20	µg/L	<20	1800 µg/L					
methyl isobutyl ketone [MIBK]	E611D	20	µg/L	<20	640 µg/L					
methyl-tert-butyl ether [MTBE]	E611D	0.50	µg/L	<0.50	15 µg/L					
styrene	E611D	0.50	µg/L	<0.50	5.4 µg/L					



Analyte	Method	LOR	Unit	WT2205887-003 (Continued)	ON153/04 T2-GW-C-All					
Volatile Organic Compounds - Continued										
tetrachloroethane, 1,1,1,2-	E611D	0.50	µg/L	<0.50	1.1 µg/L					
tetrachloroethane, 1,1,2,2-	E611D	0.50	µg/L	<0.50	1 µg/L					
tetrachloroethylene	E611D	0.50	µg/L	<0.50	1.6 µg/L					
toluene	E611D	0.50	µg/L	<0.50	24 µg/L					
trichloroethane, 1,1,1-	E611D	0.50	µg/L	<0.50	200 µg/L					
trichloroethane, 1,1,2-	E611D	0.50	µg/L	<0.50	4.7 µg/L					
trichloroethylene	E611D	0.50	µg/L	<0.50	1.6 µg/L					
trichlorofluoromethane	E611D	0.50	µg/L	<0.50	150 µg/L					
vinyl chloride	E611D	0.50	µg/L	<0.50	0.5 µg/L					
xylene, m+p-	E611D	0.40	µg/L	<0.40						
xylene, o-	E611D	0.30	µg/L	<0.30						
xylenes, total	E611D	0.50	µg/L	<0.50	300 µg/L					
BTEX, total	E611D	1.0	µg/L	<1.0						
bromofluorobenzene, 4-	E611D	1.0	%	104						
difluorobenzene, 1,4-	E611D	1.0	%	98.3						
Hydrocarbons										
F1 (C6-C10)	E581.F1-L	25	µg/L	<25	750 µg/L					
F2 (C10-C16)	E601.SG	100	µg/L	<100	150 µg/L					
F3 (C16-C34)	E601.SG	250	µg/L	<250	500 µg/L					
F4 (C34-C50)	E601.SG	250	µg/L	<250	500 µg/L					
F1-BTEX	EC580	25	µg/L	<25	750 µg/L					
hydrocarbons, total (C6-C50)	EC581SG	240	µg/L	<370						
chromatogram to baseline at nC50	E601.SG		-	YES						
bromobenzotrifluoride, 2- (F2-F4 surr)	E601.SG	1.0	%	75.8						
dichlorotoluene, 3,4-	E581.F1-L	1.0	%	108						

Please refer to the General Comments section for an explanation of any qualifiers detected.

No Breaches Found

Key:

ON153/04

Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011)

T2-GW-C-All

T2-Ground Water (Coarse Soil)-All Types of Property Use



Analytical Results

				Client sample ID						
				Sampling date/time						
					BH107					
					16-Jun-2022					
					10:00					
Analyte	Method	LOR	Unit	WT2205887-004	ON153/04 T2-GW-C-All					
Dissolved Metals										
antimony, dissolved	E421	0.10	µg/L	<0.10	6 µg/L					
arsenic, dissolved	E421	0.10	µg/L	<0.10	25 µg/L					
barium, dissolved	E421	0.10	µg/L	58.6	1000 µg/L					
beryllium, dissolved	E421	0.020	µg/L	<0.020	4 µg/L					
boron, dissolved	E421	10	µg/L	26	5000 µg/L					
cadmium, dissolved	E421	0.0050	µg/L	0.0060	2.7 µg/L					
chromium, dissolved	E421	0.50	µg/L	<0.50	50 µg/L					
cobalt, dissolved	E421	0.10	µg/L	<0.10	3.8 µg/L					
copper, dissolved	E421	0.20	µg/L	0.52	87 µg/L					
lead, dissolved	E421	0.050	µg/L	<0.050	10 µg/L					
mercury, dissolved	E509	0.0050	µg/L	<0.0050	0.29 µg/L					
molybdenum, dissolved	E421	0.050	µg/L	0.211	70 µg/L					
nickel, dissolved	E421	0.50	µg/L	<0.50	100 µg/L					
selenium, dissolved	E421	0.050	µg/L	0.576	10 µg/L					
silver, dissolved	E421	0.010	µg/L	<0.010	1.5 µg/L					
sodium, dissolved	E421	50	µg/L	37100	490000 µg/L					
thallium, dissolved	E421	0.010	µg/L	<0.010	2 µg/L					
uranium, dissolved	E421	0.010	µg/L	0.424	20 µg/L					
vanadium, dissolved	E421	0.50	µg/L	<0.50	6.2 µg/L					
zinc, dissolved	E421	1.0	µg/L	9.2	1100 µg/L					
dissolved mercury filtration location	EP509		-	Field						
dissolved metals filtration location	EP421		-	Field						
Speciated Metals										
chromium, hexavalent [Cr VI], dissolved	E532A	0.50	µg/L	<0.50						
Organochlorine Pesticides										
aldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					
chlordane, cis- (alpha)	E660F	0.0080	µg/L	<0.0080						
chlordane, total	E660F	0.011	µg/L	<0.011	7 µg/L					



