

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

60 Dundas Street East
Mississauga, Ontario

PREPARED FOR:

ACLP – Dundas St E
25 Watline Ave. Suite 501
Mississauga ON, L4Z 2Z1

ATTENTION:

Spencer Shafran

Grounded Engineering Inc.

File No. 21-067

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TABLE OF CONTENTS

1	EXECUTIVE SUMMARY	5
2	INTRODUCTION	7
2.1	SITE DESCRIPTION	7
2.2	PROPERTY OWNERSHIP.....	7
2.3	CURRENT AND PROPOSED FUTURE USES	7
2.4	APPLICABLE SITE CONDITION STANDARD.....	8
3	BACKGROUND INFORMATION	8
3.1	PHYSICAL SETTING.....	8
3.2	PAST INVESTIGATIONS.....	10
4	SCOPE OF THE INVESTIGATION.....	13
4.1	OVERVIEW OF SITE INVESTIGATION	13
4.2	MEDIA INVESTIGATED	14
4.2.1	Rationale for Exclusion and Inclusion of Media.....	14
4.2.2	Overview of Field Investigation of Media.....	15
4.3	PHASE ONE CONCEPTUAL SITE MODEL	15
4.4	DEVIATIONS FROM SAMPLING AND ANALYSIS PLAN	15
4.5	IMPEDIMENTS.....	15
5	INVESTIGATION METHOD.....	15
5.1	GENERAL.....	15
5.2	DRILLING	15
5.3	SOIL – SAMPLING	16
5.3.1	Equipment Used.....	16
5.3.2	Geological Description	16
5.4	SOIL – FIELD SCREENING MEASUREMENTS.....	16
5.5	GROUNDWATER – FIELD MEASUREMENT OF WATER QUALITY PARAMETERS	17
5.6	GROUNDWATER – MONITORING WELL INSTALLATION.....	17
5.7	GROUNDWATER – SAMPLING	18
5.8	SEDIMENT – SAMPLING.....	18
5.9	ANALYTICAL TESTING	18
5.10	RESIDUE MANAGEMENT PROCEDURES.....	18
5.11	ELEVATION SURVEYING	19
5.12	QUALITY ASSURANCE AND QUALITY CONTROL MEASURES	19
5.12.1	Containers, Preservation, Labelling, Handling and Chain of Custody	19
5.12.2	Equipment Cleaning Procedures.....	20
5.12.3	Field Quality Control Measures and Deviations	20
6	REVIEW AND EVALUATION.....	20
6.1	GEOLOGY	20
6.1.1	Material in Geological Units.....	21



6.1.2	Properties of Aquifers and Aquitards.....	22
6.1.3	Rationale for Choice of Aquifers and Aquitards Investigated	22
6.2	GROUNDWATER: ELEVATIONS AND FLOW DIRECTION	23
6.3	GROUNDWATER: HYDRAULIC GRADIENTS	24
6.4	FINE-MEDIUM SOIL TEXTURE	24
6.5	SOIL – FIELD SCREENING	25
6.6	SOIL – QUALITY.....	25
6.6.1	Location and Depth of Samples	25
6.6.2	Comparison to Applicable Standards	29
6.6.2.1	<i>Exemption of Salt Related Exceedances (O.Reg. 153/04 Sec 49.1 (1))</i>	30
6.6.3	Contaminants of Concern	31
6.6.4	Contamination Impact on Other Media.....	31
6.6.5	Chemical or Biological Transformations	31
6.6.6	Presence of Light or Dense Non-Aqueous Phase Liquids	32
6.7	GROUNDWATER QUALITY.....	32
6.7.1	Location and Depth of Samples	32
6.7.2	Comparison to Applicable Standards	32
6.7.2.1	<i>Exemption of Salt Related Exceedances (O.Reg. 153/04 Sec 49.1 (1))</i>	33
6.7.3	Contaminants of Concern	34
6.7.4	Contamination Impact on Other Media.....	34
6.7.5	Chemical or Biological Transformations	34
6.7.6	Presence of Light or Dense Non-Aqueous Phase Liquids	34
6.8	SEDIMENT – QUALITY	34
6.9	QUALITY ASSURANCE AND QUALITY CONTROL RESULTS	34
6.9.1	Subsection 47 (3) of the Regulation	35
6.9.2	Laboratory Qualification of Results	35
6.9.3	Overall Quality of Field Data	35
6.10	PHASE TWO CONCEPTUAL SITE MODEL	35
7	CONCLUSIONS	35
7.1	SIGNATURES.....	37
8	REFERENCES	38
9	LIMITATIONS AND RESTRICTIONS	40
9.1	REPORT USE	40



FIGURES

- Figure 1 – Site Location
- Figure 2 – PCA Locations
- Figure 3 – PCA and APEC Locations
- Figure 4 – Boreholes and Monitoring Wells Location
- Figure 5 – Groundwater Contours – Overburden
- Figure 6 – Groundwater Contours - Bedrock
- Figure 7 – ORP Exceedances in Soil – Plan View
- Figure 8 – ORP Exceedances in Soil – Section A – A'
- Figure 9 – ORP Exceedances in Soil – Section B – B'
- Figure 10 – PAH Exceedances in Soil – Plan View
- Figure 11 – PAH Exceedances in Soil – Section A – A'
- Figure 12 – PAH Exceedances in Soil – Section B – B'
- Figure 13 – PHC Exceedances in Soil – Plan View
- Figure 14 – PHC Exceedances in Soil – Section A – A'
- Figure 15 – PHC Exceedances in Soil – Section B – B'
- Figure 16 – PHC Exceedances in Soil – Section C – C'
- Figure 17 – PHC Exceedances in Soil – Section D – D'
- Figure 18 – PHC Exceedances in Soil – Section E – E'

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 – Polychlorinated Biphenyls in Soil
- Table 8 – Metals, Hydride Metals, Other Regulated Parameters in Groundwater
- Table 9 – Polycyclic Aromatic Hydrocarbons in Groundwater
- Table 10 – Petroleum Hydrocarbons in Groundwater
- Table 11 – Benzene, Toluene, Ethylbenzene, Xylene in Groundwater
- Table 12 – Volatile Organic Compounds in Groundwater
- Table 13 – Polychlorinated Biphenyls in Groundwater

APPENDICES

- Appendix A – Phase One Conceptual Site Model
- Appendix B – Sampling and Analysis Plan
- Appendix C – Borehole Logs
- Appendix D – Grain Size Analysis
- Appendix E – Certificates of Analysis
- Appendix F – Phase Two Conceptual Site Model



1 Executive Summary

ACLPL – Dundas St E retained Grounded Engineering Inc. to complete a Phase Two Environmental Site Assessment (ESA) of the property located at 60 Dundas Street East, Mississauga, Ontario (Property). The Phase Two ESA was conducted to investigate the Areas of Potential Environmental Concern (APECs) that have been identified on the Property.

The results of the Phase Two ESA are summarized below:

Applicable Site Condition Standards	MECP Table 9 RPIICC
Soil Contaminants of Potential Concern (CoPCs) Investigated	<ul style="list-style-type: none"> • Metals (M) • Hydride-forming Metals (H-M) <ul style="list-style-type: none"> ○ Arsenic (As), Selenium (Se), Antimony (Sb) • Other Regulated Parameters (ORPs) <ul style="list-style-type: none"> ○ 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) • Polychlorinated Biphenyls (PCBs)
Groundwater CoPCs Investigated	<ul style="list-style-type: none"> • Metals • Hydride-forming Metals <ul style="list-style-type: none"> ○ As, Se, Sb • Other Regulated Parameters <ul style="list-style-type: none"> ○ Cr(VI), CN-, Hg, Cl- • Sodium (Na) • PAHs • PHCs • BTEX • VOCs • PCBs
Applicable Site Condition Standards Met for Soil? (Yes/No)	<p>No, MECP Table 9 exceeded for the following parameters in the fill:</p> <ul style="list-style-type: none"> • ORPs • PAHs • PHCs <p>PHCs also exceeded in the native till.</p>



Applicable Site Condition Standards Met for Groundwater? (Yes/No)	Yes
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A Record of Site Condition (RSC) cannot be filed for the Property at this time due to the exceedances identified in the fill materials/ native soils. Either remediation or a Risk Assessment (RA) will be required before an RSC can be filed for the Property.



2 Introduction

2.1 Site Description

ACLPL – Dundas St E retained Grounded Engineering Inc. to complete a Phase Two Environmental Site Assessment (ESA) of the property located at 60 Dundas Street East, Mississauga, Ontario (Property). The Phase Two 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 1.07 ha. The site is currently developed with a one-storey commercial plaza with associated asphalt surface parking and landscape areas. The Phase Two ESA has been prepared to support the proposed redevelopment of the Property and in accordance with Ontario Regulation 153/04 (O.Reg. 153/04).

2.2 Property Ownership

The Property information is provided below:

Municipal Address	60 Dundas Street East, Mississauga, Ontario
Legal Description	Part Shepard Ave Plan E19 Part Lots 1 & 20 Plan E19 Parts 1 & 2 43R-16703
PIN(s)	13350-0021 (LT)
Current Land Use	Commercial
Property Owner Information	Gold Star Plaza Ltd.
Person who has engaged the Qualified Person to conduct the Phase One ESA	Spencer Shafran ACLPL – Dundas St E 25 Watline Ave. Suite 501 Mississauga ON, L4Z 2Z1

2.3 Current and Proposed Future Uses

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



It is understood that the Phase Two Property will be developed with three new 29-36± storey buildings, with a common P5 underground parking structure beneath the entire site. The Property will be considered to be a residential land use by the MECP.

2.4 Applicable Site Condition Standard

The applicable site condition standard for the Phase Two Property is determined to be Table 9 Site Condition Standard for Residential/Parkland/Institutional in a non-potable groundwater condition for medium to fine textured soil due to the following reasons:

Current Land Use	Commercial
Future Land Use	Residential
Soil Texture	Medium to fine. Based on grain size analysis performed on the soil (Appendix B)
Potable Water Source	Lake Ontario
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)	Yes
Property located in or adjacent to a provincial park or an Area of Natural Significance (Yes/No)	No

Grounded Engineering Inc. notified the Region of Peel of the intention to use non-potable groundwater standards on August 11, 2022. On August 29, 2022, the Region of Peel responded, indicating they have no objections to the use of non-potable groundwater standards.

3 Background Information

3.1 Physical Setting

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

Records	Information
Topographic Maps	The approximate elevation of the Property is 111 metres above sea level (masl) and gently slopes towards Cooksville Creek to the east.



Records	Information
Hydrology	<p>The nearest body of water is Cooksville Creek, located adjacent northeast of the Property. Lake Ontario is located approximately 4 km southeast of the Property.</p> <p>Surface water flow is expected to flow to the municipal catch basins located on the Property or the adjacent roadway. Groundwater is expected to flow northeast towards Cooksville Creek and ultimately southeast towards Lake Ontario.</p>
Geological Maps	<p><u>Overburden:</u></p> <p>The overburden on the Property consists of Halton Till which is comprised of stratified clayey silt to silt to sandy silt across the north to east portion. The western portion consists of deltaic and Lacustrine Deposits comprised of silty sand to gravely sand.</p> <p><u>Bedrock:</u></p> <p>The bedrock beneath the Property is part of the Georgian Bay Formation, comprised of shale, limestone, dolostone and siltstone.</p> <p><u>Depth to Bedrock:</u></p> <p>Bedrock was encountered during the previous Phase II investigation at approximately 5.2 to 6.3 mbgs.</p>

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 One ESA. The information is summarized below:

Water Bodies	<p><u>Property:</u></p> <ul style="list-style-type: none"> No water bodies are located on the Property. <p><u>Study Area:</u></p> <ul style="list-style-type: none"> Cooksville Creek is located approximately 10 m northeast of the Property and runs adjacent to the eastern site boundary.
Wetlands	<p><u>Property:</u></p> <ul style="list-style-type: none"> No Provincially Significant, Non-Provincially Significant, and Unevaluated wetlands are located on the Property. <p><u>Study Area:</u></p> <ul style="list-style-type: none"> No Provincially Significant, Non-Provincially Significant, and Unevaluated wetlands are located within the Study Area.
ANSIs	<p><u>Property:</u></p> <ul style="list-style-type: none"> No Provincially Significant Life Science and Earth Science ANSIs are located on the Property. <p><u>Study Area:</u></p> <ul style="list-style-type: none"> 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 in Figure 2.



3.2 Past Investigations

The following environmental report(s) was/were provided for review for the Property. The findings of the report(s) is/are summarized below:

Title and File No.	Due Diligence Phase I Environmental Assessment – 60 Dundas Street East, Mississauga, Ontario. File No.: GOR-00212908-AO
Report Date	May 31, 2013
Prepared By	exp Services Inc. (exp)
Prepared for	Gold Star Plaza Ltd.
Description of Data, Analysis or Findings	<ul style="list-style-type: none"> • exp conducted a Phase I ESA for the site located at 60 Dundas Street East, Mississauga, ON for due diligence purposes. The Phase I ESA was completed to the CSA Z768 Guideline. • The Property was developed for mixed commercial and residential use since 1939, which two (2) residential buildings and one (1) commercial building used as an inn (Crofton Villa). The Property was developed into a commercial plaza from primarily residential use in 1978 and has remained in commercial use since then. • A previous Phase I ESA prepared by Barenco Inc. was prepared on August 21, 2008. No PCAs were identified on the Property or in the surrounding properties in the report. • Potentially Contaminating Activities (PCAs) that were identified include: <ul style="list-style-type: none"> ○ A former dry cleaner was located at 131 Dundas St. E., 180 m northeast of the Property. ○ A retail fuel storage tank with a capacity of 41,927 L was present at 86 Dundas St. E., 35 m northeast of the Property. ○ A retail fuel storage tank with a capacity of 99,800 L was present at 8 Dundas St. E., 140 m southwest of the Property. ○ A spill of 100 L of hydraulic oil was present at 55 Dundas St. E., 130 m northeast of the Property. ○ An above ground storage tank containing oil from a restaurant operating on-site was present. Staining of 2 m² of asphalt was noted. <ul style="list-style-type: none"> ▪ Based on the current investigation, it was noted that the contents were composed of waste food oil and were not further considered as a potentially contaminating activity. • No PCAs that would result in an APEC were identified in the report. • Potential asbestos material was identified in the vinyl floor and ceiling tiles located in the units that may be of concern during demolition or renovation.

Title and File No.	Phase I Environmental Site Assessment – 60 Dundas Street East, Mississauga, Ontario File No.: 21-067
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Report Date	June 3, 2021
Prepared By	Grounded Engineering Inc.
Prepared for	Almega Asset Management
Description of Data, Analysis or Findings	<ul style="list-style-type: none"> • The Phase I ESA was completed for the purposes of due diligence for financing the Property. • The Phase I ESA was generally completed in accordance with CSA Standard Z768-01. • At the time of the site inspection at that time, the Property was occupied by a commercial strip plaza with multiple stores and an asphalt parking lot. The Property was reportedly heated by a natural gas-fired HVAC unit. Two (2) above ground storage tanks containing waste food oil were located on site. One present at the southeast property boundary and one outside the southeast corner of the building. • The report identified the following APEC causing PCAs: <ul style="list-style-type: none"> ○ Importation of fill material of unknown quality on the Phase I Property. ○ De-icing activities with salt products on the Phase I Property. ○ Presence of a historical dry-cleaning facility on the Phase I Property between 1984 and 2000. ○ An auto garage and dry-cleaning facility were historically located at 40 Dundas St. E., 15 m southwest of the Property. ○ An underground fuel oil tank and historical PCB use were recorded at 47 Dundas St. E., 59 m northwest of the Property. ○ A historical dry-cleaning facility was located at 55 Dundas St. E., 61 m northwest of the Property. ○ A historical commercial auto garage was located at 23 Dundas St. E., 70 m northwest of the Property. ○ A historical gas station and subsequent underground fuel storage tanks were located at 21 Dundas St., 94 m west of the Property. ○ A spill of 450 L of oil from an underground storage tank was recorded at 17 Dundas St. E., 101 m west of the Property. ○ An auto service station, car rental business and auto centre were historically located at 8 Dundas St. E., 140 m southwest of the Property.

Title and File No.	Phase II Environmental Site Assessment – 60 Dundas Street East, Mississauga, Ontario File No.: 21-067
Report Date	June 30, 2021
Prepared By	Grounded Engineering Inc.
Prepared for	Almega Asset Management



	<ul style="list-style-type: none"> • Purpose of study was to investigate Areas of Potential Environmental Concern (APECs) and for due diligence purposes. • Property use at that time was a one-storey commercial plaza with associated asphalt surface parking and landscape area. • Three (3) boreholes advanced to depths of 5.1 to 7.4 m below ground surface (mbgs) • Installation of three (3) monitoring wells • Soil tested for: <ul style="list-style-type: none"> ○ Metals ○ Hydride-forming Metals <ul style="list-style-type: none"> ▪ Antimony (Sb), Arsenic (As), Selenium (Se) ○ Selected Other Regulated Parameters (ORPs) <ul style="list-style-type: none"> ▪ Electrical Conductivity (EC), Sodium Adsorption Ratio (SAR), Boron-hot water soluble (B-HWS), Cyanide (CN-), Mercury (Hg), Hexavalent Chromium (Cr(VI)) ○ Polycyclic Aromatic Hydrocarbons (PAHs) ○ Petroleum Hydrocarbons (PHCs) ○ Volatile Organic Compounds I (VOCs) ○ Volatile Organic Compounds II (BTEX) ○ Polychlorinated Biphenyls (PCBs) • Groundwater tested for: <ul style="list-style-type: none"> ○ Metals ○ Hydride-forming Metals <ul style="list-style-type: none"> ▪ Sb, As, Se ○ Selected ORPs <ul style="list-style-type: none"> ▪ CN-, Chloride (Cl), Hg, Cr(VI), pH ○ Sodium (Na) ○ PAHs ○ PHCs ○ VOCs ○ BTEX ○ PCBs • Exceedances were detected for PHC F2 in native soil • Based upon the nature of the exceedance and the current land use, no additional environmental investigation was recommended for continued commercial use.
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Title and File No.	Phase One Environmental Site Assessment – 60 Dundas Street East, Mississauga, Ontario File No.: 21-067
Report Date	July 8, 2022
Prepared By	Grounded Engineering Inc.
Prepared for	Almega Asset Management
Description of Data, Analysis or Findings	<ul style="list-style-type: none"> • The Phase One ESA was prepared to support the filing of a Record of Site Condition for the Property. • The Phase One ESA was prepared in accordance with Ontario Regulation 153/04.



	<ul style="list-style-type: none"> • At the time of the site inspection at that time, the Property was occupied by a commercial strip plaza with multiple stores and an asphalt parking lot. The Property was reportedly heated by a natural gas-fired HVAC unit. Two (2) above ground storage tanks containing waste food oil were located on site. One present at the southeast property boundary and one outside the southeast corner of the building. • The report identified the following APEC causing PCAs: <ul style="list-style-type: none"> ○ Importation of fill material of unknown quality on the Phase I Property. ○ De-icing activities with salt products on the Phase I Property. ○ Presence of a historical dry-cleaning facility on the Phase I Property between 1984 and 2000. ○ An auto garage and dry-cleaning facility were historically located at 40 Dundas St. E., 15 m southwest of the Property. ○ An underground fuel oil tank and historical PCB use were recorded at 47 Dundas St. E., 59 m northwest of the Property. ○ A historical dry-cleaning facility was located at 55 Dundas St. E., 61 m northwest of the Property. ○ A historical commercial auto garage was located at 23 Dundas St. E., 70 m northwest of the Property. ○ A historical gas station and subsequent underground fuel storage tanks were located at 21 Dundas St., 94 m west of the Property. ○ A spill of 450 L of oil from an underground storage tank was recorded at 17 Dundas St. E., 101 m west of the Property. ○ An auto service station, car rental business and auto centre were historically located at 8 Dundas St. E., 140 m southwest of the Property.
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The PCAs and APEC locations are provided in Figure 3.

4 Scope of the Investigation

4.1 Overview of Site Investigation

The scope of the Phase Two ESA is as follow:

Boreholes and Monitoring Wells	<ul style="list-style-type: none"> • Advancing of 15 boreholes to depths of 5.1 to 23.7 m below ground surface (m bgs) • Installation of 10 of monitoring wells
Parameters Investigated for Soil	<ul style="list-style-type: none"> • Metals (M) • Hydride-forming Metals (H-M) <ul style="list-style-type: none"> ○ Antimony (Sb), Arsenic (As), Selenium (Se) • Other Regulated Parameters (ORPs) <ul style="list-style-type: none"> ○ B-HWS, CN-, EC, SAR, Cr(VI), Hg • Polycyclic Aromatic Hydrocarbons (PAHs)



	<ul style="list-style-type: none"> • Petroleum Hydrocarbons (PHCs) • Volatile Organic Compounds II - Benzene, Toluene, Ethylbenzene, Xylene (BTEX) • Volatile Organic Compounds I (VOCs) • Polychlorinated Biphenyls (PCBs)
Parameters Investigated for Groundwater	<ul style="list-style-type: none"> • Metals • Hydride-forming Metals <ul style="list-style-type: none"> ○ Sb, As, Se • Other Regulated Parameters <ul style="list-style-type: none"> ○ Cr(VI), CN-, Hg, Cl- • Sodium (Na) • PAHs • PHCs • BTEX • VOCs • THMs • PCBs
<ul style="list-style-type: none"> • 7 soil samples were submitted for grain size analysis and soil classification. • Boreholes and monitoring wells were surveyed to a geodetic benchmark. • Shallow monitoring wells were developed and sampled. • Groundwater level measurements were conducted in all monitoring wells to determine groundwater elevation on the Property. 	

4.2 Media Investigated

4.2.1 Rationale for Exclusion and Inclusion of Media

Media	Included/Excluded	Rationale
Soil	Included	Based on the Phase One ESA, soil sampling was required to investigate the CoPCs related to the identified APECs.
Sediment	Excluded	Surface water bodies were not presented on the Property. No sediment sampling was conducted during the Phase Two ESA.
Groundwater	Included	Based on the Phase One ESA, groundwater sampling was required to investigate the CoPCs related to the identified APECs.
Surface Water	Excluded	Surface water bodies were not presented on the Property. No surface water sampling was conducted during the Phase Two ESA.



4.2.2 Overview of Field Investigation of Media

Soil sampling was conducted during the drilling investigation. Groundwater sampling was conducted from the monitoring wells installed on the Property.

4.3 Phase One Conceptual Site Model

The Phase One Conceptual Site Model (CSM) prepared as part of the Phase One ESA report is provided in Appendix A.

4.4 Deviations From Sampling and Analysis Plan

No deviations from the sampling and analysis plan were observed. The Sampling and Analysis Plan is provided in Appendix B.

4.5 Impediments

No impediments were encountered during the Phase Two ESA.

5 Investigation Method

5.1 General

The Phase Two 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).

The methods used in the Phase Two ESA did not differ from the associated standard operating procedures.

5.2 Drilling

The Phase Two ESA drilling information is provided below:

Boreholes	BH101 to BH103 (2021) BH201 to BH207 (2022) BH301 to BH305 (2022)
Date of Work	May 03, 2021 March 15 to 21, 2022 September 26, 2022



Name of the Contractor(s)	Sonic Soil Sampling Inc. Profile Drilling Strata Drilling
Equipment Used	Truck-mounted rig, solid stem augers, 2-inch split spoon soil sampling device. Track-mounted rig, hollow stem augers, 2-inch split spoon soil sampling device as well as HQ rock core barrel. Track-mounted rig, direct push 2-inch sampler.
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 B for the sampling frequency

The borehole locations are provided in Figure 4.

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 and/or photoionization detector (PID)

5.3.2 Geological Description

The borehole logs in Appendix C provide an overall geological description of each soil sample collected during the 2021 and 2022 Grounded investigations.

5.4 Soil – Field Screening Measurements

Each sample was field screened for total combustible vapours (TCV) and total organic vapours (TOV) using an RKI Eagle 2 gas monitor. The monitor is calibrated to *n*-hexane and isobutylene 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% for TCV and 0 to 15,000 parts ppm and an accuracy of +/- 3% for TOV.



Based on field screening measurements and visual and olfactory examination selected soils were submitted for laboratory analysis. Complete field screening readings are provided on the borehole logs in Appendix C.

5.5 Groundwater – Field Measurement of Water Quality Parameters

Water quality parameters including temperature, pH, specific conductivity, total dissolved solids were measured using a YSI water quality sensor prior to sampling.

5.6 Groundwater – Monitoring Well Installation

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

Monitoring Wells	BH101 to BH103 (2021) BH201 to BH207 (2022) BH301 to BH305 (2022)
Date of Work	May 03, 2021 March 15 to 21, 2022 September 26, 2022
Name of the Contractor(s)	Sonic Soil Sampling Inc. Profile Drilling Strata Drilling
Equipment Used	Truck-mounted rig, solid stem augers, 2-inch split spoon soil sampling device. Track-mounted rig, hollow stem augers, 2-inch split spoon soil sampling device as well as HQ rock core barrel. Track-mounted rig, direct push 2-inch sampler.
Measures for Cross-contamination Prevention	New well materials were used during install and drilling technicians donned new nitrile gloves to handle well materials prior to install.
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 bgs. The wells were finished with a flush mount casing.
Well Development	The monitoring wells were developed on May 13, 2022. Well development was conducted with an inertial pump. A total volume of ten (10) full casing volumes or three (3) dry casing volumes 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 4.

5.7 Groundwater – Sampling

The monitoring well was purged and sampled using an inertial pump. 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 soil and groundwater samples was conducted by ALS Global Inc. and BV Laboratories Ltd.

5.10 Residue Management Procedures

Residues from the field investigation were managed accordingly as provided below:

Residues	Management Procedures
Soil Cuttings	Soil cuttings generated during the drilling activities were placed in drums and left on the Property.
Groundwater	The purged water generated during the well development and groundwater sampling events was disposed of to the drum and left on the Property.
Fluids from Equipment Cleaning	The fluids from cleaning were removed from the Property and disposed by the drilling contractor.



5.11 Elevation Surveying

The elevation as well as the latitude and longitude coordinates of the boreholes on the Property were surveyed using a Sokkia survey system. The Sokkia is a differential global positioning system (GPS). The elevation of each borehole on the Property is presented on the borehole logs in Appendix C..

5.12 Quality Assurance and Quality Control Measures

5.12.1 Containers, Preservation, Labelling, Handling and Chain of Custody

The following laboratory supplied sample containers were used for all sampling conducted on the Property.

Parameter/Group	Containers	
	Soil	Groundwater
Inorganic Parameters: Chromium hexavalent (CrVI), cyanide (CN-), pH, electrical conductivity (EC) Soil only: boron, hot water soluble (B-HWS), sodium adsorption ratio (SAR) Water only: chloride	250 g soil jar	500 mL PET 60 mL plastic (CrVI) 120 mL plastic (CN-)
Metals		250 mL HDPE (Metals)
Mercury (Hg)		60 mL amber glass (Hg)
Volatile Organic Compounds (VOCs) including benzene, toluene, ethylbenzene, xylene (BTEX) and trihalomethanes (THMs) Petroleum hydrocarbons (PHCs) F1/BTEX	100 g soil jar 2 x 40 mL pre-weighed methanol 5 g soil plug	2 x 40 mL amber vial (zero headspace)
Polychlorinated biphenyls (PCBs)	100 g soil jar	
PHCs (F2-F4) Polycyclic aromatic hydrocarbons (PAHs)	100 g soil jar	2 x 100 mL bottles fill to top of label
Toxicity characteristic leaching procedure (TCLP)	250 g soil jar	-



Sampling containers were equipped with laboratory supplied labels. The labels indicated the following information:

- Sample ID
- Company name
- Date
- Project number

Samples were placed in coolers with ice after collection for transportation to the laboratory. Sample hold times were met for all submitted soil and groundwater samples. Laboratory supplied Chain of Custody forms were completed for all samples submitted for analysis.

5.12.2 Equipment Cleaning Procedures

Equipment	Cleaning Procedures
Soil sampling	Split spoon sampling device was washed between samples to prevent potential cross-contamination.
Groundwater sampling	Water level meter/ water quality monitoring meter was cleaned between monitoring wells.

Other dedicated equipment (e.g., nitrile gloves, terracores samplers, tubing, etc.) were changed between each sample to avoid cross-contamination.

5.12.3 Field Quality Control Measures and Deviations

For quality control purpose, the following actions were taken:

- At least one (1) duplicate sample is submitted for laboratory analysis for every ten (10) samples submitted for laboratory analysis for each sampled medium.
- Daily calibration of field instruments prior to sampling
- Groundwater trip blanks are used for Quality Assurance purposes for sampling of Volatile Organic Compounds.

No deviations from the quality assurance and quality control measures had occurred.

6 Review and Evaluation

6.1 Geology

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



Geological Unit Thickness (Estimate)	
Borehole	BH101 to BH103 BH201 to BH207 BH301 to BH305 (2022)
	Thickness Range (m)
Earth Fill	1.6 to 3.9 m
Clayey Silt (Glacial Till)	2.1 to 4.3 m
Sandy Silt	0.6 to 1.5
Bedrock	Encountered between 5.2 to 6.3 m bgs

Geological Unit Elevations		
Borehole	BH101 to BH103 BH201 to BH207 BH301 to BH305 (2022)	
	Elev. Top Range (masl)	Elev. Bottom Range (masl)
Earth Fill	110.8 to 107.9	108.9 to 106.0
Clayey Silt (Glacial Till)	108.9 to 106.0	104.6 to 102.7
Sandy Silt	106.8 to 106.4	105.8 to 105.3
Bedrock	104.6 to 102.7	Bottom of bedrock not encountered. Investigation terminated from 87.3 masl to 85.0 masl.

6.1.1 Material in Geological Units

Geological Units	Description
Pavement Structure/Topsoil	BH101, BH103, BH201 to BH207 encountered a pavement structure consisting of 25 to 50 mm asphaltic concrete underlain by 100 mm of aggregate. BH102 encountered 100 mm of topsoil.
Earth Fill	Earth fill was encountered at all borehole locations underlying the surficial materials. The Earth Fill extended to a depth of 1.7 to 4.0 mbgs (Elev. 108.9



Geological Units	Description
	to 106.0 m). The Earth Fill generally consisted of sand with some silt to silty sand with trace amounts of clay, gravel, and organics.
Clayey Silt (Glacial Till)	Clayey Silt till with trace amounts of gravel and sand was encountered at all borehole locations underlying the Earth Fill except boreholes BH301 to BH305. The till was found between Elev. 108.9 to 102.7 m.
Sandy Silt	Sandy Silt with some clay and trace amounts of gravel encountered at boreholes BH301 to BH305 underlying the Earth Fill. The sandy silt was found between Elev. 106.8 to 105.3 m.
Bedrock	<p>Inferred bedrock was encountered at boreholes BH101, BH102 and BH201 to BH207 underlying the Native Glacial Till at depths of 4.4 to 7.2 m below grade (Elev. 104.6 to 102.7 m). Bedrock was confirmed by rock cores recovered in Boreholes 201, 203, 205 and 206 to depths of 23.1 to 23.7 m below grade (Elev. 87.3 to 85.0 m).</p> <p>The bedrock beneath the site is the Georgian Bay Formation, which comprises thin to medium bedded grey shale and limestone of Ordovician age. The shale is interbedded with calcareous shale, limestone, dolostone, and calcareous sandstone (conventionally grouped together as "limestone") which are typically laterally discontinuous.</p>

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 groundwater table on the Property is located within the glacial till. The earth fill is considered to be hydraulically connected to the native soil layer composed mainly of clayey silt glacial till. Any water within the fill is expected to migrate downwards into the native soil.
Glacial Till	The native soil consisting of cohesive glacial till deposits is considered to be an aquitard due to the low permeability of the soils.
Weathered Bedrock	The weathered bedrock is considered to be an unconfined aquifer and is considered to be hydraulically connected to the sound bedrock. Any water within the weathered bedrock is expected to migrate downwards into the sound bedrock.
Sound Bedrock	The Georgian Bay Bedrock is considered to be an aquitard due to the low permeability of shale and limestone.

6.1.3 Rationale for Choice of Aquifers and Aquitards Investigated

The Earth Fill and Glacial Till were chosen for investigation. This stratum was chosen for investigation because:

- Possibility of free groundwater present



- The possible location of mobile contamination within the native overburden and lower units
- The likelihood of horizontal migration of groundwater across the site

6.2 Groundwater: Elevations and Flow Direction

A total of 10 monitoring wells have been installed by Grounded Engineering Inc. The monitoring wells were located within the APECs identified in the Phase One ESA (July 8, 2022, Grounded) for the Property. Screened intervals of the monitoring wells were selected for the collection of groundwater samples within the desired stratum.

Eighteen (18) groundwater level measurements were conducted by Grounded Engineering Inc. in the monitoring wells using a Solinst interface probe on the following dates:

- May 4, 2022
- May 6, 2022
- May 7, 2022
- May 10, 2022
- May 21, 2022
- June 8, 2022
- June 14, 2022
- March 16, 2022
- March 22, 2022
- March 25, 2022
- March 30, 2022
- March 31, 2022
- April 4, 2022
- April 17, 2022
- April 29, 2022
- May 13, 2022
- July 5, 2022
- September 26, 2022

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

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

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 5. The shallowest groundwater depth was measured at 2.4 mbgs (108.1 masl) and was observed at BH201 located at the northern portion of the Property on March 21, 2022.



Based on the groundwater elevations measured on the Property, there are two aquifers at the Property: an upper aquifer in native till soils with a maximum groundwater level of 2.8 m bgs, and a lower aquifer in the bedrock with a maximum groundwater level of 2.4 m bgs. The groundwater in the upper and lower aquifers were determined to flow locally to the southeast. Regional groundwater flow is expected to flow northeast towards Cooksville Creek and ultimately southeast towards Lake Ontario. Groundwater contours are presented in Figures 5 and 6.

Based on the measured groundwater levels, limited seasonal variability in the groundwater quantity and flow direction was observed with readings throughout only the spring and summer months.

Based on the highest groundwater level of 2.4 mbgs observed at the Property, there is the potential that the buried utilities could influence the groundwater flow.

6.3 Groundwater: Hydraulic Gradients

Horizontal Hydraulic Gradients	<p>The horizontal hydraulic gradient at the Property in the upper aquifer was determined to be approximately 0.0067 m/m based on the groundwater levels from May 13, 2022, in BH101 to BH103, BH202, BH204, BH206 and BH207.</p> <p>The horizontal hydraulic gradient for the lower aquifer (within the bedrock) was determined to be approximately 0.0077 m/m based on the groundwater levels from May 13, 2022, in BH201, BH203 and BH205.</p>										
Vertical Hydraulic Gradients	Based on the location and depths of the installed monitoring wells, the vertical gradient could not be calculated.										
Hydraulic Conductivity	<p>As noted in the Grounded hydrogeological report for the site, the hydraulic conductivities were:</p> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th style="background-color: #f4a460;">Stratum/Formation</th> <th style="background-color: #f4a460;">Hydraulic Conductivity (m/s)</th> </tr> </thead> <tbody> <tr> <td>Earth Fill</td> <td>$1.0 \times 10^{-5**}$</td> </tr> <tr> <td>Clayey Silt Glacial Till</td> <td>$6.8 \times 10^{-8*}$</td> </tr> <tr> <td>Weathered Bedrock</td> <td>$1.0 \times 10^{-7**}$</td> </tr> <tr> <td>Sound Bedrock</td> <td>$1.1 \times 10^{-8*}$</td> </tr> </tbody> </table> <p>*Indicates conductivity was calculated by Slug Test</p> <p>**Indicates conductivity was estimated using typical published values from Freeze and Cherry (1979)</p>	Stratum/Formation	Hydraulic Conductivity (m/s)	Earth Fill	$1.0 \times 10^{-5**}$	Clayey Silt Glacial Till	$6.8 \times 10^{-8*}$	Weathered Bedrock	$1.0 \times 10^{-7**}$	Sound Bedrock	$1.1 \times 10^{-8*}$
Stratum/Formation	Hydraulic Conductivity (m/s)										
Earth Fill	$1.0 \times 10^{-5**}$										
Clayey Silt Glacial Till	$6.8 \times 10^{-8*}$										
Weathered Bedrock	$1.0 \times 10^{-7**}$										
Sound Bedrock	$1.1 \times 10^{-8*}$										

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 D.

Based on the grain size analysis completed, it was determined that less than 1/3 of the soil at the Property, measured by volume, consists of coarse textured soil. Therefore, the qualified person has determined that medium/fine 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 C. 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		Strata	Metals/ H-Metals/ ORPs	PAHs	VOCs	PHCs/ BTEX	PCBs
	mbgs	masl						
BH101 SS1	0.1 - 0.7	110.8 - 110.2	Fill		✓			
BH101 SS2	0.8 - 1.4	110.1 - 109.5	Fill	✓				
DUP 1								
BH101 SS3B	2.0 - 2.1	108.9 - 108.8	Clayey Silt Till					✓
DUP 2								
BH101 SS4	2.3 - 2.9	108.6 - 108.0	Clayey Silt Till				✓	
DUP 3								
BH101 SS7	4.6 - 5.0	106.3 - 106.0	Clayey Silt Till			✓		
BH102 SS3	1.5 - 2.1	108.5 - 107.9	Fill	✓				
BH102 SS5	3.0 - 3.7	106.9 - 106.3	Fill		✓			
BH102 SS6B	4.0 - 4.4	106.0 - 105.6	Clayey Silt Till				✓	✓
BH102 SS7	4.6 - 5.2	105.4 - 104.8	Clayey Silt Till			✓		
DUP 4								
BH103 SS1	0.2 - 0.8	109.2 - 108.6	Fill	✓				
BH103 SS2			Fill		✓			



Sample ID	Depth		Strata	Metals/ H-Metals/ ORPs	PAHs	VOCs	PHCs/ BTEX	PCBs
	mbgs	masl						
DUP 5	0.8 - 1.4	108.6 - 108.0						
BH103 SS3B	1.7 - 2.1	107.6 - 107.2	Clayey Silt Till				✓	
BH103 SS5	3.0 - 3.7	106.3 - 105.7	Clayey Silt Till			✓		
BH101 SS1	0.1 - 0.7	110.8 - 110.2	Fill		✓			
BH101 SS2	0.8 - 1.4	110.1 - 109.5	Fill	✓				
BH101 SS3B	2.0 - 2.1	108.9 - 108.8	Clayey Silt Till					✓
BH101 SS4	2.3 - 2.9	108.6 - 108.0	Clayey Silt Till				✓	
BH101 SS7	4.6 - 5.0	106.3 - 106.0	Clayey Silt Till			✓		
BH102 SS3	1.5 - 2.1	108.5 - 107.9	Fill	✓				
BH102 SS5	3.0 - 3.7	106.9 - 106.3	Fill		✓			
BH102 SS6B	4.0 - 4.4	106.0 - 105.6	Clayey Silt Till				✓	✓
BH102 SS7	4.6 - 5.2	105.4 - 104.8	Clayey Silt Till			✓		
BH103 SS1	0.2 - 0.8	109.2 - 108.6	Fill	✓				
BH103 SS2	0.8 - 1.4	108.6 - 108.0	Fill		✓			
BH103 SS3B	1.7 - 2.1	107.6 - 107.2	Clayey Silt Till				✓	
BH103 SS5	3.0 - 3.7	106.3 - 105.7	Clayey Silt Till			✓		
BH201 SS1A	0.2 - 0.6	110.4 - 109.9	Fill		✓			✓
BH201 SS1B	0.6 - 0.8	109.9 - 109.7	Fill	✓				
BH201 SS3	1.5 - 2.1	109.0 - 108.4	Fill			✓	✓	



Sample ID	Depth		Strata	Metals/ H-Metals/ ORPs	PAHs	VOCs	PHCs/ BTEX	PCBs
	mbgs	masl						
BH201 SS4	2.3 - 2.9	108.2 - 107.6	Clayey Silt Till	✓	✓			
BH201 SS6	4.6 - 5.2	105.9 - 105.3	Clayey Silt Till			✓	✓	
BH202 SS1B	0.6 - 0.8	108.9 - 108.7	Fill					✓
BH202 SS2	0.8 - 1.4	108.7 - 108.0	Fill	✓	✓			
BH202 SS3B	1.9 - 2.1	107.5 - 107.3	Fill			✓	✓	
BH202 SS5	3.0 - 3.7	106.4 - 105.8	Clayey Silt Till	✓	✓			
BH202 SS6	4.6 - 5.2	104.8 - 104.2	Clayey Silt Till			✓	✓	
BH203 SS1	0.2 - 0.8	110.1 - 109.5	Fill	✓	✓			✓
BH203 SS2	0.8 - 1.4	109.5 - 108.9	Fill			✓	✓	
BH203 SS4	2.3 - 2.9	108.0 - 107.4	Clayey Silt Till	✓	✓			
BH203 SS6	4.6 - 5.2	105.7 - 105.1	Clayey Silt Till			✓	✓	
BH204 SS4	2.3 - 2.9	107.6 - 107.0	Fill	✓	✓	✓	✓	✓
BH204 5B	3.3 - 3.7	106.6 - 106.2	Clayey Silt Till	✓	✓			
BH204 SS6	4.6 - 5.0	105.3 - 104.9	Clayey Silt Till			✓	✓	
BH205 SS2	0.8 - 1.4	109.1 - 108.5	Fill	✓	✓			✓
BH205 SS3	1.5 - 2.1	108.3 - 107.7	Fill			✓	✓	
BH205 6A	3.8 - 4.4	106.0 - 105.5	Clayey Silt Till			✓	✓	
BH205 SS7	4.6 - 5.2	105.3 - 104.7	Clayey Silt Till	✓	✓			
BH206 SS1	0.2 - 0.8	108.0 - 107.4	Fill					✓



Sample ID	Depth		Strata	Metals/ H-Metals/ ORPs	PAHs	VOCs	PHCs/ BTEX	PCBs
	mbgs	masl						
BH206 SS2	0.8 - 1.4	107.4 - 106.8	Fill	✓	✓			
BH206 3A	1.5 - 1.8	106.6 - 106.3	Fill			✓	✓	
BH206 3B	1.8 - 2.1	106.3 - 106.0	Clayey Silt Till	✓	✓			
BH206 SS5	3.0 - 3.7	105.1 - 104.5	Clayey Silt Till			✓	✓	
BH207 SS1	0.2 - 0.8	108.6 - 108.0	Fill					✓
BH207 SS2	0.8 - 1.4	108.0 - 107.4	Fill			✓	✓	
BH207 SS3	1.5 - 2.1	107.3 - 106.7	Fill	✓	✓			
BH207 SS4	2.3 - 2.9	106.5 - 105.9	Clayey Silt Till	✓	✓			
BH207 SS7	5.2 - 5.8	103.6 - 103.0	Clayey Silt Till			✓	✓	
BH301 SS2	1.1 - 1.5	107.7 - 107.3	Fill				✓	
BH301 SS4	2.3 - 3.0	106.5 - 105.8	Sandy silt				✓	
BH302 SS2	1.1 - 1.5	107.7 - 107.3	Fill				✓	
BH303 SS2	1.1 - 1.5	107.7 - 107.2	Fill				✓	
BH303 SS4	2.4 - 3.0	106.4 - 105.7	Sandy silt				✓	
BH304 SS1	0.8 - 1.2	108.1 - 107.6	Fill				✓	
DUP 1 (Dup of BH304 SS1)	0.8 - 1.2	108.1 - 107.6	Fill				✓	
BH304 SS5	2.4 - 3.0	106.4 - 105.8	Sandy silt				✓	
BH305 SS2	0.8 - 1.5	107.5 - 106.8	Fill				✓	



Sample ID	Depth		Strata	Metals/ H-Metals/ ORPs	PAHs	VOCs	PHCs/ BTEX	PCBs
	mbgs	masl						
BH305 SS4	2.3 - 3.0	106.0 - 105.3	Sandy silt				✓	

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
- PCBs

The results of the analysis were compared to the applicable Site Condition Standard for the Phase Two Property (Table 9 RPIICC). The laboratory certificates of analysis are provided in Appendix E, and the results of the soil chemical analysis are provided in Tables 2 to 7 and presented on Figures 7 to 18.

Comparison Table (Table 9 RPIICC Standard)		
Parameter Analyzed	Exceed/Meet	Note:
Metals	Meet	None
Hydride-forming Metals	Meet	None
ORPs	Exceeds	BH204 SS4: <ul style="list-style-type: none"> • Boron (HWS) • EC & SAR Refer to section 5.3.3.1



Comparison Table (Table 9 RPIICC Standard)		
Parameter Analyzed	Exceed/Meet	Note:
PHCs	Exceeds	<p><u>BH101-SS4:</u></p> <ul style="list-style-type: none"> • PHC F2 <p><u>DUP 3 (BH101-SS4):</u></p> <ul style="list-style-type: none"> • PHC F2 <p><u>BH103-SS3B:</u></p> <ul style="list-style-type: none"> • PHC F2 <p><u>BH201-SS3:</u></p> <ul style="list-style-type: none"> • PHC F3, F4, F4G <p><u>BH203-SS6:</u></p> <ul style="list-style-type: none"> • PHC F2, F3, F4 <p><u>BH204-SS4:</u></p> <ul style="list-style-type: none"> • PHC F2, F3 <p><u>BH207-SS2:</u></p> <ul style="list-style-type: none"> • PHC F4, F4G <p><u>DUP1 (BH207 SS2):</u></p> <ul style="list-style-type: none"> • PHC F4 <p><u>BH303 SS2:</u></p> <ul style="list-style-type: none"> • PHC F3, F4, F4G <p><u>BH304 SS1:</u></p> <ul style="list-style-type: none"> • PHC F4, F4G
PAHs	Meet	<p><u>BH204 SS4:</u></p> <ul style="list-style-type: none"> • Acenaphthene
BTEX	Meet	None
VOCs	Meet	None
PCBs	Meet	None

6.6.2.1 Exemption of Salt Related Exceedances (O.Reg. 153/04 Sec 49.1 (1))

Chemical analysis of the soil indicates that there are exceedances of the MECP Table 3 RPI Standards for Electrical Conductivity and Sodium Adsorption Ratio (salt related compound) within the upper soils.

The Property is bound by a municipal roadway to the northwest (Dundas Street East) and to the southwest (Shepard Avenue). The roadway has public sidewalks between the road and the



Property boundary. The entire Property features car parking. The roadways, sidewalks, and parking area are all salted during the winter months for safety purposes.