Analyte	Method	LOR	Unit	WT2205887-004 (Continued)	ON153/04 T2-GW-C-All					
Organochlorine Pesticides - Continued										
chlordane, trans- (gamma)	E660F	0.0080	µg/L	<0.0080						
DDD, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDE, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDT, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, total	E660F	0.0060	µg/L	<0.0060	2.8 µg/L					
dieldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					
endosulfan, alpha-	E660F	0.0070	µg/L	<0.0070						
endosulfan, beta-	E660F	0.0070	µg/L	<0.0070						
endosulfan, total	E660F	0.010	µg/L	<0.010	1.5 µg/L					
endrin	E660F	0.010	µg/L	<0.010	0.48 µg/L					
heptachlor epoxide	E660F	0.0080	µg/L	<0.0080	0.048 µg/L					
heptachlor	E660F	0.0080	µg/L	<0.0080	1.5 µg/L					
hexachlorobenzene	E660F	0.0080	µg/L	<0.0080	1 µg/L					
hexachlorobutadiene	E660F	0.0080	µg/L	<0.0080	0.44 µg/L					
hexachlorocyclohexane, gamma-	E660F	0.0080	µg/L	<0.0080	1.2 µg/L					
hexachloroethane	E660F	0.0080	µg/L	<0.0080	2.1 µg/L					
methoxychlor	E660F	0.0080	µg/L	<0.0080	6.5 µg/L					
decachlorobiphenyl	E660F	0.10	%	129						
tetrachloro-m-xylene	E660F	0.10	%	103						

Please refer to the General Comments section for an explanation of any qualifiers detected.

No Breaches Found

Key:

ON153/04

Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011)

T2-GW-C-All

T2-Ground Water (Coarse Soil)-All Types of Property Use



Analytical Results

				Client sample ID						
				Sampling date/time						
					BH109					
					16-Jun-2022					
					14:45					
Analyte	Method	LOR	Unit	WT2205887-005	ON153/04	T2-GW-C-All				
Dissolved Metals										
antimony, dissolved	E421	0.10	µg/L	<0.10	6 µg/L					
arsenic, dissolved	E421	0.10	µg/L	0.11	25 µg/L					
barium, dissolved	E421	0.10	µg/L	68.4	1000 µg/L					
beryllium, dissolved	E421	0.020	µg/L	<0.020	4 µg/L					
boron, dissolved	E421	10	µg/L	26	5000 µg/L					
cadmium, dissolved	E421	0.0050	µg/L	0.0491	2.7 µg/L					
chromium, dissolved	E421	0.50	µg/L	0.58	50 µg/L					
cobalt, dissolved	E421	0.10	µg/L	<0.10	3.8 µg/L					
copper, dissolved	E421	0.20	µg/L	1.61	87 µg/L					
lead, dissolved	E421	0.050	µg/L	<0.050	10 µg/L					
mercury, dissolved	E509	0.0050	µg/L	<0.0050	0.29 µg/L					
molybdenum, dissolved	E421	0.050	µg/L	0.190	70 µg/L					
nickel, dissolved	E421	0.50	µg/L	<0.50	100 µg/L					
selenium, dissolved	E421	0.050	µg/L	0.368	10 µg/L					
silver, dissolved	E421	0.010	µg/L	<0.010	1.5 µg/L					
sodium, dissolved	E421	50	µg/L	30800	490000 µg/L					
thallium, dissolved	E421	0.010	µg/L	<0.010	2 µg/L					
uranium, dissolved	E421	0.010	µg/L	0.451	20 µg/L					
vanadium, dissolved	E421	0.50	µg/L	<0.50	6.2 µg/L					
zinc, dissolved	E421	1.0	µg/L	29.4	1100 µg/L					
dissolved mercury filtration location	EP509		-	Field						
dissolved metals filtration location	EP421		-	Field						
Speciated Metals										
chromium, hexavalent [Cr VI], dissolved	E532A	0.50	µg/L	<0.50						
Volatile Organic Compounds										
acetone	E611D	20	µg/L	30	2700 µg/L					
benzene	E611D	0.50	µg/L	<0.50	5 µg/L					
bromodichloromethane	E611D	0.50	µg/L	<0.50	16 µg/L					