The Qualified Person has determined, based on the Phase One Environmental Site Assessment and the Phase Two Environmental Site Assessment, that a substance (salt) has been applied to surfaces of the roadway, sidewalks, driveway and parking area 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

The Contaminants of Concern associated with the earth fill on the Property are:

- ORPs
- PAHs
- PHCs

The Contaminant of Concern associated with the native soil on the Property are:

- PHCs

6.6.4 Contamination Impact on Other Media

The contaminants could potentially migrate from the fill material into the native soil and groundwater via diffusion. The ORP, PAH and PHC impacts were identified in the fill. In addition, PHC impacts were identified in the native till. Based on the results of the investigation no contaminants were identified in the groundwater. It is unlikely that other media on the Property will be impacted.

6.6.5 Chemical or Biological Transformations

ORP, PAH and PHCs were identified within the soil in concentrations exceeding the applicable site condition standards. The ORP, PAH and PHC impacts in soil may be associated with the importation of fill material of unknown quality. The PAH and PHC impacts in soil may also be related to the biproduct of incomplete combustion of fuel. Additionally, it is expected that the ORP, PAH and PHC impacted soil will be removed from the Property through the larger site development activities. Therefore, chemical or biological transformations are unlikely.



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		Screen Strata	Metals	H-Metals	ORPs	PAHs	VOCs	PHCs	PCBs	BTEX
	mbgs	masl									
BH101	4.6 – 6.1	106.3 – 104.8	Clayey Silt Till	✓	✓	✓	✓	✓		✓	✓
BH102	4.6 – 6.1	105.4 – 103.9	Clayey Silt Till	✓	✓	✓	✓	✓		✓	✓
BH103	3.4 – 4.9	106.0 – 104.5	Clayey Silt Till	✓	✓	✓	✓	✓			✓
BH204	3.7 – 6.8	106.2 – 103.1	Bedrock					✓			✓
BH206	3.0 – 6.1	105.1 – 102.0	Bedrock					✓			✓
BH207	3.0 – 6.1	105.8 – 102.7	Bedrock	✓	✓	✓	✓	✓	✓		✓

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), CN-, Hg, Cl-
- Na
- PAHs



- PHCs
- BTEX
- VOCs
- PCBs

The results of the analysis were compared to the applicable Site Condition Standard for the Phase Two Property (Table 9 RPIICC). The laboratory certificates of analysis are provided in Appendix E, and the results of the groundwater chemical analysis are provided in Table 8 to 13.

Comparison Table (Table 9 Standard)		
Parameter Analyzed	Exceed/Meet	Note:
Metals	Meet	None
Hydride-forming Metals	Meet	None
ORPs	Meet	Refer to section 5.4.2.1
Sodium	Meet	Refer to section 5.4.2.1
PHCs	Meet	None
PAHs	Meet	None
BTEX	Meet	None
VOCs	Meet	None
PCBs	Meet	None

6.7.2.1 Exemption of Salt Related Exceedances (O.Reg. 153/04 Sec 49.1 (1))

Chemical analysis of the groundwater indicates that there are exceedances of the MECP Table 8 Standards for sodium and chloride (salt related compounds).

The Property is bound by a municipal roadway to the north (Dundas Street East) and to the west (Shepard Avenue). The roadway has public sidewalks between the road and the Property boundary. The entire Property features car parking. The roadways, sidewalks, and parking area are all salted during the winter months for safety purposes.

The Qualified Person has determined, based on the Phase One Environmental Site Assessment and the Phase Two Environmental Site Assessment, that a substance (salt) has been applied to surfaces of the roadway, sidewalks, driveway and parking area for the safety of vehicular and pedestrian traffic under conditions of snow or ice or both. Based on the historical use of the



Property as a parking lot, the Qualified Person has determined that the groundwater has been affected by the use of salt on the Property.

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.

6.7.3 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 Sediment – Quality

Sediment was not present at the Property thus was not investigated as part of the Phase Two ESA.

6.9 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.

6.9.1 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 Two ESA report.

6.9.2 Laboratory Qualification of Results

The laboratory did not make any significant comments that changed the outcome of the analytical results regarding the soil and groundwater samples.

6.9.3 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 filed data was considered by the Qualified Person to meet the objectives of the investigation and assessment.

6.10 Phase Two Conceptual Site Model

Phase Two Conceptual Site Model (CSM) is prepared for the Property and is provided in Appendix F.

7 Conclusions

The location and concentration of contamination is provided below:

Land	There were exceedances of the applicable Site Condition Standards noted in the earth fill and native till for ORPs, PAHs and PHCs. Soil exceedance locations are presented in Figures 7 to 18.
Groundwater	No exceedances of the applicable Site Condition Standards were identified for the groundwater on the Property.

Exceedances of the applicable Site Condition Standards were identified in the earth fill and native till on the Property. As such a remediation/risk assessment (RA) of the impacted soil will be required before a Record of Site Condition (RSC) can be filed for the Property.



Whether applicable Site Condition Standards and standards specified in a risk assessment for contaminants on, in or under the phase two property were met as of the certification date is provided below:

Soil	Earth Fill	The applicable Site Condition Standards were exceeded in the earth fill located on the Property.
	Native	The applicable Site Condition Standards were exceeded in the native soils located on the Property.
Groundwater		The applicable Site Condition Standards were met in the groundwater located on the Property.



7.1 Signatures

The Phase Two ESA has been completed in accordance with O. Reg. 153/04 by, Sean Morris, CTech, EP under the direction and supervision of Matthew Bielaski, P. Eng., QP_{RA-ESA}. The findings and conclusions presented in this report have been determined based on the information that was obtained and reviewed from previous investigations provided and on the current investigation for the Phase Two Property.

We trust that this report meets your requirements at present.

For and on behalf of our team,



Sean Morris, CTech, EP
Senior Engineering Technologist

Jeremy Bobro, M.Env
Associate



Matthew Bielaski, P.Eng., QP_{RA-ESA}
Principal



8 References

1. Ontario Ministry of the Environment, December 1996. *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*.
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23. Grounded Engineering Inc. Phase One Environmental Site Assessment, 60 Dundas St. E., Mississauga, Ontario. Report Number: 21-067. July 8, 2022.



9 Limitations and Restrictions

The Phase Two 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.

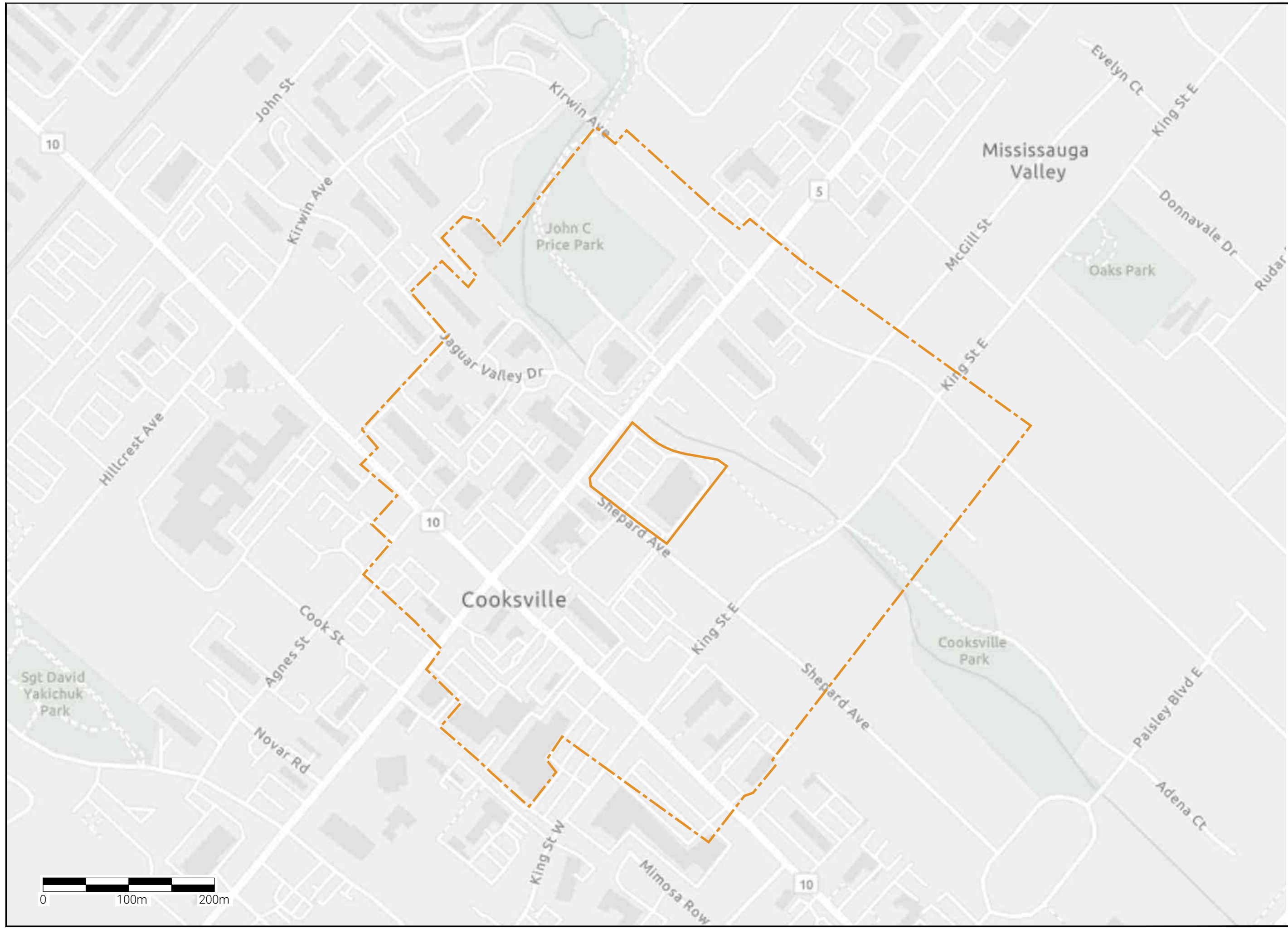
If new information regarding the environmental condition of the Phase Two Property is identified during future work, or outstanding responses from regulatory agencies indicate outstanding issues on file with respect to the Phase Two Property, Grounded Engineering Inc. should be notified so that we may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

9.1 Report Use

The authorized users of this report are ACLP – Dundas St E, 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
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1 Banigan Drive, Toronto, Ont., M4H 1E9
www.groundedeng.ca

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- STUDY AREA (250 m)

Note

Reference

ArcGIS Map 2021

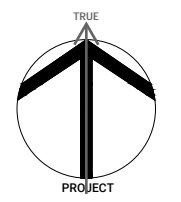
Project

**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title

SITE LOCATION PLAN

North



Date

OCTOBER 2022

Scale

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21-067

Figure No

FIGURE 1



GROUND
ENGINEERING

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LEGEND

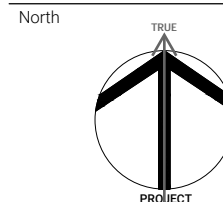
- APPROXIMATE PROPERTY BOUNDARY
- STUDY AREA (250 m)
- LOCAL GROUNDWATER FLOW DIRECTION
- APPROXIMATE CREEK LOCATION
- #10 COMMERCIAL AUTOBODY SHOPS
- #28 GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS
- #30 IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY
- #37 OPERATION OF DRY CLEANING EQUIPMENT (WHERE CHEMICALS ARE USED)
- #43 PLASTICS (INCLUDING FIBREGLASS) MANUFACTURING AND PROCESSING SALVAGE YARD, INCLUDING AUTOMOBILE WRECKING
- #49 WRECKING
- #01 DE-ICING ACTIVITY USING SALT
- #02 PCB USAGE
- #03 ONTARIO SPILLS

Note
 GREEN - PCA NOT CAUSING APEC
 RED - PCA CAUSING APEC

Reference
 ArcGIS Map 2021

Project
**60 DUNDAS ST E,
 MISSISSAUGA, ONTARIO**

Figure Title
PCA LOCATION PLAN

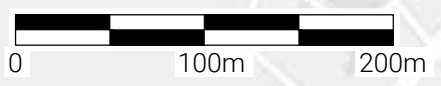
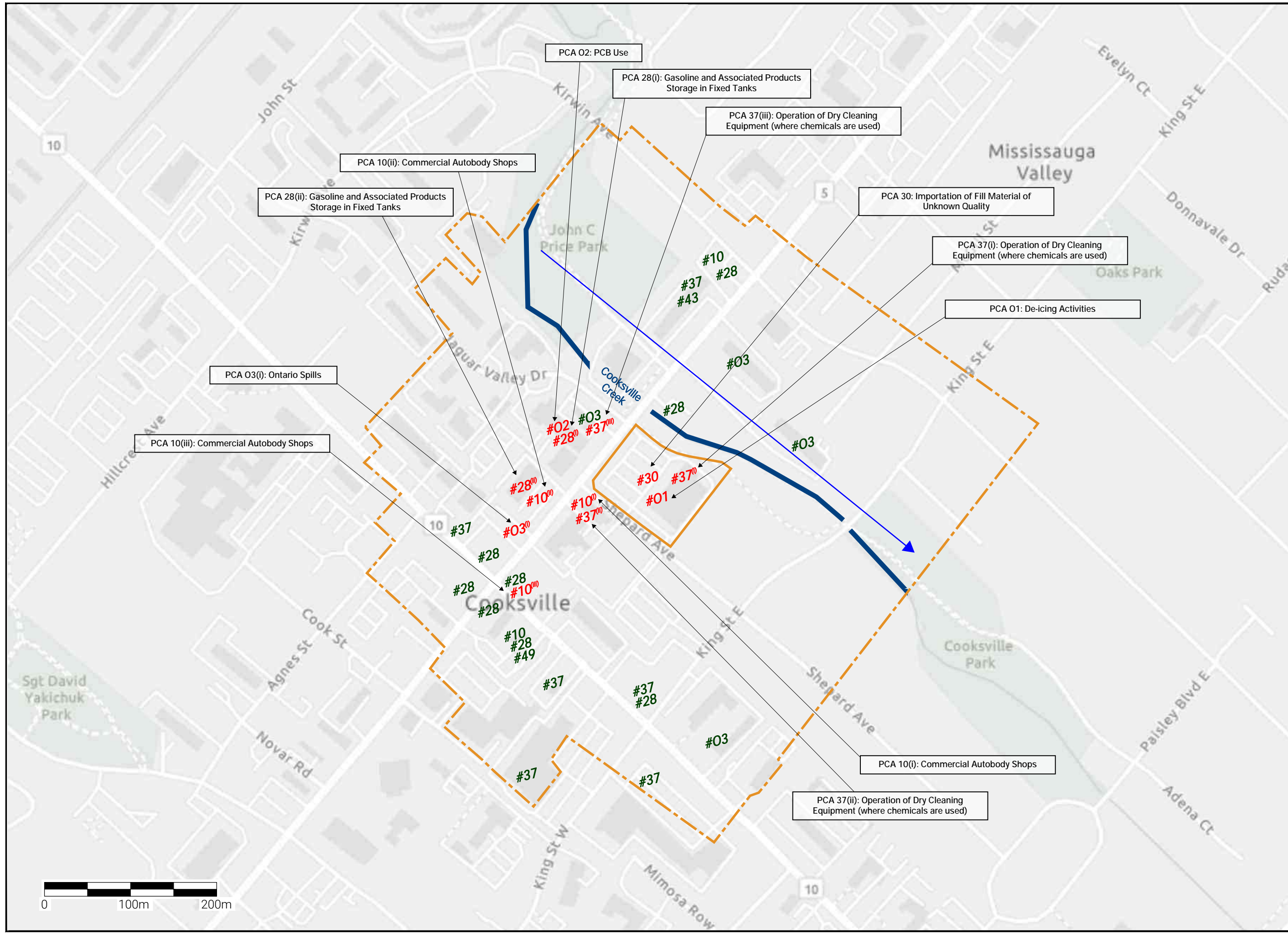


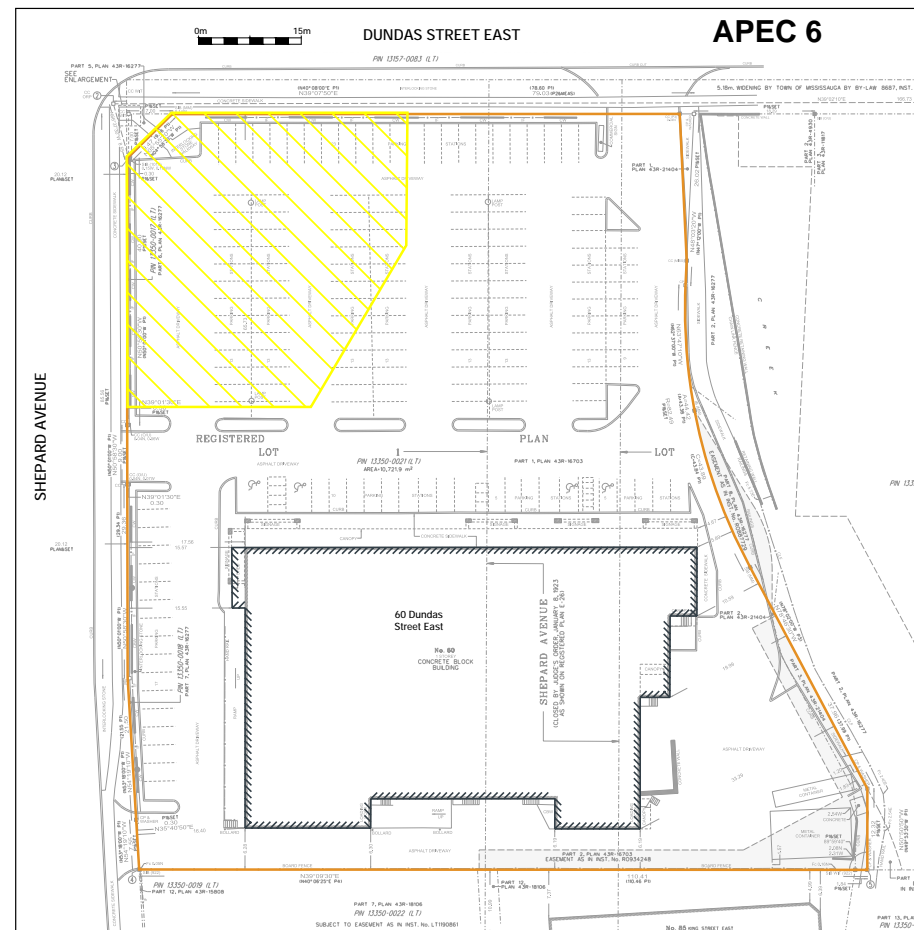
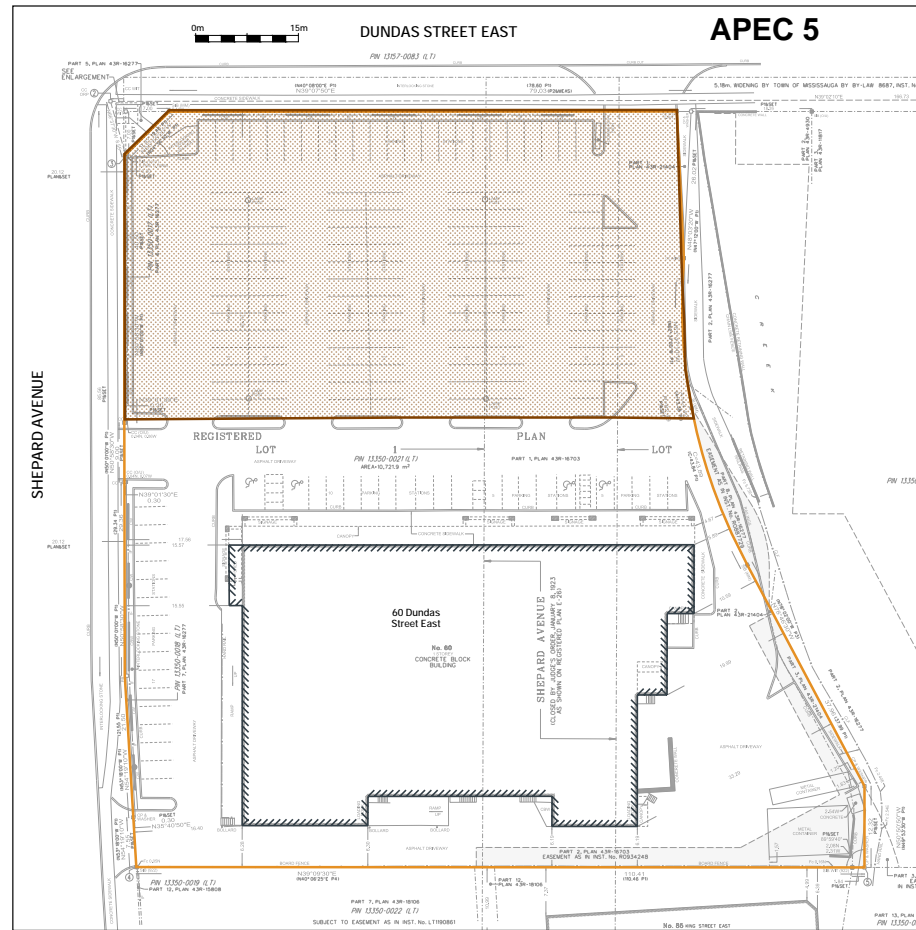
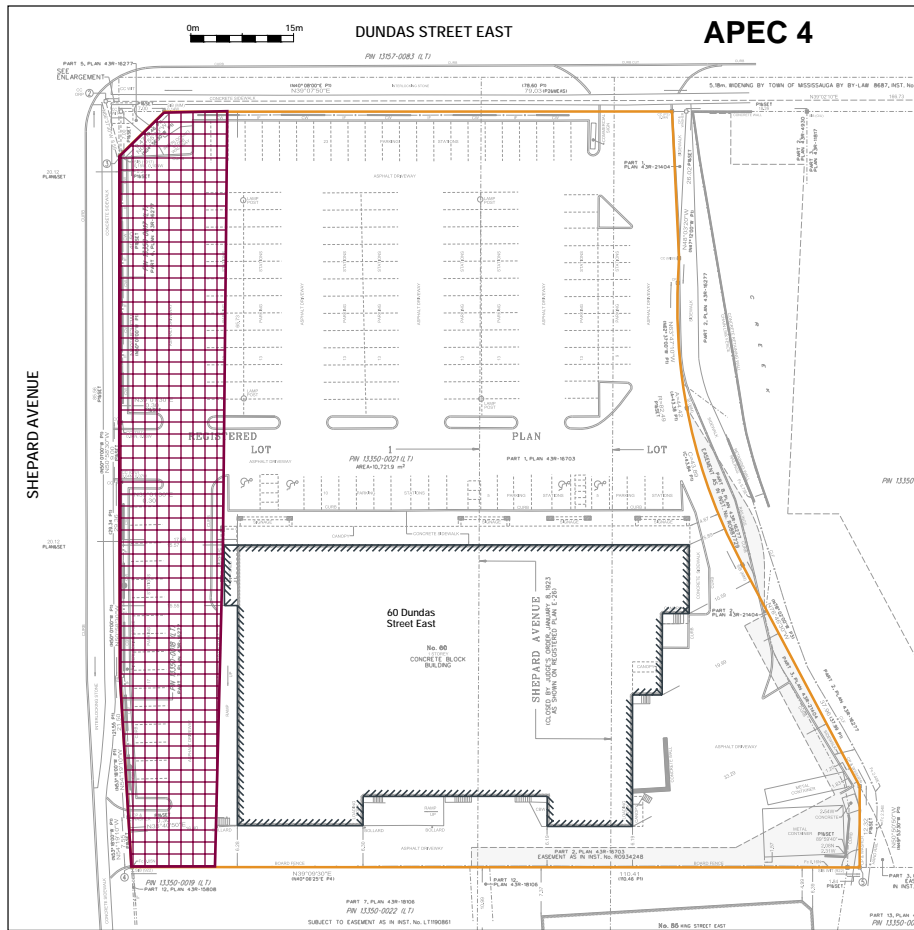
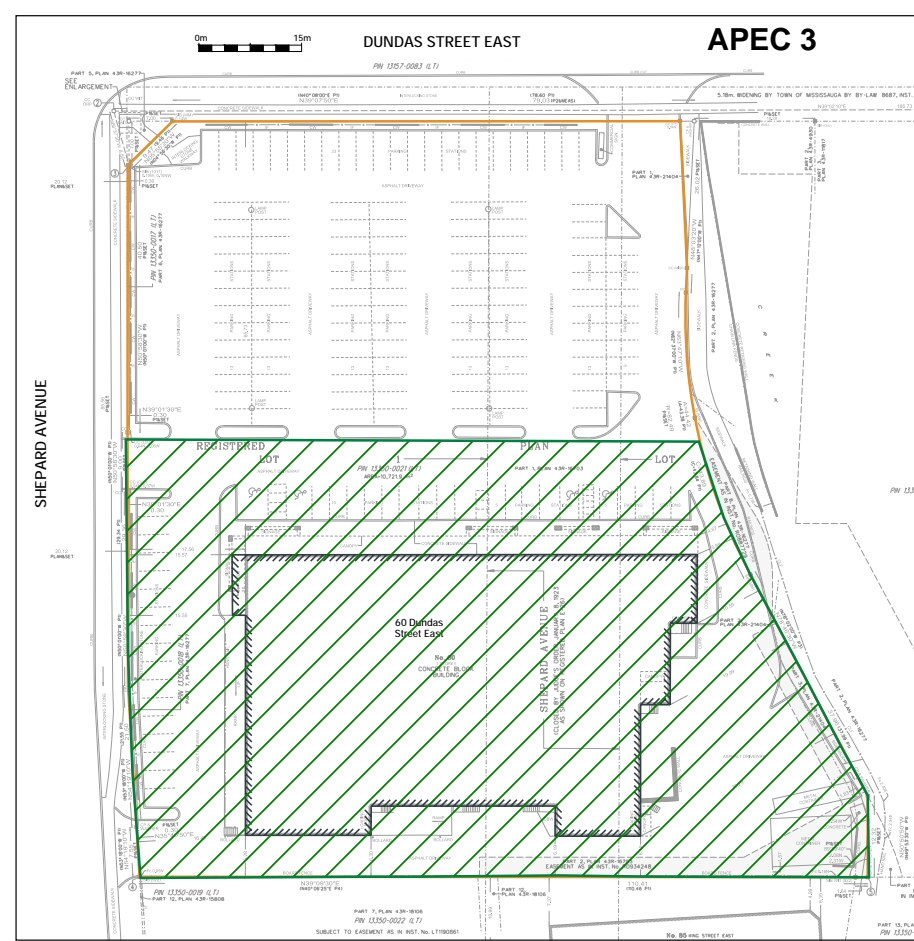
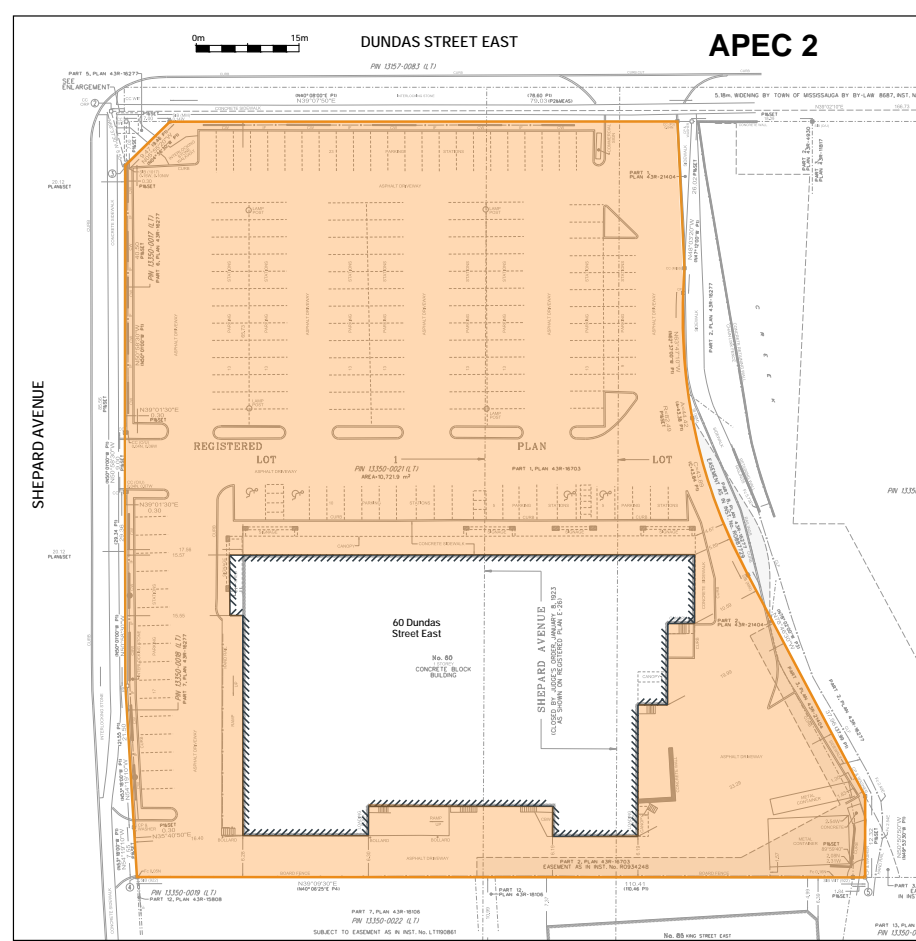
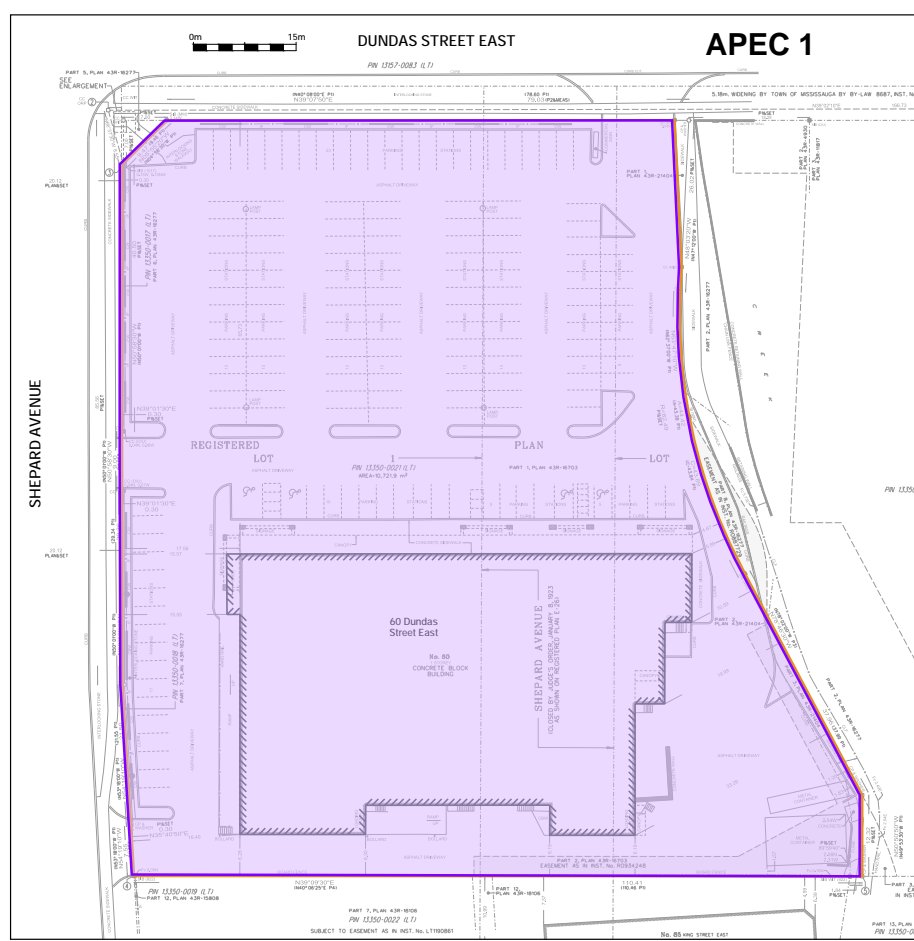
Date
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Figure No
FIGURE 2





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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING STRUCTURE
- APEC 1
- APEC 2
- APEC 3
- APEC 4
- APEC 5
- APEC 6

Note

Reference

Survey Drawing no. 20-21-14108-00.
Prepared by Aksan Piller Corporation Ltd.
Dated April 5, 2021.

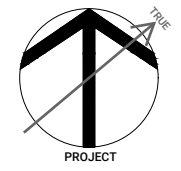
Project

**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title

APEC LOCATION PLAN

North



Date

OCTOBER 2022

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21-067

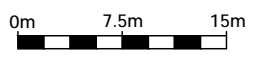
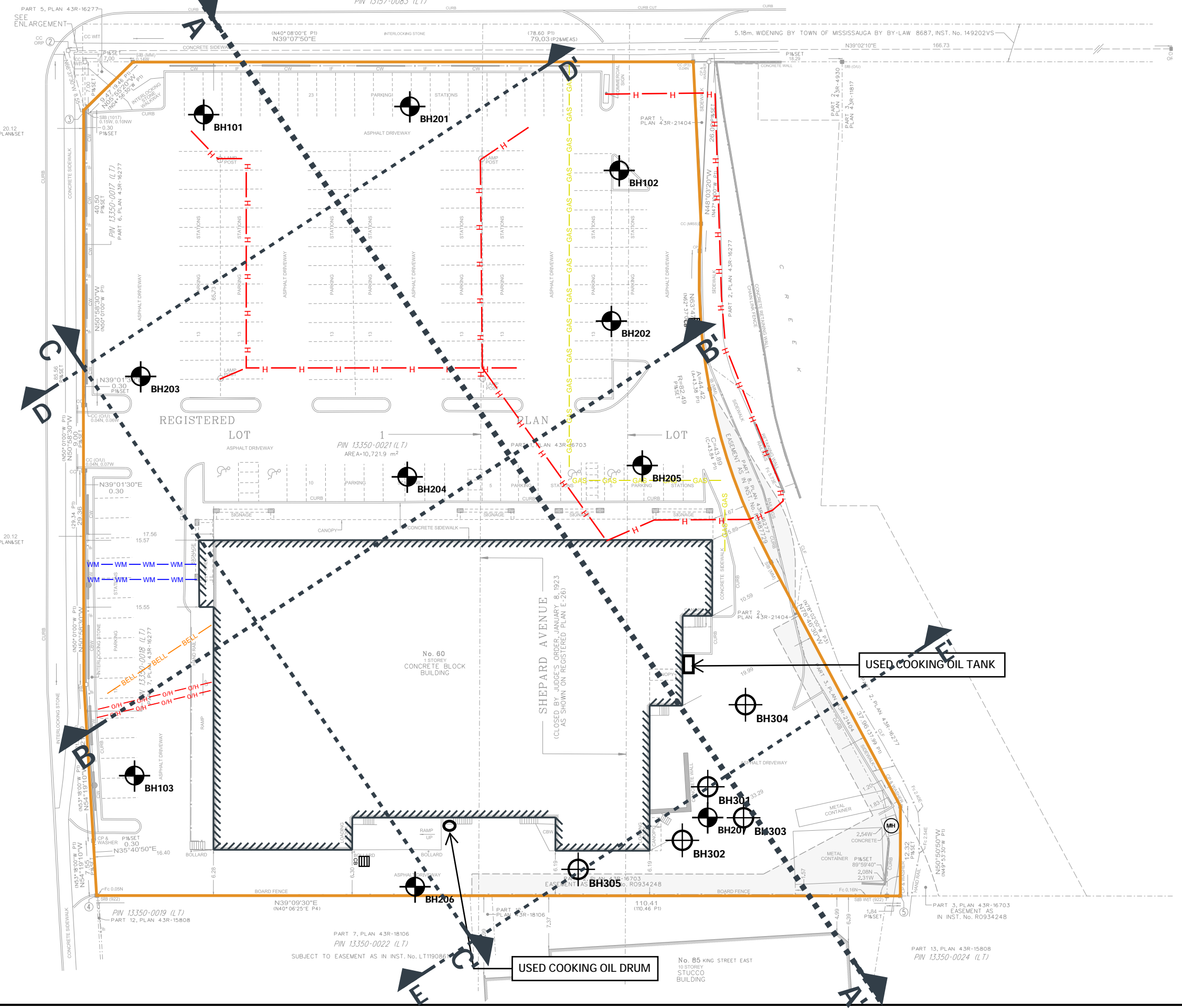
Figure No

FIGURE 3

DUNDAS STREET EAST

PIN 13157-0083 (LT)

SHEPARD AVENUE



**GROUND
ENGINEERING**

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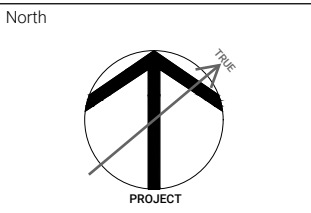
LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING STRUCTURE
- MONITORING WELL BY GROUND
- BOREHOLE BY GROUND
- GAS
- ELECTRICAL
- BURIED HYDRO
- OVERHEAD HYDRO
- WATER
- COMMUNICATION
- SANITARY
- STORM
- MANHOLE
- CATCH BASIN

Reference
Survey Drawing no. 20-21-14108-00.
Prepared by Aksan Piller Corporation Ltd.
Dated April 5, 2021.

Project
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MISSISSAUGA, ONTARIO**

Figure Title
**BOREHOLE LOCATION
PLAN**



Date
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Job No
21-067

Figure No
FIGURE 4



**GROUND
ENGINEERING**

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- LEGEND**
- APPROXIMATE PROPERTY BOUNDARY
 - EXISTING BUILDING STRUCTURE
 - MONITORING WELL BY GROUNDIED
 - BOREHOLE BY GROUNDIED
 - GAS
 - ELECTRICAL
 - BURIED HYDRO
 - OVERHEAD HYDRO
 - WATER
 - COMMUNICATION
 - SANITARY
 - STORM
 - MANHOLE
 - CATCH BASIN
 - GROUNDWATER ELEVATIONS (masl)
 - GROUNDWATER CONTOURS (masl)
 - APPROXIMATE GROUNDWATER FLOW DIRECTION

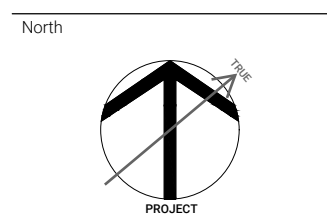
**BH201, BH203 and BH205 excluded from contours

Reference
Survey Drawing no. 20-21-14108-00.
Prepared by Aksan Piller Corporation Ltd.
Dated April 5, 2021.

Project

**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**GROUNDWATER
CONTOURS - OVERBURDEN**

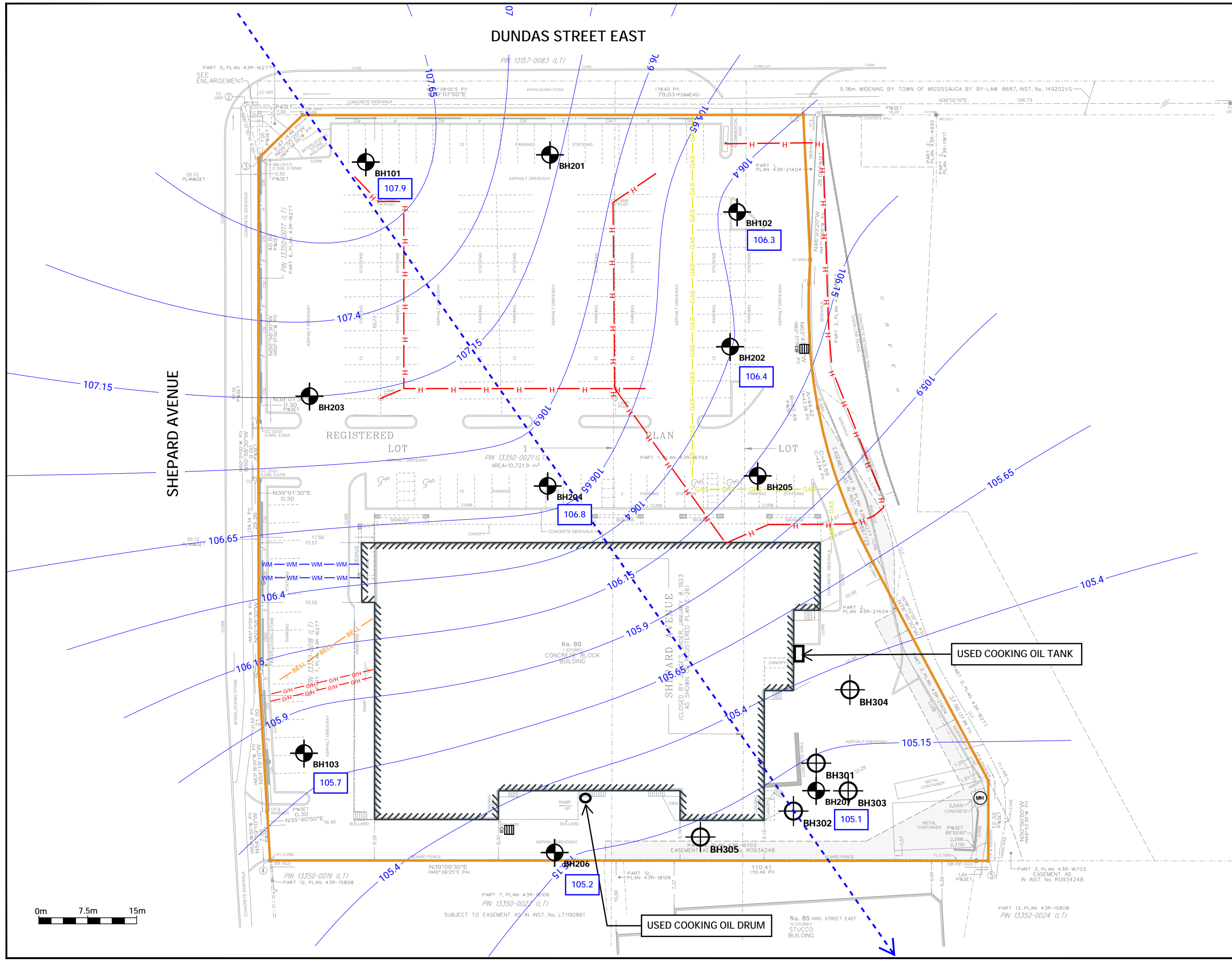


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Figure No
FIGURE 5





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LEGEND

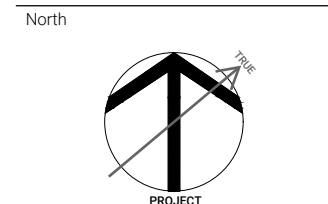
- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING STRUCTURE
- MONITORING WELL BY GROUNDLED
- BOREHOLE BY GROUNDLED
- GAS
- ELECTRICAL
- BURIED HYDRO
- OVERHEAD HYDRO
- WATER
- COMMUNICATION
- SANITARY
- STORM
- MANHOLE
- CATCH BASIN
- GROUNDWATER ELEVATIONS (masl)
- GROUNDWATER CONTOURS (masl)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

**BH101 to BH103, BH202, BH204, BH206 and BH207 excluded from contours

Reference
Survey Drawing no. 20-21-14108-00.
Prepared by Aksan Piller Corporation Ltd.
Dated April 5, 2021.

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**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**GROUNDWATER
CONTOURS - BEDROCK**

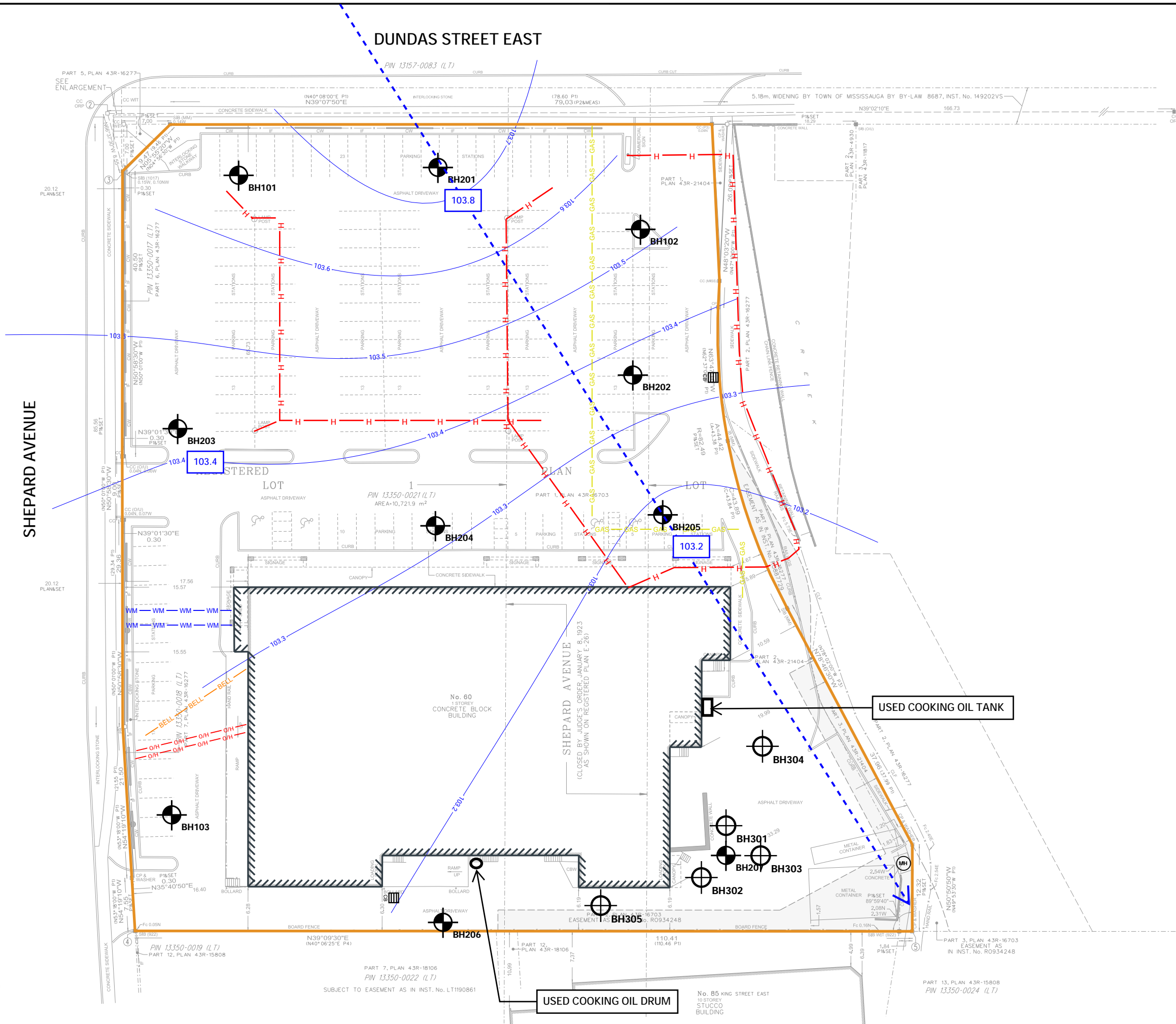


Date
OCTOBER 2022

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Job No
21-067

Figure No
FIGURE 6



Sample Name	BH 101 SS2	DUP 1 (BH 101 SS2)		
COC ID #	L2583177-2	L2583177-14		
Date	03-May-2021	03-May-2021		
Depth of Sample (m)	0.8 - 1.4	0.8 - 1.4		
Elev of Sample (masl)	110.1 - 109.5	110.1 - 109.5		
Parameter				
Other Regulated Parameters (ORPs)				
Boron (hot water soluble)	µg/g	1.5	0.14	0.14

Sample Name	BH203 SS1	BH203 SS4		
COC ID #	L2691773	L2691773		
Date	3/7/2022	3/7/2022		
Depth of Sample (m)	0.2 - 0.8	2.3 - 2.9		
Elev of Sample (masl)	109.8	108.0 - 107.4		
Parameter				
Other Regulated Parameters (ORPs)				
Boron (hot water soluble)	µg/g	1.5	0.17	0.27

Sample Name	BH 103 SS1		
COC ID #	L2583177-10		
Date	03-May-2021		
Depth of Sample (m)	0.2 - 0.8		
Elev of Sample (masl)	109.2 - 108.6		
Parameter			
Other Regulated Parameters (ORPs)			
Boron (hot water soluble)	µg/g	1.5	0.23

Sample Name	BH206 SS2	BH206 SS3B		
COC ID #	L2693469	L2693469		
Date	3/16/2022	3/16/2022		
Depth of Sample (m)	0.8 - 1.4	1.8 - 2.1		
Elev of Sample (masl)	107.4 - 106.8	106.3 - 106.0		
Parameter				
Other Regulated Parameters (ORPs)				
Boron (hot water soluble)	µg/g	1.5	0.17	0.21

DUNDAS STREET EAST

PIN 13157-0083 (LT)

Sample Name	BH201 SS1B	BH201 SS4		
COC ID #	L2693469	L2693469		
Date	3/15/2022	3/15/2022		
Depth of Sample (m)	0.6 - 0.8	2.3 - 2.9		
Elev of Sample (masl)	109.9 - 109.7	108.2 - 107.6		
Parameter				
Other Regulated Parameters (ORPs)				
Boron (hot water soluble)	µg/g	1.5	0.35	0.46

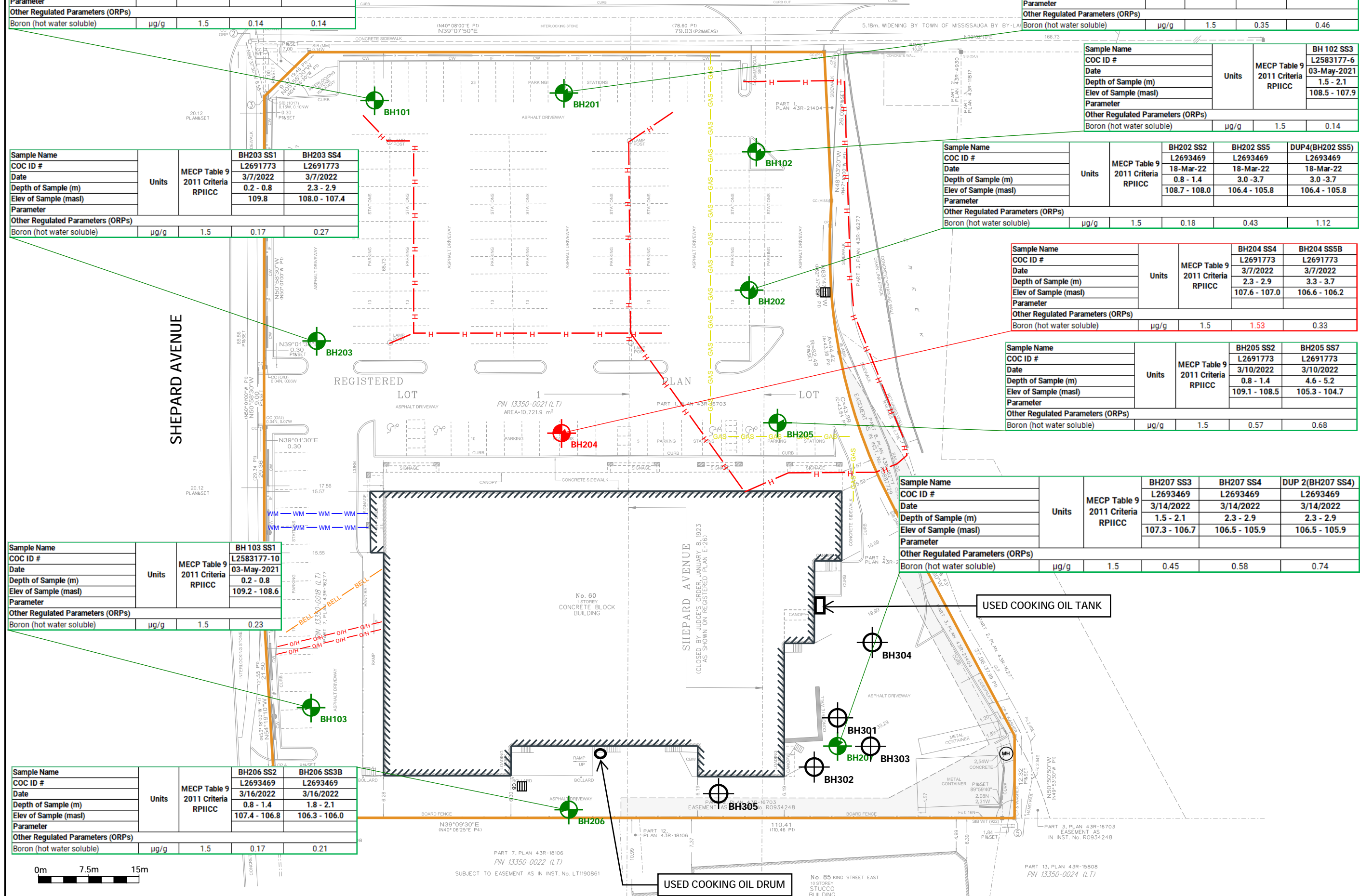
Sample Name	BH 102 SS3		
COC ID #	L2583177-6		
Date	03-May-2021		
Depth of Sample (m)	1.5 - 2.1		
Elev of Sample (masl)	108.5 - 107.9		
Parameter			
Other Regulated Parameters (ORPs)			
Boron (hot water soluble)	µg/g	1.5	0.14

Sample Name	BH202 SS2	BH202 SS5	DUP4(BH202 SS5)		
COC ID #	L2693469	L2693469	L2693469		
Date	18-Mar-22	18-Mar-22	18-Mar-22		
Depth of Sample (m)	0.8 - 1.4	3.0 - 3.7	3.0 - 3.7		
Elev of Sample (masl)	108.7 - 108.0	106.4 - 105.8	106.4 - 105.8		
Parameter					
Other Regulated Parameters (ORPs)					
Boron (hot water soluble)	µg/g	1.5	0.18	0.43	1.12

Sample Name	BH204 SS4	BH204 SS5B		
COC ID #	L2691773	L2691773		
Date	3/7/2022	3/7/2022		
Depth of Sample (m)	2.3 - 2.9	3.3 - 3.7		
Elev of Sample (masl)	107.6 - 107.0	106.6 - 106.2		
Parameter				
Other Regulated Parameters (ORPs)				
Boron (hot water soluble)	µg/g	1.5	1.53	0.33

Sample Name	BH205 SS2	BH205 SS7		
COC ID #	L2691773	L2691773		
Date	3/10/2022	3/10/2022		
Depth of Sample (m)	0.8 - 1.4	4.6 - 5.2		
Elev of Sample (masl)	109.1 - 108.5	105.3 - 104.7		
Parameter				
Other Regulated Parameters (ORPs)				
Boron (hot water soluble)	µg/g	1.5	0.57	0.68

Sample Name	BH207 SS3	BH207 SS4	DUP 2(BH207 SS4)		
COC ID #	L2693469	L2693469	L2693469		
Date	3/14/2022	3/14/2022	3/14/2022		
Depth of Sample (m)	1.5 - 2.1	2.3 - 2.9	2.3 - 2.9		
Elev of Sample (masl)	107.3 - 106.7	106.5 - 105.9	106.5 - 105.9		
Parameter					
Other Regulated Parameters (ORPs)					
Boron (hot water soluble)	µg/g	1.5	0.45	0.58	0.74



GROUND
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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING STRUCTURE
- MONITORING WELL BY GROUNDED
- BOREHOLE BY GROUNDED
- GAS
- ELECTRICAL
- BURIED HYDRO
- OVERHEAD HYDRO
- WATER
- COMMUNICATION
- SANITARY
- STORM
- MANHOLE
- CATCH BASIN

Note

Other Regulated Parameters (ORPs)	Units	MECP Table 9 2011 Criteria RPIICC
Boron (hot water soluble)	µg/g	1.5

Reference

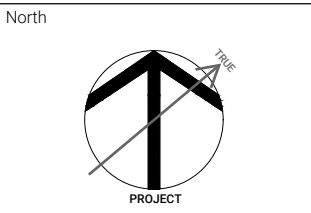
Survey Drawing no. 20-21-14108-00.
Prepared by Aksan Piller Corporation Ltd.
Dated April 5, 2021.

Project

**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title

**ORP EXCEEDANCES IN
SOIL - PLAN VIEW**



Date

OCTOBER 2022

Scale

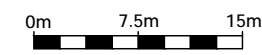
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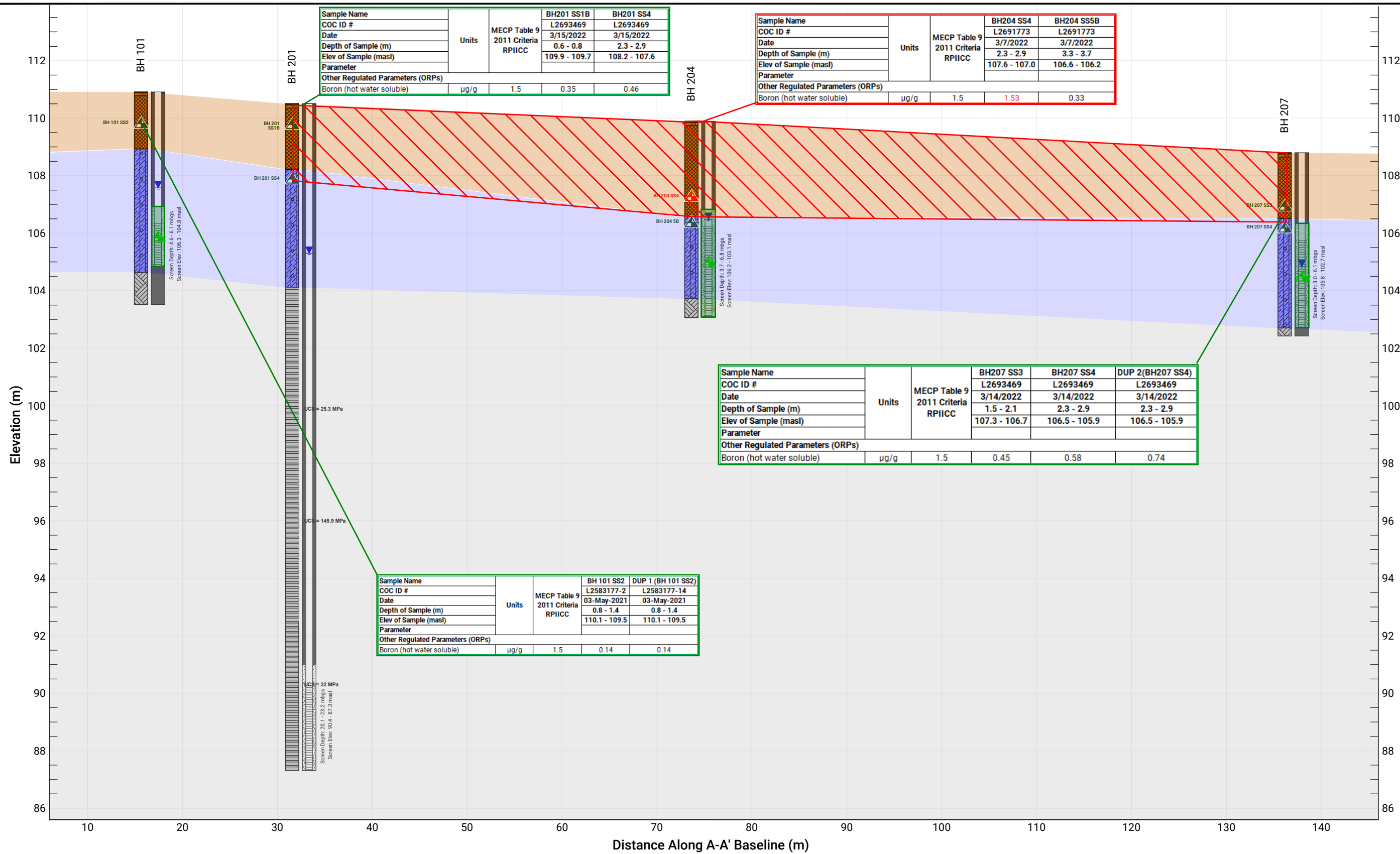
Job No

21-067

Figure No

FIGURE 7





Elevation (m)

Distance Along A-A' Baseline (m)

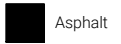





Sample Name	BH201 SS1B	BH201 SS4
COC ID #	L2693469	L2693469
Date	3/15/2022	3/15/2022
Depth of Sample (m)	0.6 - 0.8	2.3 - 2.9
Elev of Sample (masl)	109.9 - 109.7	108.2 - 107.6
Parameter		
Other Regulated Parameters (ORPs)		
Boron (hot water soluble)	µg/g 1.5	0.35 0.46

Sample Name	BH204 SS4	BH204 SS5B
COC ID #	L2691773	L2691773
Date	3/7/2022	3/7/2022
Depth of Sample (m)	2.3 - 2.9	3.3 - 3.7
Elev of Sample (masl)	107.6 - 107.0	106.6 - 106.2
Parameter		
Other Regulated Parameters (ORPs)		
Boron (hot water soluble)	µg/g 1.5	1.53 0.33













Sample Name	BH207 SS3	BH207 SS4	DUP 2(BH207 SS4)
COC ID #	L2693469	L2693469	L2693469
Date	3/14/2022	3/14/2022	3/14/2022
Depth of Sample (m)	1.5 - 2.1	2.3 - 2.9	2.3 - 2.9
Elev of Sample (masl)	107.3 - 106.7	106.5 - 105.9	106.5 - 105.9
Parameter			
Other Regulated Parameters (ORPs)			
Boron (hot water soluble)	µg/g 1.5	0.45 0.58	0.74

Sample Name	BH 101 SS2	DUP 1 (BH 101 SS2)
COC ID #	L2583177-2	L2583177-14
Date	03-May-2021	03-May-2021
Depth of Sample (m)	0.8 - 1.4	0.8 - 1.4
Elev of Sample (masl)	110.1 - 109.5	110.1 - 109.5
Parameter		
Other Regulated Parameters (ORPs)		
Boron (hot water soluble)	µg/g 1.5	0.14 0.14

BOREHOLE STRATIGRAPHY LEGEND

	Asphalt		Bedrock (inferred)
	Aggregate		Shale
	Fill		Clayey Silt Till

LEGEND

-  FILL
-  GRAVELS (gravel to gravely sand)
-  SILT TO SAND (not till)
-  COHESIONLESS TILLS
-  COHESIVE SOILS (clayey silt to clay, incl. tills)
-  DISTURBED/REWORKED/ORGANIC
-  SOIL SAMPLE LOCATION MEETS STANDARD
-  SOIL SAMPLE LOCATION EXCEEDS STANDARD
-  GROUNDWATER SAMPLE LOCATION MEETS STANDARD
-  water level, unstabilized
-  water level, stabilized
-  APPROXIMATE EXTENT OF CONTAMINATION

Note

Other Regulated Parameters (ORPs)	Units	MECP Table 9 2011 Criteria RPIICC
Boron (hot water soluble)	µg/g	1.5

Reference

Project

**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**SECTION A-A' ORP
EXCEEDANCES**

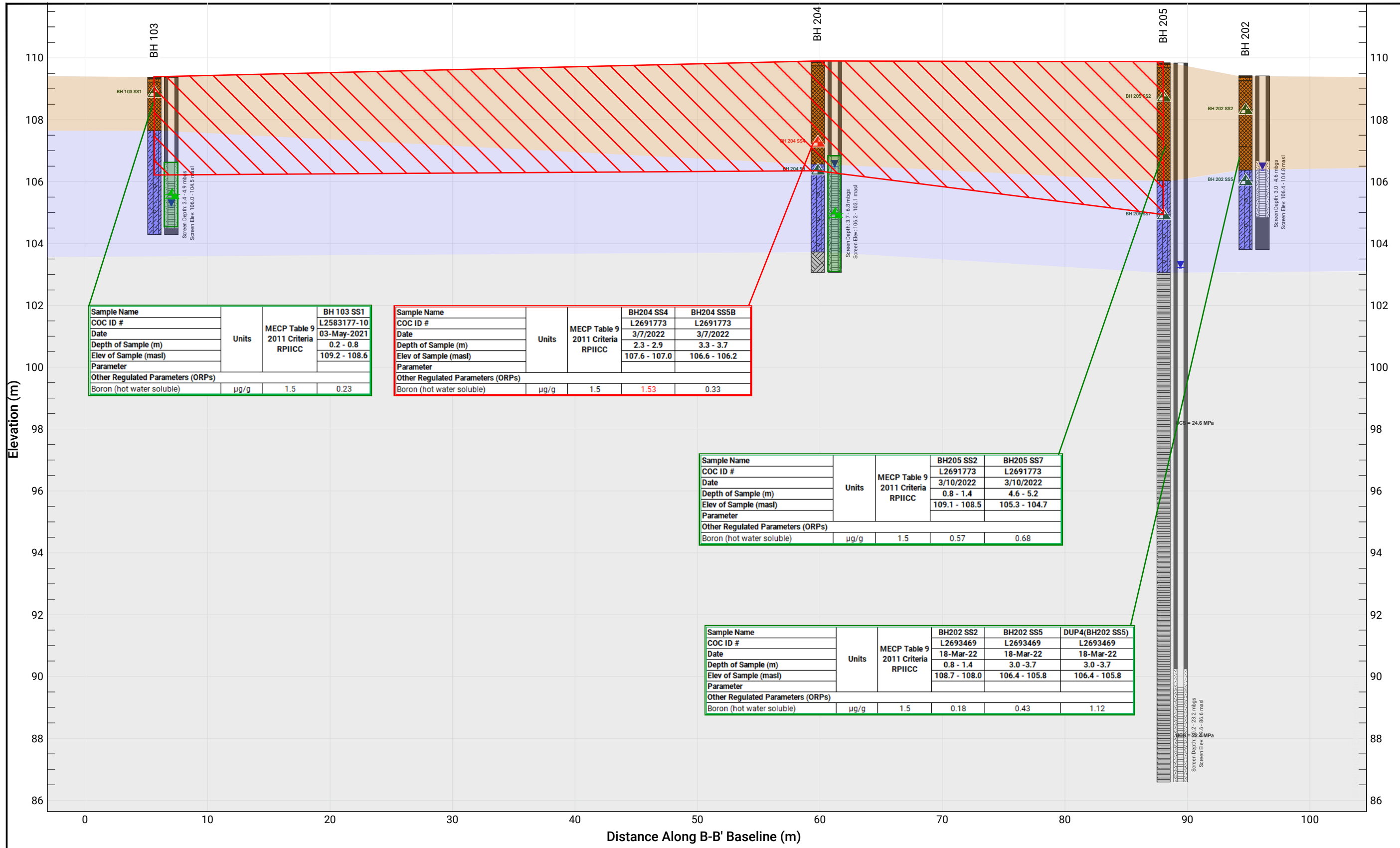
North

Date
OCTOBER 2022

Scale
AS INDICATED

Job No
21-067

Figure No
FIGURE 8



LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS TILLS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SS2 SOIL SAMPLE LOCATION MEETS STANDARD
- SS1 SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Other Regulated Parameters (ORPs)	Units	MECP Table 9 2011 Criteria RPIICC
Boron (hot water soluble)	µg/g	1.5

Reference

Project

**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title

SECTION B-B' ORP EXCEEDANCES

North

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Job No

21-067

Figure No

FIGURE 9

BOREHOLE STRATIGRAPHY LEGEND

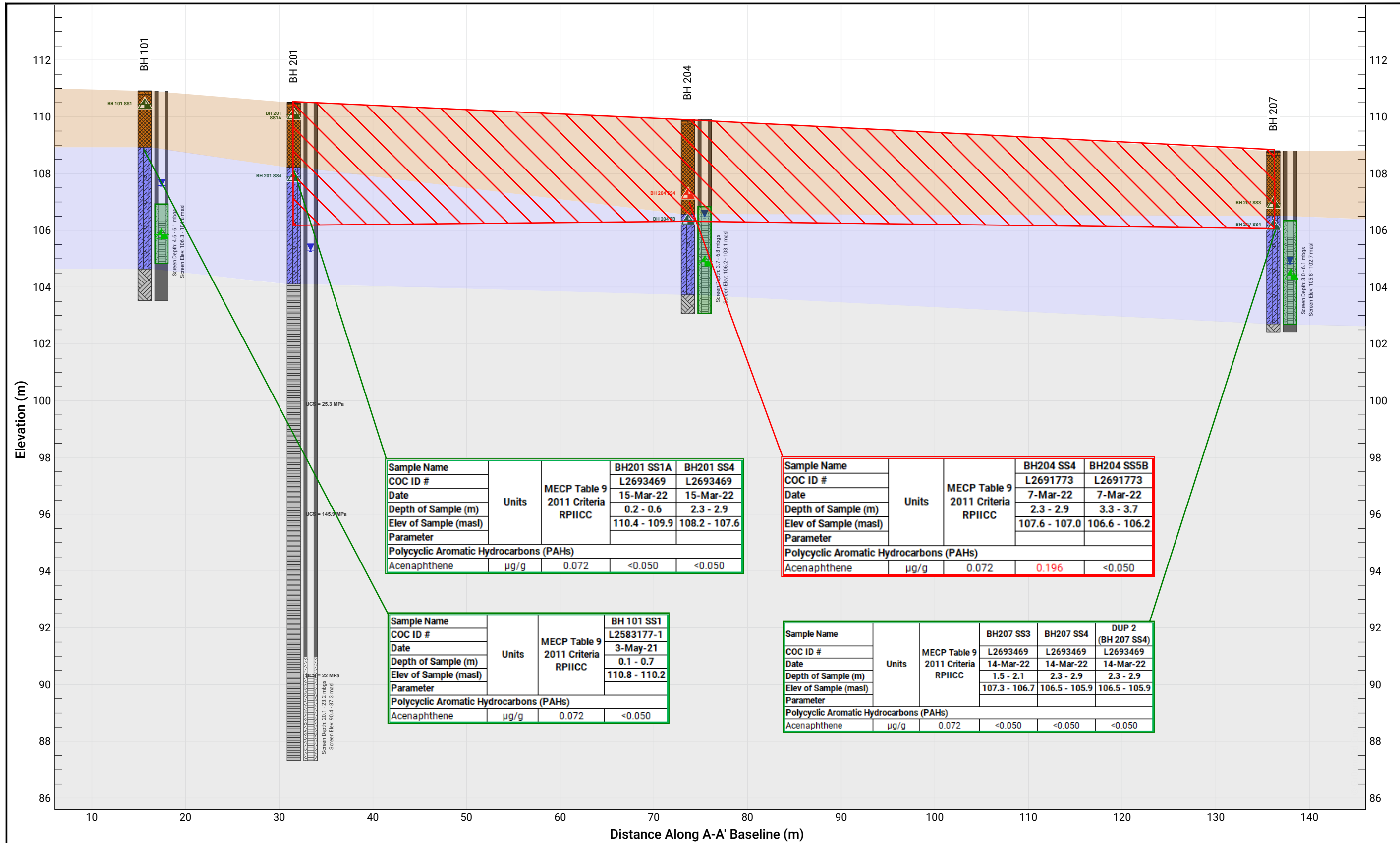
 Asphalt	 Bedrock (inferred)
 Aggregate	 Shale
 Fill	 Clayey Silt Till

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH 103 SS1
COC ID #			L2583177-10
Date			03-May-2021
Depth of Sample (m)			0.2 - 0.8
Elev of Sample (masl)			109.2 - 108.6
Parameter			
Other Regulated Parameters (ORPs)			
Boron (hot water soluble)	µg/g	1.5	0.23

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH204 SS4	BH204 SS5B
COC ID #			L2691773	L2691773
Date			3/7/2022	3/7/2022
Depth of Sample (m)			2.3 - 2.9	3.3 - 3.7
Elev of Sample (masl)			107.6 - 107.0	106.6 - 106.2
Parameter				
Other Regulated Parameters (ORPs)				
Boron (hot water soluble)	µg/g	1.5	1.53	0.33

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH205 SS2	BH205 SS7
COC ID #			L2691773	L2691773
Date			3/10/2022	3/10/2022
Depth of Sample (m)			0.8 - 1.4	4.6 - 5.2
Elev of Sample (masl)			109.1 - 108.5	105.3 - 104.7
Parameter				
Other Regulated Parameters (ORPs)				
Boron (hot water soluble)	µg/g	1.5	0.57	0.68

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH202 SS2	BH202 SS5	DUP4(BH202 SS5)
COC ID #			L2693469	L2693469	L2693469
Date			18-Mar-22	18-Mar-22	18-Mar-22
Depth of Sample (m)			0.8 - 1.4	3.0 - 3.7	3.0 - 3.7
Elev of Sample (masl)			108.7 - 108.0	106.4 - 105.8	106.4 - 105.8
Parameter					
Other Regulated Parameters (ORPs)					
Boron (hot water soluble)	µg/g	1.5	0.18	0.43	1.12



LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS TILLS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SOIL SAMPLE LOCATION MEETS STANDARD
- SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Polycyclic Aromatic Hydrocarbons (PAHs)	Units	MECP Table 9 2011 Criteria RPIICC
Acenaphthene	µg/g	0.072

Reference

Project

**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title

**SECTION A-A' PAH
EXCEEDANCES**

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OCTOBER 2022

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Job No

21-067

Figure No

FIGURE 11

Sample Name			BH201 SS1A	BH201 SS4
COC ID #			L2693469	L2693469
Date			15-Mar-22	15-Mar-22
Depth of Sample (m)	Units	MECP Table 9 2011 Criteria RPIICC	0.2 - 0.6	2.3 - 2.9
Elev of Sample (masl)			110.4 - 109.9	108.2 - 107.6
Parameter				
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	µg/g	0.072	<0.050	<0.050

Sample Name			BH204 SS4	BH204 SS5B
COC ID #			L2691773	L2691773
Date			7-Mar-22	7-Mar-22
Depth of Sample (m)	Units	MECP Table 9 2011 Criteria RPIICC	2.3 - 2.9	3.3 - 3.7
Elev of Sample (masl)			107.6 - 107.0	106.6 - 106.2
Parameter				
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	µg/g	0.072	0.196	<0.050

Sample Name			BH 101 SS1
COC ID #			L2583177-1
Date			3-May-21
Depth of Sample (m)	Units	MECP Table 9 2011 Criteria RPIICC	0.1 - 0.7
Elev of Sample (masl)			110.8 - 110.2
Parameter			
Polycyclic Aromatic Hydrocarbons (PAHs)			
Acenaphthene	µg/g	0.072	<0.050

Sample Name			BH207 SS3	BH207 SS4	DUP 2 (BH 207 SS4)
COC ID #			L2693469	L2693469	L2693469
Date			14-Mar-22	14-Mar-22	14-Mar-22
Depth of Sample (m)	Units	MECP Table 9 2011 Criteria RPIICC	1.5 - 2.1	2.3 - 2.9	2.3 - 2.9
Elev of Sample (masl)			107.3 - 106.7	106.5 - 105.9	106.5 - 105.9
Parameter					
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	µg/g	0.072	<0.050	<0.050	<0.050

BOREHOLE STRATIGRAPHY LEGEND

- Asphalt
- Bedrock (inferred)
- Aggregate
- Shale
- Fill
- Clayey Silt Till

LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS SILTS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SS2 SOIL SAMPLE LOCATION MEETS STANDARD
- SS1 SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Polycyclic Aromatic Hydrocarbons (PAHs)	Units	MECP Table 9 2011 Criteria RPIICC
Acenaphthene	µg/g	0.072

Reference

Polycyclic Aromatic Hydrocarbons (PAHs)	Units	MECP Table 9 2011 Criteria RPIICC
Acenaphthene	µg/g	0.072

Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**SECTION B-B' PAH
EXCEEDANCES**

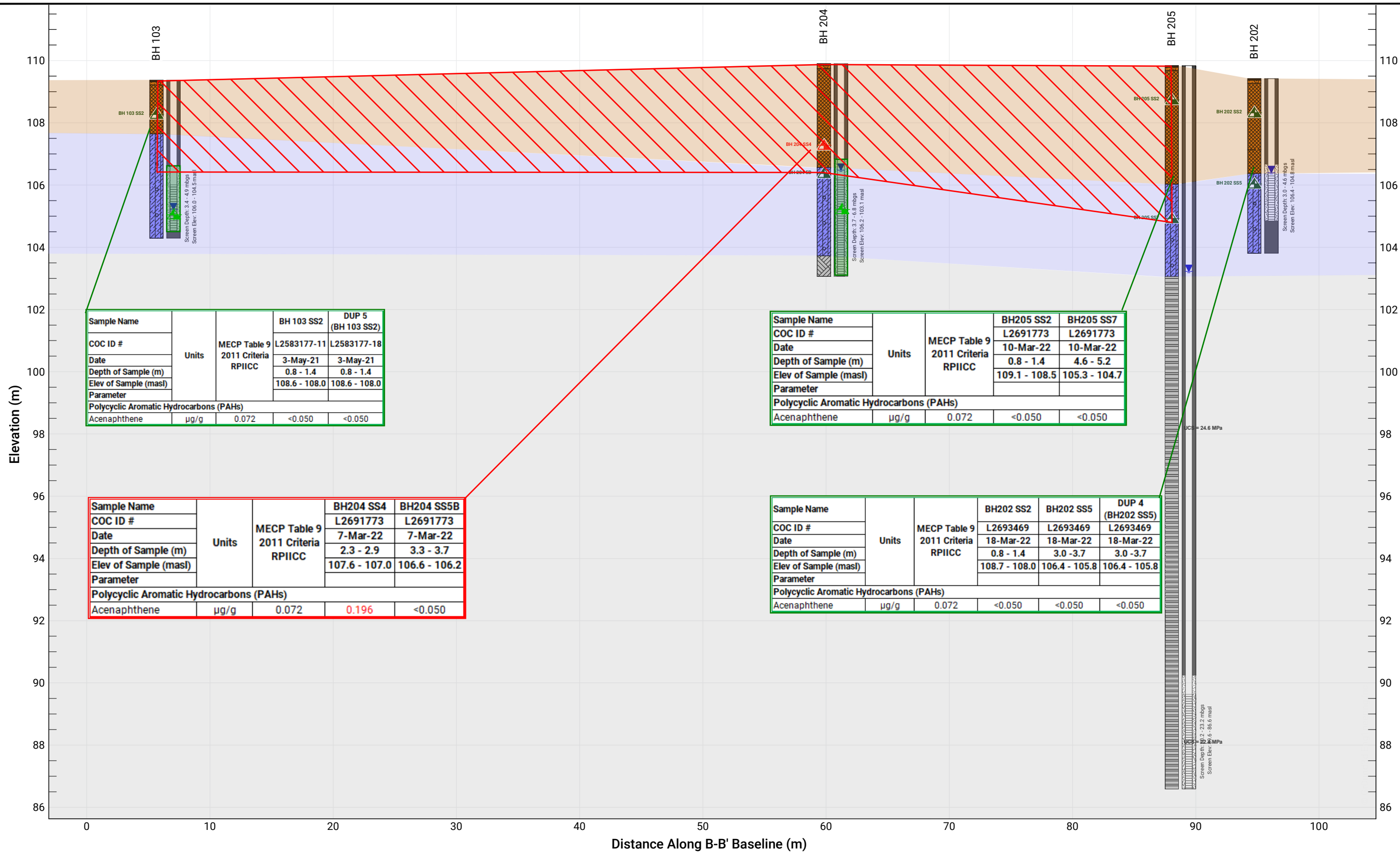
North

Date
OCTOBER 2022

Scale
AS INDICATED

Job No
21-067

Figure No
FIGURE 12



Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH 103 SS2	DUP 5 (BH 103 SS2)
COC ID #			L2583177-11	L2583177-18
Date			3-May-21	3-May-21
Depth of Sample (m)			0.8 - 1.4	0.8 - 1.4
Elev of Sample (masl)			108.6 - 108.0	108.6 - 108.0
Parameter				
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	µg/g	0.072	<0.050	<0.050

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH205 SS2	BH205 SS7
COC ID #			L2691773	L2691773
Date			10-Mar-22	10-Mar-22
Depth of Sample (m)			0.8 - 1.4	4.6 - 5.2
Elev of Sample (masl)			109.1 - 108.5	105.3 - 104.7
Parameter				
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	µg/g	0.072	<0.050	<0.050

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH204 SS4	BH204 SS5B
COC ID #			L2691773	L2691773
Date			7-Mar-22	7-Mar-22
Depth of Sample (m)			2.3 - 2.9	3.3 - 3.7
Elev of Sample (masl)			107.6 - 107.0	106.6 - 106.2
Parameter				
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	µg/g	0.072	0.196	<0.050

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH202 SS2	BH202 SS5	DUP 4 (BH202 SS5)
COC ID #			L2693469	L2693469	L2693469
Date			18-Mar-22	18-Mar-22	18-Mar-22
Depth of Sample (m)			0.8 - 1.4	3.0 - 3.7	3.0 - 3.7
Elev of Sample (masl)			108.7 - 108.0	106.4 - 105.8	106.4 - 105.8
Parameter					
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	µg/g	0.072	<0.050	<0.050	<0.050

BOREHOLE STRATIGRAPHY LEGEND

- Asphalt
- Aggregate
- Fill
- Clayey Silt Till
- Bedrock (inferred)
- Shale

DUNDAS STREET EAST

PIN 13157-0083 (LT)



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

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING STRUCTURE
- MONITORING WELL BY GROUNDED
- BOREHOLE BY GROUNDED
- GAS
- ELECTRICAL
- BURIED HYDRO
- OVERHEAD HYDRO
- WATER
- COMMUNICATION
- SANITARY
- STORM
- MANHOLE
- CATCH BASIN

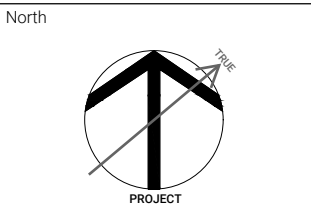
Note

Petroleum Hydrocarbons (PHCs)	Units	MECP Table 9 2011 Criteria RPIICC
Petroleum Hydrocarbons F1	µg/g	25
Petroleum Hydrocarbons F1-BTEX	µg/g	NV
Petroleum Hydrocarbons F2	µg/g	10
Petroleum Hydrocarbons F3	µg/g	240
Petroleum Hydrocarbons F4	µg/g	120
Total Hydrocarbons (C6-C50)	µg/g	NV
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV
Chromatogram returned to baseline at nC50	Yes / No	Yes

Reference
Survey Drawing no. 20-21-14108-00.
Prepared by Aksan Piller Corporation Ltd.
Dated April 5, 2021.

Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**PHC EXCEEDANCES IN
SOIL - PLAN VIEW**



Date
OCTOBER 2022

Scale
AS INDICATED

Job No
21-067

Figure No
FIGURE 13

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH101 SS4 (BH101 SS4)	DUP 3 (BH101 SS4)
COC ID #			L2583177-4	L2583177-16
Date			3-May-21	3-May-21
Depth of Sample (m)			2.3 - 2.9	2.3 - 2.9
Elev of Sample (mast)			108.6 - 108.0	108.6 - 108.0
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	13	14
Petroleum Hydrocarbons F3	µg/g	240	50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH203 SS2	BH203 SS6
COC ID #			L2691773	L2691773
Date			7-Mar-22	7-Mar-22
Depth of Sample (m)			0.8 - 1.4	4.6 - 5.2
Elev of Sample (mast)			109.5 - 108.9	105.7 - 105.1
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	496
Petroleum Hydrocarbons F3	µg/g	240	<50	939
Petroleum Hydrocarbons F4	µg/g	120	<50	880
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	2310
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	<250
Chromatogram returned to baseline at nC50	Yes / No		YES	NO

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH102 SS6B (L2583177-8)
COC ID #			L2583177-8
Date			3-May-21
Depth of Sample (m)			4.0 - 4.4
Elev of Sample (mast)			106.0 - 105.6
Parameter			
Petroleum Hydrocarbons (PHCs)			
Petroleum Hydrocarbons F1	µg/g	25	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50
Petroleum Hydrocarbons F4	µg/g	120	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA
Chromatogram returned to baseline at nC50	Yes / No		YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH204 SS4	BH204 SS6
COC ID #			L2691773	L2691773
Date			7-Mar-22	7-Mar-22
Depth of Sample (m)			2.3 - 2.9	4.6 - 5.0
Elev of Sample (mast)			107.6 - 107.0	105.3 - 104.9
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	7.4	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	7.4	<5.0
Petroleum Hydrocarbons F2	µg/g	10	579	<10
Petroleum Hydrocarbons F3	µg/g	240	437	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	1020	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH205 SS3	BH205 SS6A
COC ID #			L2691773	L2691773
Date			10-Mar-22	10-Mar-22
Depth of Sample (m)			1.5 - 2.1	3.8 - 4.4
Elev of Sample (mast)			108.3 - 107.7	106.0 - 105.5
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

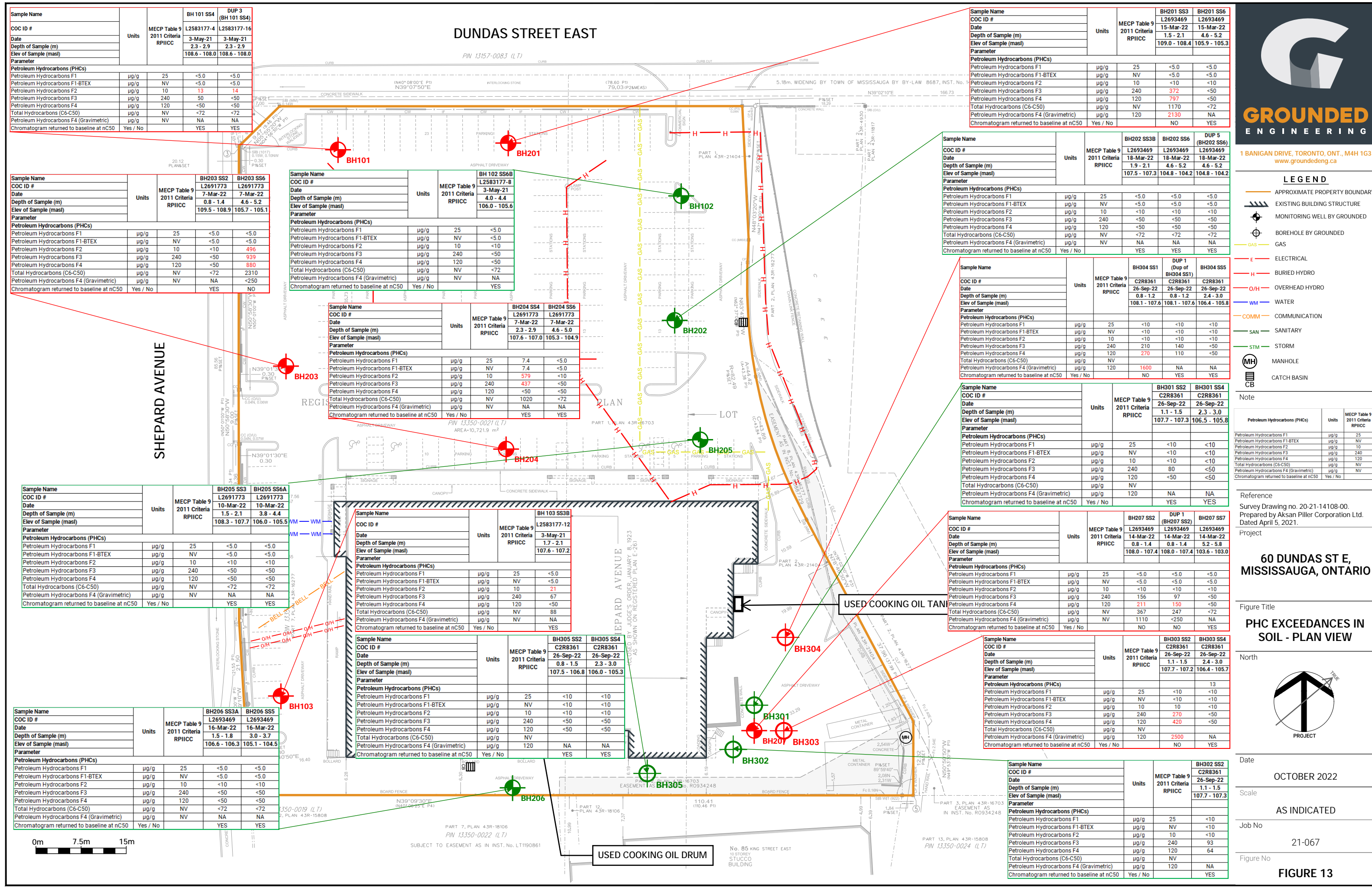
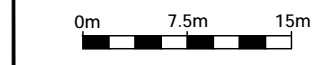
Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH103 SS3B (L2583177-12)
COC ID #			L2583177-12
Date			3-May-21
Depth of Sample (m)			1.7 - 2.1
Elev of Sample (mast)			107.6 - 107.2
Parameter			
Petroleum Hydrocarbons (PHCs)			
Petroleum Hydrocarbons F1	µg/g	25	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0
Petroleum Hydrocarbons F2	µg/g	10	21
Petroleum Hydrocarbons F3	µg/g	240	67
Petroleum Hydrocarbons F4	µg/g	120	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	88
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA
Chromatogram returned to baseline at nC50	Yes / No		YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH305 SS2	BH305 SS4
COC ID #			C2R8361	C2R8361
Date			26-Sep-22	26-Sep-22
Depth of Sample (m)			0.8 - 1.5	2.3 - 3.0
Elev of Sample (mast)			107.5 - 106.8	106.0 - 105.3
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<10	<10
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10	<10
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH206 SS3A	BH206 SS5
COC ID #			L2693469	L2693469
Date			16-Mar-22	16-Mar-22
Depth of Sample (m)			1.5 - 1.8	3.0 - 3.7
Elev of Sample (mast)			106.6 - 106.3	105.1 - 104.5
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH206 SS3A	BH206 SS5
COC ID #			L2693469	L2693469
Date			16-Mar-22	16-Mar-22
Depth of Sample (m)			1.5 - 1.8	3.0 - 3.7
Elev of Sample (mast)			106.6 - 106.3	105.1 - 104.5
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH302 SS2	C2R8361	BH303 SS4
COC ID #			C2R8361	C2R8361	C2R8361
Date			26-Sep-22	26-Sep-22	26-Sep-22
Depth of Sample (m)			1.1 - 1.5	2.3 - 3.0	2.4 - 3.0
Elev of Sample (mast)			107.7 - 107.2	106.4 - 105.7	106.4 - 105.7
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<10	<10	13
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10	<10	<10
Petroleum Hydrocarbons F2	µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	270	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	420	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	2500	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		NO	NO	YES



LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS TILLS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SOIL SAMPLE LOCATION MEETS STANDARD
- SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Petroleum Hydrocarbons (PHCs)	Units	MECP Table 9 2011 Criteria RPIICC
Petroleum Hydrocarbons F1	µg/g	25
Petroleum Hydrocarbons F1-BTEX	µg/g	NV
Petroleum Hydrocarbons F2	µg/g	10
Petroleum Hydrocarbons F3	µg/g	240
Petroleum Hydrocarbons F4	µg/g	120
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV
Chromatogram returned to baseline at nC50	Yes / No	

Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**SECTION A-A' PHC
EXCEEDANCES**