Analyte	Method	LOR	Unit	WT2205887-005 (Continued)	ON153/04 T2-GW-C-All					
Volatile Organic Compounds - Continued										
bromoform	E611D	0.50	µg/L	<0.50	25 µg/L					
bromomethane	E611D	0.50	µg/L	<0.50	0.89 µg/L					
carbon tetrachloride	E611D	0.20	µg/L	<0.20	0.79 µg/L					
chlorobenzene	E611D	0.50	µg/L	<0.50	30 µg/L					
chloroform	E611D	0.50	µg/L	<0.50	2.4 µg/L					
dibromochloromethane	E611D	0.50	µg/L	<0.50	25 µg/L					
dibromoethane, 1,2-	E611D	0.20	µg/L	<0.20	0.2 µg/L					
dichlorobenzene, 1,2-	E611D	0.50	µg/L	<0.50	3 µg/L					
dichlorobenzene, 1,3-	E611D	0.50	µg/L	<0.50	59 µg/L					
dichlorobenzene, 1,4-	E611D	0.50	µg/L	<0.50	1 µg/L					
dichlorodifluoromethane	E611D	0.50	µg/L	<0.50	590 µg/L					
dichloroethane, 1,1-	E611D	0.50	µg/L	<0.50	5 µg/L					
dichloroethane, 1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, 1,1-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, cis-1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, trans-1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloromethane	E611D	1.0	µg/L	<1.0	50 µg/L					
dichloropropane, 1,2-	E611D	0.50	µg/L	<0.50	5 µg/L					
dichloropropylene, cis+trans-1,3-	E611D	0.50	µg/L	<0.50	0.5 µg/L					
dichloropropylene, cis-1,3-	E611D	0.30	µg/L	<0.30						
dichloropropylene, trans-1,3-	E611D	0.30	µg/L	<0.30						
ethylbenzene	E611D	0.50	µg/L	<0.50	2.4 µg/L					
hexane, n-	E611D	0.50	µg/L	<0.50	51 µg/L					
methyl ethyl ketone [MEK]	E611D	20	µg/L	<20	1800 µg/L					
methyl isobutyl ketone [MIBK]	E611D	20	µg/L	<20	640 µg/L					
methyl-tert-butyl ether [MTBE]	E611D	0.50	µg/L	<0.50	15 µg/L					
styrene	E611D	0.50	µg/L	<0.50	5.4 µg/L					
tetrachloroethane, 1,1,1,2-	E611D	0.50	µg/L	<0.50	1.1 µg/L					
tetrachloroethane, 1,1,2,2-	E611D	0.50	µg/L	<0.50	1 µg/L					
tetrachloroethylene	E611D	0.50	µg/L	<0.50	1.6 µg/L					
toluene	E611D	0.50	µg/L	<0.50	24 µg/L					
trichloroethane, 1,1,1-	E611D	0.50	µg/L	<0.50	200 µg/L					
trichloroethane, 1,1,2-	E611D	0.50	µg/L	<0.50	4.7 µg/L					
trichloroethylene	E611D	0.50	µg/L	<0.50	1.6 µg/L					



Analyte	Method	LOR	Unit	WT2205887-005 (Continued)	ON153/04 T2-GW-C-All					
Volatile Organic Compounds - Continued										
trichlorofluoromethane	E611D	0.50	µg/L	<0.50	150 µg/L					
vinyl chloride	E611D	0.50	µg/L	<0.50	0.5 µg/L					
xylene, m+p-	E611D	0.40	µg/L	<0.40						
xylene, o-	E611D	0.30	µg/L	<0.30						
xylenes, total	E611D	0.50	µg/L	<0.50	300 µg/L					
BTEX, total	E611D	1.0	µg/L	<1.0						
bromofluorobenzene, 4-	E611D	1.0	%	104						
difluorobenzene, 1,4-	E611D	1.0	%	98.2						
Hydrocarbons										
F1 (C6-C10)	E581.F1-L	25	µg/L	<25	750 µg/L					
F2 (C10-C16)	E601.SG	100	µg/L	<100	150 µg/L					
F3 (C16-C34)	E601.SG	250	µg/L	<250	500 µg/L					
F4 (C34-C50)	E601.SG	250	µg/L	<250	500 µg/L					
F1-BTEX	EC580	25	µg/L	<25	750 µg/L					
hydrocarbons, total (C6-C50)	EC581SG	240	µg/L	<370						
chromatogram to baseline at nC50	E601.SG		-	YES						
bromobenzotrifluoride, 2- (F2-F4 surr)	E601.SG	1.0	%	82.4						
dichlorotoluene, 3,4-	E581.F1-L	1.0	%	89.2						
Organochlorine Pesticides										
aldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					
chlordane, cis- (alpha)	E660F	0.0080	µg/L	<0.0080						
chlordane, total	E660F	0.011	µg/L	<0.011	7 µg/L					
chlordane, trans- (gamma)	E660F	0.0080	µg/L	<0.0080						
DDD, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDE, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDT, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, total	E660F	0.0060	µg/L	<0.0060	2.8 µg/L					
dieldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					



Analyte	Method	LOR	Unit	WT2205887-005 (Continued)	ON153/04 T2-GW-C-All					
Organochlorine Pesticides - Continued										
endosulfan, alpha-	E660F	0.0070	µg/L	<0.0070						
endosulfan, beta-	E660F	0.0070	µg/L	<0.0070						
endosulfan, total	E660F	0.010	µg/L	<0.010	1.5 µg/L					
endrin	E660F	0.010	µg/L	<0.010	0.48 µg/L					
heptachlor epoxide	E660F	0.0080	µg/L	<0.0080	0.048 µg/L					
heptachlor	E660F	0.0080	µg/L	<0.0080	1.5 µg/L					
hexachlorobenzene	E660F	0.0080	µg/L	<0.0080	1 µg/L					
hexachlorobutadiene	E660F	0.0080	µg/L	<0.0080	0.44 µg/L					
hexachlorocyclohexane, gamma-	E660F	0.0080	µg/L	<0.0080	1.2 µg/L					
hexachloroethane	E660F	0.0080	µg/L	<0.0080	2.1 µg/L					
methoxychlor	E660F	0.0080	µg/L	<0.0080	6.5 µg/L					
decachlorobiphenyl	E660F	0.10	%	119						
tetrachloro-m-xylene	E660F	0.10	%	95.4						

Please refer to the General Comments section for an explanation of any qualifiers detected.

No Breaches Found

Key:

ON153/04

Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011)

T2-GW-C-All

T2-Ground Water (Coarse Soil)-All Types of Property Use



Analytical Results

				Client sample ID						
				Sampling date/time						
					BH113					
					16-Jun-2022					
					11:00					
Analyte	Method	LOR	Unit	WT2205887-006	ON153/04	T2-GW-C-All				
Dissolved Metals										
antimony, dissolved	E421	0.10	µg/L	<0.10	6 µg/L					
arsenic, dissolved	E421	0.10	µg/L	<0.10	25 µg/L					
barium, dissolved	E421	0.10	µg/L	77.2	1000 µg/L					
beryllium, dissolved	E421	0.020	µg/L	<0.020	4 µg/L					
boron, dissolved	E421	10	µg/L	25	5000 µg/L					
cadmium, dissolved	E421	0.0050	µg/L	0.0228	2.7 µg/L					
chromium, dissolved	E421	0.50	µg/L	<0.50	50 µg/L					
cobalt, dissolved	E421	0.10	µg/L	<0.10	3.8 µg/L					
copper, dissolved	E421	0.20	µg/L	0.67	87 µg/L					
lead, dissolved	E421	0.050	µg/L	<0.050	10 µg/L					
mercury, dissolved	E509	0.0050	µg/L	<0.0050	0.29 µg/L					
molybdenum, dissolved	E421	0.050	µg/L	0.134	70 µg/L					
nickel, dissolved	E421	0.50	µg/L	<0.50	100 µg/L					
selenium, dissolved	E421	0.050	µg/L	0.403	10 µg/L					
silver, dissolved	E421	0.010	µg/L	<0.010	1.5 µg/L					
sodium, dissolved	E421	50	µg/L	32300	490000 µg/L					
thallium, dissolved	E421	0.010	µg/L	<0.010	2 µg/L					
uranium, dissolved	E421	0.010	µg/L	0.385	20 µg/L					
vanadium, dissolved	E421	0.50	µg/L	<0.50	6.2 µg/L					
zinc, dissolved	E421	1.0	µg/L	8.2	1100 µg/L					
dissolved mercury filtration location	EP509		-	Field						
dissolved metals filtration location	EP421		-	Field						
Speciated Metals										
chromium, hexavalent [Cr VI], dissolved	E532A	0.50	µg/L	<0.50						
Organochlorine Pesticides										
aldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					
chlordane, cis- (alpha)	E660F	0.0080	µg/L	<0.0080						
chlordane, total	E660F	0.011	µg/L	<0.011	7 µg/L					



Analyte	Method	LOR	Unit	WT2205887-006 (Continued)	ON153/04 T2-GW-C-All					
Organochlorine Pesticides - Continued										
chlordane, trans- (gamma)	E660F	0.0080	µg/L	<0.0080						
DDD, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDE, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDT, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, total	E660F	0.0060	µg/L	<0.0060	2.8 µg/L					
dieldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					
endosulfan, alpha-	E660F	0.0070	µg/L	<0.0070						
endosulfan, beta-	E660F	0.0070	µg/L	<0.0070						
endosulfan, total	E660F	0.010	µg/L	<0.010	1.5 µg/L					
endrin	E660F	0.010	µg/L	<0.010	0.48 µg/L					
heptachlor epoxide	E660F	0.0080	µg/L	<0.0080	0.048 µg/L					
heptachlor	E660F	0.0080	µg/L	<0.0080	1.5 µg/L					
hexachlorobenzene	E660F	0.0080	µg/L	<0.0080	1 µg/L					
hexachlorobutadiene	E660F	0.0080	µg/L	<0.0080	0.44 µg/L					
hexachlorocyclohexane, gamma-	E660F	0.0080	µg/L	<0.0080	1.2 µg/L					
hexachloroethane	E660F	0.0080	µg/L	<0.0080	2.1 µg/L					
methoxychlor	E660F	0.0080	µg/L	<0.0080	6.5 µg/L					
decachlorobiphenyl	E660F	0.10	%	110						
tetrachloro-m-xylene	E660F	0.10	%	86.4						

Please refer to the General Comments section for an explanation of any qualifiers detected.

No Breaches Found

Key:

ON153/04

Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011)