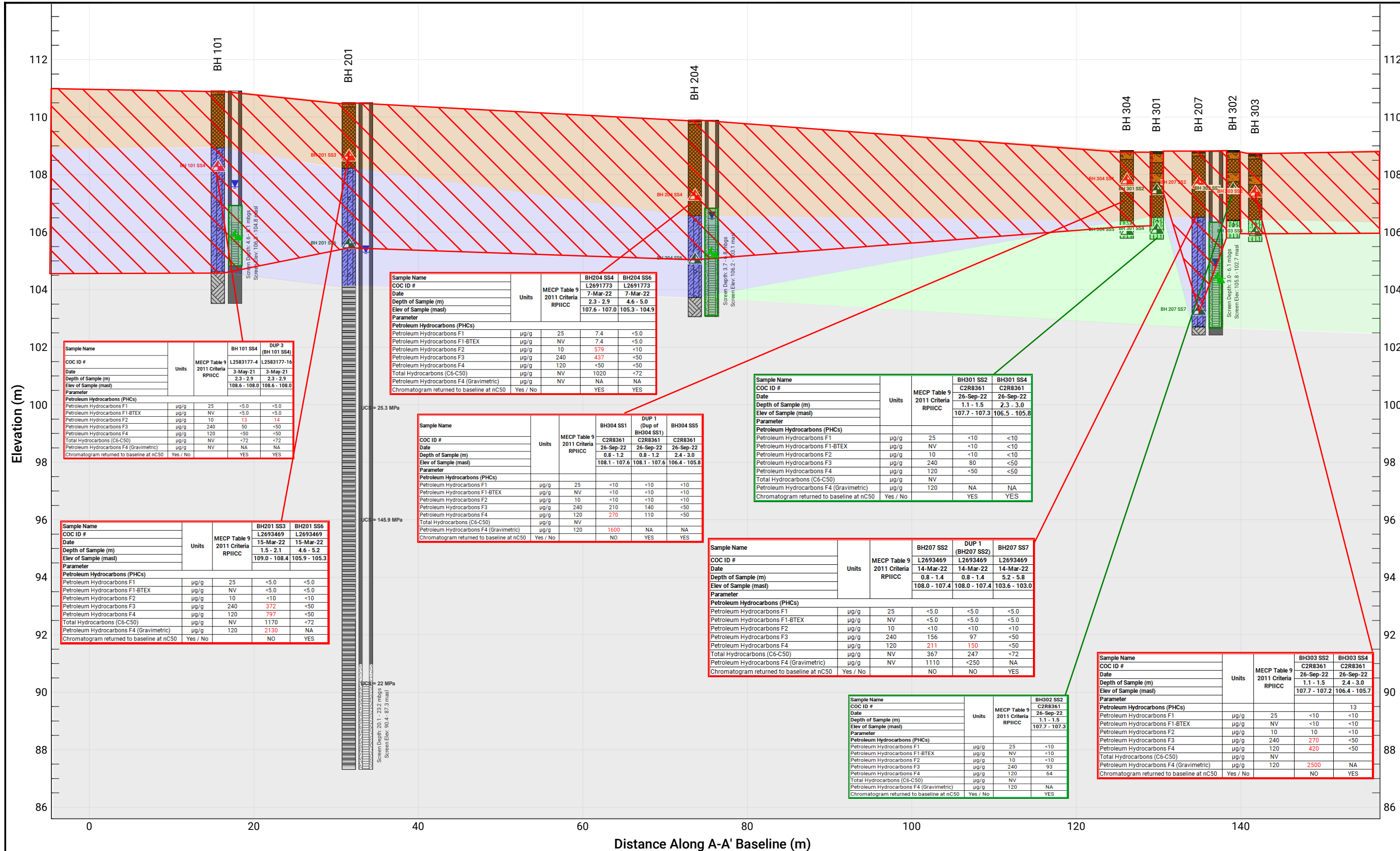
North

Date
OCTOBER 2022

Scale
AS INDICATED

Job No
21-067

Figure No
FIGURE 14



Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH204 SS4 L2691773	BH204 SS6 L2691773
Date				7-Mar-22	7-Mar-22
Depth of Sample (m)				2.3 - 2.9	4.6 - 5.0
Elev of Sample (masl)				107.6 - 107.0	105.3 - 104.9
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1		µg/g	25	7.4	<5.0
Petroleum Hydrocarbons F1-BTEX		µg/g	NV	7.4	<5.0
Petroleum Hydrocarbons F2		µg/g	10	579	<10
Petroleum Hydrocarbons F3		µg/g	240	437	<50
Petroleum Hydrocarbons F4		µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)		µg/g	NV	1020	<72
Petroleum Hydrocarbons F4 (Gravimetric)		µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50		Yes / No		YES	YES

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH301 SS2 C2R8361	BH301 SS4 C2R8361
Date				26-Sep-22	26-Sep-22
Depth of Sample (m)				1.1 - 1.5	2.3 - 3.0
Elev of Sample (masl)				107.7 - 107.3	106.5 - 105.8
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1		µg/g	25	<10	<10
Petroleum Hydrocarbons F1-BTEX		µg/g	NV	<10	<10
Petroleum Hydrocarbons F2		µg/g	10	<10	<10
Petroleum Hydrocarbons F3		µg/g	240	80	<50
Petroleum Hydrocarbons F4		µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)		µg/g	NV	<50	<50
Petroleum Hydrocarbons F4 (Gravimetric)		µg/g	120	NA	NA
Chromatogram returned to baseline at nC50		Yes / No		YES	YES

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH304 SS1 C2R8361	DUP 1 (Dup of BH304 SS1) C2R8361	BH304 SS5 C2R8361
Date				26-Sep-22	26-Sep-22	26-Sep-22
Depth of Sample (m)				0.8 - 1.2	0.8 - 1.2	2.4 - 3.0
Elev of Sample (masl)				108.1 - 107.6	108.1 - 107.6	106.4 - 105.8
Parameter						
Petroleum Hydrocarbons (PHCs)						
Petroleum Hydrocarbons F1		µg/g	25	<10	<10	<10
Petroleum Hydrocarbons F1-BTEX		µg/g	NV	<10	<10	<10
Petroleum Hydrocarbons F2		µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3		µg/g	240	210	140	<50
Petroleum Hydrocarbons F4		µg/g	120	270	110	<50
Total Hydrocarbons (C6-C50)		µg/g	NV	<50	<50	<50
Petroleum Hydrocarbons F4 (Gravimetric)		µg/g	120	1600	NA	NA
Chromatogram returned to baseline at nC50		Yes / No		NO	YES	YES

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH207 SS2 L2693469	DUP 1 (BH207 SS2) L2693469	BH207 SS7 L2693469
Date				14-Mar-22	14-Mar-22	14-Mar-22
Depth of Sample (m)				0.8 - 1.4	0.8 - 1.4	5.2 - 5.8
Elev of Sample (masl)				108.0 - 107.4	108.0 - 107.4	103.6 - 103.0
Parameter						
Petroleum Hydrocarbons (PHCs)						
Petroleum Hydrocarbons F1		µg/g	25	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX		µg/g	NV	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F2		µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3		µg/g	240	156	97	<50
Petroleum Hydrocarbons F4		µg/g	120	211	150	<50
Total Hydrocarbons (C6-C50)		µg/g	NV	367	247	<72
Petroleum Hydrocarbons F4 (Gravimetric)		µg/g	NV	1110	<250	NA
Chromatogram returned to baseline at nC50		Yes / No		NO	NO	YES

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH302 SS2 C2R8361
Date				26-Sep-22
Depth of Sample (m)				1.1 - 1.5
Elev of Sample (masl)				107.7 - 107.3
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1		µg/g	25	<10
Petroleum Hydrocarbons F1-BTEX		µg/g	NV	<10
Petroleum Hydrocarbons F2		µg/g	10	<10
Petroleum Hydrocarbons F3		µg/g	240	93
Petroleum Hydrocarbons F4		µg/g	120	64
Total Hydrocarbons (C6-C50)		µg/g	NV	<50
Petroleum Hydrocarbons F4 (Gravimetric)		µg/g	120	NA
Chromatogram returned to baseline at nC50		Yes / No		YES

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH303 SS2 C2R8361	BH303 SS4 C2R8361
Date				26-Sep-22	26-Sep-22
Depth of Sample (m)				1.1 - 1.5	2.4 - 3.0
Elev of Sample (masl)				107.7 - 107.2	106.4 - 105.7
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1		µg/g	25	<10	<10
Petroleum Hydrocarbons F1-BTEX		µg/g	NV	<10	<10
Petroleum Hydrocarbons F2		µg/g	10	<10	<10
Petroleum Hydrocarbons F3		µg/g	240	270	<50
Petroleum Hydrocarbons F4		µg/g	120	420	<50
Total Hydrocarbons (C6-C50)		µg/g	NV	<50	<50
Petroleum Hydrocarbons F4 (Gravimetric)		µg/g	120	2500	NA
Chromatogram returned to baseline at nC50		Yes / No		NO	YES

BOREHOLE STRATIGRAPHY LEGEND

- Asphalt
- Bedrock (inferred)
- Aggregate
- Shale
- Fill
- Sandy Silt Till
- Clayey Silt Till

LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS SILTS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SS2 SOIL SAMPLE LOCATION MEETS STANDARD
- SS1 SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Petroleum Hydrocarbons (PHCs)	Units	MECP Table 9 2011 Criteria RPIICC
Petroleum Hydrocarbons F1	µg/g	25
Petroleum Hydrocarbons F1-BTEX	µg/g	NV
Petroleum Hydrocarbons F2	µg/g	10
Petroleum Hydrocarbons F3	µg/g	240
Petroleum Hydrocarbons F4	µg/g	120
Total Hydrocarbons (C6-C50)	µg/g	NV
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV
Chromatogram returned to baseline at nC50	Yes / No	

Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**SECTION B-B' PHC
EXCEEDANCES**

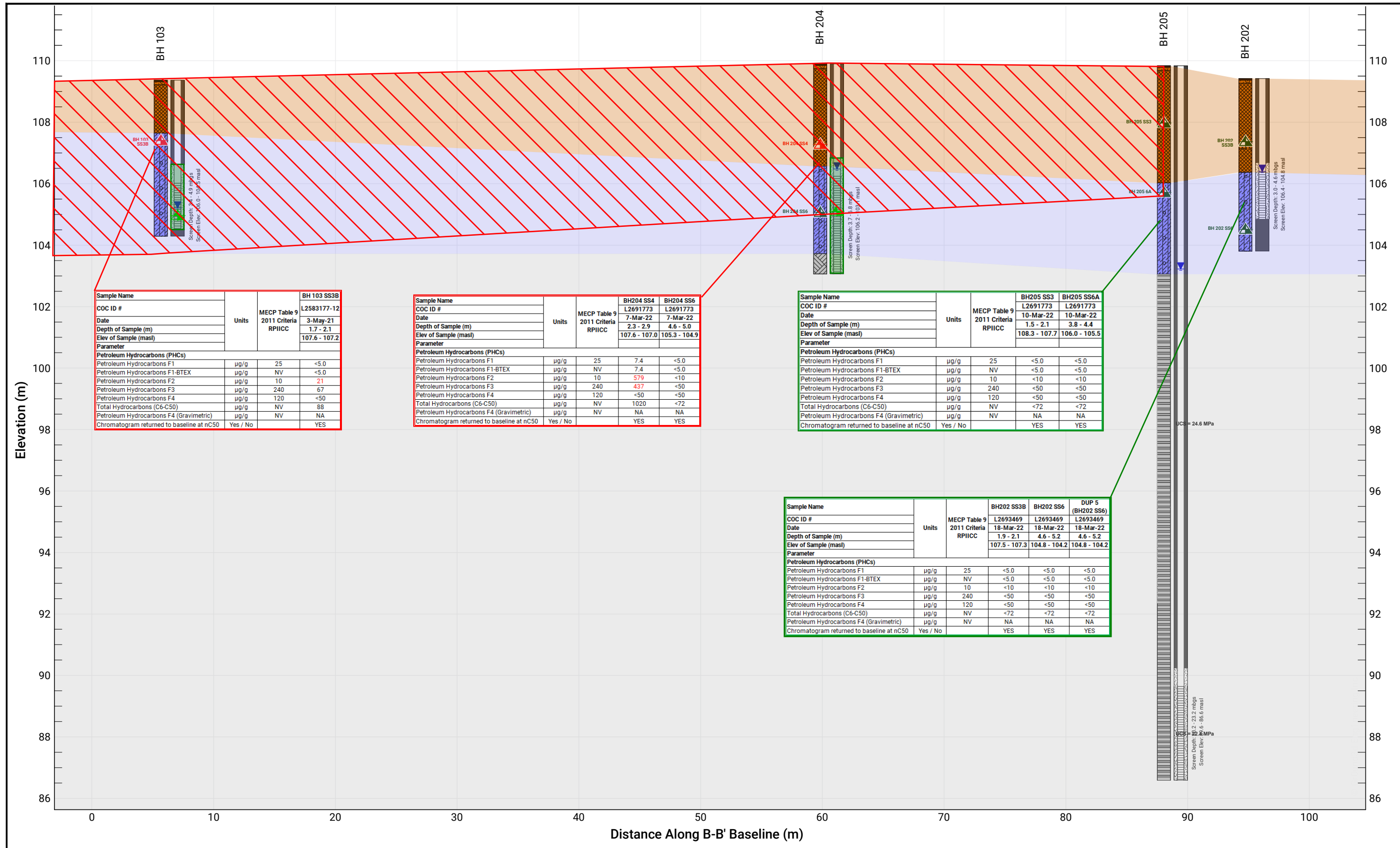
North

Date
OCTOBER 2022

Scale
AS INDICATED

Job No
21-067

Figure No
FIGURE 15



Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH 103 SS3B
COC ID #			L2583177-12
Date			3-May-21
Depth of Sample (m)			1.7 - 2.1
Elev of Sample (masl)			107.6 - 107.2
Parameter			
Petroleum Hydrocarbons (PHCs)			
Petroleum Hydrocarbons F1	µg/g	25	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0
Petroleum Hydrocarbons F2	µg/g	10	21
Petroleum Hydrocarbons F3	µg/g	240	67
Petroleum Hydrocarbons F4	µg/g	120	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	88
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA
Chromatogram returned to baseline at nC50	Yes / No		YES

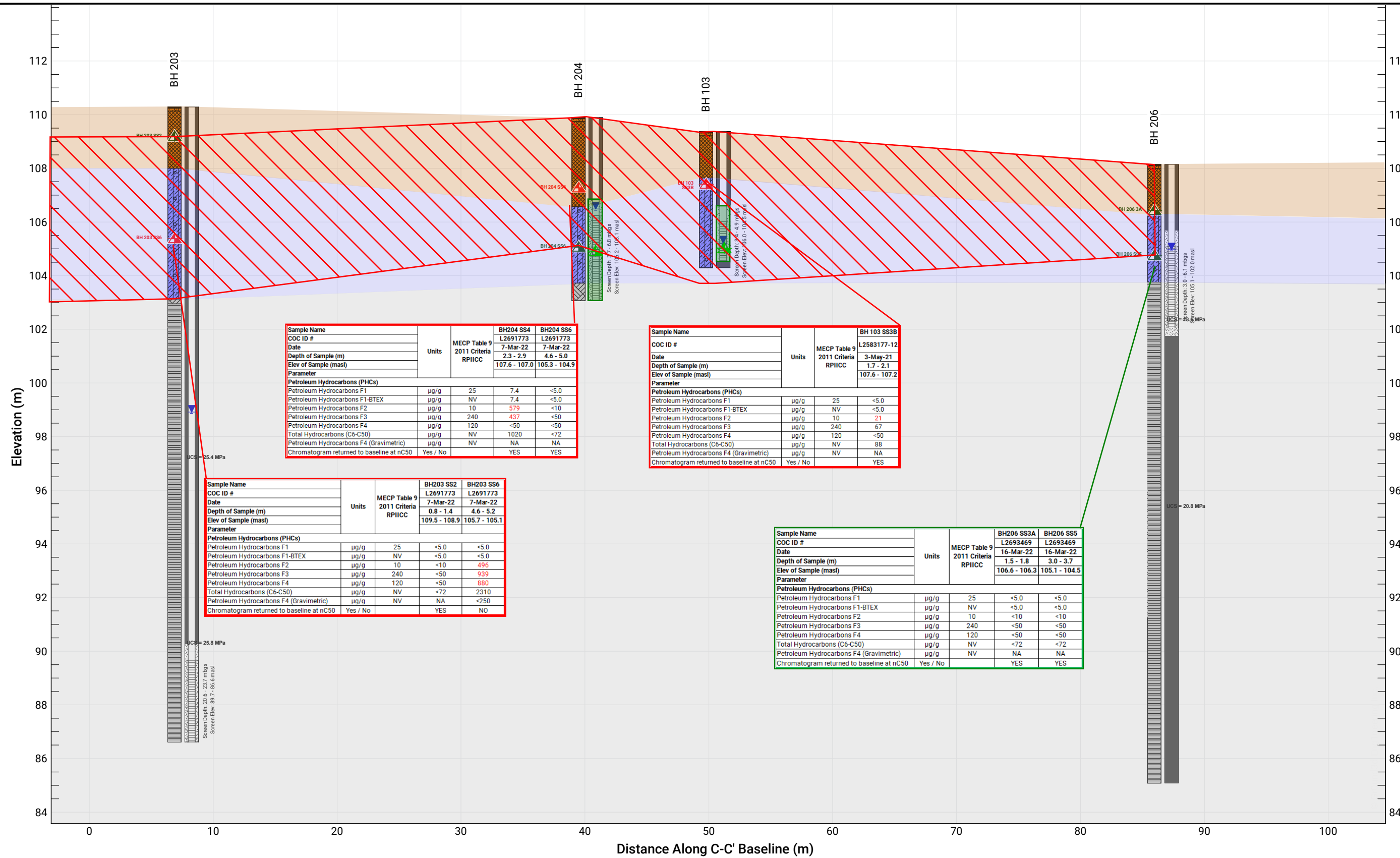
Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH204 SS4	BH204 SS6
COC ID #			L2691773	L2691773
Date			7-Mar-22	7-Mar-22
Depth of Sample (m)			2.3 - 2.9	4.6 - 5.0
Elev of Sample (masl)			107.6 - 107.0	105.3 - 104.9
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	7.4	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	7.4	<5.0
Petroleum Hydrocarbons F2	µg/g	10	579	<10
Petroleum Hydrocarbons F3	µg/g	240	437	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	1020	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH205 SS3	BH205 SS6A
COC ID #			L2691773	L2691773
Date			10-Mar-22	10-Mar-22
Depth of Sample (m)			1.5 - 2.1	3.8 - 4.4
Elev of Sample (masl)			108.3 - 107.7	106.0 - 105.5
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH202 SS3B	BH202 SS6	DUP 5 (BH202 SS6)
COC ID #			L2693469	L2693469	L2693469
Date			18-Mar-22	18-Mar-22	18-Mar-22
Depth of Sample (m)			1.9 - 2.1	4.6 - 5.2	4.6 - 5.2
Elev of Sample (masl)			107.5 - 107.3	104.8 - 104.2	104.8 - 104.2
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES	YES

BOREHOLE STRATIGRAPHY LEGEND

- Asphalt
- Aggregate
- Fill
- Clayey Silt Till
- Bedrock (inferred)
- Shale



Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH204 SS4 L2691773 7-Mar-22	BH204 SS6 L2691773 7-Mar-22
Date				2.3 - 2.9	4.6 - 5.0
Depth of Sample (m)				107.6 - 107.0	105.3 - 104.9
Elev of Sample (masl)					
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<5.0	7.4	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	7.4	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	579	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	437	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	1020	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA	NA
Chromatogram returned to baseline at nC50	Yes / No			YES	YES

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH 103 SS3B L2583177-12
Date				3-May-21
Depth of Sample (m)				1.7 - 2.1
Elev of Sample (masl)				107.6 - 107.2
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	
Petroleum Hydrocarbons F2	µg/g	10	<10	21
Petroleum Hydrocarbons F3	µg/g	240	<50	67
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<88	88
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No			YES

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH203 SS2 L2691773 7-Mar-22	BH203 SS6 L2691773 7-Mar-22
Date				0.8 - 1.4	4.6 - 5.2
Depth of Sample (m)				109.5 - 108.9	105.7 - 105.1
Elev of Sample (masl)					
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	496	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	939	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	880	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	2310	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	<250	NA
Chromatogram returned to baseline at nC50	Yes / No			YES	NO

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH206 SS3A L2693469 16-Mar-22	BH206 SS5 L2693469 16-Mar-22
Date				1.5 - 1.8	3.0 - 3.7
Depth of Sample (m)				106.6 - 106.3	105.1 - 104.5
Elev of Sample (masl)					
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA	NA
Chromatogram returned to baseline at nC50	Yes / No			YES	YES

LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS TILLS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SS2 SOIL SAMPLE LOCATION MEETS STANDARD
- SS1 SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Petroleum Hydrocarbons (PHCs)	Units	MECP Table 9 2011 Criteria RPIICC
Petroleum Hydrocarbons F1	µg/g	25
Petroleum Hydrocarbons F1-BTEX	µg/g	NV
Petroleum Hydrocarbons F2	µg/g	10
Petroleum Hydrocarbons F3	µg/g	240
Petroleum Hydrocarbons F4	µg/g	120
Total Hydrocarbons (C6-C50)	µg/g	NV
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV
Chromatogram returned to baseline at nC50	Yes / No	

BOREHOLE STRATIGRAPHY LEGEND

- Asphalt
- Aggregate
- Fill
- Clayey Silt Till
- Bedrock (inferred)
- Shale

Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**SECTION C-C' PHC
EXCEEDANCES**

North

Date
OCTOBER 2022

Scale
AS INDICATED

Job No
21-067

Figure No
FIGURE 16



GROUND
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LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS TILLS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SOIL SAMPLE LOCATION MEETS STANDARD
- SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Petroleum Hydrocarbons (PHCs)	Units	MECP Table 9 2011 Criteria RPIICC
Petroleum Hydrocarbons F1	µg/g	25
Petroleum Hydrocarbons F1-BTEX	µg/g	NV
Petroleum Hydrocarbons F2	µg/g	10
Petroleum Hydrocarbons F3	µg/g	240
Petroleum Hydrocarbons F4	µg/g	120
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV
Chromatogram returned to baseline at nC50	Yes / No	

Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**SECTION D-D' PHC
EXCEEDANCES**

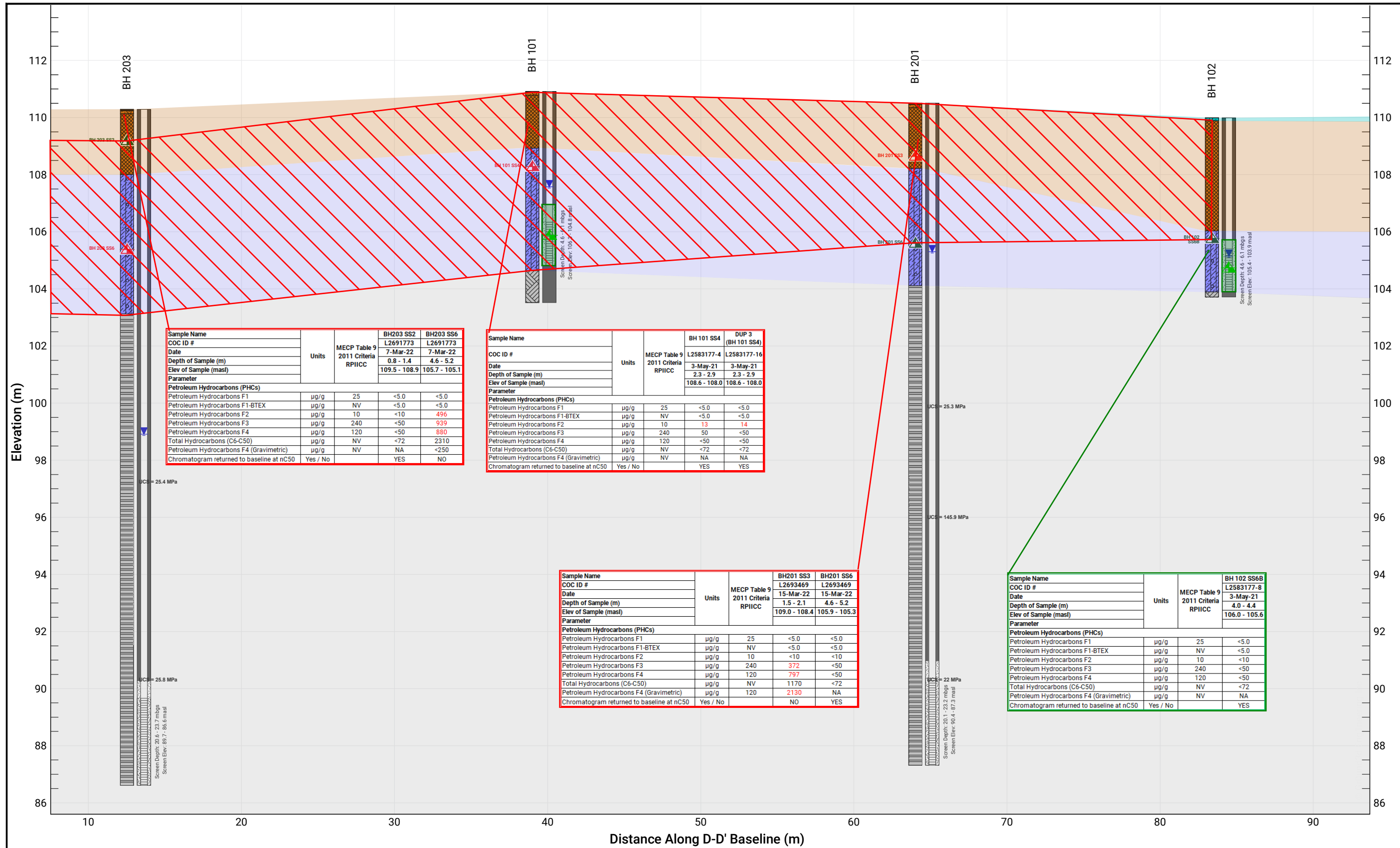
North

Date
OCTOBER 2022

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Job No
21-067

Figure No
FIGURE 17



Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH203 SS2 L2691773 7-Mar-22	BH203 SS6 L2691773 7-Mar-22
COC ID #				
Date				
Depth of Sample (m)			0.8 - 1.4	4.6 - 5.2
Elev of Sample (mast)			109.5 - 108.9	105.7 - 105.1
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	496
Petroleum Hydrocarbons F3	µg/g	240	<50	939
Petroleum Hydrocarbons F4	µg/g	120	<50	880
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	2310
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	<250
Chromatogram returned to baseline at nC50	Yes / No		YES	NO

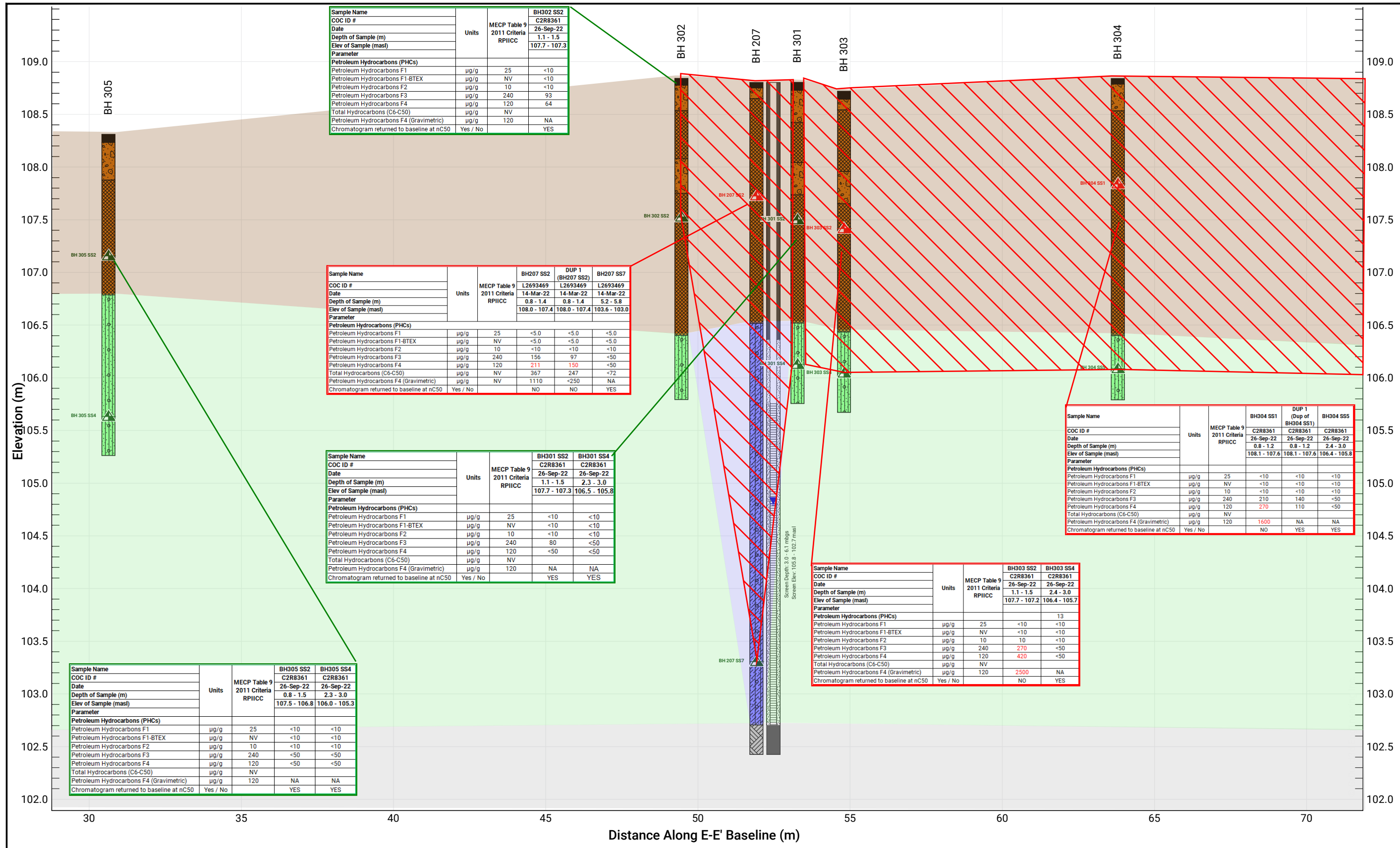
Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH 101 SS4 L2583177-4 3-May-21	DUP 3 (BH 101 SS4) L2583177-16 3-May-21
COC ID #				
Date				
Depth of Sample (m)			2.3 - 2.9	2.3 - 2.9
Elev of Sample (mast)			108.6 - 108.0	108.6 - 108.0
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	13	14
Petroleum Hydrocarbons F3	µg/g	240	50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH201 SS3 L2693469 15-Mar-22	BH201 SS6 L2693469 15-Mar-22
COC ID #				
Date				
Depth of Sample (m)			1.5 - 2.1	4.6 - 5.2
Elev of Sample (mast)			109.0 - 108.4	105.9 - 105.3
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	372	<50
Petroleum Hydrocarbons F4	µg/g	120	797	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	1170	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	2130	NA
Chromatogram returned to baseline at nC50	Yes / No		NO	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH 102 SS6B L2583177-8 3-May-21
COC ID #			
Date			
Depth of Sample (m)			4.0 - 4.4
Elev of Sample (mast)			106.0 - 105.6
Parameter			
Petroleum Hydrocarbons (PHCs)			
Petroleum Hydrocarbons F1	µg/g	25	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50
Petroleum Hydrocarbons F4	µg/g	120	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA
Chromatogram returned to baseline at nC50	Yes / No		YES

BOREHOLE STRATIGRAPHY LEGEND

- Asphalt
- Bedrock (inferred)
- Aggregate
- Topsoil
- Fill
- Shale
- Clayey Silt Till



Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH302 SS2 C2R8361 26-Sep-22 1.1 - 1.5 107.7 - 107.3
Parameter			
Petroleum Hydrocarbons (PHCs)			
Petroleum Hydrocarbons F1	µg/g	25	<10
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10
Petroleum Hydrocarbons F2	µg/g	10	<10
Petroleum Hydrocarbons F3	µg/g	240	93
Petroleum Hydrocarbons F4	µg/g	120	64
Total Hydrocarbons (C6-C50)	µg/g	NV	NA
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	NA
Chromatogram returned to baseline at nC50	Yes / No	Yes / No	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH207 SS2 L2693469 14-Mar-22 0.8 - 1.4 108.0 - 107.4	DUP 1 (BH207 SS2) L2693469 14-Mar-22 0.8 - 1.4 108.0 - 107.4	BH207 SS7 L2693469 14-Mar-22 5.2 - 5.8 103.6 - 103.0
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	156	97	<50
Petroleum Hydrocarbons F4	µg/g	120	211	150	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	367	247	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	1110	<250	NA
Chromatogram returned to baseline at nC50	Yes / No	Yes / No	NO	NO	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH301 SS2 C2R8361 26-Sep-22 1.1 - 1.5 107.7 - 107.3	BH301 SS4 C2R8361 26-Sep-22 2.3 - 3.0 106.5 - 105.8
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<10	<10
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10	<10
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	80	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	NA	NA
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	NA	NA
Chromatogram returned to baseline at nC50	Yes / No	Yes / No	YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH305 SS2 C2R8361 26-Sep-22 0.8 - 1.5 107.5 - 106.8	BH305 SS4 C2R8361 26-Sep-22 2.3 - 3.0 106.0 - 105.3
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<10	<10
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10	<10
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	NA	NA
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	NA	NA
Chromatogram returned to baseline at nC50	Yes / No	Yes / No	YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH303 SS2 C2R8361 26-Sep-22 1.1 - 1.5 107.7 - 107.2	BH303 SS4 C2R8361 26-Sep-22 2.4 - 3.0 106.4 - 105.7
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<10	<10
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10	<10
Petroleum Hydrocarbons F2	µg/g	10	10	<10
Petroleum Hydrocarbons F3	µg/g	240	270	<50
Petroleum Hydrocarbons F4	µg/g	120	420	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	NA	NA
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	2500	NA
Chromatogram returned to baseline at nC50	Yes / No	Yes / No	NO	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH304 SS1 C2R8361 26-Sep-22 0.8 - 1.2 108.1 - 107.6	DUP 1 (Dup of BH304 SS1) C2R8361 26-Sep-22 0.8 - 1.2 108.1 - 107.6	BH304 SS5 C2R8361 26-Sep-22 2.4 - 3.0 106.4 - 105.8
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<10	<10	<10
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10	<10	<10
Petroleum Hydrocarbons F2	µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	210	140	<50
Petroleum Hydrocarbons F4	µg/g	120	270	110	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	1600	NA	NA
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	1600	NA	NA
Chromatogram returned to baseline at nC50	Yes / No	Yes / No	NO	YES	YES

LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS TILLS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SS2 SOIL SAMPLE LOCATION MEETS STANDARD
- SS1 SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Petroleum Hydrocarbons (PHCs)	Units	MECP Table 9 2011 Criteria RPIICC
Petroleum Hydrocarbons F1	µg/g	25
Petroleum Hydrocarbons F1-BTEX	µg/g	NV
Petroleum Hydrocarbons F2	µg/g	10
Petroleum Hydrocarbons F3	µg/g	240
Petroleum Hydrocarbons F4	µg/g	120
Total Hydrocarbons (C6-C50)	µg/g	NV
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV
Chromatogram returned to baseline at nC50	Yes / No	Yes / No

Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**SECTION E-E' PHC
EXCEEDANCES**

North

BOREHOLE STRATIGRAPHY LEGEND

- Asphalt
- Aggregate
- Fill
- Clayey Silt Till
- Bedrock (inferred)
- Sandy Silt Till

Date
OCTOBER 2022

Scale
AS INDICATED

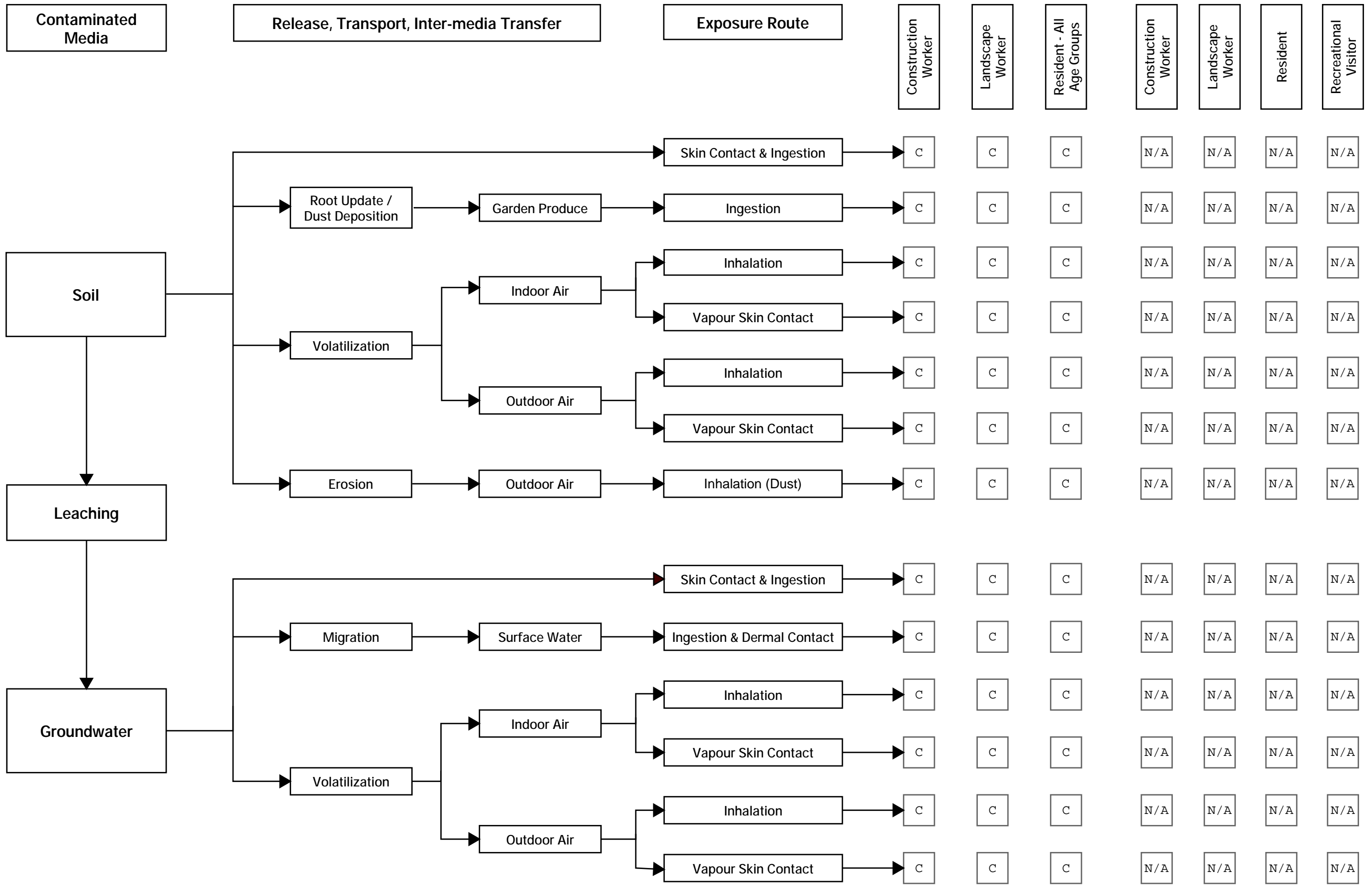
Job No
21-067

Figure No
FIGURE 18



**GROUND
ENGINEERING**

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



LEGEND

C Pathway Complete
 I Pathway Incomplete
 X Pathway Blocked
 N/A Pathway Not Applicable for Receptor

→ Pathway Completed
 - - - → Pathway Incompleted

Note
 1. Construction Workers are considered protective of Utility Workers
 2. Landscape Workers are considered protective of Trespassers
 3. Residents are considered protective of Long Term Workers, Short Term Workers and Site Visitors

Project
**60 DUNDAS ST E,
 MISSISSAUGA, ONTARIO**

Figure Title
**HUMAN HEALTH
 CSM**

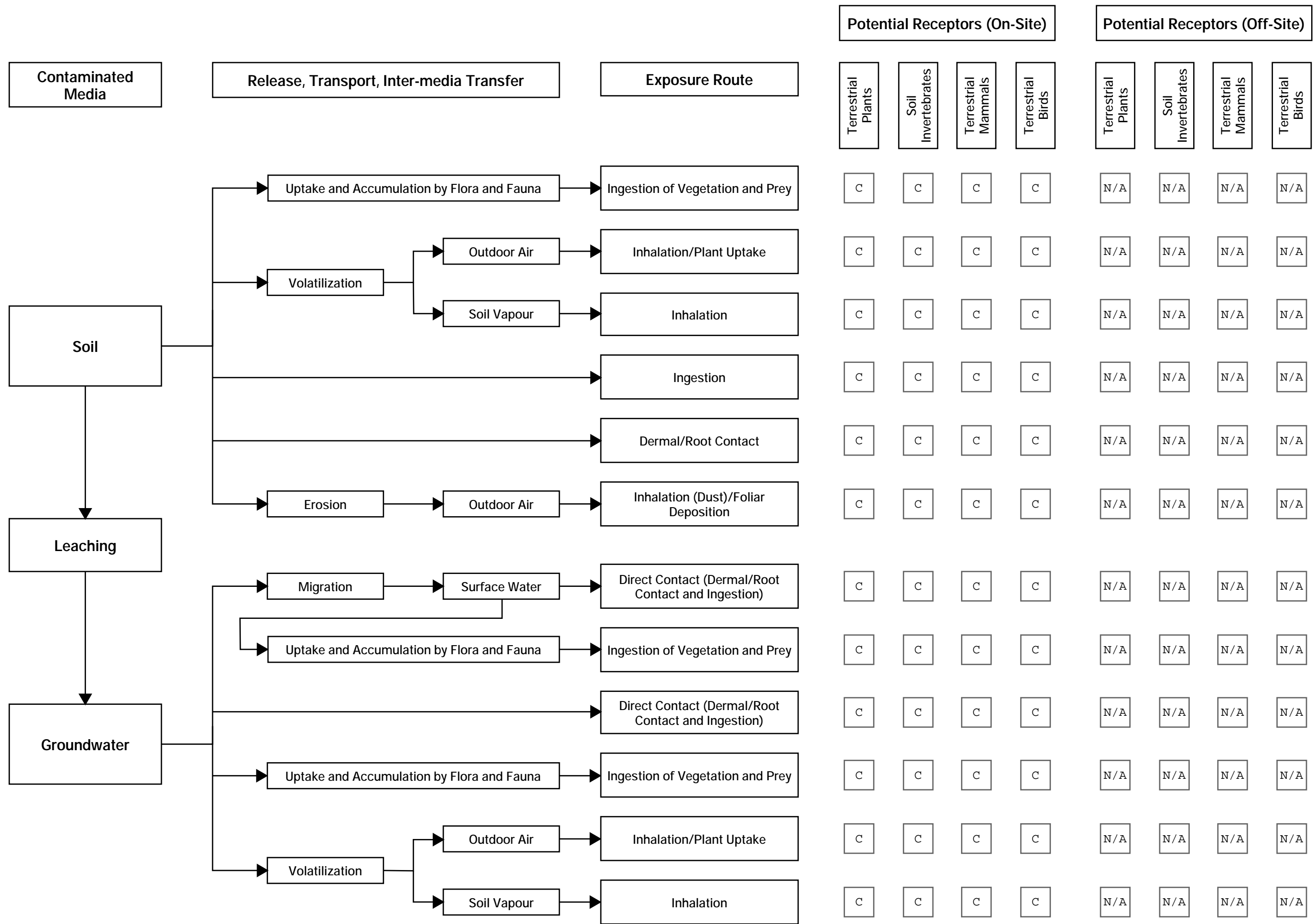
Reference

Date
 OCTOBER, 2022

Scale
 N/A

Job No
 21-067

Figure No
FIGURE 19



LEGEND

C Pathway Complete
 I Pathway Incomplete
 X Pathway Blocked
 N/A Pathway Not Applicable for Receptor

→ Pathway Completed
 - - - → Pathway Incompleted

Note
 1. Construction Workers are considered protective of Utility Workers
 2. Landscape Workers are considered protective of Trespassers
 3. Residents are considered protective of Long Term Workers, Short Term Works and Site Visitors

Project
**60 DUNDAS ST E,
 MISSISSAUGA, ONTARIO**

Figure Title
**ECOLOGICAL
 CSM**

Reference

Date
 OCTOBER, 2022

Scale
 N/A

Job No
 21-067

Figure No
FIGURE 20

TABLES



TABLE 1
GROUNDWATER LEVEL MONITORING SUMMARY
60 DUNDAS STREET EAST
MISSISSAUGA, ON
PROJECT #21-067

Well ID	Ground Surface Elevation (masl)	Screen Interval (mbgs)	Screen Interval (masl)	Soil Strata	Grounded Engineering																																Minimum Elev. (Lowest)		Maximum Elev. (Highest)		Seasonal Fluctuation (±m)							
					May 4, 2022		May 6, 2022		May 7, 2022		May 10, 2022		May 21, 2022		June 8, 2022		June 14, 2022		March 16, 2022		March 21, 2022		March 22, 2022		March 25, 2022		March 30, 2022		March 31, 2022		April 4, 2022		April 17, 2022		April 29, 2022		May 13, 2022		July 5, 2022			September 26, 2022						
					(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)		(mbgs)	(masl)					
BH101	110.9	4.6 - 6.1	106.3 - 104.8	Till	3.6	107.3	3.5	107.4	3.4	107.5	3.3	107.7	3.2	107.7	3.0	107.9	3.0	107.9	NA	NA	NA	NA	NA	NA	3.0	107.9	3.2	107.8	NA	NA	NA	NA	3.4	107.5	2.8	108.1	3.3	107.6	2.9	108.0	3.0	107.9	3.6	107.3	2.8	108.1	0.4	
BH102	110.0	4.6 - 6.1	105.4 - 103.9	Till	5.7	104.3	4.0	106.0	4.4	105.6	3.8	106.2	3.8	106.2	3.7	106.3	3.6	106.4	NA	NA	NA	NA	NA	NA	3.6	106.4	NA	NA	NA	NA	4.9	105.1	4.9	105.1	4.9	105.1	3.5	106.5	3.7	106.3	5.7	104.3	3.5	106.5	1.1			
BH103	109.4	3.4 - 4.9	106.0 - 104.5	Till	4.7	104.7	4.1	105.3	4.3	105.1	4.1	105.4	4.0	105.4	3.8	105.6	3.7	105.7	NA	NA	NA	NA	NA	NA	4.3	105.1	NA	NA	NA	NA	4.2	105.2	4.1	105.3	4.1	105.4	3.6	105.8	3.7	105.7	4.7	104.7	3.6	105.8	0.6			
BH201	110.5	20.1 - 23.2	90.4 - 87.3	Bedrock	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.4	108.1	8.4	102.2	6.6	103.9	5.5	105.0	NA	NA	NA	NA	5.3	105.3	5.1	105.4	5.1	105.4	4.8	105.8	6.7	103.8	8.4	102.2	2.4	108.1	3.0	
BH202	109.4	3.0 - 4.6	106.4 - 104.8	Fill / Till	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.3	105.1	NA	NA	3.6	105.8	NA	NA	NA	NA	3.1	106.4	3.1	106.3	3.7	105.7	3.1	106.4	NA	NA	3.1	106.4	4.3	105.1	3.1	106.4	0.6	
BH203	110.3	20.6 - 23.7	89.7 - 86.6	Bedrock	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.8	107.5	NA	NA	20.8	89.5	20.8	89.5	17.6	92.7	NA	NA	NA	NA	11.4	98.9	9.1	101.2	7.7	102.6	7.1	103.2	6.9	103.4	20.8	89.5	2.8	107.5	9.0
BH204	109.9	3.7 - 6.8	106.2 - 103.1	Fill / Till / Bedrock	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.7	106.2	NA	NA	3.6	106.3	3.6	106.3	NA	NA	3.5	106.5	NA	NA	3.5	106.4	3.8	106.1	3.3	106.6	2.9	107.1	3.1	106.8	3.8	106.1	2.9	107.1	0.5
BH205	109.8	20.2 - 23.2	89.6 - 86.6	Bedrock	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.6	105.2	8.6	101.2	7.2	102.6	NA	NA	6.7	103.1	NA	NA	6.7	103.2	6.5	103.3	6.7	103.1	6.7	103.2	6.6	103.2	8.6	101.2	4.6	105.2	2.0	
BH206	108.1	3.0 - 6.1	105.1 - 102.0	Till / Bedrock	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.2	104.9	3.3	104.8	3.2	104.9	NA	NA	3.0	105.1	NA	NA	3.2	104.9	3.2	104.9	3.1	105.0	2.9	105.2	2.9	105.2	3.3	104.8	2.9	105.2	0.2	
BH207	108.8	3.0 - 6.1	105.8 - 102.7	Till	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.9	104.9	4.3	104.5	4.0	104.8	NA	NA	3.8	105.0	NA	NA	4.0	104.8	3.9	104.9	3.9	104.9	3.7	105.1	3.7	105.1	4.3	104.5	3.7	105.1	0.3	

mbgs = metres below existing ground surface

masl = metres above sea level

* = unstabilized groundwater level

NA = not available: unable to access monitoring well

TABLE 2
SOIL QUALITY ANALYSIS
METALS, HYDRIDE METALS, OTHER REGULATED PARAMETERS
60 DUNDAS STREET EAST
MISSISSAUGA, ON
PROJECT #21-067