T2-GW-C-All

T2-Ground Water (Coarse Soil)-All Types of Property Use



Analytical Results

				Client sample ID						
				Sampling date/time						
					BH115					
					16-Jun-2022					
					11:45					
Analyte	Method	LOR	Unit	WT2205887-007	ON153/04	T2-GW-C-All				
Dissolved Metals										
antimony, dissolved	E421	0.10	µg/L	<0.10	6 µg/L					
arsenic, dissolved	E421	0.10	µg/L	<0.10	25 µg/L					
barium, dissolved	E421	0.10	µg/L	49.1	1000 µg/L					
beryllium, dissolved	E421	0.020	µg/L	<0.020	4 µg/L					
boron, dissolved	E421	10	µg/L	17	5000 µg/L					
cadmium, dissolved	E421	0.0050	µg/L	0.141	2.7 µg/L					
chromium, dissolved	E421	0.50	µg/L	<0.50	50 µg/L					
cobalt, dissolved	E421	0.10	µg/L	<0.10	3.8 µg/L					
copper, dissolved	E421	0.20	µg/L	5.28	87 µg/L					
lead, dissolved	E421	0.050	µg/L	0.139	10 µg/L					
mercury, dissolved	E509	0.0050	µg/L	<0.0050	0.29 µg/L					
molybdenum, dissolved	E421	0.050	µg/L	0.362	70 µg/L					
nickel, dissolved	E421	0.50	µg/L	<0.50	100 µg/L					
selenium, dissolved	E421	0.050	µg/L	0.352	10 µg/L					
silver, dissolved	E421	0.010	µg/L	<0.010	1.5 µg/L					
sodium, dissolved	E421	50	µg/L	14900	490000 µg/L					
thallium, dissolved	E421	0.010	µg/L	<0.010	2 µg/L					
uranium, dissolved	E421	0.010	µg/L	0.248	20 µg/L					
vanadium, dissolved	E421	0.50	µg/L	<0.50	6.2 µg/L					
zinc, dissolved	E421	1.0	µg/L	28.1	1100 µg/L					
dissolved mercury filtration location	EP509		-	Field						
dissolved metals filtration location	EP421		-	Field						
Speciated Metals										
chromium, hexavalent [Cr VI], dissolved	E532A	0.50	µg/L	<0.50						
Organochlorine Pesticides										
aldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					
chlordane, cis- (alpha)	E660F	0.0080	µg/L	<0.0080						
chlordane, total	E660F	0.011	µg/L	<0.011	7 µg/L					



Analyte	Method	LOR	Unit	WT2205887-007 (Continued)	ON153/04 T2-GW-C-All					
Organochlorine Pesticides - Continued										
chlordane, trans- (gamma)	E660F	0.0080	µg/L	<0.0080						
DDD, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDE, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDT, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, total	E660F	0.0060	µg/L	<0.0060	2.8 µg/L					
dieldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					
endosulfan, alpha-	E660F	0.0070	µg/L	<0.0070						
endosulfan, beta-	E660F	0.0070	µg/L	<0.0070						
endosulfan, total	E660F	0.010	µg/L	<0.010	1.5 µg/L					
endrin	E660F	0.010	µg/L	<0.010	0.48 µg/L					
heptachlor epoxide	E660F	0.0080	µg/L	<0.0080	0.048 µg/L					
heptachlor	E660F	0.0080	µg/L	<0.0080	1.5 µg/L					
hexachlorobenzene	E660F	0.0080	µg/L	<0.0080	1 µg/L					
hexachlorobutadiene	E660F	0.0080	µg/L	<0.0080	0.44 µg/L					
hexachlorocyclohexane, gamma-	E660F	0.0080	µg/L	<0.0080	1.2 µg/L					
hexachloroethane	E660F	0.0080	µg/L	<0.0080	2.1 µg/L					
methoxychlor	E660F	0.0080	µg/L	<0.0080	6.5 µg/L					
decachlorobiphenyl	E660F	0.10	%	112						
tetrachloro-m-xylene	E660F	0.10	%	79.7						

Please refer to the General Comments section for an explanation of any qualifiers detected.

No Breaches Found

Key:

ON153/04

Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011)

T2-GW-C-All

T2-Ground Water (Coarse Soil)-All Types of Property Use



Analytical Results

				Client sample ID						
				Sampling date/time						
Sub-Matrix: Water (Matrix: Water)					BH116					
					16-Jun-2022 12:30					
Analyte	Method	LOR	Unit	WT2205887-008	ON153/04 T2-GW-C-All					
Dissolved Metals										
antimony, dissolved	E421	0.10	µg/L	<0.10	6 µg/L					
arsenic, dissolved	E421	0.10	µg/L	<0.10	25 µg/L					
barium, dissolved	E421	0.10	µg/L	36.5	1000 µg/L					
beryllium, dissolved	E421	0.020	µg/L	<0.020	4 µg/L					
boron, dissolved	E421	10	µg/L	12	5000 µg/L					
cadmium, dissolved	E421	0.0050	µg/L	0.0118	2.7 µg/L					
chromium, dissolved	E421	0.50	µg/L	<0.50	50 µg/L					
cobalt, dissolved	E421	0.10	µg/L	<0.10	3.8 µg/L					
copper, dissolved	E421	0.20	µg/L	0.45	87 µg/L					
lead, dissolved	E421	0.050	µg/L	<0.050	10 µg/L					
mercury, dissolved	E509	0.0050	µg/L	<0.0050	0.29 µg/L					
molybdenum, dissolved	E421	0.050	µg/L	0.326	70 µg/L					
nickel, dissolved	E421	0.50	µg/L	<0.50	100 µg/L					
selenium, dissolved	E421	0.050	µg/L	0.416	10 µg/L					
silver, dissolved	E421	0.010	µg/L	<0.010	1.5 µg/L					
sodium, dissolved	E421	50	µg/L	12600	490000 µg/L					
thallium, dissolved	E421	0.010	µg/L	<0.010	2 µg/L					
uranium, dissolved	E421	0.010	µg/L	0.382	20 µg/L					
vanadium, dissolved	E421	0.50	µg/L	<0.50	6.2 µg/L					
zinc, dissolved	E421	1.0	µg/L	4.6	1100 µg/L					
dissolved mercury filtration location	EP509		-	Field						
dissolved metals filtration location	EP421		-	Field						
Speciated Metals										
chromium, hexavalent [Cr VI], dissolved	E532A	0.50	µg/L	<0.50						
Organochlorine Pesticides										
aldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					
chlordane, cis- (alpha)	E660F	0.0080	µg/L	<0.0080						
chlordane, total	E660F	0.011	µg/L	<0.011	7 µg/L					