Sample Name					BH 101 SS2	DUP 1 (BH 101 SS2)	BH 102 SS3	BH 103 SS1	BH201 SS1B	BH201 SS4	BH202 SS2	BH202 SS5	DUP4 (BH202 SS5)	BH203 SS1	BH203 SS4	BH204 SS4	BH204 SSSB	BH205 SS2	BH205 SS7	BH206 SS2	BH206 SS3B	BH207 SS3		
DOC ID #	Units	MECP Table 9 2011 Criteria RPIICC	RDL	Maximum	L2583177-2	L2583177-14	L2583177-6	L2583177-10	L2693469	L2693469	L2693469	L2693469	L2693469	L2693469	L2691773	L2691773	L2691773	L2691773	L2691773	L2691773	L2693469	L2693469	L2693469	
Date					03-May-2021	03-May-2021	03-May-2021	03-May-2021	15-Mar-22	15-Mar-22	18-Mar-22	18-Mar-22	18-Mar-22	18-Mar-22	7-Mar-22	7-Mar-22	7-Mar-22	7-Mar-22	7-Mar-22	10-Mar-22	10-Mar-22	16-Mar-22	16-Mar-22	14-Mar-22
Depth of Sample (m)					0.8 - 1.4	0.8 - 1.4	1.5 - 2.1	0.2 - 0.8	0.6 - 0.8	2.3 - 2.9	0.8 - 1.4	3.0 - 3.7	0.2 - 0.8	2.3 - 2.9	3.3 - 3.7	0.2 - 0.8	2.3 - 2.9	2.3 - 2.9	3.3 - 3.7	0.8 - 1.4	4.6 - 5.2	0.8 - 1.4	1.8 - 2.1	1.5 - 2.1
Elev of Sample (masl)					110.1 - 109.5	110.1 - 109.5	108.5 - 107.9	109.2 - 108.6	109.9 - 109.7	108.2 - 107.6	108.7 - 108.0	106.4 - 105.8	106.4 - 105.8	109.8	108.0 - 107.4	107.6 - 107.0	106.6 - 106.2	109.1 - 108.5	105.3 - 104.7	107.4 - 106.8	106.3 - 106.0	107.3 - 106.7		
Parameter																								
Metals																								
Barium	µg/g	220	0.01	110	33.7	41.7	34.4	42.4	19.5	61.9	43.6	55.8	86.9	15.8	48.6	63.6	45	110	40.2	58.9	74.4	53.5		
Beryllium	µg/g	2.5	0.02	0.86	<0.50	<0.50	<0.50	<0.50	<0.50	0.82	<0.50	0.73	0.78	<0.50	0.72	0.7	0.86	0.53	0.61	0.67	0.79	0.68		
Boron (total)	µg/g	36	1	11.9	<5.0	<5.0	<5.0	<5.0	11.9	<5.0	9.8	10.9	10.9	<5.0	10.6	<5.0	10.7	7.8	11	<5.0	8.2	7.9		
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 (total)	µg/g	70	0.5	27.4	9.5	10.6	8.4	10.9	10	25	9.6	22.9	25.3	7	23.9	19.7	25.9	20.2	21.3	19.9	24.7	21.6		
Cobalt	µg/g	22	0.01	16.3	4.2	4.4	3.9	4.3	2.6	13.1	3.9	13.9	13.4	2.7	13.3	6.9	15.7	8.9	12.7	9.2	16	11.8		
Copper	µg/g	92	0.1	42	19.2	17.2	10.8	21	21.8	25.2	22.6	34.6	24.2	7.9	25.9	28.9	31.8	29.1	42	39.3	35.3	24.5		
Lead	µg/g	120	0.1	47.4	8.4	9.6	9.3	47.4	3.4	8	13.7	7.2	7.4	5.7	8.4	8.1	9.6	24.1	11.2	12.1	11	11.4		
Molybdenum	µg/g	2	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	82	0.1	33.5	9.2	8.9	7.5	9	5	29.3	8.9	29.7	29.6	5.9	29.2	14.7	33.5	19.4	26	22.9	33	23.1		
Silver	µg/g	0.5	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	2.5	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	33.6	17.9	20.7	16.5	20.7	26.1	32.9	20.6	29.5	31.1	16.9	31.3	23.7	31.7	30.2	27.9	31.8	31.5	30.6		
Zinc	µg/g	290	0.7	156	32.6	35	27.1	48	8.8	58.7	28.6	60.2	55.8	13.8	68.2	43	68.3	68.4	60.9	53.2	68.6	156		
Hydride-Metals																								
Antimony	µg/g	1.3	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	7.5	3.2	3.4	2.6	3.6	1.4	5.7	3.1	7.3	5.4	2.2	5.6	4.2	6.4	4.5	7.5	5.7	7.3	6.9		
Selenium	µg/g	1.5	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)																								
Boron (hot water soluble)	µg/g	1.5	0.5	1.53	0.14	0.14	0.14	0.23	0.35	0.46	0.18	0.43	1.12	0.17	0.27	1.53	0.33	0.57	0.68	0.17	0.21	0.45		
Cyanide (CN-)	µg/g	0.051	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		
Electrical Conductivity	mS/cm	0.7	0.002	45.2	0.921	1.15	1.37	1.85	31.7	3.68	45.2	8.56	1.04	1.51	0.824	5.18	1.53	2.76	0.984	1.32	0.411	4.64		
Sodium Adsorption Ratio	No unit	5	0.2	54.4	17.6	20.2	23.1	31.7	0.65	<0.20	<0.20	<0.20	<0.20	37.2	2.85	54.4	12.8	10.4	3.3	44.8	15	49.3		
Chromium VI	µg/g	0.66	0.2	0.65	0.35	0.27	0.32	0.33	0.65	<0.20	<0.20	<0.20	<0.20	0.3	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
Mercury	µg/g	0.27	0.05	0.113	0.0188	0.0217	0.0241	0.0427	0.0299	0.0176	0.0257	0.0169	0.0178	0.0196	0.0186	0.113	0.021	0.0732	0.0182	0.0313	0.0202	0.0176		
pH	pH Units	5 to 9	0.05	7.97	7.62	7.97	7.91	7.87	7.49	7.66	7.57	7.74	7.75	7.56	7.67	7.51	7.71	7.64	7.84	7.75	7.58	7.21		

Comments:

Results compared to MECP 2011 Table 9 Site Condition Standards for Residential/Parlkand/Institutional/Industrial/Commercial/Community Land Use

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 as per the O.Reg. 153/04 49.1.

"The qualified person determined, based on a phase one environmental site assessment or a phase two environmental site assessment, that a substance (salt) has been applied to surface for the safety vehicular or pedestrian traffic under conditions of snow or ice or both".

NA-Not Analyzed

TABLE 2
 SOIL QUALITY ANALYSIS
 METALS, HYDRIDE METALS, OTHER REGULATED PARAMETERS
 60 DUNDAS STREET EAST
 MISSISSAUGA, ON
 PROJECT #21-067

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	RDL	Maximum	BH207 SS4	DUP 2 (BH207 SS4)
					L2693469	L2693469
DOC ID #					14-Mar-22	14-Mar-22
Date					2.3 - 2.9	2.3 - 2.9
Depth of Sample (m)					106.5 - 105.9	106.5 - 105.9
Elev of Sample (mast)						
Parameter						
Metals						
Barium	µg/g	220	0.01	110	70.8	94.5
Beryllium	µg/g	2.5	0.02	0.86	0.8	0.71
Boron (total)	µg/g	36	1	11.9	11	9.9
Cadmium	µg/g	1.2	0.02	<0.50	<0.50	<0.50
Chromium (total)	µg/g	70	0.5	27.4	25.1	27.4
Cobalt	µg/g	22	0.01	16.3	16.3	12
Copper	µg/g	92	0.1	42	35	24.1
Lead	µg/g	120	0.1	47.4	9.9	8.7
Molybdenum	µg/g	2	0.1	<1.0	<1.0	<1.0
Nickel	µg/g	82	0.1	33.5	32.6	27.8
Silver	µg/g	0.5	0.01	<0.20	<0.20	<0.20
Thallium	µg/g	1	0.02	<0.50	<0.50	<0.50
Uranium	µg/g	2.5	0.002	<1.0	<1.0	<1.0
Vanadium	µg/g	86	3	33.6	32	33.6
Zinc	µg/g	290	0.7	156	64.4	51.2
Hydride-Metals						
Antimony	µg/g	1.3	0.8	<1.0	<1.0	<1.0
Arsenic	µg/g	18	0.5	7.5	6.4	4.3
Selenium	µg/g	1.5	0.7	<1.0	<1.0	<1.0
Other Regulated Parameters (ORPs)						
Boron (hot water soluble)	µg/g	1.5	0.5	1.53	0.58	0.74
Cyanide (CN-)	µg/g	0.051	0.05	<0.050		
Electrical Conductivity	mS/cm	0.7	0.002	45.2	0.566	0.298
Sodium Adsorption Ratio	No unit	5	0.2	54.4	2.33	1.04
Chromium VI	µg/g	0.66	0.2	0.65	<0.20	<0.20
Mercury	µg/g	0.27	0.05	0.113	0.0171	0.0162
pH	pH Units	5 to 9	0.05	7.97	7.72	7.74

Comments:

Results compared to MECP 2011 Table 9 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use

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 as per the O.Reg. 153/04 49.1.

"The qualified person determined, based on a phase one environmental site assessment or a phase two environmental site assessment, that a substance (salt) has been applied to surface for the safety vehicular or pedestrian traffic under conditions of snow or ice or both".

NA-Not Analyzed

TABLE 3
SOIL QUALITY ANALYSIS
POLYCYCLIC AROMATIC HYDROCARBONS
60 DUNDAS STREET EAST
MISSISSAUGA, ON
PROJECT #21-067

Sample Name	Units	MECP Table 9 2011 Criteria RPHCC	RDL	Maximum	BH 101 SS1	BH 102 SS5	BH 103 SS2	DUP 5 (BH 103 SS2)	BH201 SS1A	BH201 SS4	BH202 SS2	BH202 SS5	DUP 4 (BH202 SS5)	BH203 SS1	BH203 SS4	BH204 SS4	BH204 SS5B	BH205 SS2	BH205 SS7	BH206 SS2	BH206 SS3B	BH207 SS3	BH207 SS4	DUP 2 (BH 207 SS4)	
COC ID #					L2583177-1	L2583177-7	L2583177-11	L2583177-18	L2693469	L2693469	L2693469	L2693469	L2693469	L2691773	L2691773	L2691773	L2691773	L2691773	L2691773	L2691773	L2693469	L2693469	L2693469	L2693469	L2693469
Date					3-May-21	3-May-21	3-May-21	3-May-21	15-Mar-22	15-Mar-22	18-Mar-22	18-Mar-22	18-Mar-22	7-Mar-22	7-Mar-22	7-Mar-22	7-Mar-22	7-Mar-22	10-Mar-22	10-Mar-22	16-Mar-22	16-Mar-22	14-Mar-22	14-Mar-22	14-Mar-22
Depth of Sample (m)					0.1 - 0.7	3.0 - 3.7	0.8 - 1.4	0.8 - 1.4	0.2 - 0.6	2.3 - 2.9	0.8 - 1.4	3.0 - 3.7	3.0 - 3.7	0.2 - 0.8	2.3 - 2.9	2.3 - 2.9	3.3 - 3.7	0.8 - 1.4	4.6 - 5.2	0.8 - 1.4	1.8 - 2.1	1.5 - 2.1	2.3 - 2.9	2.3 - 2.9	
Elev of Sample (masl)					110.8 - 110.2	106.9 - 106.3	108.6 - 108.0	108.6 - 108.0	110.4 - 109.9	108.2 - 107.6	108.7 - 108.0	106.4 - 105.8	106.4 - 105.8	109.80	108.0 - 107.4	107.6 - 107.0	106.6 - 106.2	109.1 - 108.5	105.3 - 104.7	107.4 - 106.8	106.3 - 106.0	107.3 - 106.7	106.5 - 105.9	106.5 - 105.9	
Parameter																									
Moisture Content	%	-	-	22.8	9.8	22.8	7.43	7.29	10.5	8.93	7.02	17.5	9.68	12.9	10.1	21.1	9.62	11.6	5.05	15.8	18.4	12	11	12.7	
Acenaphthene	µg/g	0.072	0.05	0.196	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	6.196	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Acenaphthylene	µg/g	0.093	0.05	0.067	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.067	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Anthracene	µg/g	0.22	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	<0.050	<0.050	
Benzo[a]anthracene	µg/g	0.36	0.05	0.094	<0.050	0.09	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<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	0.1	<0.050	0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<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]fluoranthene	µg/g	0.47	0.05	0.112	<0.050	0.11	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<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	0.68	0.1	0.078	<0.050	0.08	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<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	2.8	0.05	0.115	<0.050	0.12	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<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	<0.050	<0.050	
Fluoranthene	µg/g	0.69	0.05	0.214	<0.050	0.21	<0.050	<0.050	0.053	<0.050	<0.050	<0.050	<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	0.19	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	<0.050	<0.050	
Indeno[1,2,3-cd]pyrene	µg/g	0.23	0.1	0.076	<0.050	0.08	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Methylanthralene, 1-	µg/g	NV	0.05	<0.040	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.040	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	
Methylanthralene, 2-(1-)	µg/g	0.59	0.05	<0.057	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.057	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	
Naphthalene	µg/g	0.09	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	<0.013	<0.013	
Phenanthrene	µg/g	0.69	0.05	0.086	<0.046	0.09	<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	1	0.05	0.172	<0.050	0.17	<0.050	<0.050	0.052	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.06	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	

Comments:

Results compared to MECP 2011 Table 9 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use

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)k)Fluoranthene isomers because the isomers co-elute on the GC column.

NV- No Value

NA-Not Analyzed

TABLE 4
SOIL QUALITY ANALYSIS
PETROLEUM HYDROCARBONS
60 DUNDAS STREET EAST
MISSISSAUGA, ON
PROJECT #21-067

Sample Name					BH 101 SS4	DUP 3 (BH 101 SS4)	BH 102 SS6B	BH 103 SS3B	BH201 SS3	BH201 SS6	BH202 SS3B	BH202 SS6	DUP 5 (BH202 SS6)	BH203 SS2	BH203 SS6	BH204 SS4	BH204 SS6	BH205 SS3	BH205 SS6A	BH206 SS3A			
COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	RDL	Maximum	L2583177-4	L2583177-16	L2583177-8	L2583177-12	L2693469	L2693469	L2693469	L2693469	L2693469	L2691773	L2691773	L2691773	L2691773	L2691773	L2691773	L2691773	L2693469		
Date					3-May-21	3-May-21	3-May-21	3-May-21	15-Mar-22	15-Mar-22	18-Mar-22	18-Mar-22	18-Mar-22	18-Mar-22	7-Mar-22	7-Mar-22	7-Mar-22	7-Mar-22	7-Mar-22	7-Mar-22	10-Mar-22	10-Mar-22	16-Mar-22
Depth of Sample (m)					2.3 - 2.9	2.3 - 2.9	4.0 - 4.4	1.7 - 2.1	1.5 - 2.1	4.6 - 5.2	1.9 - 2.1	4.6 - 5.2	4.6 - 5.2	0.8 - 1.4	4.6 - 5.2	2.3 - 2.9	4.6 - 5.0	1.5 - 2.1	3.8 - 4.4	1.5 - 1.8			
Elev of Sample (masl)					108.6 - 108.0	108.6 - 108.0	106.0 - 105.6	107.6 - 107.2	109.0 - 108.4	105.9 - 105.3	107.5 - 107.3	104.8 - 104.2	104.8 - 104.2	109.5 - 108.9	105.7 - 105.1	107.6 - 107.0	105.3 - 104.9	108.3 - 107.7	106.0 - 105.5	106.6 - 106.3			
Parameter																							
Moisture	%	-	1	21.3	9.41	9.03	8.55	10.6	15.3	8.83	21.3	1.95	7.15	11.3	7.93	21.1	7.69	9.19	7.59	19.1			
Petroleum Hydrocarbons F1	µg/g	25	10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7.4	<5.0	<5.0	<5.0	<5.0			
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7.4	<5.0	<5.0	<5.0	<5.0			
Petroleum Hydrocarbons F2	µg/g	10	10	579	13	14	<10	21	<10	<10	<10	<10	<10	<10	496	579	<10	<10	<10	<10			
Petroleum Hydrocarbons F3	µg/g	240	50	939	50	<50	<50	67	372	<50	<50	<50	<50	<50	939	437	<50	<50	<50	<50			
Petroleum Hydrocarbons F4	µg/g	120	50	880	<50	<50	<50	67	797	<50	<50	<50	<50	<50	880	<50	<50	<50	<50	<50			
Total Hydrocarbons (C6-C50)	µg/g	NV			<72	<72	<72	88	1170	<72	<72	<72	<72	<72	2310	1020	<72	<72	<72	<72			
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	200	2500	NA	NA	NA	NA	2130	NA	NA	NA	NA	NA	<250	NA	NA	NA	NA	NA			
Chromatogram returned to baseline at nC50	Yes / No			YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES			

Comments:

Results compared to MECP 2011 Table 9 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use

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 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 Quality Control Data is available upon request.

NV- No Value

NA-Not Analyzed

TABLE 4
SOIL QUALITY ANALYSIS
PETROLEUM HYDROCARBONS
60 DUNDAS STREET EAST
MISSISSAUGA, ON
PROJECT #21-067

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	RDL	Maximum	BH206 SS5	BH207 SS2	DUP 1 (BH207 SS2)	BH207 SS7	BH301 SS2	BH301 SS4	BH302 SS2	BH303 SS2	BH303 SS4	BH304 SS1	DUP 1 (Dup of BH304 SS1)	BH304 SS5		
COC ID #					L2693469	L2693469	L2693469	L2693469	C2R8361	C2R8361	C2R8361	C2R8361	C2R8361	C2R8361	C2R8361	C2R8361	C2R8361	C2R8361
Date					16-Mar-22	14-Mar-22	14-Mar-22	14-Mar-22	26-Sep-22	26-Sep-22	26-Sep-22	26-Sep-22	26-Sep-22	26-Sep-22	26-Sep-22	26-Sep-22	26-Sep-22	26-Sep-22
Depth of Sample (m)					3.0 - 3.7	0.8 - 1.4	0.8 - 1.4	5.2 - 5.8	1.1 - 1.5	2.3 - 3.0	1.1 - 1.5	1.1 - 1.5	2.4 - 3.0	0.8 - 1.2	0.8 - 1.2	0.8 - 1.2	0.8 - 1.2	2.4 - 3.0
Elev of Sample (masl)	105.1 - 104.5	108.0 - 107.4	108.0 - 107.4	103.6 - 103.0	107.7 - 107.3	106.5 - 105.8	107.7 - 107.3	107.7 - 107.2	106.4 - 105.7	108.1 - 107.6	108.1 - 107.6	108.1 - 107.6	108.1 - 107.6	106.4 - 105.8				
Parameter																		
Moisture	%	-	1	21.3	8.85	14.8	12.8	8.14	12	10	14	13	13	15	16	14		
Petroleum Hydrocarbons F1	µg/g	25	10	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<10	<10	<10	<10	<10	<10		
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	10	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<10	<10	<10	<10	<10	<10		
Petroleum Hydrocarbons F2	µg/g	10	10	579	<10	<10	<10	<10	<10	<10	<10	10	<10	<10	<10	<10		
Petroleum Hydrocarbons F3	µg/g	240	50	939	<50	156	97	<50	80	<50	93	270	<50	210	140	<50		
Petroleum Hydrocarbons F4	µg/g	120	50	880	<50	211	150	<50	<50	<50	64	420	<50	270	110	<50		
Total Hydrocarbons (C6-C50)	µg/g	NV			<72	367	247	<72										
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	200	2500	NA	1110	<250	NA	NA	NA	NA	2500	NA	1600	NA	NA		
Chromatogram returned to baseline at nC50	Yes / No			YES	YES	NO	NO	YES	YES	YES	YES	NO	YES	NO	YES	YES		

Comments:

Results compared to MECP 2011 Table 9 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use

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 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 Quality Control Data is available upon request.

NV- No Value

NA-Not Analyzed

TABLE 4
 SOIL QUALITY ANALYSIS
 PETROLEUM HYDROCARBONS
 60 DUNDAS STREET EAST
 MISSISSAUGA, ON
 PROJECT #21-067

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	RDL	Maximum	BH305 SS2	BH305 SS4
COC ID #					C2R8361	C2R8361
Date					26-Sep-22	26-Sep-22
Depth of Sample (m)					0.8 - 1.5	2.3 - 3.0
Elev of Sample (masl)					107.5 - 106.8	106.0 - 105.3
Parameter						
Moisture	%	-	1	21.3	21	11
Petroleum Hydrocarbons F1	µg/g	25	10	<10	<10	<10
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	10	<10	<10	<10
Petroleum Hydrocarbons F2	µg/g	10	10	579	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	50	939	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	50	880	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV				
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	200	2500	NA	NA
Chromatogram returned to baseline at nC50	Yes / No			YES	YES	YES

Comments:

Results compared to MECP 2011 Table 9 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use

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 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 Quality Control Data is available upon request.

NV- No Value

NA-Not Analyzed

TABLE 5
SOIL QUALITY ANALYSIS
BENZENE, TOULENE, ETHYLBENZENE, XYLENE
60 DUNDAS STREET EAST
MISSISSAUGA, ON
PROJECT #21-067

Sample Name	Units	MECP Table 9 RPHCC	RDL	Maximum	BH 101 S54	DUP 3 (BH 101 S54)	BH 101 S57	BH 102 S56B	BH 102 S57	DUP 4 (BH 102 S57)	BH 103 S53B	BH 103 S55	BH201 S53	BH201 S56	BH202 S53B	BH202 S56	DUP 5 (BH202 S56)	BH203 S52	BH203 S56	BH204 S54	BH204 S56	BH205 S53	BH205 S56A	BH206 S53A	BH206 S55	BH207 S52	DUP 1 (BH207 S52)	BH207 S57	BH301 S52	BH301 S54	BH302 S52	BH303 S52		
DOC ID #					L2583177-4	L2583177-16	L2583177-5	L2583177-8	L2583177-9	L2583177-17	L2583177-12	L2583177-13	L2693469	L2693469	L2693469	L2693469	L2691773	L2691773	L2691773	L2691773	L2691773	L2691773	L2691773	L2691773	L2691773	L2691773	L2693469	L2693469	L2693469	L2693469	L2693469	L2693469	C2R8361	C2R8361
Date		3-May-21	3-May-21	3-May-21	3-May-21	3-May-21	3-May-21	3-May-21	3-May-21	3-May-21	3-May-21	3-May-21	15-Mar-22	15-Mar-22	18-Mar-22	18-Mar-22	18-Mar-22	7-Mar-22	7-Mar-22	7-Mar-22	7-Mar-22	7-Mar-22	7-Mar-22	10-Mar-22	16-Mar-22	16-Mar-22	16-Mar-22	14-Mar-22	14-Mar-22	14-Mar-22	26-Sep-22	26-Sep-22	26-Sep-22	26-Sep-22
Depth of Sample (m)		2.3 - 2.9	2.3 - 2.9	4.6 - 5.0	4.0 - 4.4	4.6 - 5.2	4.6 - 5.2	1.7 - 2.1	3.0 - 3.7	1.5 - 2.1	4.6 - 5.2	1.9 - 2.1	4.6 - 5.2	4.6 - 5.2	0.8 - 1.4	4.6 - 5.2	2.3 - 2.9	4.6 - 5.0	1.5 - 2.1	3.8 - 4.4	1.5 - 1.8	3.0 - 3.7	0.8 - 1.4	0.8 - 1.4	0.8 - 1.4	0.8 - 1.4	0.8 - 1.4	5.2 - 5.8	1.1 - 1.5	2.3 - 3.0	1.1 - 1.5	1.1 - 1.5		
Elev of Sample (masl)		108.6 - 108.0	108.6 - 108.0	106.3 - 106.0	106.0 - 105.6	105.4 - 104.8	105.4 - 104.8	107.6 - 107.2	106.3 - 105.7	109.0 - 108.4	105.9 - 105.3	107.5 - 107.3	104.8 - 104.2	104.8 - 104.2	109.5 - 108.9	105.7 - 105.1	107.6 - 107.0	105.3 - 104.9	108.3 - 107.7	106.0 - 105.5	106.6 - 106.3	105.1 - 104.5	108.0 - 107.4	103.6 - 103.0	108.0 - 107.4	103.6 - 103.0	107.7 - 107.3	106.5 - 105.8	107.7 - 107.3	107.7 - 107.3	107.7 - 107.3			
Parameter																																		
Moisture	%	-	1	21.3	9.41	9.03	7.72	8.55	7.05	8.53	10.6	12	15.3	8.83	21.3	1.95	7.15	11.3	7.93	21.1	7.69	9.19	7.59	19.1	8.85	14.8	12.8	8.14	12	10	14	13		
Benzene	µg/g	0.02	0.02	<0.020	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<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	0.05	0.05	<0.020	<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	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	
Toluene	µg/g	0.2	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	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	
Xylene Mixture	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	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Xylene, m- & p-	µg/g	NV	0.05	<0.040	<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	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	
Xylene, o-	µg/g	NV	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	<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 9 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use

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 5
SOIL QUALITY ANALYSIS
BENZENE, TOULENE, ETHYLBENZENE, XYLENE
60 DUNDAS STREET EAST
MISSISSAUGA, ON
PROJECT #21-067

Sample Name	Units	MECP Table 9 RPHCC	RDL	Maximum	BH303 SS4	BH304 SS1	DUP 1 (Dup of BH304 SS1)	BH304 SS5	BH305 SS2	BH305 SS4
					C2R8361	C2R8361	C2R8361	C2R8361	C2R8361	C2R8361
Date					26-Sep-22	26-Sep-22	26-Sep-22	26-Sep-22	26-Sep-22	26-Sep-22
Depth of Sample (m)					2.4 - 3.0	0.8 - 1.2	0.8 - 1.2	2.4 - 3.0	0.8 - 1.5	2.3 - 3.0
Elev of Sample (masl)					106.4 - 105.7	108.1 - 107.6	108.1 - 107.6	106.4 - 105.8	107.5 - 106.8	106.0 - 105.3
Parameter										
Moisture	%	-	1	21.3	13	15	16	14	21	11
Benzene	µg/g	0.02	0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylbenzene	µg/g	0.05	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Toluene	µg/g	0.2	0.05	<0.080	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Xylene Mixture	µg/g	0.05	0.05	<0.050	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Xylene, m- & p-	µg/g	NV	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Xylene, o-	µg/g	NV	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

Comments:

Results compared to MECP 2011 Table 9 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use

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
 POLYCHLORINATED BIPHENYLS
 60 DUNDAS STREET EAST
 MISSISSAUGA, ON
 PROJECT #21-067

Sample Name	Units	MECP Table 9 2011 Criteria RPHCC	RDL	Maximum	BH 101 SS3B	DUP 2 (BH 101 SS3B)	BH 102 SS6B	BH201 SS1A	DUP 3 (BH201 SS1A)	BH202 SS1B	BH203 SS1	BH204 SS4	BH205 SS2	BH206 SS1	BH207 SS1
COC ID #					L2583177-3	L2583177-15	L2583177-8	L2693469	L2693469	L2693469	L2691773	L2691773	L2691773	L2693469	L2693469
Date					3-May-21	3-May-21	3-May-21	15-Mar-22	15-Mar-22	18-Mar-22	7-Mar-22	7-Mar-22	10-Mar-22	16-Mar-22	14-Mar-22
Depth of Sample (m)					2.0 - 2.1	2.0 - 2.1	4.0 - 4.4	0.2 - 0.6	0.2 - 0.6	0.6 - 0.8	0.2 - 0.8	2.3 - 2.9	0.8 - 1.4	0.2 - 0.8	0.2 - 0.8
Elev of Sample (masl)					108.9 - 108.8	108.9 - 108.8	106.0 - 105.6	110.4 - 109.9	110.4 - 109.9	108.9 - 108.7	110.1 - 109.5	107.6 - 107.0	109.1 - 108.5	108.0 - 107.4	108.6 - 108.0
Parameter															
Polychlorinated Biphenyls	µg/g	0.3	0.3	<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 9 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use

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 6
GROUNDWATER QUALITY ANALYSIS
METALS, HYDRIDE METALS, OTHER REGULATED PARAMETERS
60 DUNDAS STREET EAST
MISSISSAUGA, ON
PROJECT # 21-057

Sample Name	Units	MECP Table 9	RDL	Maximum	BH 101	BH101	BH 102	DUP 1 (Dup of BH102)	BH102	DUP (Dup of BH102)	BH103	BH103	BH207
					L2585341-1	TCD233	L2585341-2	L2585341-4	TCD234	TCD239	L2585341-3	TCD235	TCD238
Date					7-May-21	6-Jul-22	7-May-21	7-May-21	6-Jul-22	6-Jul-22	7-May-21	6-Jul-22	6-Jul-22
Depth of Sample (m)					4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	3.4 - 4.9	3.4 - 4.9	3.0 - 6.1
Elev of Sample (masl)					106.3 - 104.8	106.3 - 104.8	105.4 - 103.9	105.4 - 103.9	105.4 - 103.9	105.4 - 103.9	106.0 - 104.5	106.0 - 104.5	105.8 - 102.7
Parameter													
Metals													
Barium	µg/L	23,000	0.02	171	62.8	74	155	171	20	20	45.7	76	77
Beryllium	µg/L	53	0.007	<1.0	<1.0	<0.40	<1.0	<1.0	<0.40	<0.40	<1.0	<0.40	<0.40
Boron (total)	µg/L	36,000	2	1530	1530	600	1080	1040	1200	1300	790	640	1100
Cadmium	µg/L	2	0.003	<0.090	<0.050	<0.090	<0.050	<0.050	<0.090	<0.090	<0.050	<0.090	<0.090
Chromium Total	µg/L	640	0.08	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cobalt	µg/L	52	0.004	1.5	<1.0	<0.50	<1.0	<1.0	<0.50	<0.50	<1.0	0.87	1.5
Copper	µg/L	69	0.2	<2.0	<2.0	<0.90	<2.0	<2.0	<0.90	<0.90	<2.0	1.7	1.2
Lead	µg/L	20	0.01	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Molybdenum	µg/L	7,300	0.01	20.1	14.7	2	6.91	6.95	3.3	3.3	20.1	3.1	7.4
Nickel	µg/L	390	0.1	5.8	<5.0	3.9	<5.0	<5.0	<1.0	<1.0	<5.0	5.8	3.8
Silver	µg/L	1	0.002	<0.50	<0.50	<0.090	<0.50	<0.50	<0.090	<0.090	<0.50	<0.090	<0.090
Thallium	µg/L	400	0.005	<0.10	<0.10	<0.050	<0.10	<0.10	<0.050	<0.050	<0.10	0.082	<0.050
Uranium	µg/L	330	0.002	7.2	2.97	1.8	0.27	0.3	<0.10	<0.10	1.7	7.2	2.3
Vanadium	µg/L	200	0.01	<5.0	<5.0	<0.50	<5.0	<5.0	<0.50	<0.50	<5.0	<0.50	<0.50
Zinc	µg/L	890	2	<10	<10	<5.0	<10	<10	<5.0	<5.0	<10	<5.0	<5.0
Hydride-Metals													
Antimony	µg/L	16,000	0.09	1.8	1.8	<0.50	<1.0	<1.0	<0.50	<0.50	1.8	<0.50	<0.50
Arsenic	µg/L	1,500	0.2	2.6	2.6	<1.0	1	<1.0	1.5	1.6	2.5	<1.0	<1.0
Selenium	µg/L	50	0.04	<2.0	0.66	<2.0	<0.50	<0.50	<2.0	<2.0	<0.50	<2.0	<2.0
Other Regulated Parameters (ORPs)													
Chromium VI	µg/L	110	0.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cyanide (CN)	µg/L	2	3.3	3.3	<1	2.6	<2.0	<1	<1	<1	<2.0	<1	<1
Mercury	µg/L	0	0.01	<0.10	<0.0050	<0.10	<0.0050	<0.0050	<0.10	<0.10	<0.0050	<0.10	<0.10
Chloride	µg/L	1,800,000	200	1,800,000	284,000	1,000,000	1,690,000	1,440,000	290,000	280,000	266,000	1,800,000	950,000
Sodium	µg/L	1,800,000	10	950,000	251,000	650,000	882,000	950,000	280,000	280,000	169,000	830,000	390,000
pH	-		0.05	8.19	8.19		7.57	7.61			8.17		

Comments:

Results compared to MECP 2011 Table 9 Site Condition Standards for All Property Use

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 9
GROUNDWATER QUALITY ANALYSIS
POLYCYCLIC AROMATIC HYDROCARBONS
60 DUNDAS STREET EAST
MISSISSAUGA, ON
PROJECT # 21-067

Sample Name	Units	MECP Table 9	RDL	Maximum	BH 101	BH101	BH 102	DUP 1 (Dup of BH102)	BH102	DUP (Dup of BH102)	BH 103	DUP 1 (Dup of BH103) LAB RESAMPLE	BH 103 LAB RESAMPLE	DUP 1 (Dup of BH103) LAB RESAMPLE 2	BH103 LAB RESAMPLE 2	BH103	BH207
					L2598341-1 7-May-21 4.6 - 6.1 106.3 - 104.8	TC0233 6-Jul-22 6.6 - 6.1 104.3 - 104.8	L2598341-2 7-May-21 4.6 - 6.1 105.4 - 103.9	L2598341-4 7-May-21 4.6 - 6.1 105.4 - 103.9	TC0234 6-Jul-22 4.6 - 6.1 105.4 - 103.9	TC0239 6-Jul-22 4.6 - 6.1 105.4 - 103.9	L2598341-3 7-May-21 3.4 - 4.9 106.0 - 104.5	L2598832-2 8-Jun-21 3.4 - 4.9 106.0 - 104.5	L2598832-1 9-Jun-21 3.4 - 4.9 106.0 - 104.5	L2600820-2 14-Jun-21 3.4 - 4.9 106.0 - 104.5	L2600820-1 14-Jun-21 3.4 - 4.9 106.0 - 104.5	TC0235 6-Jul-22 3.0 - 6.1	TC0236 6-Jul-22 3.0 - 6.1
Acenaphthene	µg/L	600	0.1	<0.050	<0.020	<0.050	<0.020	<0.020	<0.050	<0.050	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050
Acenaphthylene	µg/L	1.4	0.1	<0.050	<0.020	<0.050	<0.020	<0.020	<0.050	<0.050	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050
Anthracene	µg/L	1	0.1	<0.050	<0.020	<0.050	<0.020	<0.020	<0.050	<0.050	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050
Benzo[a]anthracene	µg/L	1.8	0.1	<0.050	<0.020	<0.050	<0.020	<0.020	<0.050	<0.050	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050
Benzo[b]fluoranthene	µg/L	0.81	0.01	0.016	0.01	<0.0090	<0.010	<0.010	<0.0090	<0.0090	0.016	<0.010	<0.010	<0.010	<0.010	<0.0090	<0.0090
Benzo[b]fluoranthene	µg/L	0.75	0.1	<0.050	<0.020	<0.050	<0.020	<0.020	<0.050	<0.050	0.03	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050
Benzo[b]fluoranthene	µg/L	0.2	0.2	<0.050	<0.020	<0.050	<0.020	<0.020	<0.050	<0.050	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050
Benzo[b]fluoranthene	µg/L	0.4	0.1	<0.050	<0.020	<0.050	<0.020	<0.020	<0.050	<0.050	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050
Chrysene	µg/L	0.7	0.1	<0.050	<0.020	<0.050	<0.020	<0.020	<0.050	<0.050	0.028	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050
Dibenz[a,h]anthracene	µg/L	0.4	0.1	<0.050	<0.020	<0.050	<0.020	<0.020	<0.050	<0.050	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050
Fluoranthene	µg/L	73	0.1	0.051	0.027	<0.050	<0.020	<0.020	<0.050	<0.050	0.051	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050
Fluorene	µg/L	290	0.1	<0.050	<0.020	<0.050	<0.020	<0.020	<0.050	<0.050	0.022	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050
Indeno[1,2,3-cd]pyrene	µg/L	0.2	0.2	<0.050	<0.020	<0.050	<0.020	<0.020	<0.050	<0.050	<0.020	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050
1-Methylnaphthalene	µg/g	NV	0.05	<0.050	<0.020	<0.050	<0.020	<0.020	<0.050	<0.050	0.029	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050
2-Methylnaphthalene	µg/g	NV	0.05	<0.050	<0.020	<0.050	<0.020	<0.020	<0.050	<0.050	0.037	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050
Methylnaphthalene, 2(1+)	µg/L	1500	0.5	<0.071	<0.028	<0.071	<0.028	<0.028	<0.071	<0.071	0.066	<0.028	<0.028	<0.028	<0.028	<0.071	<0.071
Naphthalene	µg/L	1400	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	<0.050	<0.050
Phenanthrene	µg/L	380	0.1	0.083	0.024	<0.030	<0.030	<0.030	<0.030	<0.030	0.083	<0.020	<0.020	<0.020	<0.020	<0.030	<0.030
Pyrene	µg/L	5.7	0.1	0.053	<0.020	<0.050	<0.020	<0.020	<0.050	<0.050	0.053	<0.020	<0.020	<0.020	<0.020	<0.050	<0.050

Comments:

Results compared to MECP 2011 Table 9 Site Condition Standards for All Property Use

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

<150 Detection limit exceeded Standard

150 Sample result exceeded Standard

Note: The result for Benzo[b]fluoranthene is the total of the Benzo[b]fluoranthene isomers because the isomers co-elute on the GC column.

+ - Insufficient water for sampling

NA-Not Analyzed

TABLE 10
GROUNDWATER QUALITY ANALYSIS
PETROLEUM HYDROCARBONS
60 DUNDAS STREET EAST
MISSISSAUGA, ON
PROJECT # 21-067

Sample Name	Units	MECP Table 9	RDL	Maximum	BH 101	BH 102	DUP 1 (Dup of BH102)	BH 103	BH207	DUP (Dup of BH207)	Trip Blank	
					L2585341-1	L2585341-2	L2585341-4	L2585341-3	897806-01-01	897806-01-01	897806-01-01	
DOC ID #					7-May-21	7-May-21	7-May-21	7-May-21	26-Sep-22	26-Sep-22	26-Sep-22	-
Date					4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	3.4 - 4.9	3.0 - 6.1	3.0 - 6.1	3.0 - 6.1	-
Depth of Sample (m)												-
Elev of Sample (masl)					106.3 - 104.8	105.4 - 103.9	105.4 - 103.9	106.0 - 104.5	105.8 - 102.7	105.8 - 102.7	105.8 - 102.7	-
Parameter												
F1 (C6 to C10)	µg/L	420	25	<25	<25	<25	<25	<25	<25	<25	<25	<25
F1-BTEX (C6-C10)	µg/L	420	25	<25	<25	<25	<25	<25	<25	<25	<25	<25
F2 (C10 to C16)	µg/L	150	100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F2-Naphthalene (C10-C16)	µg/L	150	100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F3 (C16 to C34)	µg/L	500	200	<250	<250	<250	<250	<250	<200	<200	<200	<200
F3-PAHs (C16 to C34)	µg/L	500	200	<250	<250	<250	<250	<250	<200	<200	<200	<200
F4 (C34 to C50)	µg/L	500	200	<250	<250	<250	<250	<250	<200	<200	<200	<200
Total Hydrocarbons (C6-C50)	µg/L	NV	-	<370	<370	<370	<370	<370				
Gravimetric Heavy Hydrocarbons	µg/L	500	200									
Chromatogram returned to baseline at nC50	Y/N	NV	-	YES	YES	YES	YES	YES	YES	YES	YES	YES

Comments:

Results compared to MECP 2011 Table 9 Site Condition Standards for All Property Use

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 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 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
60 DUNDAS STREET EAST
MISSISSAUGA, ON
PROJECT # 21-067

Sample Name	Units	MECP Table 9	RDL	Maximum	BH 101	BH101	BH 102	DUP 1 (Dup of BH102)	BH102	DUP (Dup of BH102)	BH 103	BH103	BH204	BH206	BH207	BH207	DUP (Dup of BH207)	TRIP BLANK	TRIP BLANK	TRIP BLANK	
CDC ID #					L2585341-1	TCD233	L2585341-2	L2585341-4	TCD234	TCD239	L2585341-3	TCD235	TCD236	TCD237	TCD238	897806-01-01	897806-01-01	L2585341-5	TCD240	897806-01-01	
Date					7-May-21	6-Jul-22	7-May-21	7-May-21	6-Jul-22	6-Jul-22	7-May-21	6-Jul-22	6-Jul-22	6-Jul-22	6-Jul-22	6-Jul-22	26-Sep-22	26-Sep-22	7-May-21	6-Jul-22	26-Sep-22
Depth of Sample (m)					4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	3.4 - 4.9	3.4 - 4.9	3.7 - 6.8	3.0 - 6.1	3.0 - 6.1	3.0 - 6.1	3.0 - 6.1	-	-	-	
Elev of Sample (mast)					106.3 - 104.8	106.3 - 104.8	105.4 - 103.9	105.4 - 103.9	105.4 - 103.9	105.4 - 103.9	106.0 - 104.5	106.0 - 104.5	106.2 - 103.1	105.1 - 102.0	105.8 - 102.7	105.8 - 102.7	105.8 - 102.7	-	-	-	
Parameter																					
Benzene	µg/L	5	0.5	<0.50	<0.50	<0.20	<0.50	<0.50	<0.20	<0.20	<0.50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.50	<0.20	<0.20	
Ethylbenzene	µg/L	2.4	0.5	<0.50	<0.50	<0.20	<0.50	<0.50	<0.20	<0.20	<0.50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.50	<0.20	<0.20	
Toluene	µg/L	22	0.5	<0.50	<0.50	<0.20	<0.50	<0.50	<0.20	<0.20	<0.50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.50	<0.20	<0.20	
Xylene Mixture	µg/L	300	0.5	<0.50	<0.50	<0.20	<0.50	<0.50	<0.20	<0.20	<0.50	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.50	<0.20	<0.40	
m/p-xylene	µg/L	-	0.5	<0.40	<0.40	<0.20	<0.40	<0.40	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.40	<0.20	<0.40	
o-xylene	µg/L	-	0.5	<0.30	<0.30	<0.20	<0.30	<0.30	<0.20	<0.20	<0.30	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.30	<0.20	<0.20	

Comments:

Results compared to MECP 2011 Table 9 Site Condition Standards for All Property Use

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

<750 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
60 DUNDAS STREET EAST
MISSISSAUGA, ON
PROJECT # 21-067

Sample Name	Units	MECP Table 9	RDL	Maximum	BH 101	BH101	BH 102	DUP 1 (Dup of BH102)	BH102	DUP (Dup of BH102)	BH 103	BH103	BH204	BH206	BH207	TRIP BLANK	TRIP BLANK
COC ID #					L2585341-1	TCO233	L2585341-2	L2585341-4	TCO234	TCO239	L2585341-3	TCO235	TCO236	TCO237	TCO238	L2585341-5	TCO240
Date					7-May-21	6-Jul-22	7-May-21	7-May-21	6-Jul-22	6-Jul-22	7-May-21	6-Jul-22	6-Jul-22	6-Jul-22	6-Jul-22	7-May-21	6-Jul-22
Depth of Sample (m)					4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	3.4 - 4.9	3.4 - 4.9	3.7 - 6.8	3.0 - 6.1	3.0 - 6.1	-	--
Elev of Sample (masl)					106.3 - 104.8	106.3 - 104.8	105.4 - 103.9	105.4 - 103.9	105.4 - 103.9	105.4 - 103.9	106.0 - 104.5	106.0 - 104.5	106.2 - 103.1	105.1 - 102.0	105.8 - 102.7	-	--
Parameter																	
VOCs																	
Acetone	µg/L	100000	30	<30	<30	<10	<30	<30	<10	<10	<30	<10	<10	<10	<10	<30	<10
Bromomethane	µg/L	5.6	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
Carbon Tetrachloride	µg/L	0.79	0.2	<0.20	<0.20	<0.19	<0.20	<0.20	<0.19	<0.19	<0.20	<0.19	<0.19	<0.19	<0.19	<0.20	<0.19
Chlorobenzene	µg/L	500	0.5	<0.50	<0.50	<0.20	<0.50	<0.20	<0.20	<0.20	<0.50	<0.20	<0.20	<0.20	<0.20	<0.50	<0.20
Chloroform	µg/L	2.4	0.5	<1.0	<1.0	<0.20	<1.0	<0.20	<0.20	<0.20	<1.0	<0.20	<0.20	<0.20	<0.20	<1.0	<0.20
Dichlorobenzene, 1,2-	µg/L	4600	0.5	<0.50	<0.50	<0.40	<0.50	<0.40	<0.40	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50	<0.40
Dichlorobenzene, 1,3-	µg/L	7600	0.5	<0.50	<0.50	<0.40	<0.50	<0.40	<0.40	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50	<0.40
Dichlorobenzene, 1,4-	µg/L	8	0.5	<0.50	<0.50	<0.40	<0.50	<0.40	<0.40	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50	<0.40
Dichlorodifluoromethane	µg/L	3500	2	<2.0	<2.0	<1.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
Dichloroethane, 1,1-	µg/L	320	0.5	<0.50	<0.50	<0.20	<0.50	<0.20	<0.20	<0.20	<0.50	<0.20	<0.20	<0.20	<0.20	<0.50	<0.20
Dichloroethane, 1,2-	µg/L	1.6	0.5	<0.50	<0.50	<0.49	<0.50	<0.49	<0.49	<0.50	<0.49	<0.49	<0.49	<0.49	<0.49	<0.50	<0.49
Dichloroethylene, 1,1-	µg/L	1.6	0.5	<0.50	<0.50	<0.20	<0.50	<0.20	<0.20	<0.50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.50	<0.20
Dichloroethylene, 1,2-cis-	µg/L	1.6	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
Dichloroethylene, 1,2-trans-	µg/L	1.6	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
Dichloropropane, 1,2-	µg/L	16	0.5	<0.50	<0.50	<0.20	<0.50	<0.20	<0.20	<0.50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.50	<0.20
Dichloropropane, 1,3-	µg/L	5.2	0.5	<0.50	<0.50	<0.40	<0.50	<0.40	<0.40	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50	<0.40
Ethylene dibromide	µg/L	0.25	0.2	<0.20	<0.20	<0.19	<0.20	<0.20	<0.19	<0.19	<0.20	<0.19	<0.19	<0.19	<0.19	<0.20	<0.19
Hexane (n)	µg/L	51	1	<1.0	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
Methyl Ethyl Ketone	µg/L	470000	20	<20	<20	<10	<20	<10	<10	<20	<10	<10	<10	<10	<10	<20	<10
Methyl Isobutyl Ketone	µg/L	140000	20	<20	<20	<5.0	<20	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0
Methyl tert-Butyl Ether (MTBE)	µg/L	190	2	<2.0	<2.0	<0.50	<2.0	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50
Methylene Chloride	µg/L	610	0.5	<5.0	<5.0	<2.0	<5.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0
Styrene	µg/L	1300	0.5	<0.50	<0.50	<0.40	<0.50	<0.40	<0.40	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50	<0.40
Tetrachloroethane, 1,1,1,2-	µg/L	3.3	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
Tetrachloroethane, 1,1,2,2-	µg/L	3.2	0.5	<0.50	<0.50	<0.40	<0.50	<0.40	<0.40	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50	<0.40
Tetrachloroethylene	µg/L	1.6	0.5	<0.50	<0.50	<0.20	<0.50	<0.20	<0.20	<0.50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.50	<0.20
Trichloroethane, 1,1,1-	µg/L	640	0.5	<0.50	<0.50	<0.20	<0.50	<0.20	<0.20	<0.50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.50	<0.20
Trichloroethane, 1,1,2-	µg/L	4.7	0.5	<0.50	<0.50	<0.40	<0.50	<0.40	<0.40	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50	<0.40
Trichloroethylene	µg/L	1.6	0.5	<0.50	<0.50	<0.20	<0.50	<0.20	<0.20	<0.50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.50	<0.20
Trichlorofluoromethane	µg/L	2000	5	<5.0	<5.0	<0.50	<5.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	
Vinyl Chloride	µg/L	0.5	0.2	<0.50	<0.50	<0.20	<0.50	<0.20	<0.20	<0.50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.50	<0.20
THMs																	
Bromodichloromethane	µg/L	67000	0.5	<2.0	<2.0	<0.50	<2.0	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50
Bromoform	µg/L	380	0.5	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0
Dibromochloromethane	µg/L	65000	0.5	<2.0	<2.0	<0.50	<2.0	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50

Comments:

Results compared to MECP 2011 Table 9 Site Condition Standards for All Property Use

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 as per the O.Reg. 153/04 49.1.2.