Analyte	Method	LOR	Unit	WT2205887-008 (Continued)	ON153/04 T2-GW-C-All					
Organochlorine Pesticides - Continued										
chlordane, trans- (gamma)	E660F	0.0080	µg/L	<0.0080						
DDD, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDE, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDT, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, total	E660F	0.0060	µg/L	<0.0060	2.8 µg/L					
dieldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					
endosulfan, alpha-	E660F	0.0070	µg/L	<0.0070						
endosulfan, beta-	E660F	0.0070	µg/L	<0.0070						
endosulfan, total	E660F	0.010	µg/L	<0.010	1.5 µg/L					
endrin	E660F	0.010	µg/L	<0.010	0.48 µg/L					
heptachlor epoxide	E660F	0.0080	µg/L	<0.0080	0.048 µg/L					
heptachlor	E660F	0.0080	µg/L	<0.0080	1.5 µg/L					
hexachlorobenzene	E660F	0.0080	µg/L	<0.0080	1 µg/L					
hexachlorobutadiene	E660F	0.0080	µg/L	<0.0080	0.44 µg/L					
hexachlorocyclohexane, gamma-	E660F	0.0080	µg/L	<0.0080	1.2 µg/L					
hexachloroethane	E660F	0.0080	µg/L	<0.0080	2.1 µg/L					
methoxychlor	E660F	0.0080	µg/L	<0.0080	6.5 µg/L					
decachlorobiphenyl	E660F	0.10	%	118						
tetrachloro-m-xylene	E660F	0.10	%	91.7						

Please refer to the General Comments section for an explanation of any qualifiers detected.

No Breaches Found

Key:

ON153/04

Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011)

T2-GW-C-All

T2-Ground Water (Coarse Soil)-All Types of Property Use



Analytical Results

				Client sample ID	DUP					
Sub-Matrix: Water (Matrix: Water)				Sampling date/time	16-Jun-2022 14:00					
Analyte	Method	LOR	Unit	WT2205887-009	ON153/04 T2-GW-C-All					
Dissolved Metals										
antimony, dissolved	E421	0.10	µg/L	<0.10	6 µg/L					
arsenic, dissolved	E421	0.10	µg/L	0.15	25 µg/L					
barium, dissolved	E421	0.10	µg/L	92.1	1000 µg/L					
beryllium, dissolved	E421	0.020	µg/L	<0.020	4 µg/L					
boron, dissolved	E421	10	µg/L	34	5000 µg/L					
cadmium, dissolved	E421	0.0050	µg/L	0.0346	2.7 µg/L					
chromium, dissolved	E421	0.50	µg/L	<0.50	50 µg/L					
cobalt, dissolved	E421	0.10	µg/L	<0.10	3.8 µg/L					
copper, dissolved	E421	0.20	µg/L	0.90	87 µg/L					
lead, dissolved	E421	0.050	µg/L	<0.050	10 µg/L					
mercury, dissolved	E509	0.0050	µg/L	<0.0050	0.29 µg/L					
molybdenum, dissolved	E421	0.050	µg/L	0.759	70 µg/L					
nickel, dissolved	E421	0.50	µg/L	<0.50	100 µg/L					
selenium, dissolved	E421	0.050	µg/L	0.358	10 µg/L					
silver, dissolved	E421	0.010	µg/L	<0.010	1.5 µg/L					
sodium, dissolved	E421	50	µg/L	44600	490000 µg/L					
thallium, dissolved	E421	0.010	µg/L	<0.010	2 µg/L					
uranium, dissolved	E421	0.010	µg/L	0.633	20 µg/L					
vanadium, dissolved	E421	0.50	µg/L	<0.50	6.2 µg/L					
zinc, dissolved	E421	1.0	µg/L	42.4	1100 µg/L					
dissolved mercury filtration location	EP509		-	Field						
dissolved metals filtration location	EP421		-	Field						
Speciated Metals										
chromium, hexavalent [Cr VI], dissolved	E532A	0.50	µg/L	<0.50						
Volatile Organic Compounds										
acetone	E611D	20	µg/L	<20	2700 µg/L					
benzene	E611D	0.50	µg/L	<0.50	5 µg/L					
bromodichloromethane	E611D	0.50	µg/L	<0.50	16 µg/L					



Analyte	Method	LOR	Unit	WT2205887-009 (Continued)	ON153/04 T2-GW-C-All					
Volatile Organic Compounds - Continued										
bromoform	E611D	0.50	µg/L	<0.50	25 µg/L					
bromomethane	E611D	0.50	µg/L	<0.50	0.89 µg/L					
carbon tetrachloride	E611D	0.20	µg/L	<0.20	0.79 µg/L					
chlorobenzene	E611D	0.50	µg/L	<0.50	30 µg/L					
chloroform	E611D	0.50	µg/L	<0.50	2.4 µg/L					
dibromochloromethane	E611D	0.50	µg/L	<0.50	25 µg/L					
dibromoethane, 1,2-	E611D	0.20	µg/L	<0.20	0.2 µg/L					
dichlorobenzene, 1,2-	E611D	0.50	µg/L	<0.50	3 µg/L					
dichlorobenzene, 1,3-	E611D	0.50	µg/L	<0.50	59 µg/L					
dichlorobenzene, 1,4-	E611D	0.50	µg/L	<0.50	1 µg/L					
dichlorodifluoromethane	E611D	0.50	µg/L	<0.50	590 µg/L					
dichloroethane, 1,1-	E611D	0.50	µg/L	<0.50	5 µg/L					
dichloroethane, 1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, 1,1-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, cis-1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, trans-1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloromethane	E611D	1.0	µg/L	<1.0	50 µg/L					
dichloropropane, 1,2-	E611D	0.50	µg/L	<0.50	5 µg/L					
dichloropropylene, cis+trans-1,3-	E611D	0.50	µg/L	<0.50	0.5 µg/L					
dichloropropylene, cis-1,3-	E611D	0.30	µg/L	<0.30						
dichloropropylene, trans-1,3-	E611D	0.30	µg/L	<0.30						
ethylbenzene	E611D	0.50	µg/L	<0.50	2.4 µg/L					
hexane, n-	E611D	0.50	µg/L	<0.50	51 µg/L					
methyl ethyl ketone [MEK]	E611D	20	µg/L	<20	1800 µg/L					
methyl isobutyl ketone [MIBK]	E611D	20	µg/L	<20	640 µg/L					
methyl-tert-butyl ether [MTBE]	E611D	0.50	µg/L	<0.50	15 µg/L					
styrene	E611D	0.50	µg/L	<0.50	5.4 µg/L					
tetrachloroethane, 1,1,1,2-	E611D	0.50	µg/L	<0.50	1.1 µg/L					
tetrachloroethane, 1,1,2,2-	E611D	0.50	µg/L	<0.50	1 µg/L					
tetrachloroethylene	E611D	0.50	µg/L	<0.50	1.6 µg/L					
toluene	E611D	0.50	µg/L	<0.50	24 µg/L					
trichloroethane, 1,1,1-	E611D	0.50	µg/L	<0.50	200 µg/L					
trichloroethane, 1,1,2-	E611D	0.50	µg/L	<0.50	4.7 µg/L					
trichloroethylene	E611D	0.50	µg/L	<0.50	1.6 µg/L					



Analyte	Method	LOR	Unit	WT2205887-009 (Continued)	ON153/04 T2-GW-C-All					
Volatile Organic Compounds - Continued										
trichlorofluoromethane	E611D	0.50	µg/L	<0.50	150 µg/L					
vinyl chloride	E611D	0.50	µg/L	<0.50	0.5 µg/L					
xylene, m+p-	E611D	0.40	µg/L	<0.40						
xylene, o-	E611D	0.30	µg/L	<0.30						
xylenes, total	E611D	0.50	µg/L	<0.50	300 µg/L					
BTEX, total	E611D	1.0	µg/L	<1.0						
bromofluorobenzene, 4-	E611D	1.0	%	104						
difluorobenzene, 1,4-	E611D	1.0	%	97.1						
Hydrocarbons										
F1 (C6-C10)	E581.F1-L	25	µg/L	<25	750 µg/L					
F2 (C10-C16)	E601.SG	100	µg/L	<100	150 µg/L					
F3 (C16-C34)	E601.SG	250	µg/L	<250	500 µg/L					
F4 (C34-C50)	E601.SG	250	µg/L	<250	500 µg/L					
F1-BTEX	EC580	25	µg/L	<25	750 µg/L					
hydrocarbons, total (C6-C50)	EC581SG	240	µg/L	<370						
chromatogram to baseline at nC50	E601.SG		-	YES						
bromobenzotrifluoride, 2- (F2-F4 surr)	E601.SG	1.0	%	81.0						
dichlorotoluene, 3,4-	E581.F1-L	1.0	%	103						
Organochlorine Pesticides										
aldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					
chlordane, cis- (alpha)	E660F	0.0080	µg/L	<0.0080						
chlordane, total	E660F	0.011	µg/L	<0.011	7 µg/L					
chlordane, trans- (gamma)	E660F	0.0080	µg/L	<0.0080						
DDD, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDD, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDE, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDE, total	E660F	0.0060	µg/L	<0.0060	10 µg/L					
DDT, 2,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, 4,4'-	E660F	0.0040	µg/L	<0.0042						
DDT, total	E660F	0.0060	µg/L	<0.0060	2.8 µg/L					
dieldrin	E660F	0.0080	µg/L	<0.0080	0.35 µg/L					



Analyte	Method	LOR	Unit	WT2205887-009 (Continued)	ON153/04 T2-GW-C-All					
Organochlorine Pesticides - Continued										
endosulfan, alpha-	E660F	0.0070	µg/L	<0.0070						
endosulfan, beta-	E660F	0.0070	µg/L	<0.0070						
endosulfan, total	E660F	0.010	µg/L	<0.010	1.5 µg/L					
endrin	E660F	0.010	µg/L	<0.010	0.48 µg/L					
heptachlor epoxide	E660F	0.0080	µg/L	<0.0080	0.048 µg/L					
heptachlor	E660F	0.0080	µg/L	<0.0080	1.5 µg/L					
hexachlorobenzene	E660F	0.0080	µg/L	<0.0080	1 µg/L					
hexachlorobutadiene	E660F	0.0080	µg/L	<0.0080	0.44 µg/L					
hexachlorocyclohexane, gamma-	E660F	0.0080	µg/L	<0.0080	1.2 µg/L					
hexachloroethane	E660F	0.0080	µg/L	<0.0080	2.1 µg/L					
methoxychlor	E660F	0.0080	µg/L	<0.0080	6.5 µg/L					
decachlorobiphenyl	E660F	0.10	%	132	SUR-ND					
tetrachloro-m-xylene	E660F	0.10	%	93.3						

Please refer to the General Comments section for an explanation of any qualifiers detected.