"The qualified person has determined, based on a phase one environmental site assessment or a phase two environmental site assessment, that there has been a discharge of drinking water within the meaning of the Safe Drinking Water Act, 2002." (Municipal water was used during the mud rotary drilling for the monitoring wells)

NV-No Value

NA-Not Analyzed

TABLE 13
GROUNDWATER QUALITY ANALYSIS
POLYCHLORINATED BIPHENYLS
60 DUNDAS STREET EAST
MISSISSAUGA, ON
PROJECT # 21-067

Sample Name	Units	MECP Table 9	RDL	Maximum	BH 101	BH101	BH 102	DUP 1 (Dup of BH102)	BH102	DUP (Dup of BH102)
COC ID #					L2585341-1	TCD233	L2585341-2	L2585341-4	TCD234	L2585341-4
Date					7-May-21	6-Jul-22	7-May-21	7-May-21	6-Jul-22	7-May-21
Depth of Sample (m)					4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	4.6 - 6.1	4.6 - 6.1
Elev of Sample (masl)					106.3 - 104.8	106.3 - 104.8	105.4 - 103.9	105.4 - 103.9	105.4 - 103.9	105.4 - 103.9
Parameter										
Polychlorinated Biphenyls	µg/L	0.2	0.04	<0.053	<0.053	<0.05	<0.040	<0.040	<0.05	<0.05

Comments:

Results compared to MECP 2011 Table 9 Site Condition Standards for All Property Use

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

<150	Detection limit exceeded Standard
150	Sample result exceeded Standard

NV- No Value

NA-Not Analyzed

APPENDIX A



Phase One Environmental Conceptual Site Model

60 Dundas Street East, Mississauga, Ontario

Phase One ESA including Figures of the Phase One Study Area, which identify the following:	Phase One ESA Information:
Existing buildings and structures	Existing building and structures are presented in Figure 2.
Water bodies located in whole or in part on the Phase One Study Area	No water bodies are located on the Phase One Property. All water bodies within the Phase One Study Area are shown on Figure 3.
Areas of Natural Significance located in whole or in part on the Phase One Study Area	No Life Science ANSIs were identified on the property or within the study area. No Earth Science ANSIs were identified on the property or within the study area.
Roads (including names) within the Phase One Study Area	All roads within the Phase One Study Area are shown on Figure 3.
Use of properties adjacent to the Phase One Property	The land use of properties adjacent to the Phase One Property is shown on Figure 3.
Location of drinking water wells on the Phase One Property	No drinking water wells were present on the Phase One Property.
Areas where any PCA has occurred, and locations of tanks in the Phase One Study Area	The location of PCAs and tanks, if any, is shown on Figure 4.
APECs on the Phase One Property	The location of APECs on the Phase One Property is shown on Figure 5.
Narrative Description and Assessments	
Any areas where Potentially Contaminating Activity (PCAs) on, or potentially affecting, the Phase One Property have occurred	<p><u>On-site PCAs Associated with APEC 1:</u></p> <ul style="list-style-type: none"> #30 – Importation of Fill Material of Unknown Quality <p><u>On-site PCAs Associated with APEC 2:</u></p> <ul style="list-style-type: none"> #01 – De-icing Activities <p><u>On-site PCAs Associated with APEC 3:</u></p>



	<ul style="list-style-type: none"> • #37 – Operation of Dry Cleaning Equipment (where chemicals are used) <p><u>Off-site PCAs Associated with APEC 4:</u></p> <ul style="list-style-type: none"> • #10 – Commercial Autobody Shops • #37 – Operation of Dry Cleaning Equipment (where chemicals are used) <p><u>Off-site PCAs Associated with APEC 5:</u></p> <ul style="list-style-type: none"> • #10 – Commercial Autobody Shops • #28 – Gasoline and Associated Products Storage in Fixed Tanks • #37 – Operation of Dry Cleaning Equipment (where chemicals are used) • #02 – PCB Use <p><u>Off-site PCAs Associated with APEC 6:</u></p> <ul style="list-style-type: none"> • #10 – Commercial Autobody Shops • #03 – Ontario Spills
<p>Any Contaminants of Potential Concerns (CoPCs)</p>	<p><u>CoPCs Associated with APEC 1:</u></p> <ul style="list-style-type: none"> • Metals, As, Sb, Se, CN-, Hg, Cr(VI), PAHs, BTEX, and PHCs in soil and groundwater • B-HWS in soil <p><u>CoPCs Associated with APEC 2:</u></p> <ul style="list-style-type: none"> • EC and SAR in soil • Na and Cl in groundwater <p><u>CoPCs Associated with APEC 3:</u></p> <ul style="list-style-type: none"> • VOCs in soil and groundwater <p><u>CoPCs Associated with APEC 4:</u></p> <ul style="list-style-type: none"> • PHCs, BTEX and VOCs in groundwater <p><u>CoPCs Associated with APEC 5:</u></p> <ul style="list-style-type: none"> • PHCs, BTEX, VOCs, and PCBs in groundwater <p><u>CoPCs Associated with APEC 6:</u></p> <ul style="list-style-type: none"> • PHCs, BTEX and VOCs in groundwater
<p>The potential of underground utilities (if any present) to affect contaminant distribution and transport</p>	<p>Buried hydro, gas, communication, water and electrical all run through the Property. Based on these observations, there is the potential for underground utilities to affect the distribution and transportation of contaminants underneath the Property.</p>
<p>Available regional or site specific geological and hydrogeological information</p>	<p><u>Topography:</u></p>



	<ul style="list-style-type: none"> The approximate elevation of the Property is 111 m above sea level (masl) and is relatively flat, with a slight slope towards Cooksville Creek to the east. <p><u>Hydrology:</u></p> <ul style="list-style-type: none"> The nearest body of water is Cooksville Creek, located approximately 10 m to the northeast of the Property. Lake Ontario is located approximately 4 km southeast of the Property. Surface water flow is expected to flow to the municipal catch basins located on the Property or the adjacent roadway. Groundwater is expected to flow northeast towards Cooksville Creek and ultimately southeast towards Lake Ontario. <p><u>Overburden:</u></p> <ul style="list-style-type: none"> Halton Till comprised of stratified clayey silt to silt to sandy silt across the north to east portion. Deltaic and lacustrine deposits comprised of silty sand to gravelly sand on the western portion. <p><u>Bedrock:</u></p> <ul style="list-style-type: none"> Georgian Bay Formation comprised of shale, limestone, dolostone, and siltstone. Bedrock was encountered during the previous Phase II investigation at approximately 5.2 to 6.3 mbgs.
<p>Any uncertainty or absence of information obtained in the Phase One ESA that could affect the validity of the CSM</p>	<p>No uncertainty or absence of information obtained in the Phase One ESA is identified to have an affect on the validity of the CSM.</p>

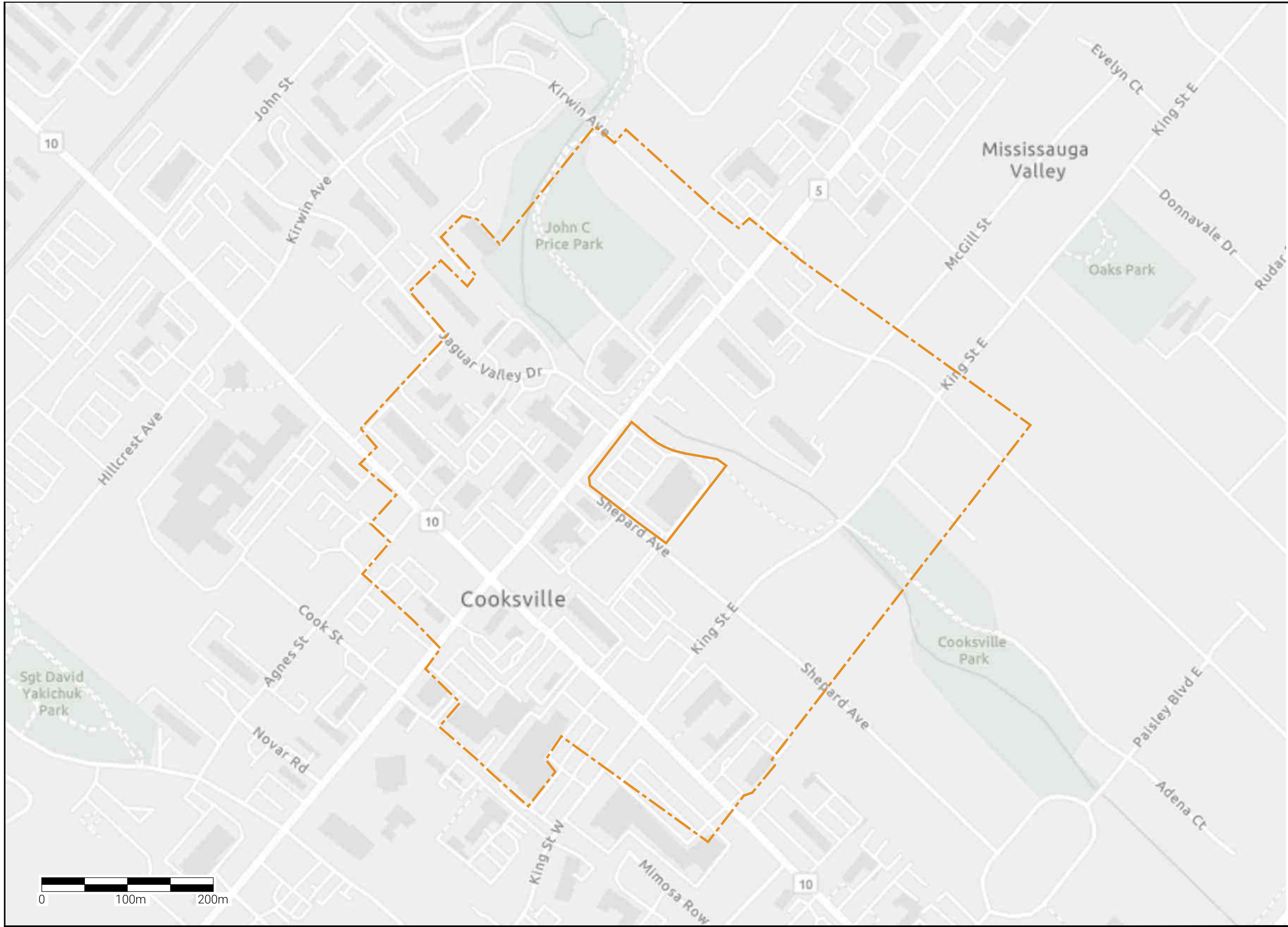
Figure 1 – Site Location Plan

Figure 2 – Phase One Property

Figure 3 – Phase One Study Area

Figure 4 – PCA Locations

Figure 5 – APEC Locations



GROUNDED
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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- STUDY AREA (250 m)

Note

Reference

ArcGIS Map 2021

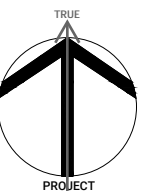
Project

60 DUNDAS STREET EAST, MISSISSAUGA, ON

Figure Title

SITE LOCATION PLAN

North



Date

JUNE 2022

Scale

AS INDICATED

Job No

21-067

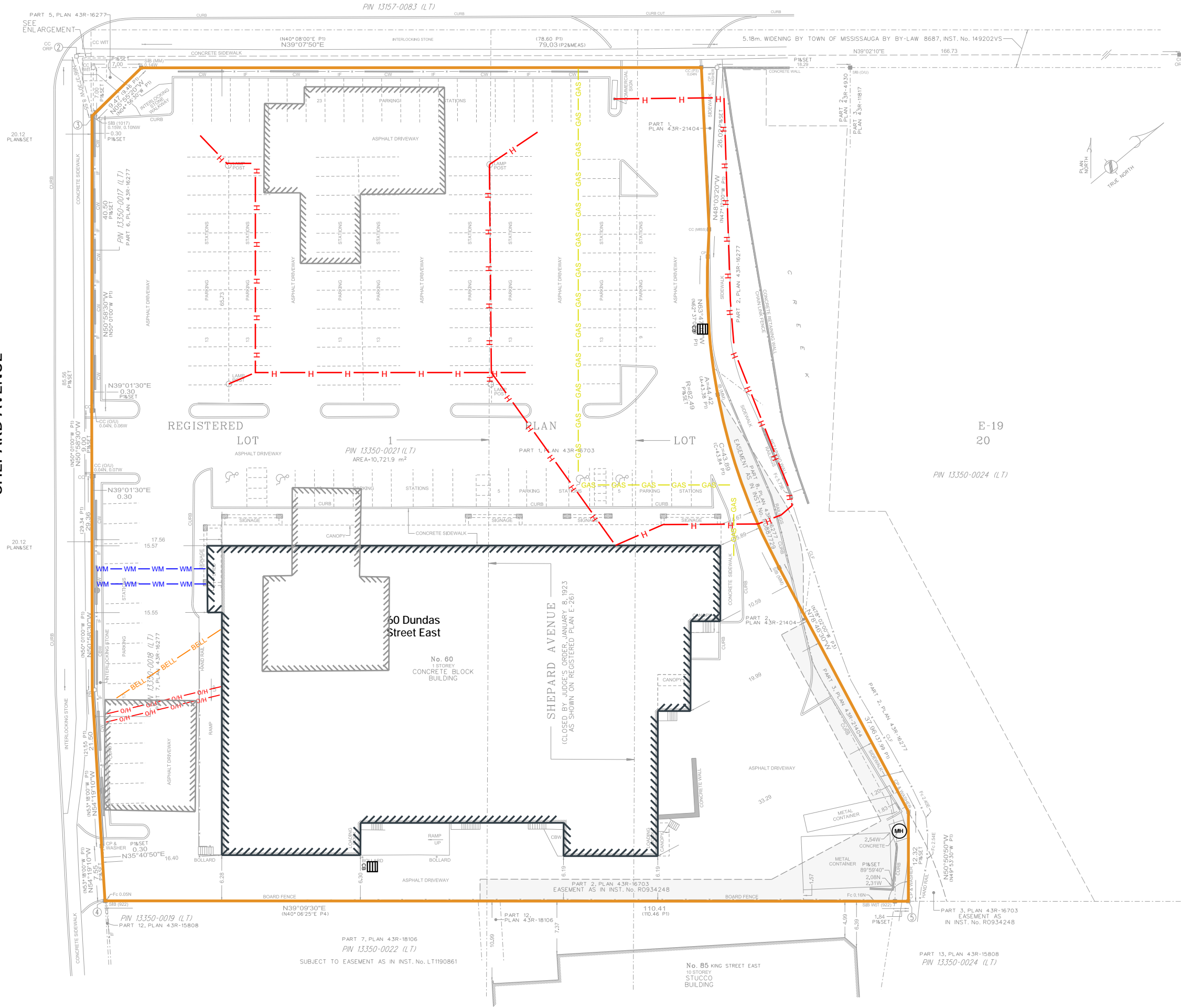
Figure No

FIGURE 1

DUNDAS STREET EAST

PIN 13157-0083 (LT)

SHEPARD AVENUE



12 Banigan Drive, Toronto, Ont., M4H 1E9
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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING STRUCTURE
- APPROX. HISTORICAL BUILDING LOCATION
- O/H OVERHEAD HYDRO
- WM WATER
- COMMUNICATION
- GAS
- CATCHBASIN
- MAINTENANCE HOLE

Note

Reference

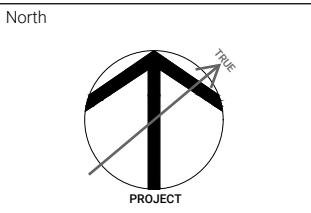
Survey Drawing no. 20-21-14108-00.
Prepared by Aksan Piller Corporation Ltd.
Dated April 5, 2021.

Project

60 DUNDAS STREET EAST, MISSISSAUGA, ON

Figure Title

PHASE ONE PROPERTY



Date

JUNE 2022

Scale

AS INDICATED

Job No

21-067

Figure No






FIGURE 2



GROUND
ENGINEERING

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LEGEND

-  APPROXIMATE PROPERTY BOUNDARY
-  STUDY AREA (250 m)
-  APPROXIMATE CREEK LOCATION
-  LOCAL GROUNDWATER FLOW DIRECTION
-  COMMERCIAL LAND USE
-  COMMUNITY LAND USE
-  RESIDENTIAL, PARKLAND, AND INSTITUTIONAL LAND USE

Note

Reference

ArcGIS Map 2021

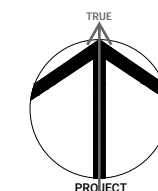
Project

60 DUNDAS STREET EAST, MISSISSAUGA, ON

Figure Title

PHASE ONE STUDY AREA

North



Date

JUNE 2022

Scale

AS INDICATED

Job No

21-067

Figure No

FIGURE 3





GROUND
ENGINEERING

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LEGEND

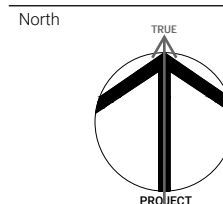
- APPROXIMATE PROPERTY BOUNDARY
- STUDY AREA (250 m)
- LOCAL GROUNDWATER FLOW DIRECTION
- APPROXIMATE CREEK LOCATION
- #10 COMMERCIAL AUTOBODY SHOPS
- #28 GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS
- #30 IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY
- #37 OPERATION OF DRY CLEANING EQUIPMENT (WHERE CHEMICALS ARE USED)
- #43 PLASTICS (INCLUDING FIBREGLASS) MANUFACTURING AND PROCESSING SALVAGE YARD, INCLUDING AUTOMOBILE WRECKING
- #49 WRECKING
- #01 DE-ICING ACTIVITY USING SALT
- #02 PCB USAGE
- #03 ONTARIO SPILLS

Note
GREEN - PCA NOT CAUSING APEC
RED - PCA CAUSING APEC

Reference
ArcGIS Map 2021

Project
60 DUNDAS STREET EAST, MISSISSAUGA, ON

Figure Title
PCA LOCATION PLAN

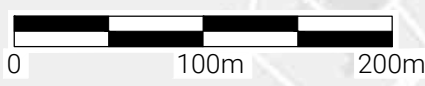
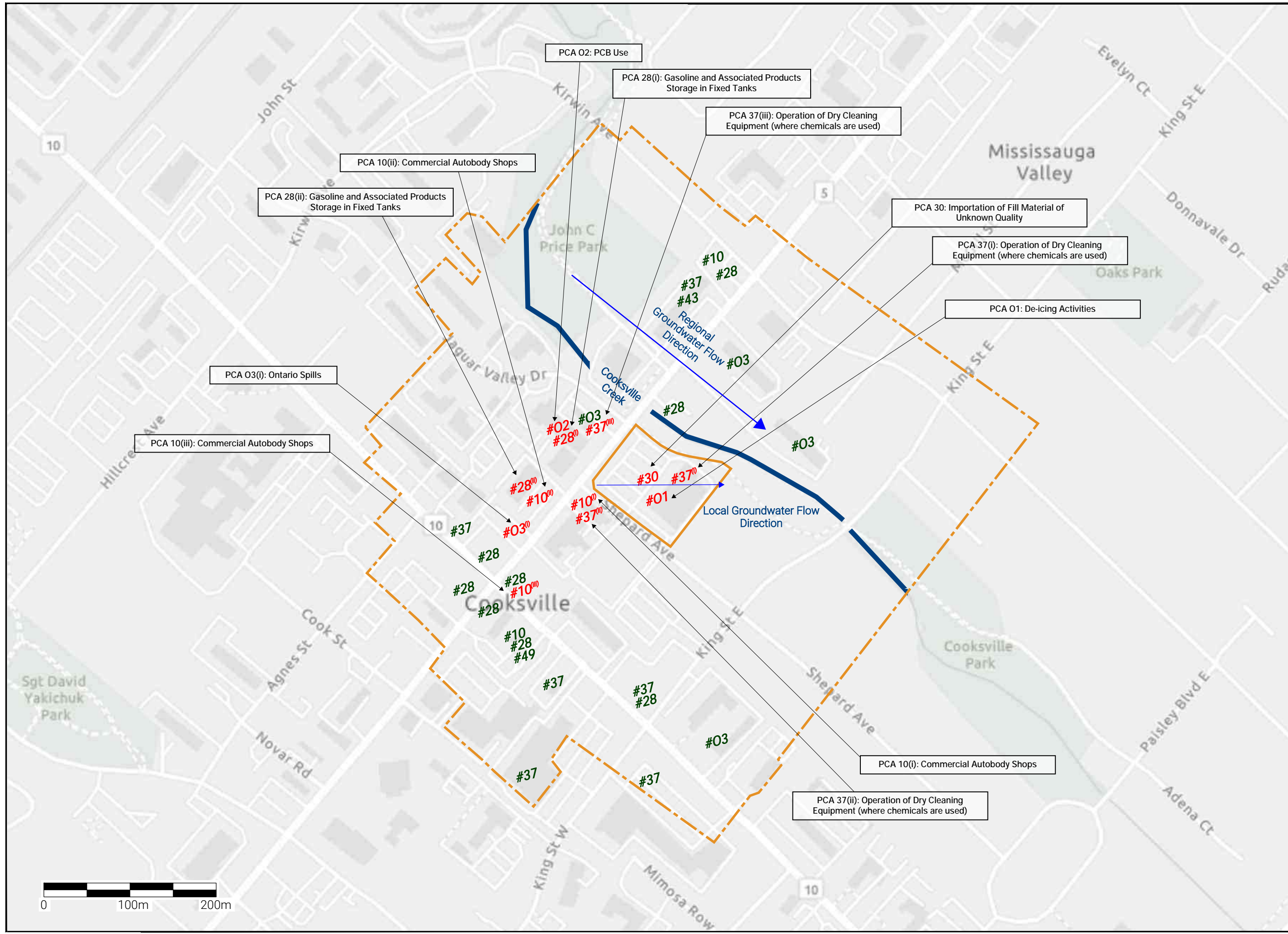


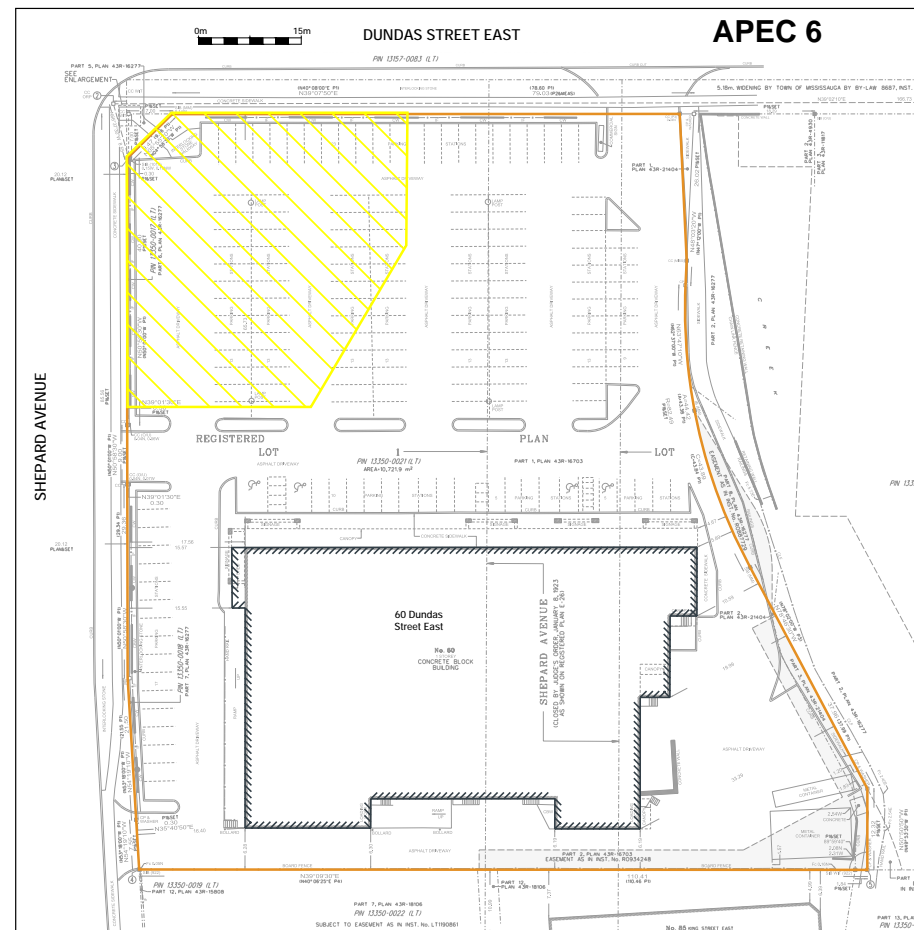
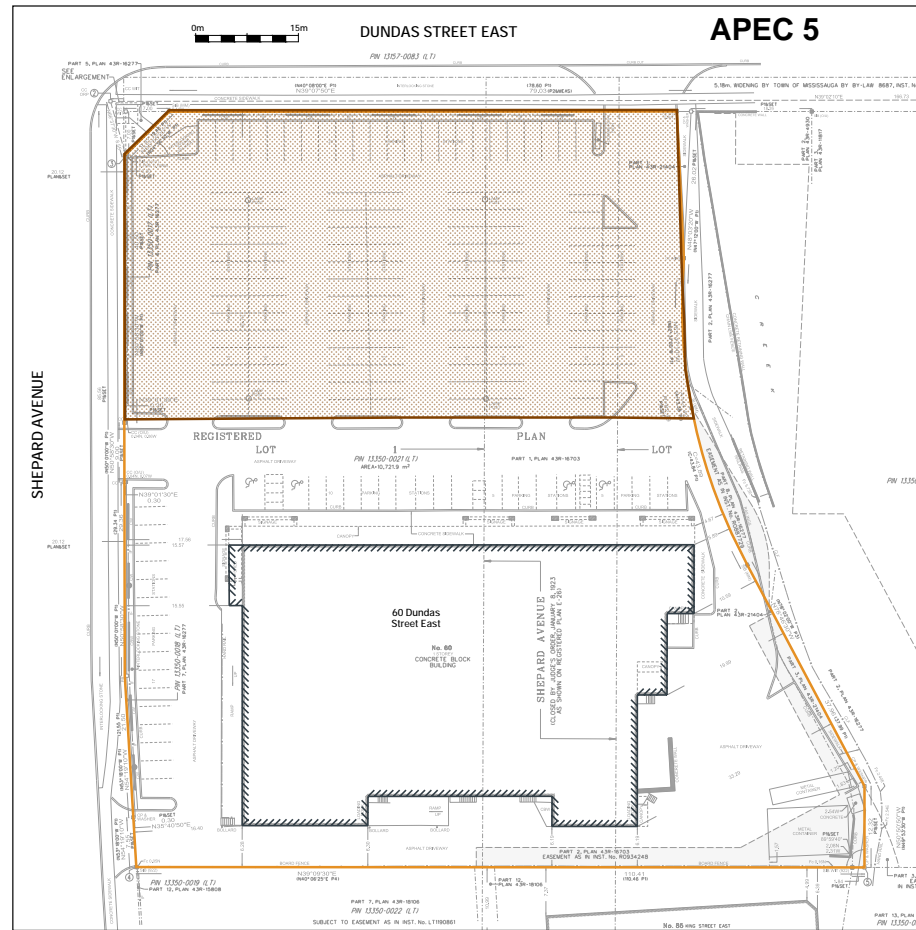
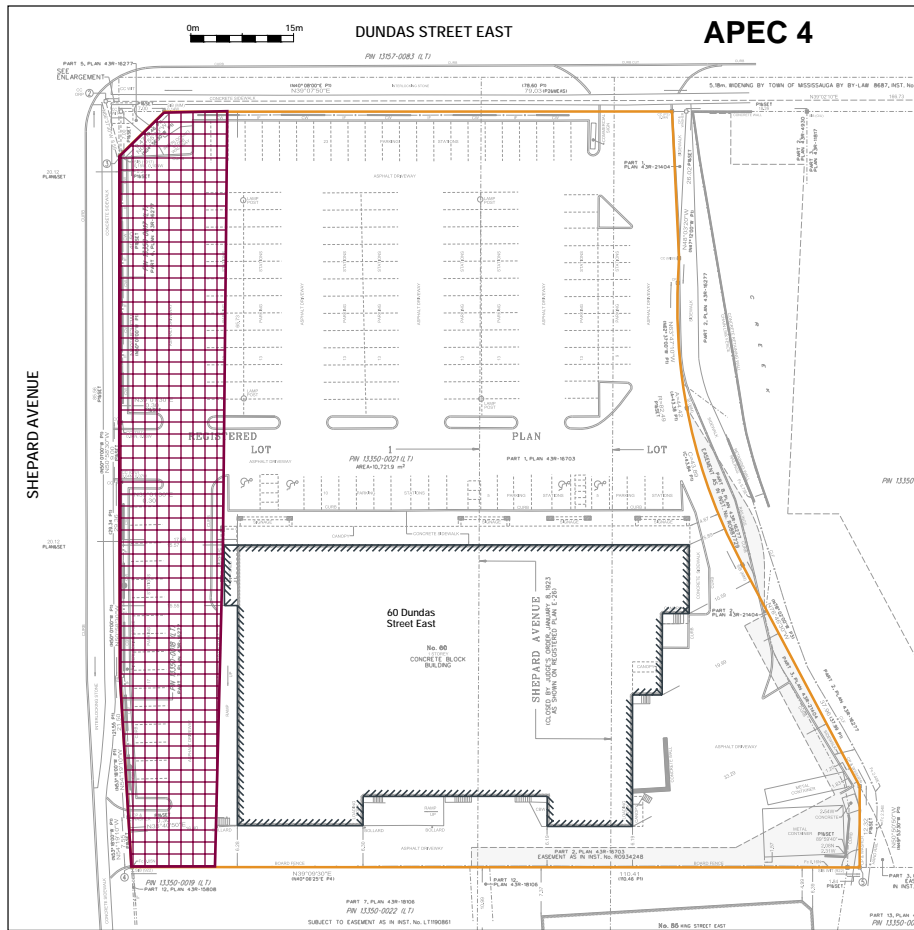
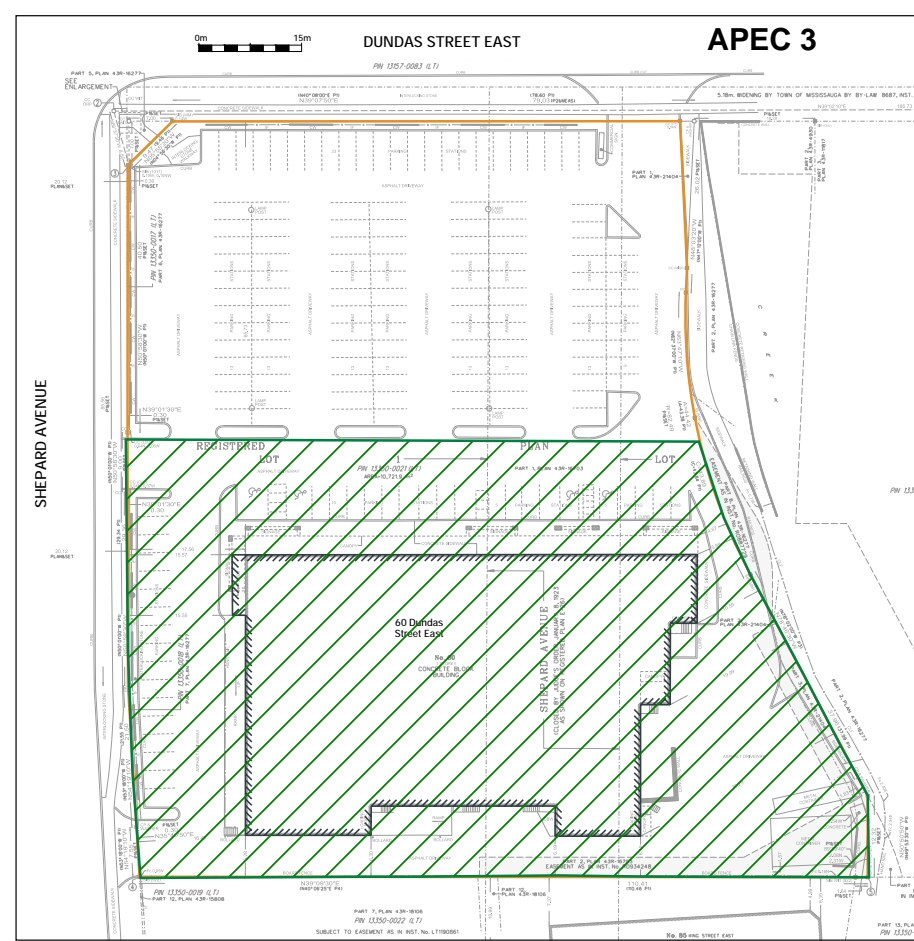
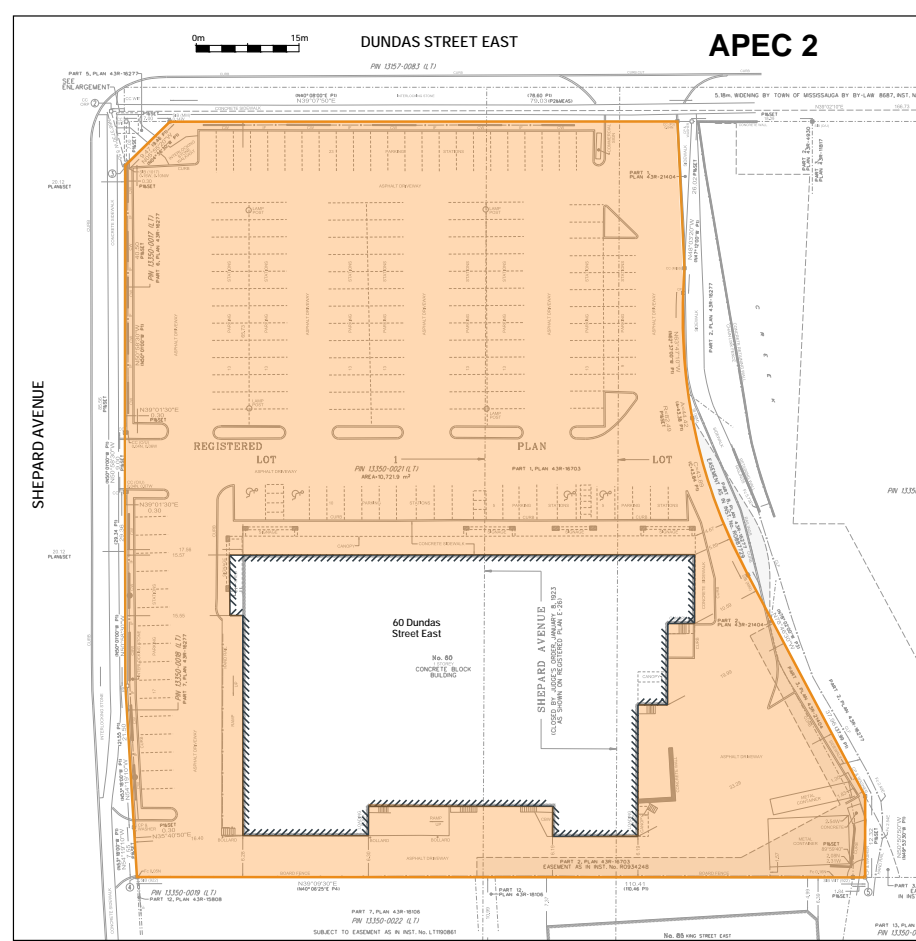
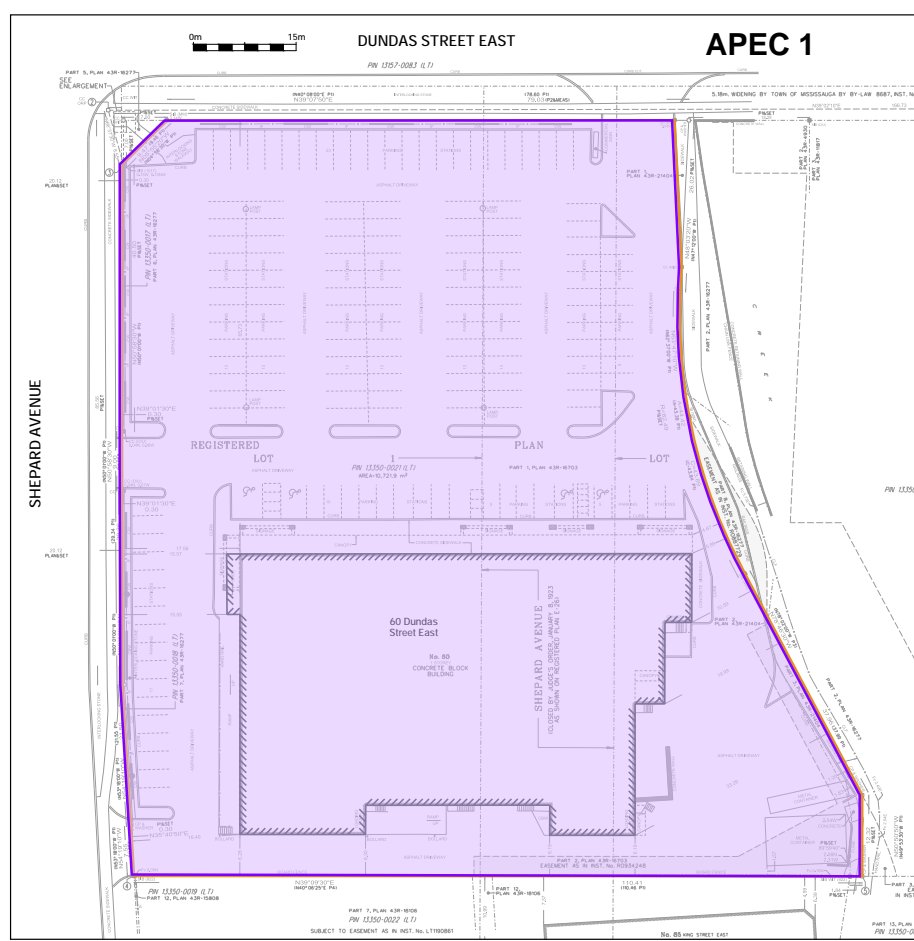
Date
JUNE 2022

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AS INDICATED

Job No
21-067

Figure No
FIGURE 4





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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING STRUCTURE
- APEC 1
- APEC 2
- APEC 3
- APEC 4
- APEC 5
- APEC 6

Note

Reference

Survey Drawing no. 20-21-14108-00.
Prepared by Aksan Piller Corporation Ltd.
Dated April 5, 2021.

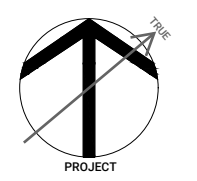
Project

60 DUNDAS STREET EAST, MISSISSAUGA, ON

Figure Title

APEC LOCATION PLAN

North



Date

JUNE 2022

Scale

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Job No

21-067

Figure No

FIGURE 5

APPENDIX B



Appendix B: Sampling and Analysis Plan

Areas of Potential Environmental Concern (APECs) & Location	Potentially Contaminating Activities (PCAs)	Contaminants of Potential Concern (CoPCs)	Media Potentially Impacted (Groundwater, soil and/or sediment)	Borehole or Monitoring Well Associated	Rationale
APEC 1 (Entire Property)	#30 – Importation of Fill Material of Unknown Quality	Metals Sb, As, Se CN- Cr(VI) Hg Low or high pH PAHs PHCs BTEX VOC	Soil & Groundwater	BH101-103 BH201-207 BH301-305	To assess if the soil and groundwater within the APEC was impacted due to historical use of fill of unknown quality on-site.
		B-HWS	Soil		
APEC 2 (Phase One Property Excluding Building Footprint)	#01 – De-icing Activities	EC SAR	Soil	BH101-103 BH201-207 BH301-305	To assess if the soil and groundwater within the APEC was impacted due to de-icing operations on-site.
		Na Cl	Groundwater		
APEC 3 (Southern Portion of Phase One Property)	#37 – Operation of Dry Cleaning Equipment (where chemicals are used)	VOCs	Soil & Groundwater	BH103 BH204-207 BH301-305	To assess if the soil and groundwater within the APEC was impacted due to the operation of a dry cleaning operation on-site.
APEC 4 (Western Portion of Phase One Property)	#10 – Commercial Autobody Shops	PHCs BTEX VOCs	Groundwater	BH101 BH103 BH203	To assess if the groundwater within the APEC was impacted due to the operation of a dry cleaning operation and commercial autobody shop off-site.
	#37 – Operation of Dry Cleaning (where chemicals are used)				
APEC 5 (Northern Portion of	#10 – Commercial Autobody Shops	PHCs BTEX VOCs PCBs	Groundwater	BH101 & 102 BH201-203	To assess if the groundwater within the APEC was impacted due to the operation of a dry cleaning operation,



Areas of Potential Environmental Concern (APECs) & Location	Potentially Contaminating Activities (PCAs)	Contaminants of Potential Concern (CoPCs)	Media Potentially Impacted (Groundwater, soil and/or sediment)	Borehole or Monitoring Well Associated	Rationale
Phase One Property)	#28 – Gasoline and Associated Products Storage in Fixed Tanks				PCB storage and commercial autobody shop off-site.
	#37 – Operation of Dry Cleaning Equipment (where chemicals are used)				
	#02 – PCB Use				
APEC 6 (Northwestern Corner of Phase One Property)	#10 – Commercial Autobody Shops	PHCs BTEX VOCs	Groundwater	BH101 BH201 BH203	To assess if the groundwater within the APEC was impacted due to a commercial autobody shop and spill off-site.
	#03 – Ontario Spills				

APPENDIX C



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
 NP: non-plastic
 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.

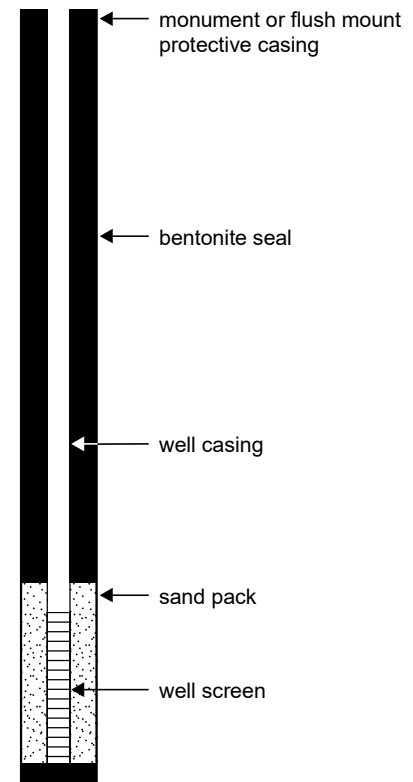
ASTM D1587 Shelby Tubes (ST)

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.