No Breaches Found

Key:

ON153/04

Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011)

T2-GW-C-All

T2-Ground Water (Coarse Soil)-All Types of Property Use



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID
 Sampling date/time

Analyte	Method	LOR	Unit	TRIP BLANK	ON153/04 T2-GW-C-All					
				16-Jun-2022 00:00						
				WT2205887-010						
Volatile Organic Compounds										
acetone	E611D	20	µg/L	<20	2700 µg/L					
benzene	E611D	0.50	µg/L	<0.50	5 µg/L					
bromodichloromethane	E611D	0.50	µg/L	<0.50	16 µg/L					
bromoform	E611D	0.50	µg/L	<0.50	25 µg/L					
bromomethane	E611D	0.50	µg/L	<0.50	0.89 µg/L					
carbon tetrachloride	E611D	0.20	µg/L	<0.20	0.79 µg/L					
chlorobenzene	E611D	0.50	µg/L	<0.50	30 µg/L					
chloroform	E611D	0.50	µg/L	<0.50	2.4 µg/L					
dibromochloromethane	E611D	0.50	µg/L	<0.50	25 µg/L					
dibromoethane, 1,2-	E611D	0.20	µg/L	<0.20	0.2 µg/L					
dichlorobenzene, 1,2-	E611D	0.50	µg/L	<0.50	3 µg/L					
dichlorobenzene, 1,3-	E611D	0.50	µg/L	<0.50	59 µg/L					
dichlorobenzene, 1,4-	E611D	0.50	µg/L	<0.50	1 µg/L					
dichlorodifluoromethane	E611D	0.50	µg/L	<0.50	590 µg/L					
dichloroethane, 1,1-	E611D	0.50	µg/L	<0.50	5 µg/L					
dichloroethane, 1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, 1,1-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, cis-1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloroethylene, trans-1,2-	E611D	0.50	µg/L	<0.50	1.6 µg/L					
dichloromethane	E611D	1.0	µg/L	<1.0	50 µg/L					
dichloropropane, 1,2-	E611D	0.50	µg/L	<0.50	5 µg/L					
dichloropropylene, cis+trans-1,3-	E611D	0.50	µg/L	<0.50	0.5 µg/L					
dichloropropylene, cis-1,3-	E611D	0.30	µg/L	<0.30						
dichloropropylene, trans-1,3-	E611D	0.30	µg/L	<0.30						
ethylbenzene	E611D	0.50	µg/L	<0.50	2.4 µg/L					
hexane, n-	E611D	0.50	µg/L	<0.50	51 µg/L					
methyl ethyl ketone [MEK]	E611D	20	µg/L	<20	1800 µg/L					
methyl isobutyl ketone [MIBK]	E611D	20	µg/L	<20	640 µg/L					
methyl-tert-butyl ether [MTBE]	E611D	0.50	µg/L	<0.50	15 µg/L					
styrene	E611D	0.50	µg/L	<0.50	5.4 µg/L					



Analyte	Method	LOR	Unit	WT2205887-010 (Continued)	ON153/04 T2-GW-C-All					
Volatile Organic Compounds - Continued										
tetrachloroethane, 1,1,1,2-	E611D	0.50	µg/L	<0.50	1.1 µg/L					
tetrachloroethane, 1,1,2,2-	E611D	0.50	µg/L	<0.50	1 µg/L					
tetrachloroethylene	E611D	0.50	µg/L	<0.50	1.6 µg/L					
toluene	E611D	0.50	µg/L	<0.50	24 µg/L					
trichloroethane, 1,1,1-	E611D	0.50	µg/L	<0.50	200 µg/L					
trichloroethane, 1,1,2-	E611D	0.50	µg/L	<0.50	4.7 µg/L					
trichloroethylene	E611D	0.50	µg/L	<0.50	1.6 µg/L					
trichlorofluoromethane	E611D	0.50	µg/L	<0.50	150 µg/L					
vinyl chloride	E611D	0.50	µg/L	<0.50	0.5 µg/L					
xylene, m+p-	E611D	0.40	µg/L	<0.40						
xylene, o-	E611D	0.30	µg/L	<0.30						
xylenes, total	E611D	0.50	µg/L	<0.50	300 µg/L					
BTEX, total	E611D	1.0	µg/L	<1.0						
bromofluorobenzene, 4-	E611D	1.0	%	105						
difluorobenzene, 1,4-	E611D	1.0	%	98.2						

Please refer to the General Comments section for an explanation of any qualifiers detected.

No Breaches Found

Key:

ON153/04 Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011)

T2-GW-C-All T2-Ground Water (Coarse Soil)-All Types of Property Use