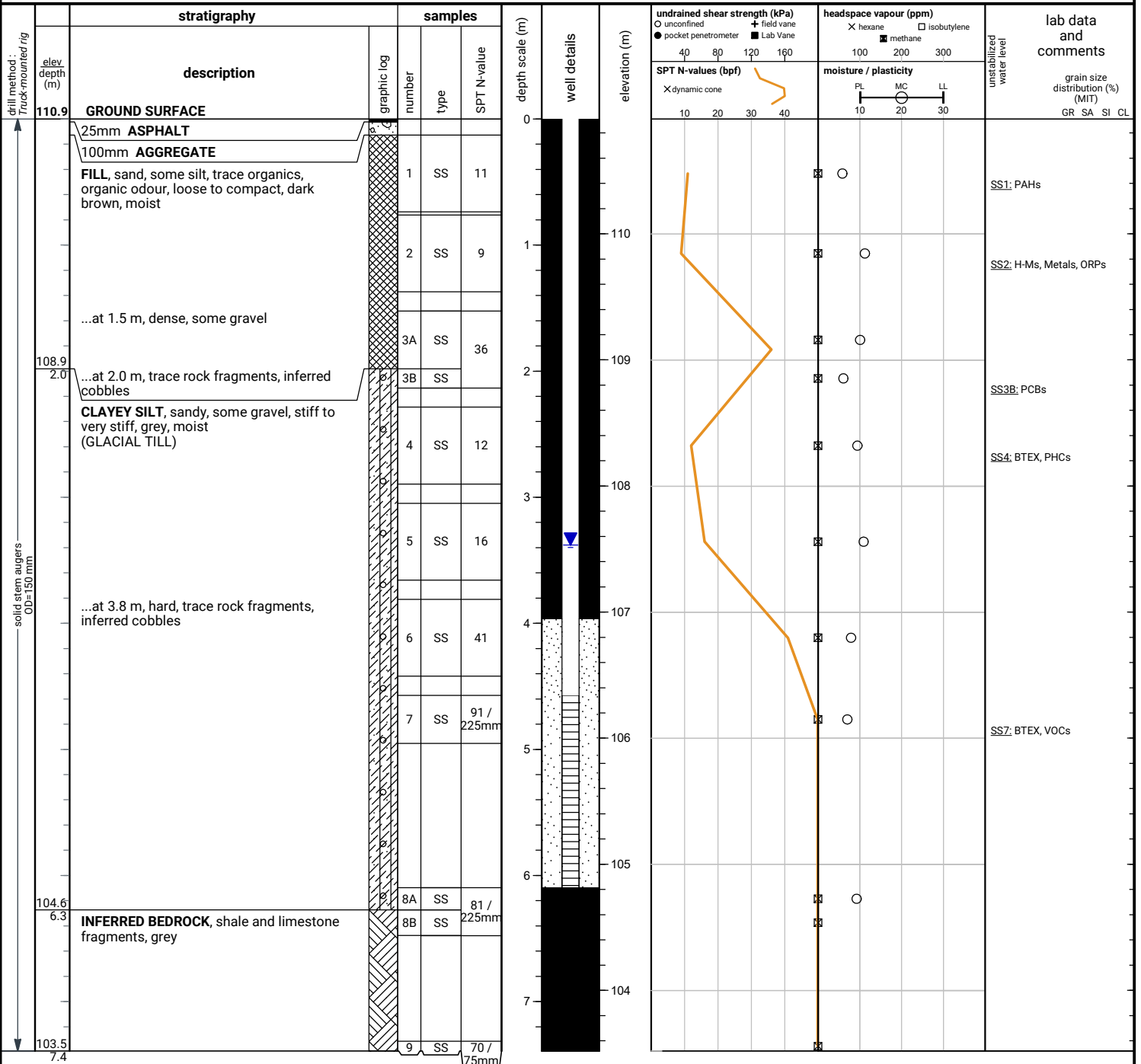
WELL LEGEND



File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E



END OF BOREHOLE

Dry and open upon completion of drilling.
 50 mm dia. monitoring well installed.
 No. 10 screen

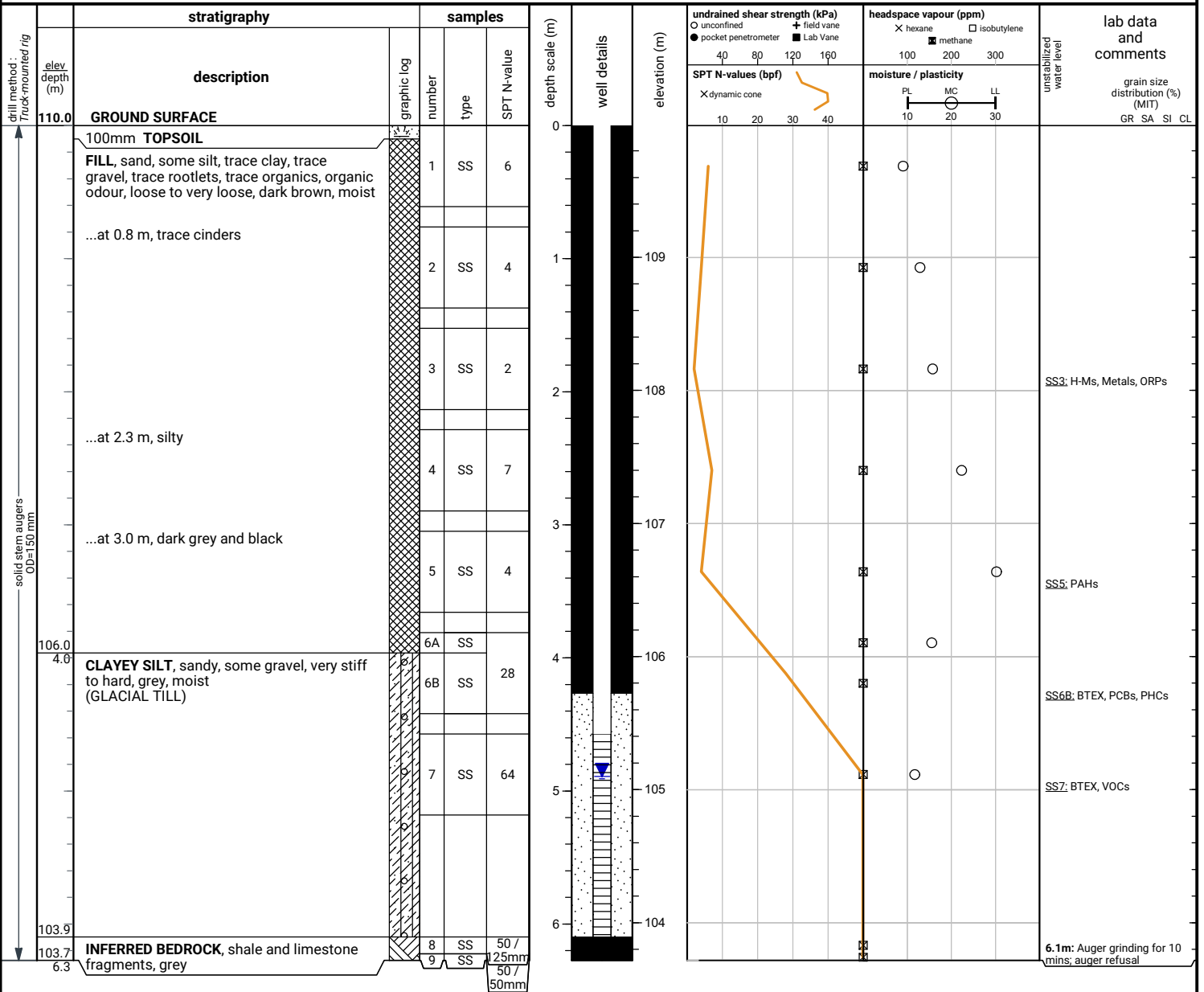
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
May 4, 2021	4.7	106.2
May 6, 2021	3.5	107.4
May 10, 2021	3.3	107.6
May 21, 2021	3.2	107.7
Apr 17, 2022	3.4	107.5

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E



END OF BOREHOLE
Auger refusal on inferred bedrock

Dry and open upon completion of drilling.

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

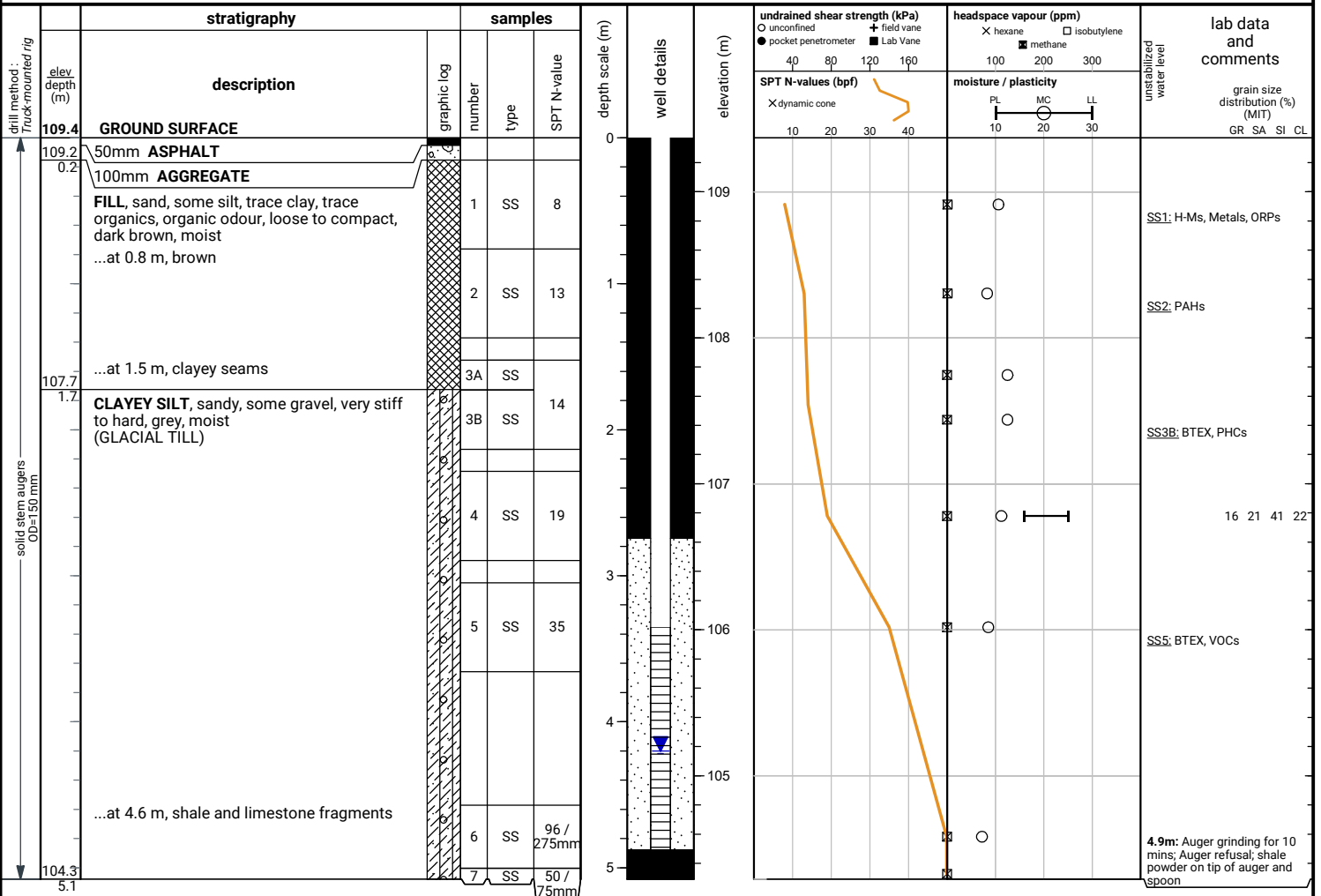
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
May 4, 2021	4.7	105.3
May 6, 2021	4.0	106.0
May 10, 2021	3.8	106.2
May 21, 2021	3.8	106.2
Apr 17, 2022	4.9	105.1

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E



END OF BOREHOLE
Auger refusal on inferred bedrock

Dry and open upon completion of drilling.

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

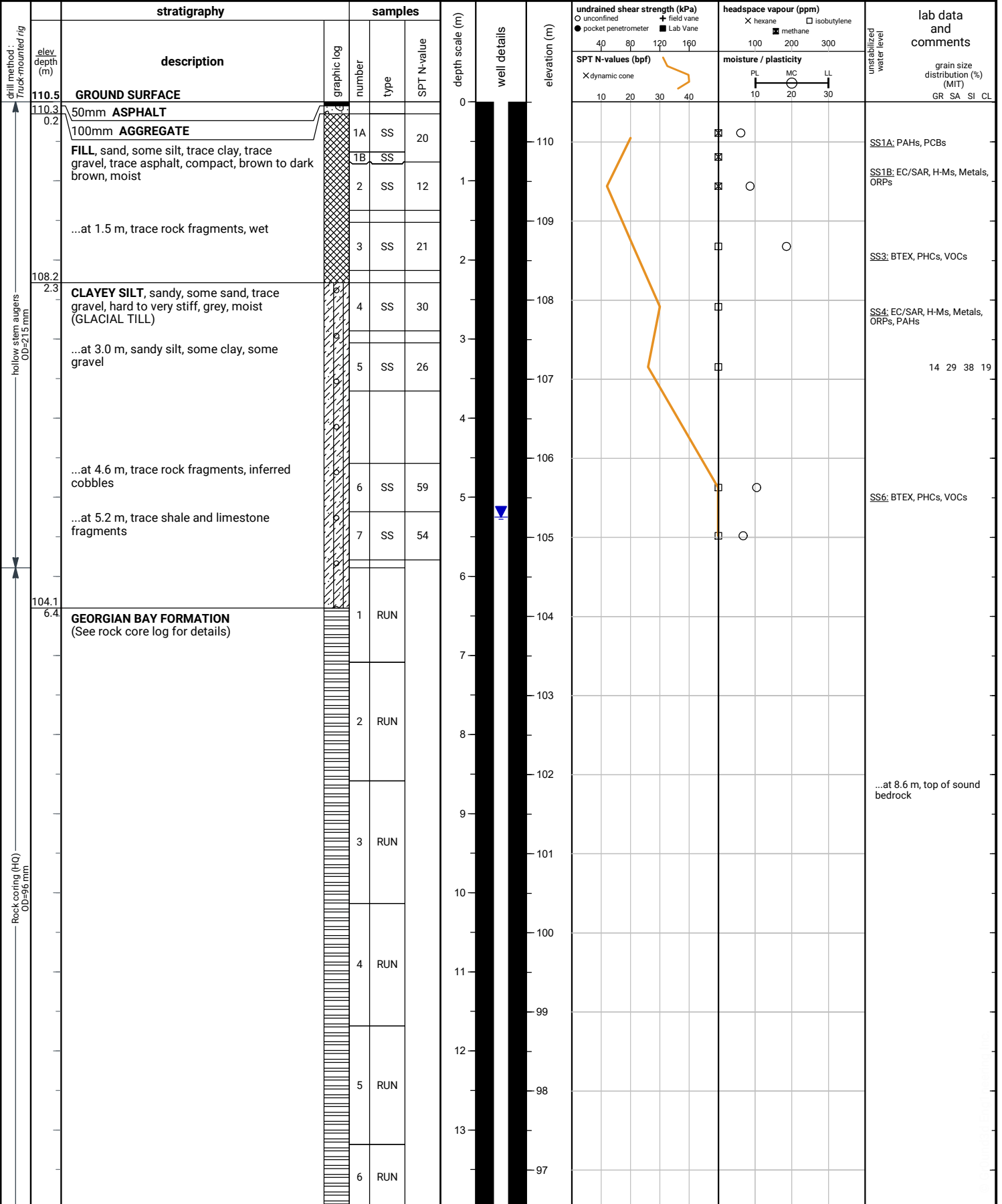
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
May 4, 2021	4.6	104.8
May 6, 2021	4.1	105.3
May 10, 2021	4.1	105.3
May 21, 2021	4.0	105.4
Apr 17, 2022	4.2	105.2

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E



file: 21-067.gpj

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E

drill method : Truck-mounted rig	stratigraphy		samples			depth scale (m)	well details	elevation (m)	undrained shear strength (kPa)		headspace vapour (ppm)			lab data and comments
	elev. depth (m)	description	graphic log	number	type				SPT N-value	○ unconfined ● pocket penetrometer X dynamic cone	+ field vane ■ Lab Vane	X hexane □ isobutylene	■ methane	
	(continued)													
	GEORGIAN BAY FORMATION (See rock core log for details) (continued)													
				6	RUN			14						
				7	RUN			15						
				8	RUN			16						
				9	RUN			17						
				10	RUN			18						
				11	RUN			19						
				12	RUN			20						
								21						
								22						
								23						

END OF BOREHOLE

Borehole was filled with drill water upon completion of drilling.

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

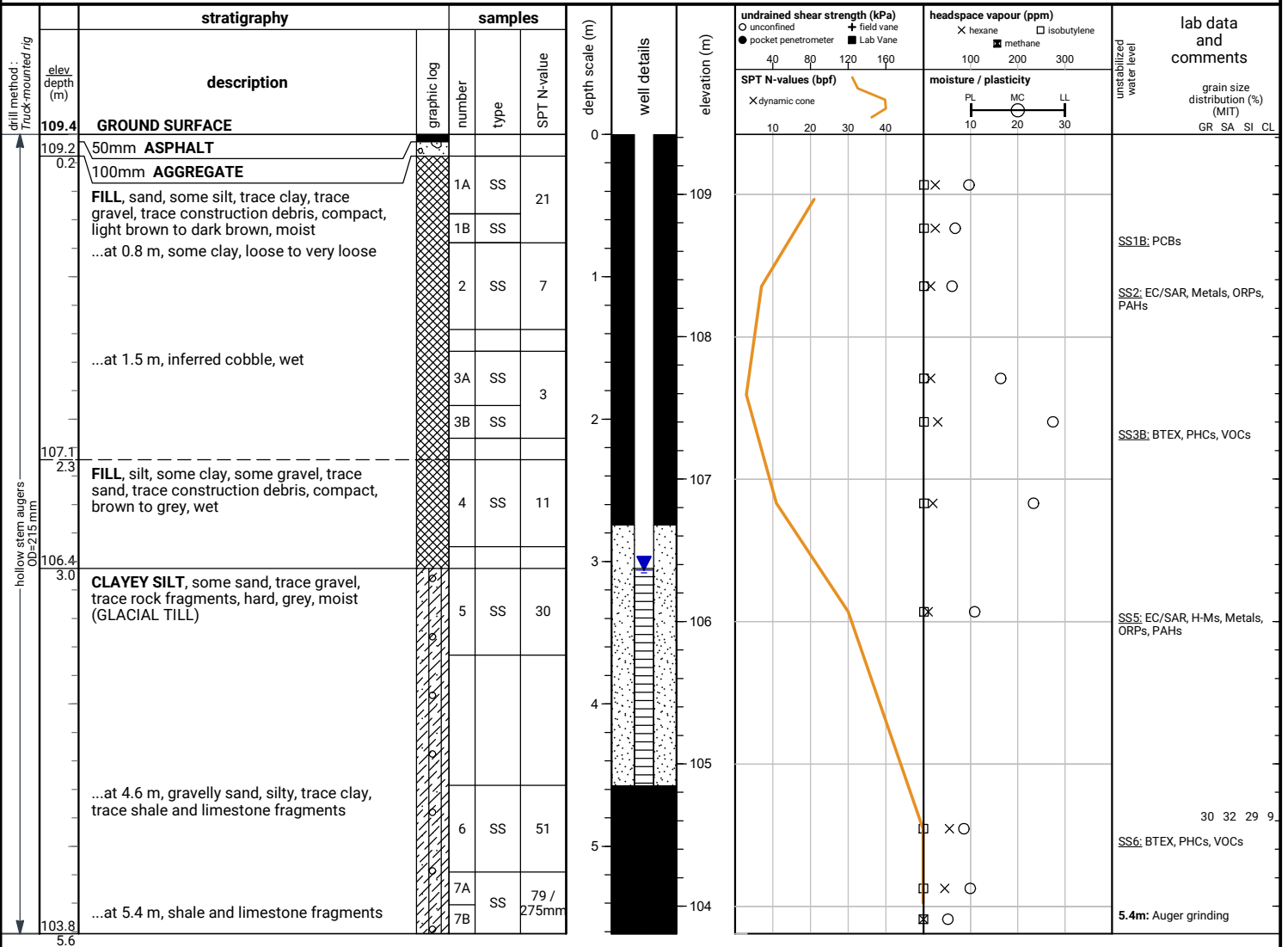
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
Apr 17, 2022	5.3	105.2

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E



END OF BOREHOLE
Auger refusal on inferred bedrock

Water level and cave not measured upon completion of drilling.

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

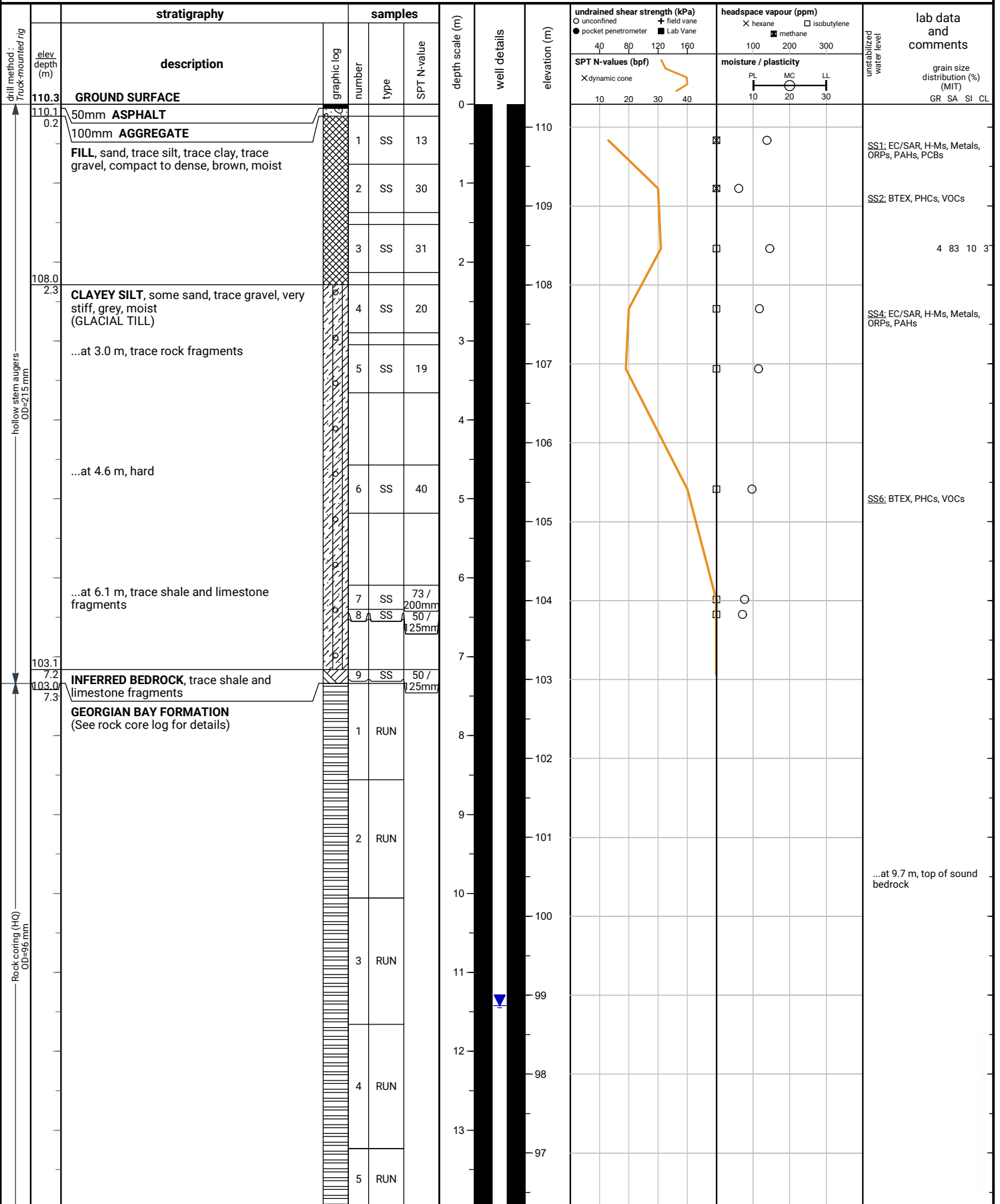
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
Mar 21, 2022	4.3	105.1
Apr 17, 2022	3.1	106.3

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E



file: 21-067.gpj

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E

drill method : Truck-mounted rig	stratigraphy		samples			depth scale (m)	well details	elevation (m)	undrained shear strength (kPa) ○ unconfined + field vane ● pocket penetrometer ■ Lab Vane 40 80 120 160	headspace vapour (ppm) X hexane □ isobutylene ■ methane	lab data and comments grain size distribution (%) (MIT) GR SA SI CL
	elev. depth (m)	description	graphic log	number	type						
	(continued)	GEORGIAN BAY FORMATION (See rock core log for details) (continued)									
				5	RUN						
				6	RUN						
				7	RUN						
				8	RUN						
				9	RUN						
				10	RUN						
				11	RUN						

END OF BOREHOLE

Borehole was filled with drill water upon completion of drilling.

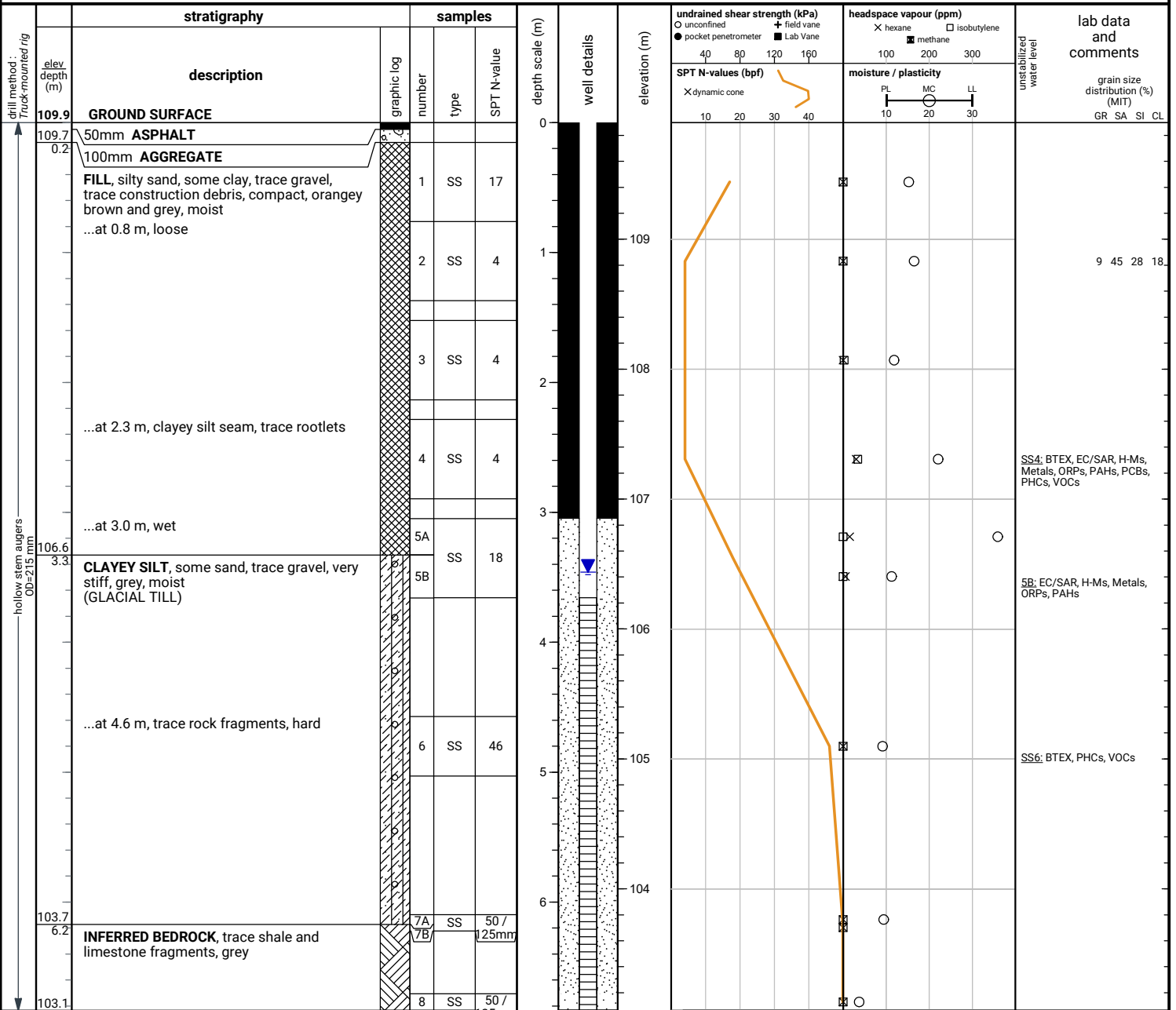
50 mm dia. monitoring well installed.
 No. 10 screen

GROUNDWATER LEVELS		
date	depth (m)	elevation (m)
Apr 17, 2022	11.4	98.9

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E



END OF BOREHOLE

Water level and cave not measured upon completion of drilling.

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

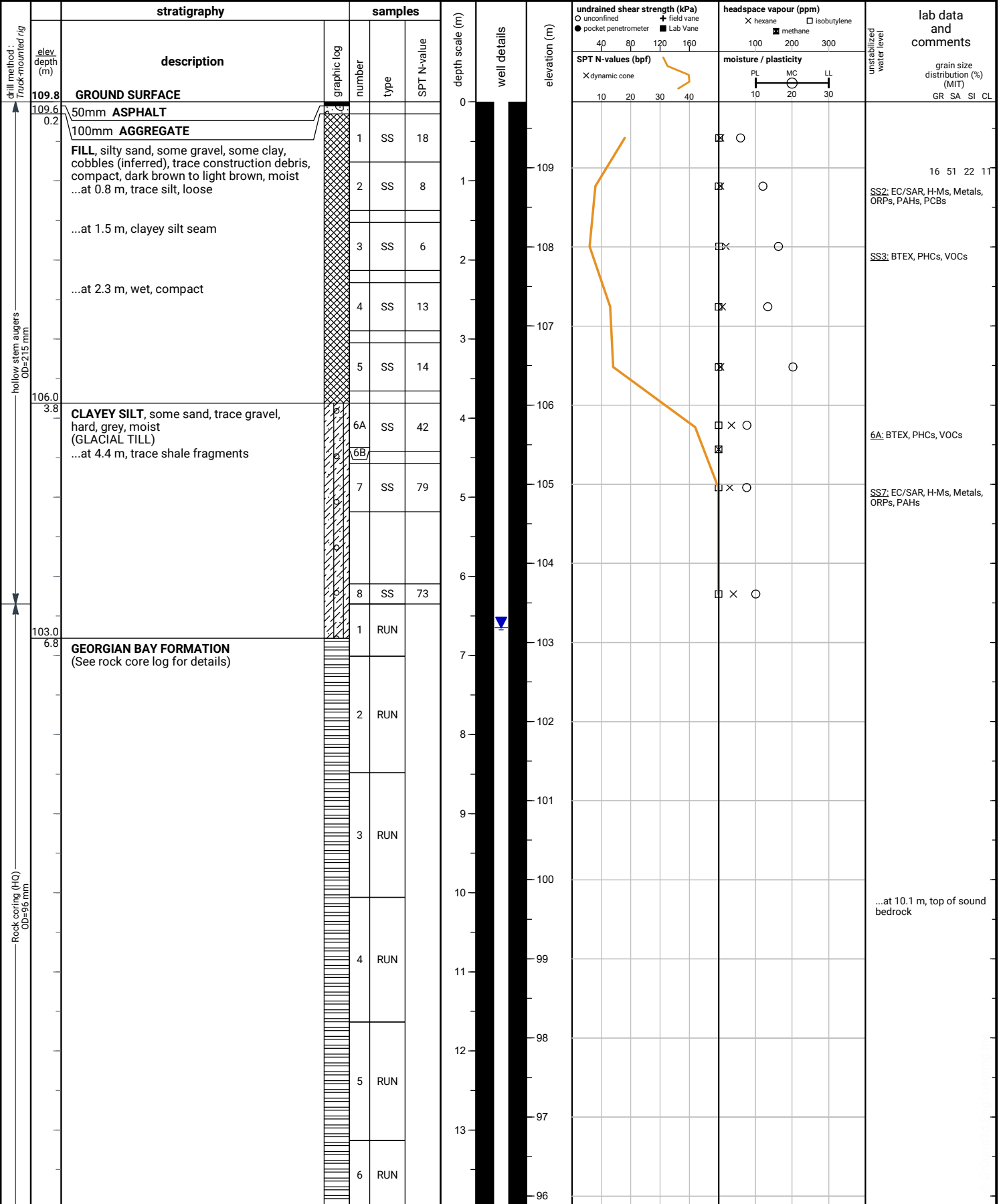
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
Mar 21, 2022	3.7	106.2
Mar 22, 2022	3.6	106.3
Apr 17, 2022	3.5	106.4

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E



file: 21-067.gpj

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E

drill method : Truck-mounted rig	stratigraphy		samples			depth scale (m)	well details	elevation (m)	undrained shear strength (kPa) ○ unconfined + field vane ● pocket penetrometer ■ Lab Vane	headspace vapour (ppm) X hexane □ isobutylene ■ methane	lab data and comments grain size distribution (%) (MIT) GR SA SI CL
	elev. depth (m)	description	graphic log	number	type						
	(continued)										
	GEORGIAN BAY FORMATION (See rock core log for details) (continued)		6	RUN		14					
			7	RUN		15					
			8	RUN		16					
			9	RUN		17					
			10	RUN		18					
			11	RUN		19					
			12	RUN		20					
						21					
						22					
						23					

END OF BOREHOLE

Borehole was filled with drill water upon completion of drilling.

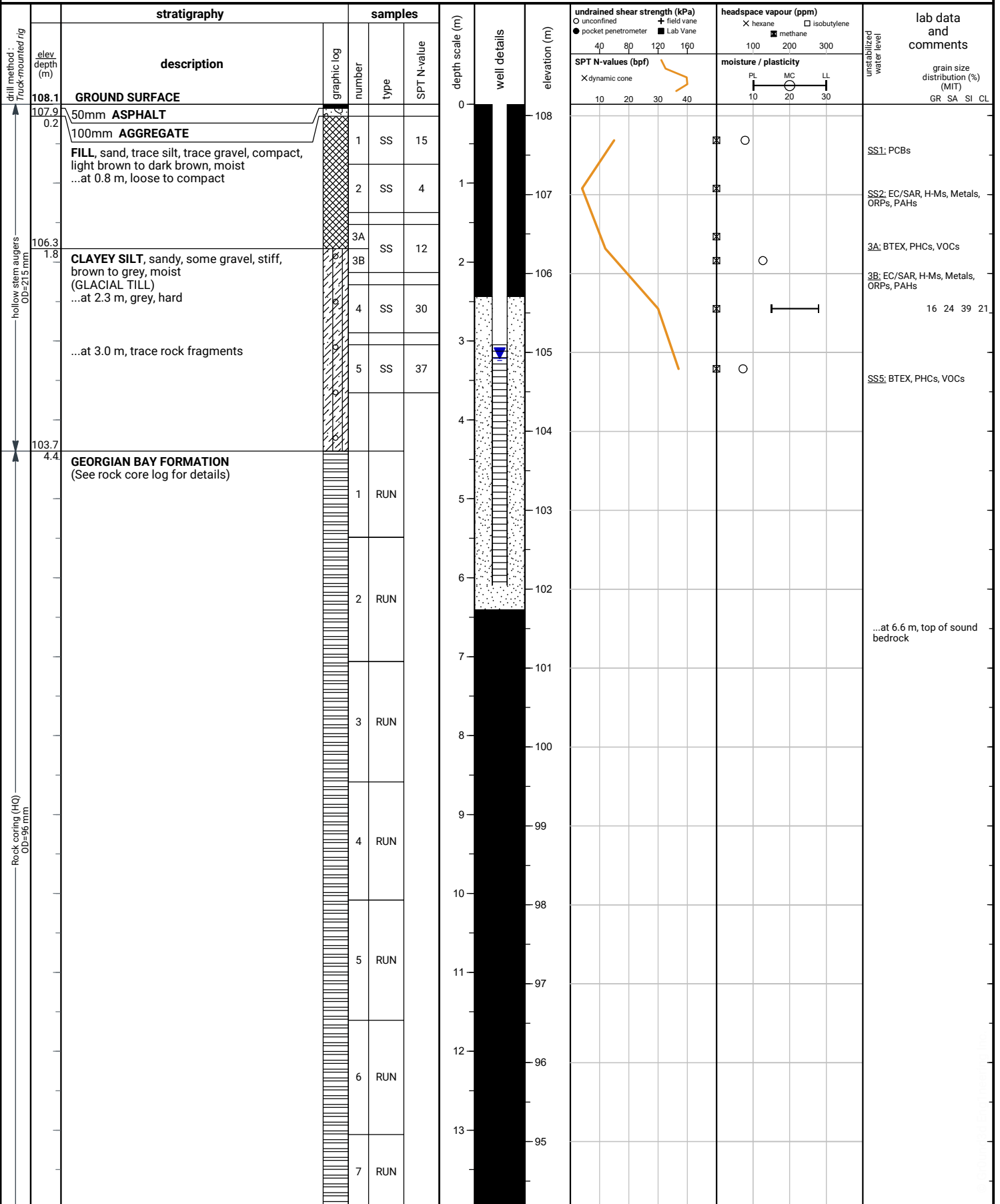
50 mm dia. monitoring well installed.
No. 10 screen

GROUNDWATER LEVELS		
date	depth (m)	elevation (m)
Apr 17, 2022	6.7	103.1

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E

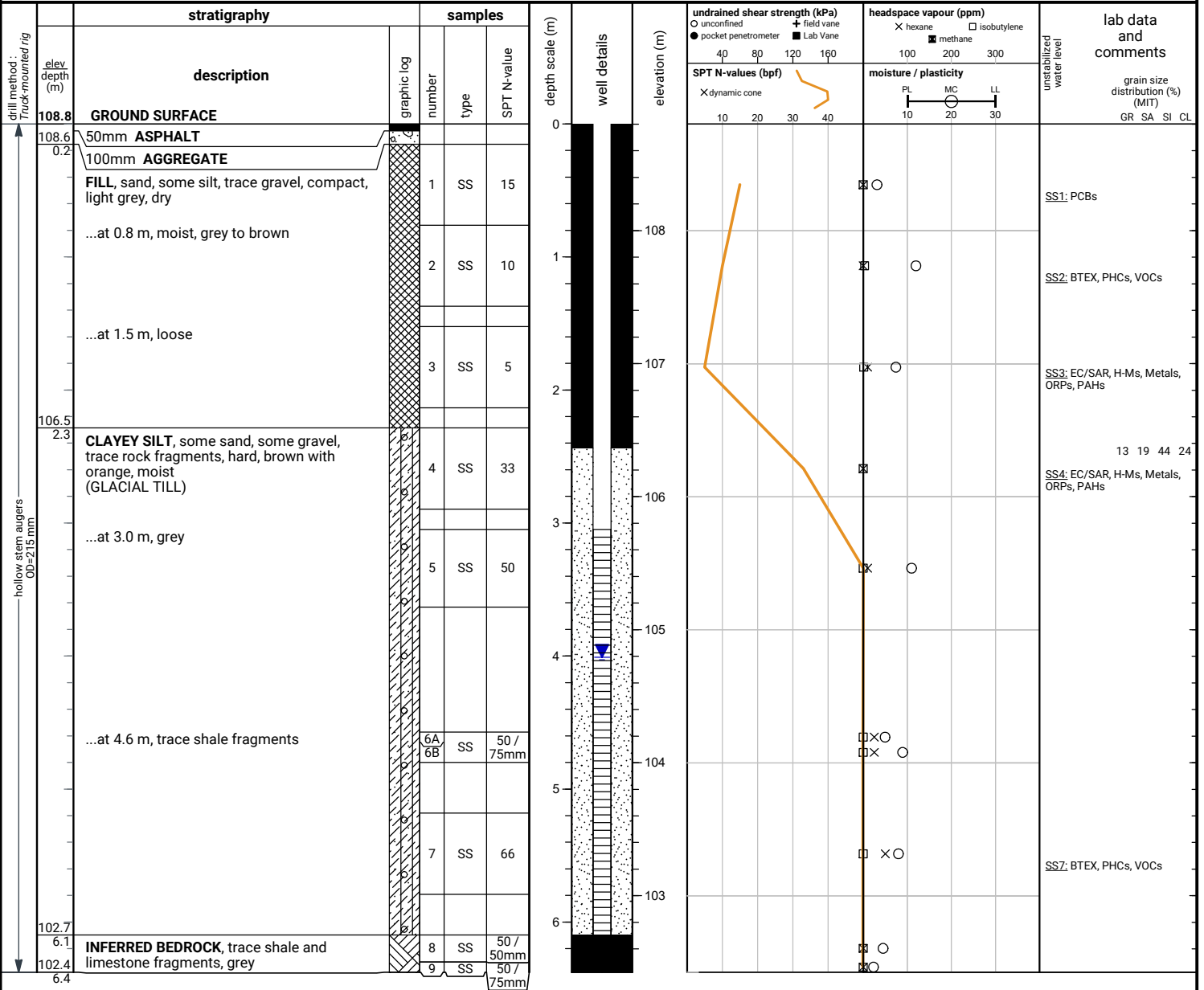


file: 21-067.gpj

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E



END OF BOREHOLE

Water level and cave not measured upon completion of drilling.

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

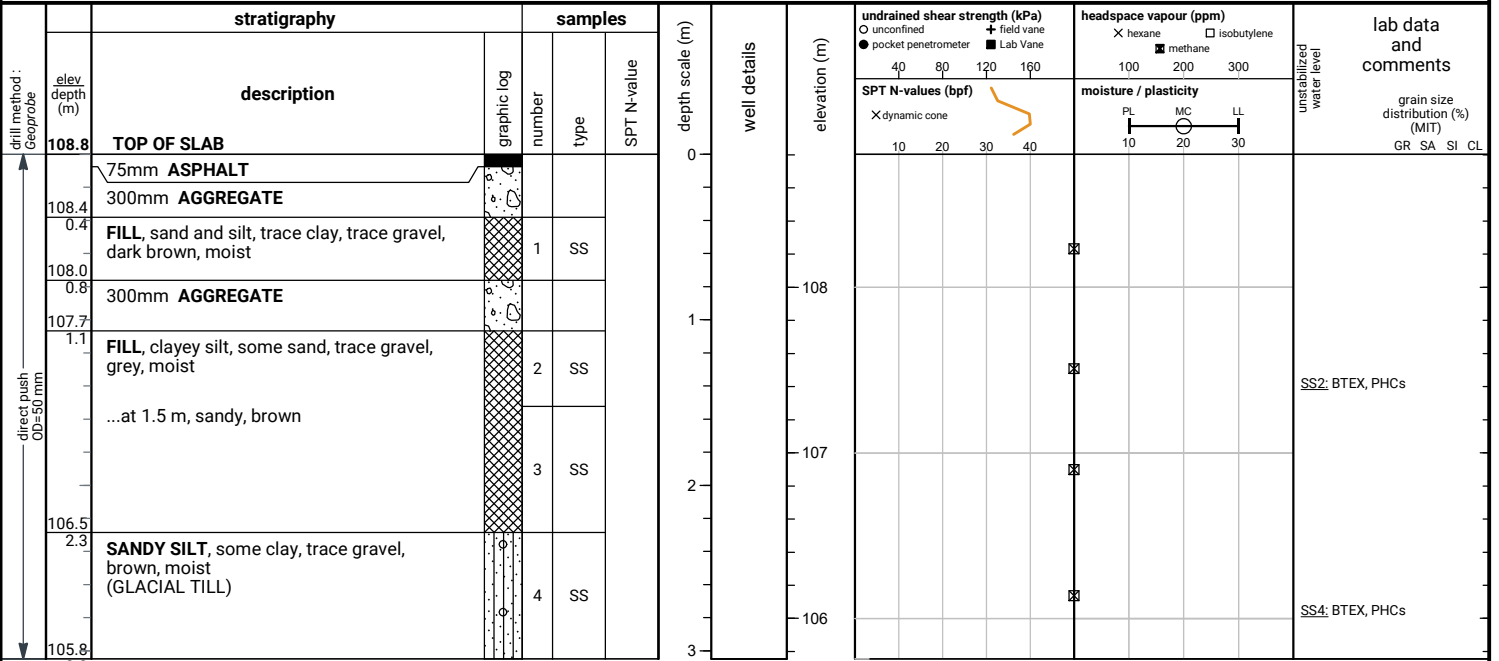
GROUNDWATER LEVELS

date	depth (m)	elevation (m)
Mar 21, 2022	3.9	104.9
Mar 22, 2022	4.3	104.5
Apr 17, 2022	4.0	104.8

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E



END OF BOREHOLE

Dry and open upon completion of drilling.

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E

drill method : Geoprobe	stratigraphy		samples			depth scale (m)	well details	elevation (m)	undrained shear strength (kPa) ○ unconfined + field vane ● pocket penetrometer ■ Lab Vane	headspace vapour (ppm) X hexane □ isobutylene ■ methane	lab data and comments
	elev. depth (m)	description	graphic log	number	type						
	108.8	TOP OF SLAB									
		65mm ASPHALT									
	108.5	300mm AGGREGATE									
	0.3	FILL , sand and silt, trace clay, trace gravel, trace asphalt, brown, moist		1	SS						
	108.0	380mm AGGREGATE									
	0.8	FILL , clayey silt, trace sand, trace gravel, trace brick fragments, grey, moist		2	SS						
	107.7	FILL , clayey silt, trace sand, trace gravel, trace brick fragments, grey, moist									
	1.1	FILL , clayey silt, trace sand, trace gravel, trace brick fragments, grey, moist									
	106.4	SANDY SILT , some clay, trace gravel, brown, moist (GLACIAL TILL)		4	SS						
	2.4	SANDY SILT , some clay, trace gravel, brown, moist (GLACIAL TILL)									
	105.8	SANDY SILT , some clay, trace gravel, brown, moist (GLACIAL TILL)									
	3.0	SANDY SILT , some clay, trace gravel, brown, moist (GLACIAL TILL)									

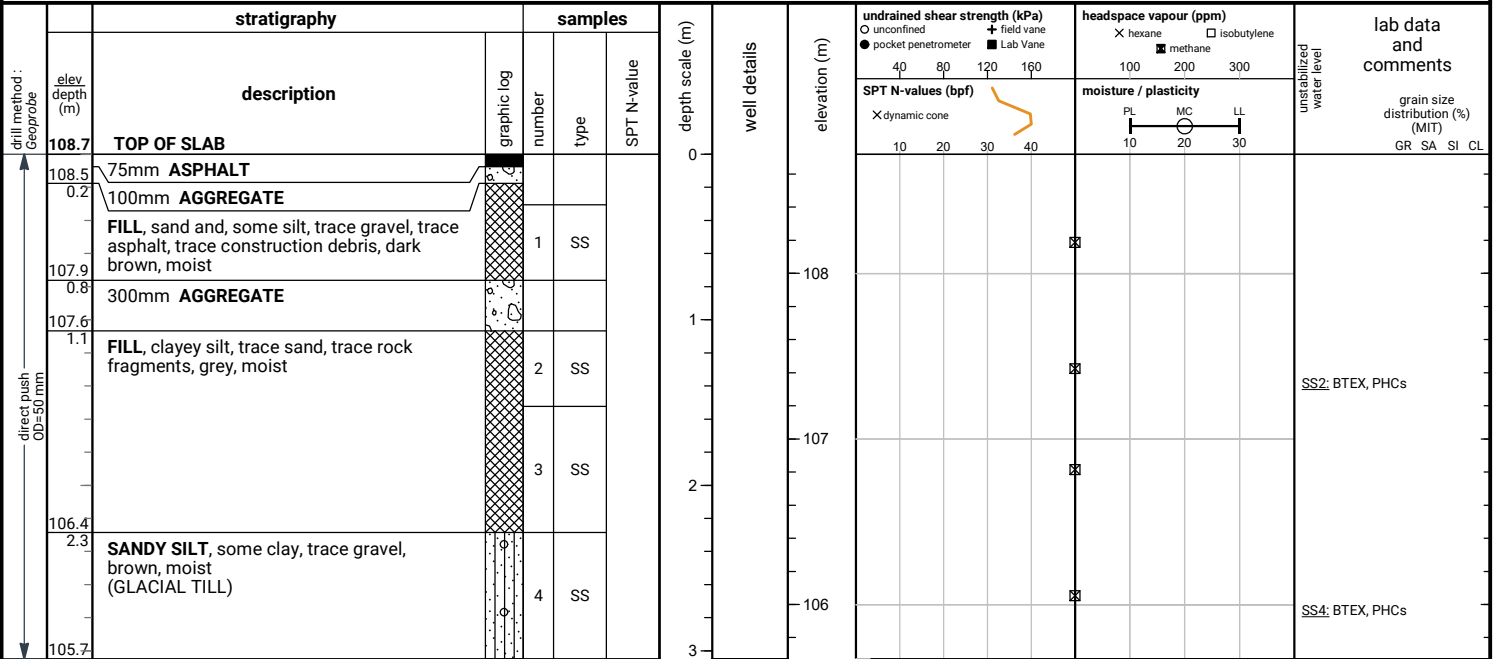
END OF BOREHOLE

Dry and open upon completion of drilling.

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E



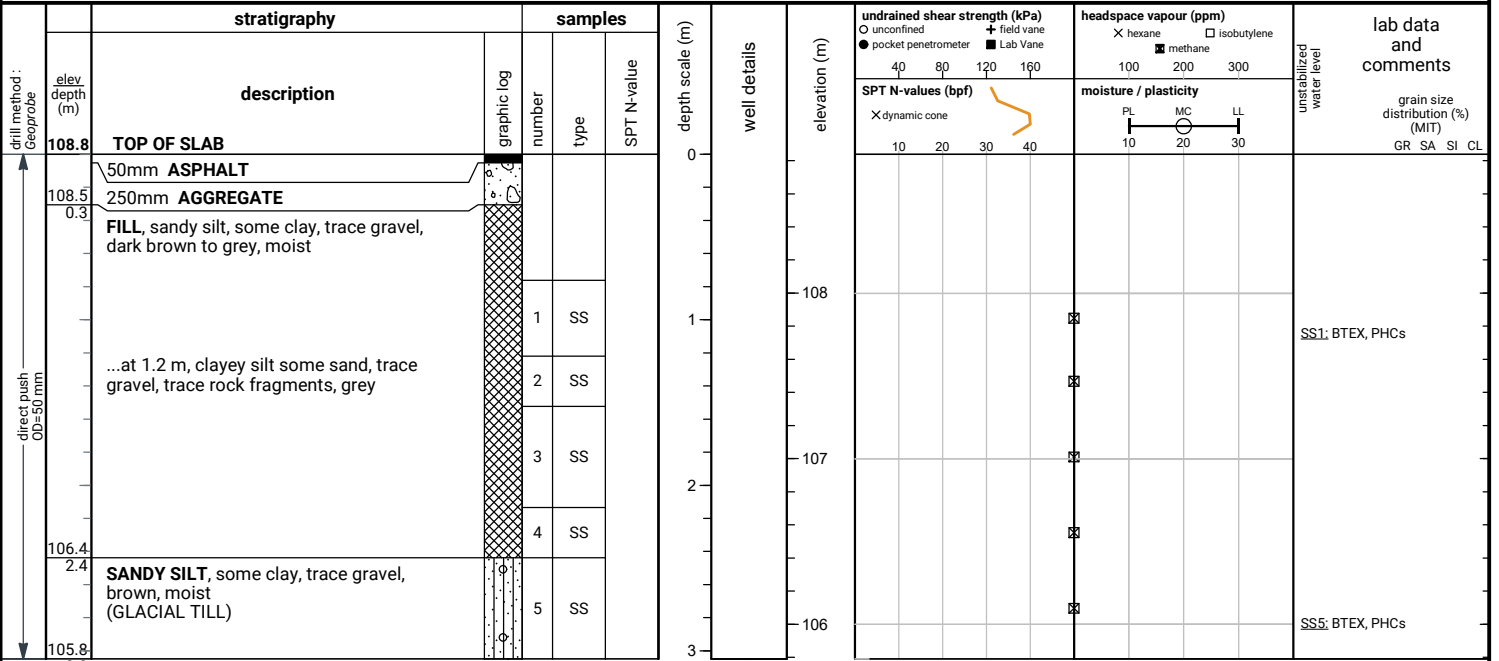
END OF BOREHOLE

Dry and open upon completion of drilling.

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E



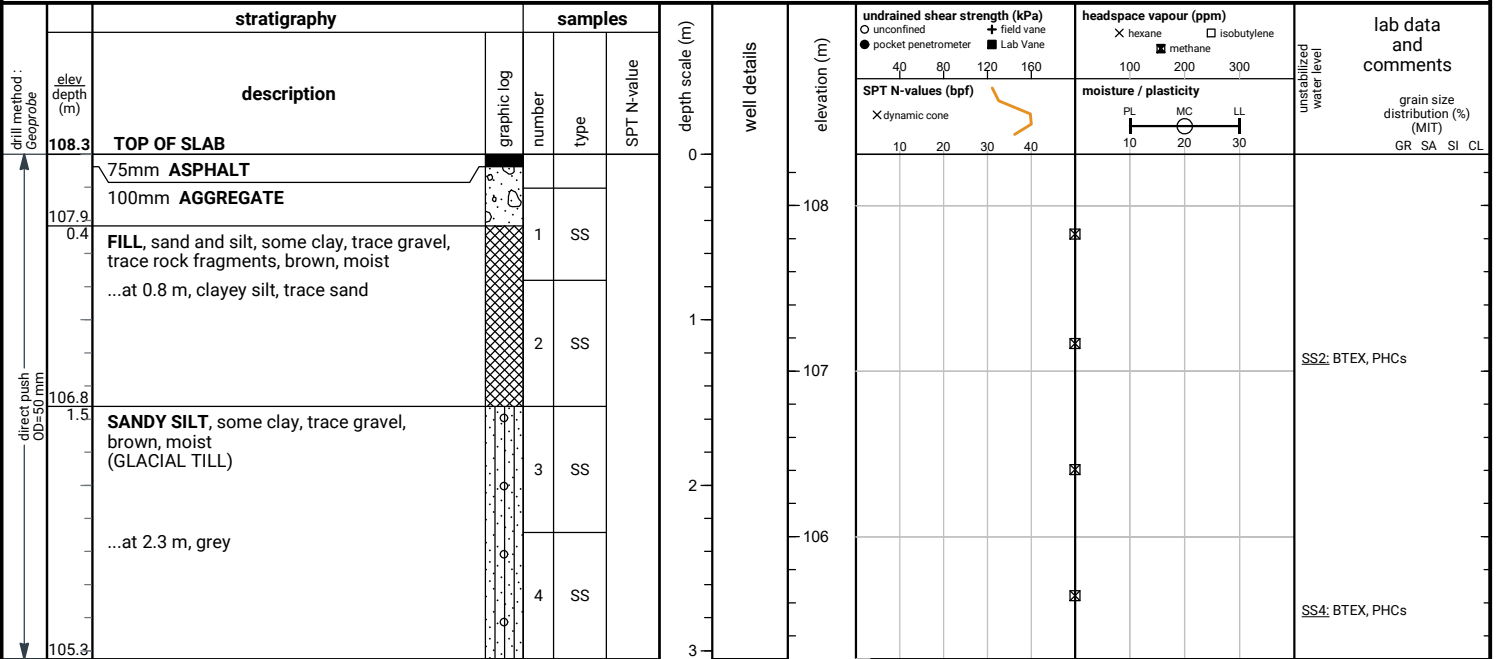
END OF BOREHOLE

Dry and open upon completion of drilling.

File No. : 21-067

Project : 60 Dundas Street East, Mississauga, ON

Client : ACLP - Dundas St E



END OF BOREHOLE

Dry and open upon completion of drilling.

APPENDIX D



SIEVE AND HYDROMETER ANALYSIS



Project Name : **60 Dundas St E, Mississauga**

Location : -

Client : -

Borehole : **201**

Sample : **5**

Sample Depth : **10'-12'**

SAMPLE DESCRIPTION: -

FILE : **21-067**

Submitted date : -

PM : **NP**

Tested date : **2022-03-23**

Test by : **IC**

COARSE SIEVES

SIEVE SIZE		CUM. WT. RET.	PERCENT RET.	PERCENT PASSING
Standard (mm)				
1.5"	37.5	0.00	0.0	100.0
3/4"	19.0	0.00	0.0	100.0
3/8"	9.5	7.56	2.7	97.3
No. 4	4.75	17.82	6.4	93.6
No. 10	2.00	37.83	13.6	86.4
PAN		278.44	100	0
Percent Loss After Sieving		0.00		

FINE SIEVES

SIEVE SIZE		CUM. WT. RET.	PERCENT RET.	PERCENT PASSING
Standard (mm)				
No. 16	1.180	2.49	5.0	82.1
No. 30	0.600	5.96	11.9	76.1
No. 50	0.300	9.40	18.8	70.2
No. 100	0.150	12.35	24.7	65.1
No. 200	0.075	14.85	29.7	60.7

(weight into hydrometer, or total weight (=C14) if seive)

HYGROSCOPIC MOISTURE CONTENT

Wt. of wet soil and tare (g)	83.12
Wt. of dry soil and tare (g)	83.03
Wt. of water (g)	0.09
Wt. of tare (g)	68.12
Wt. of wet soil (g) (W_w)	15.00
Wt. of dry soil (g) (W_d)	14.91
Water content (%)	0.60

LAB TECH NOTES

HYDROMETER

Hygroscopic Correction Factor	0.994000
Corrected Sample Weight (M_s)	49.70
Test sample represented by soil (W)	57.51
Gs Correction Factor	0.999933
Specific Gravity	2.650

Hydrometer Dimensions 152

(get backup 152 bulb)

L_2 14.0

V_b 67.0

A 27.8

or pull from table

corrected for meniscus

Date and time	TARGET Elapsed Time (min)	REAL Elapsed Time (min)	H_s in Divisions (G/L)	H_c in Divisions (G/L)	Temp. T_c (deg C)	Corrected Reading $R = H_s - H_c$	Percent Passing P in %	L1	L in cm	n in milliPoise	K
8:38 AM	1.0	1.0	33.5	4.0	25.0	29.5	51.29	4.8420	10.6370	8.9726	0.0129
8:39 AM	2.0	2.0	32.0	4.0	25.0	28.0	48.68	5.2520	11.0470	8.9726	0.0129
8:42 AM	5.0	5.0	29.0	4.0	25.0	25.0	43.46	5.7440	11.5390	8.9726	0.0129
8:52 AM	15.0	15.0	26.0	4.0	25.0	22.0	38.25	6.2360	12.0310	8.9726	0.0129
9:07 AM	30.0	30.0	24.5	4.0	25.0	20.5	35.64	6.4820	12.2770	8.9726	0.0129
9:37 AM	60.0	60.0	22.0	4.0	25.0	18.0	31.29	6.8920	12.6870	8.9726	0.0129
12:37 PM	240.0	240.0	18.5	4.0	25.0	14.5	25.21	7.4660	13.2610	8.9726	0.0129
8:37 AM	1440.0	1440.0	11.0	4.0	25.0	7.0	12.17	8.6960	14.4910	8.9726	0.0129

SIEVE AND HYDROMETER ANALYSIS

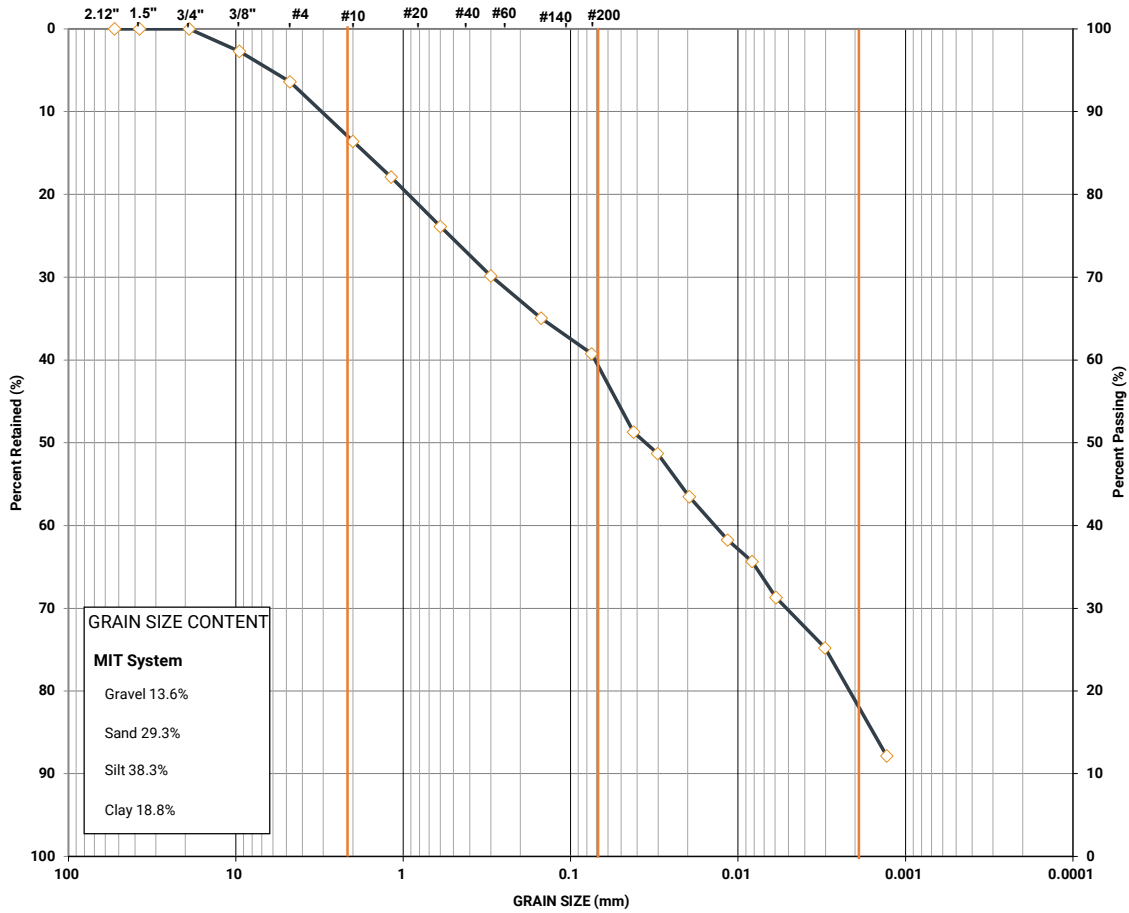


PROJECT: 60 Dundas St E, Mississauga
 LOCATION: -
 CLIENT: -
 Borehole: 201
 Sample: 5
 Sample Depth: 10'-12'
 SAMPLE DESCRIPTION: -

FILE NO.: 21-067
 LAB NO.: 0
 SAMPLE DATE: -
 SAMPLED BY: NP

GRAIN SIZE DISTRIBUTION

U.S. STANDARD SIEVE SIZES



MIT SYSTEM	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		
UNIFIED SYSTEM	GRAVEL		SAND			SILT AND CLAY	
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE AND HYDROMETER ANALYSIS



Project Name : **60 Dundas St E, Mississauga**
 Location : -
 Client : -
 Borehole : **202**
 Sample : **6**
 Sample Depth : **15'-17'**
 SAMPLE DESCRIPTION: -

FILE : **21-067**
 Submitted date : -
 PM : **NP**
 Tested date : **2022-03-23**
 Test by : **IC**

COARSE SIEVES

SIEVE SIZE		CUM. WT. RET.	PERCENT RET.	PERCENT PASSING
Standard	(mm)			
1.5"	37.5	0.00	0.0	100.0
3/4"	19.0	8.77	4.1	95.9
3/8"	9.5	21.49	10.0	90.0
No. 4	4.75	35.88	16.7	83.3
No. 10	2.00	65.02	30.3	69.7
PAN		214.36	100	0
Percent Loss After Sieving		0.00		

FINE SIEVES

(weight into hydrometer, or total weight (=C14) if seive)

SIEVE SIZE		CUM. WT. RET.	PERCENT RET.	PERCENT PASSING
Standard	(mm)			
No. 16	1.180	4.53	9.1	63.3
No. 30	0.600	9.79	19.6	56.0
No. 50	0.300	13.85	27.7	50.4
No. 100	0.150	17.34	34.7	45.5
No. 200	0.075	20.44	40.9	41.2

HYGROSCOPIC MOISTURE CONTENT

Wt. of wet soil and tare (g)	82.93
Wt. of dry soil and tare (g)	82.86
Wt. of water (g)	0.07
Wt. of tare (g)	67.93
Wt. of wet soil (g) (W_w)	15.00
Wt. of dry soil (g) (W_d)	14.93
Water content (%)	0.47

LAB TECH NOTES

HYDROMETER

Hygroscopic Correction Factor	0.995333
Corrected Sample Weight (M_c)	49.77
Test sample represented by soil (W)	71.43
Gs Correction Factor	0.999933
Specific Gravity	2.650

Hydrometer Dimensions 152
(get backup 152 bulb)

L_2 14.0
 V_b 67.0
 A 27.8

or pull from table

corrected for meniscus

Date and time	TARGET Elapsed Time (min)	REAL Elapsed Time (min)	H_s in Divisions (G/L)	H_c in Divisions (G/L)	Temp. T_c (deg C)	Corrected Reading $R = H_s - H_c$	Percent Passing P in %	L1	L in cm	n in milliPoise	K
9:00 AM	1.0	1.0	28.0	4.0	25.0	24.0	33.60	5.7440	11.5390	8.9726	0.0129
9:01 AM	2.0	2.0	25.5	4.0	25.0	21.5	30.10	6.3180	12.1130	8.9726	0.0129
9:04 AM	5.0	5.0	22.5	4.0	25.0	18.5	25.90	6.8100	12.6050	8.9726	0.0129
9:14 AM	15.0	15.0	19.5	4.0	25.0	15.5	21.70	7.3020	13.0970	8.9726	0.0129
9:29 AM	30.0	30.0	17.0	4.0	25.0	13.0	18.20	7.7120	13.5070	8.9726	0.0129
9:59 AM	60.0	60.0	15.5	4.0	25.0	11.5	16.10	7.9580	13.7530	8.9726	0.0129
12:59 PM	240.0	240.0	13.0	4.0	25.0	9.0	12.60	8.3680	14.1630	8.9726	0.0129
8:59 AM	1440.0	1440.0	8.0	4.0	25.0	4.0	5.60	9.1880	14.9830	8.9726	0.0129

SIEVE AND HYDROMETER ANALYSIS

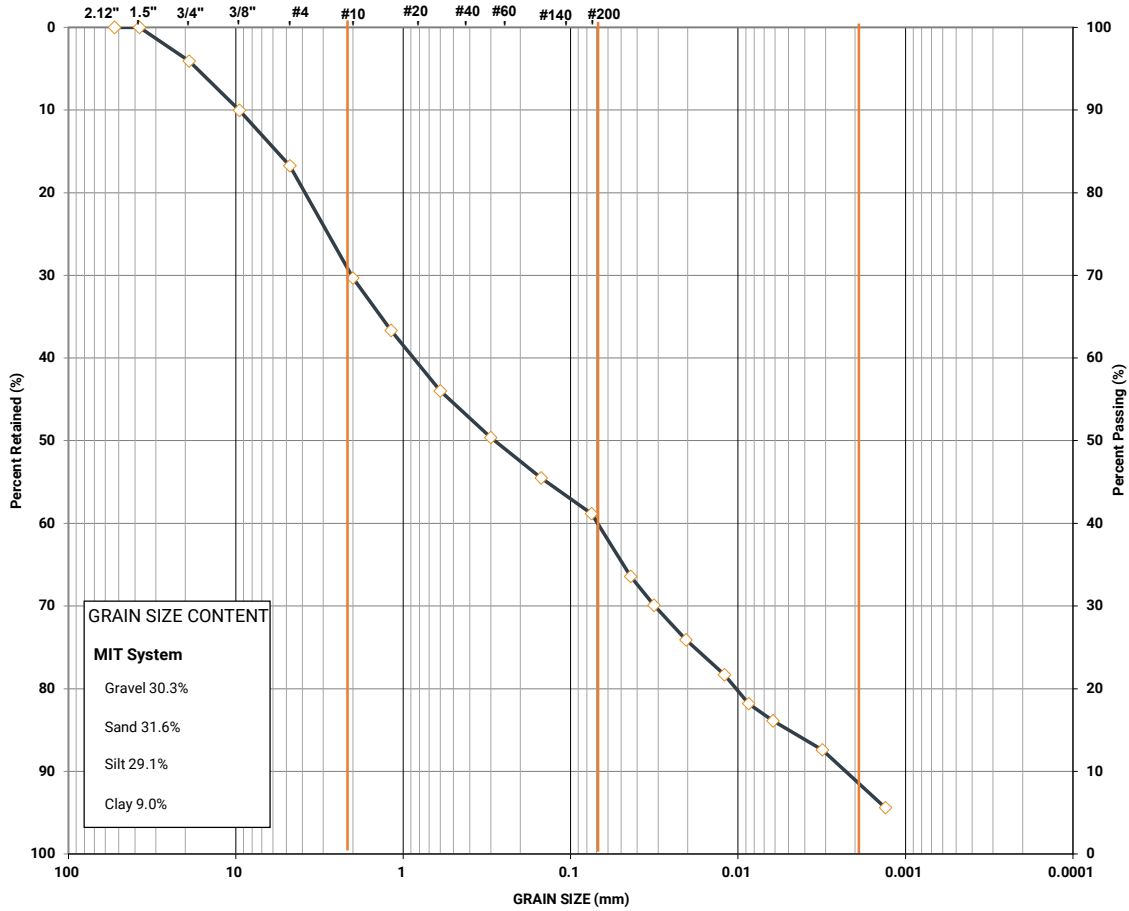


PROJECT: 60 Dundas St E, Mississauga
 LOCATION: -
 CLIENT: -
 Borehole: 202
 Sample: 6
 Sample Depth: 15'-17'
 SAMPLE DESCRIPTION: -

FILE NO.: 21-067
 LAB NO.: 0
 SAMPLE DATE: -
 SAMPLED BY: NP

GRAIN SIZE DISTRIBUTION

U.S. STANDARD SIEVE SIZES



MIT SYSTEM	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		
UNIFIED SYSTEM	GRAVEL		SAND			SILT AND CLAY	

SIEVE AND HYDROMETER ANALYSIS



Project Name : **60 Dundas St E, Mississauga**

Location : -

Client : -

Borehole : **203**

Sample : **3**

Sample Depth : **5'-7'**

SAMPLE DESCRIPTION: -

FILE : **21-067**

Submitted date : -

PM : **NP**

Tested date : **2022-03-23**

Test by : **IC**

COARSE SIEVES

SIEVE SIZE		CUM. WT. RET.	PERCENT RET.	PERCENT PASSING
Standard	(mm)			
1.5"	37.5	0.00	0.0	100.0
3/4"	19.0	0.00	0.0	100.0
3/8"	9.5	0.00	0.0	100.0
No. 4	4.75	3.09	1.9	98.1
No. 10	2.00	6.32	3.8	96.2
PAN		164.56	100	0
Percent Loss After Sieving		0.01		

FINE SIEVES

SIEVE SIZE		CUM. WT. RET.	PERCENT RET.	PERCENT PASSING
Standard	(mm)			
No. 16	1.180	0.47	0.9	95.3
No. 30	0.600	1.12	2.2	94.0
No. 50	0.300	11.53	23.1	73.9
No. 100	0.150	39.61	79.2	20.0
No. 200	0.075	42.92	85.8	13.7

(weight into hydrometer, or total weight (=C14) if seive)

HYGROSCOPIC MOISTURE CONTENT

Wt. of wet soil and tare (g)	82.68
Wt. of dry soil and tare (g)	82.63
Wt. of water (g)	0.05
Wt. of tare (g)	67.68
Wt. of wet soil (g) (W_w)	15.00
Wt. of dry soil (g) (W_d)	14.95
Water content (%)	0.33

LAB TECH NOTES

HYDROMETER

Hygroscopic Correction Factor	0.996667
Corrected Sample Weight (M_c)	49.83
Test sample represented by soil (W)	51.82
Gs Correction Factor	0.999933
Specific Gravity	2.650

Hydrometer Dimensions 152

(get backup 152 bulb)

L_2 14.0

V_b 67.0

A 27.8

or pull from table

corrected for meniscus

Date and time	TARGET Elapsed Time (min)	REAL Elapsed Time (min)	H_s in Divisions (G/L)	H_c in Divisions (G/L)	Temp. T_c (deg C)	Corrected Reading $R = H_s - H_c$	Percent Passing P in %	L1	L in cm	n in milliPoise	K
9:09 AM	1.0	1.0	10.0	4.0	25.0	6.0	11.58	8.6960	14.4910	8.9726	0.0129
9:10 AM	2.0	2.0	8.0	4.0	25.0	4.0	7.72	9.1880	14.9830	8.9726	0.0129
9:13 AM	5.0	5.0	8.0	4.0	25.0	4.0	7.72	9.1880	14.9830	8.9726	0.0129
9:23 AM	15.0	15.0	8.0	4.0	25.0	4.0	7.72	9.1880	14.9830	8.9726	0.0129
9:38 AM	30.0	30.0	8.0	4.0	25.0	4.0	7.72	9.1880	14.9830	8.9726	0.0129
10:08 AM	60.0	60.0	7.0	4.0	25.0	3.0	5.79	9.3520	15.1470	8.9726	0.0129
1:08 PM	240.0	240.0	6.5	4.0	25.0	2.5	4.82	9.4340	15.2290	8.9726	0.0129
9:08 AM	1440.0	1440.0	4.5	4.0	25.0	0.5	0.96	9.7620	15.5570	8.9726	0.0129

SIEVE AND HYDROMETER ANALYSIS

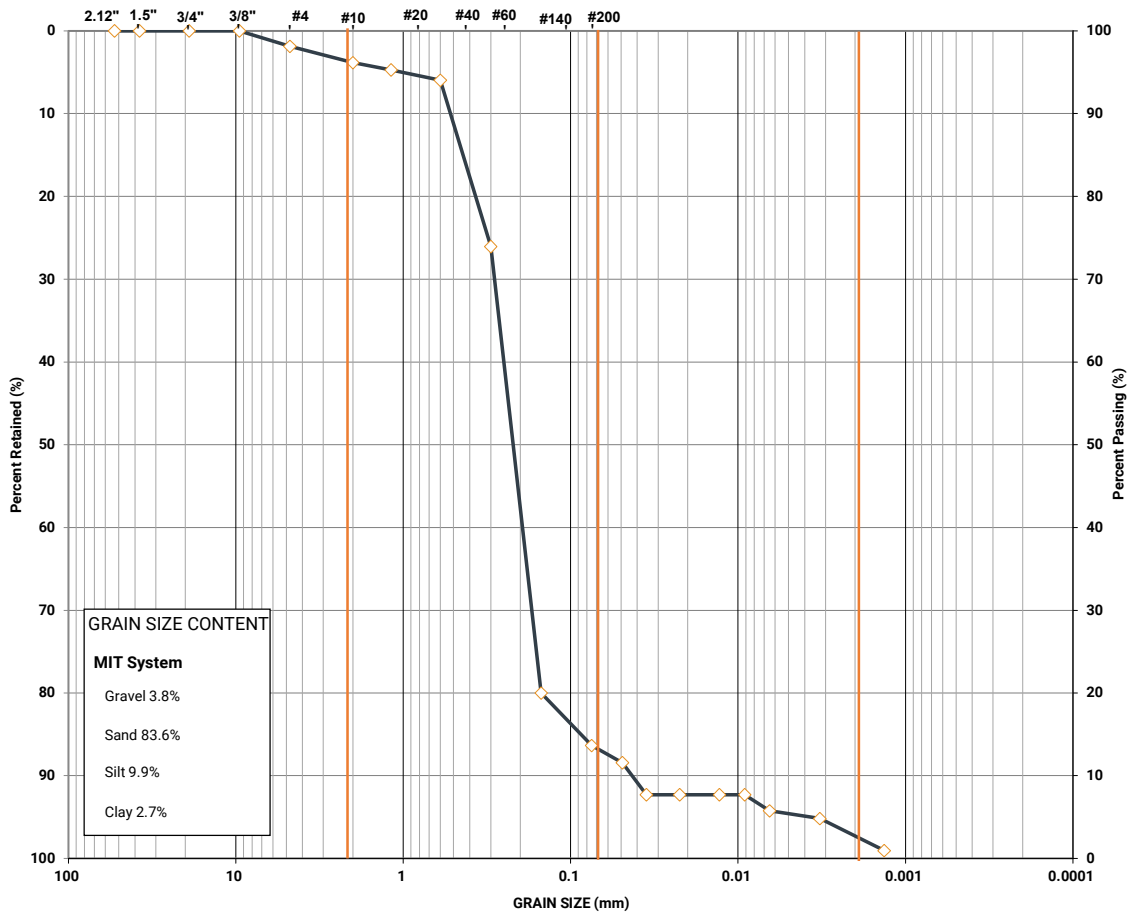


PROJECT: 60 Dundas St E, Mississauga
 LOCATION: -
 CLIENT: -
 Borehole: 203
 Sample: 3
 Sample Depth: 5'-7'
 SAMPLE DESCRIPTION: -

FILE NO.: 21-067
 LAB NO.: 0
 SAMPLE DATE: -
 SAMPLED BY: NP

GRAIN SIZE DISTRIBUTION

U.S. STANDARD SIEVE SIZES



MIT SYSTEM	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		
UNIFIED SYSTEM	GRAVEL		SAND			SILT AND CLAY	

SIEVE AND HYDROMETER ANALYSIS



Project Name : **60 Dundas St E, Mississauga**
 Location : -
 Client : -
 Borehole : **204**
 Sample : **2**
 Sample Depth : **2'6"-4'6"**
 SAMPLE DESCRIPTION: -

FILE : **21-067**
 Submitted date : -
 PM : **NP**
 Tested date : **2022-03-23**
 Test by : **IC**

COARSE SIEVES

SIEVE SIZE		CUM. WT. RET.	PERCENT RET.	PERCENT PASSING
Standard	(mm)			
1.5"	37.5	0.00	0.0	100.0
3/4"	19.0	0.00	0.0	100.0
3/8"	9.5	0.00	0.0	100.0
No. 4	4.75	8.50	4.6	95.4
No. 10	2.00	17.20	9.2	90.8
PAN		185.96	100	0
Percent Loss After Sieving		0.01		

FINE SIEVES

SIEVE SIZE		CUM. WT. RET.	PERCENT RET.	PERCENT PASSING
Standard	(mm)			
No. 16	1.180	1.03	2.1	88.8
No. 30	0.600	2.68	5.4	85.9
No. 50	0.300	6.87	13.7	78.3
No. 100	0.150	17.43	34.9	59.1
No. 200	0.075	22.24	44.5	50.4

(weight into hydrometer, or total weight (=C14) if seive)

HYGROSCOPIC MOISTURE CONTENT

Wt. of wet soil and tare (g)	84.23
Wt. of dry soil and tare (g)	84.07
Wt. of water (g)	0.16
Wt. of tare (g)	69.23
Wt. of wet soil (g) (W_w)	15.00
Wt. of dry soil (g) (W_d)	14.84
Water content (%)	1.08

LAB TECH NOTES

HYDROMETER

Hygroscopic Correction Factor	0.989333
Corrected Sample Weight (M_c)	49.47
Test sample represented by soil (W)	54.51
Gs Correction Factor	0.999933
Specific Gravity	2.650

Hydrometer Dimensions 152
 (get backup 152 bulb)

L_2 14.0
 V_b 67.0
 A 27.8

or pull from table

corrected for meniscus

Date and time	TARGET Elapsed Time (min)	REAL Elapsed Time (min)	H_s in Divisions (G/L)	H_c in Divisions (G/L)	Temp. T_c (deg C)	Corrected Reading $R = H_s - H_c$	Percent Passing P in %	L1	L in cm	n in milliPoise	K
8:30 AM	1.0	1.0	26.0	4.0	25.0	22.0	40.36	6.0720	11.8670	8.9726	0.0129
8:31 AM	2.0	2.0	24.0	4.0	25.0	20.0	36.69	6.5640	12.3590	8.9726	0.0129
8:34 AM	5.0	5.0	22.0	4.0	25.0	18.0	33.02	6.8920	12.6870	8.9726	0.0129
8:44 AM	15.0	15.0	21.0	4.0	25.0	17.0	31.19	7.0560	12.8510	8.9726	0.0129
8:59 AM	30.0	30.0	20.0	4.0	25.0	16.0	29.35	7.2200	13.0150	8.9726	0.0129
9:29 AM	60.0	60.0	18.0	4.0	25.0	14.0	25.68	7.5480	13.3430	8.9726	0.0129
12:29 PM	240.0	240.0	16.5	4.0	25.0	12.5	22.93	7.7940	13.5890	8.9726	0.0129
8:29 AM	1440.0	1440.0	11.0	4.0	25.0	7.0	12.84	8.6960	14.4910	8.9726	0.0129

SIEVE AND HYDROMETER ANALYSIS



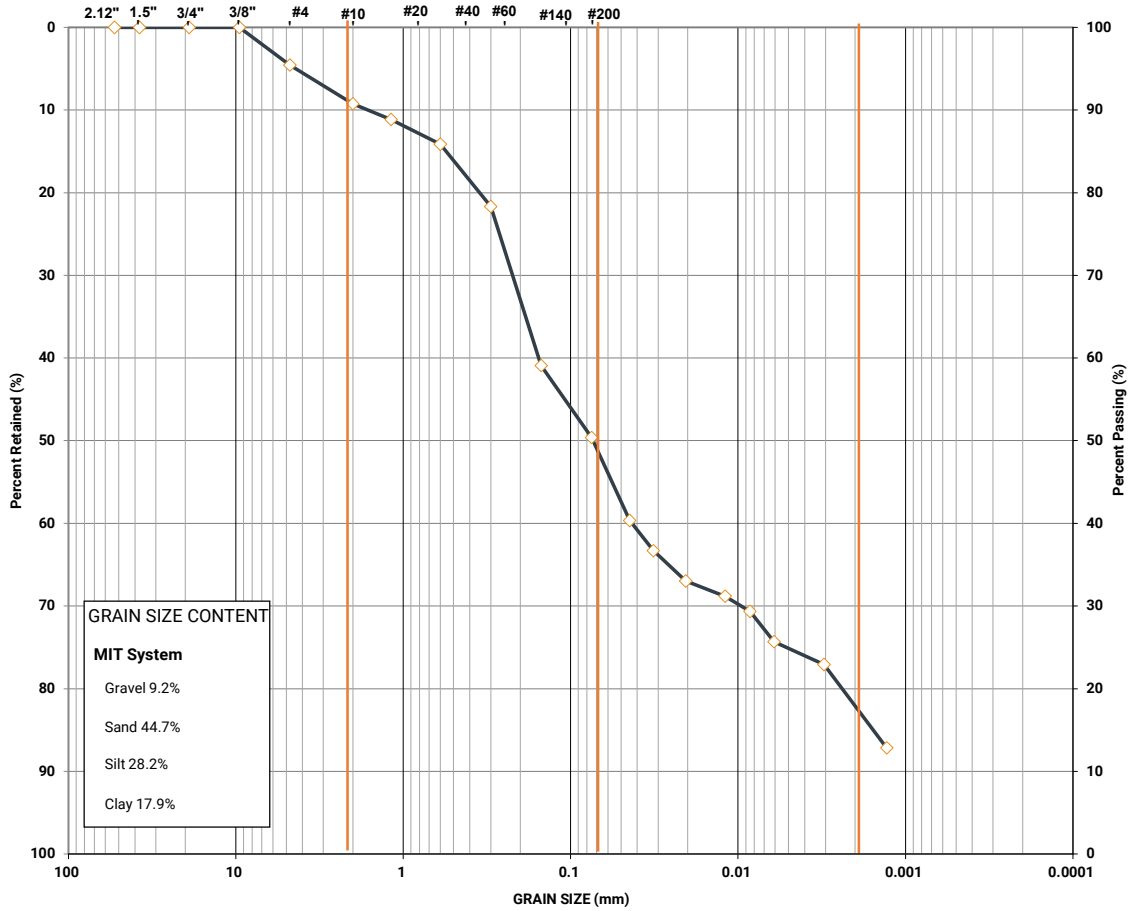
PROJECT: 60 Dundas St E, Mississauga
 LOCATION: -
 CLIENT: -
 Borehole: 204
 Sample: 2
 Sample Depth: 2'6"-4'6"

FILE NO.: 21-067
 LAB NO.: 0
 SAMPLE DATE: -
 SAMPLED BY: NP

SAMPLE DESCRIPTION: -

GRAIN SIZE DISTRIBUTION

U.S. STANDARD SIEVE SIZES



MIT SYSTEM	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		
UNIFIED SYSTEM	GRAVEL		SAND			SILT AND CLAY	

SIEVE AND HYDROMETER ANALYSIS



Project Name : **60 Dundas St E, Mississauga**
 Location : -
 Client : -
 Borehole : **205**
 Sample : **2**
 Sample Depth : **2'6"-4'6"**
 SAMPLE DESCRIPTION : -

FILE : **21-067**
 Submitted date : -
 PM : **NP**
 Tested date : **2022-03-23**
 Test by : **IC**

COARSE SIEVES

SIEVE SIZE		CUM. WT. RET.	PERCENT RET.	PERCENT PASSING
Standard	(mm)			
1.5"	37.5	0.00	0.0	100.0
3/4"	19.0	0.00	0.0	100.0
3/8"	9.5	3.64	2.3	97.7
No. 4	4.75	11.91	7.6	92.4
No. 10	2.00	25.73	16.4	83.6
PAN		157.25	100	0
Percent Loss After Sieving		0.01		

FINE SIEVES

SIEVE SIZE		CUM. WT. RET.	PERCENT RET.	PERCENT PASSING
Standard	(mm)			
No. 16	1.180	2.29	4.6	79.8
No. 30	0.600	5.64	11.3	74.2
No. 50	0.300	12.50	25.0	62.7
No. 100	0.150	24.09	48.2	43.3
No. 200	0.075	28.30	56.6	36.3

(weight into hydrometer, or total weight (=C14) if seive)

HYGROSCOPIC MOISTURE CONTENT

Wt. of wet soil and tare (g)	82.96
Wt. of dry soil and tare (g)	82.93
Wt. of water (g)	0.03
Wt. of tare (g)	67.96
Wt. of wet soil (g) (W _w)	15.00
Wt. of dry soil (g) (W _d)	14.97
Water content (%)	0.20

LAB TECH NOTES

HYDROMETER

Hygroscopic Correction Factor	0.998000
Corrected Sample Weight (M _c)	49.90
Test sample represented by soil (W)	59.66
Gs Correction Factor	0.999933
Specific Gravity	2.650

Hydrometer Dimensions 152
(get backup 152 bulb)

L₂ 14.0
 V_b 67.0
 A 27.8

or pull from table

corrected for meniscus

Date and time	TARGET Elapsed Time (min)	REAL Elapsed Time (min)	H _s in Divisions (G/L)	H _c in Divisions (G/L)	Temp. T _c (deg C)	Corrected Reading R = H _s -H _c	Percent Passing P in %	L1	L in cm	n in milliPoise	K
8:22 AM	1.0	1.0	20.5	4.0	25.0	16.5	27.65	6.9740	12.7690	8.9726	0.0129
8:23 AM	2.0	2.0	18.5	4.0	25.0	14.5	24.30	7.4660	13.2610	8.9726	0.0129
8:26 AM	5.0	5.0	17.0	4.0	25.0	13.0	21.79	7.7120	13.5070	8.9726	0.0129
8:36 AM	15.0	15.0	16.0	4.0	25.0	12.0	20.11	7.8760	13.6710	8.9726	0.0129
8:51 AM	30.0	30.0	15.0	4.0	25.0	11.0	18.44	8.0400	13.8350	8.9726	0.0129
9:21 AM	60.0	60.0	13.5	4.0	25.0	9.5	15.92	8.2860	14.0810	8.9726	0.0129
12:21 PM	240.0	240.0	13.0	4.0	25.0	9.0	15.08	8.3680	14.1630	8.9726	0.0129
8:21 AM	1440.0	1440.0	8.0	4.0	25.0	4.0	6.70	9.1880	14.9830	8.9726	0.0129

SIEVE AND HYDROMETER ANALYSIS

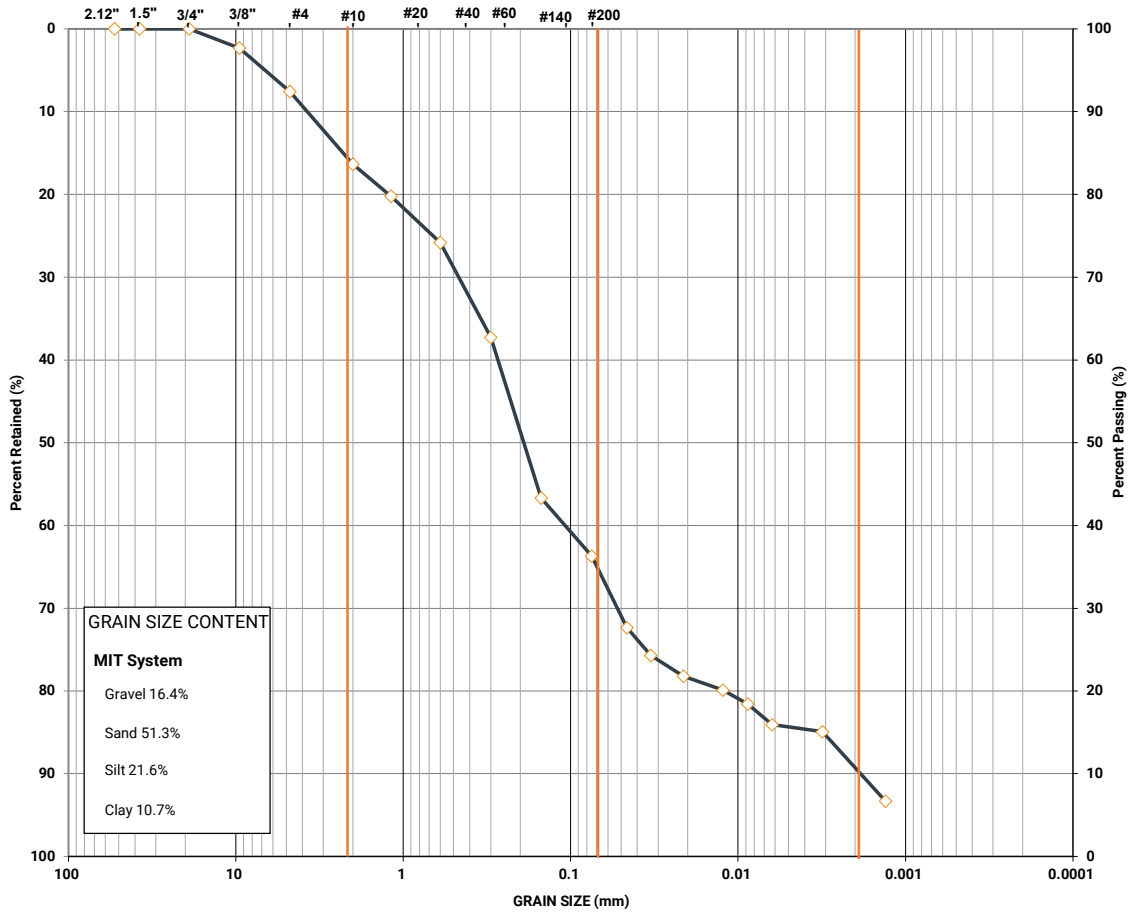


PROJECT: 60 Dundas St E, Mississauga
 LOCATION: -
 CLIENT: -
 Borehole: 205
 Sample: 2
 Sample Depth: 2'6"-4'6"
 SAMPLE DESCRIPTION: -

FILE NO.: 21-067
 LAB NO.: 0
 SAMPLE DATE: -
 SAMPLED BY: NP

GRAIN SIZE DISTRIBUTION

U.S. STANDARD SIEVE SIZES



GRAIN SIZE CONTENT
MIT System
 Gravel 16.4%
 Sand 51.3%
 Silt 21.6%
 Clay 10.7%

MIT SYSTEM	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		
UNIFIED SYSTEM	GRAVEL		SAND			SILT AND CLAY	

SIEVE AND HYDROMETER ANALYSIS



Project Name : **60 Dundas St E, Mississauga**

Location : -

Client : -

Borehole : **206**

Sample : **4**

Sample Depth : **7'6"-9'6"**

SAMPLE DESCRIPTION: -

FILE : **21-067**

Submitted date : -

PM : **NP**

Tested date : **2022-03-23**

Test by : **IC**

COARSE SIEVES

SIEVE SIZE		CUM. WT. RET.	PERCENT RET.	PERCENT PASSING
Standard	(mm)			
1.5"	37.5	0.00	0.0	100.0
3/4"	19.0	0.00	0.0	100.0
3/8"	9.5	3.18	1.4	98.6
No. 4	4.75	11.56	5.1	94.9
No. 10	2.00	36.07	16.0	84.0
PAN		225.49	100	0
Percent Loss After Sieving		0.00		

FINE SIEVES

SIEVE SIZE		CUM. WT. RET.	PERCENT RET.	PERCENT PASSING
Standard	(mm)			
No. 16	1.180	2.00	4.0	80.6
No. 30	0.600	4.99	10.0	75.6
No. 50	0.300	8.15	16.3	70.3
No. 100	0.150	11.00	22.0	65.5
No. 200	0.075	13.50	27.0	61.3

(weight into hydrometer, or total weight (=C14) if seive)

HYGROSCOPIC MOISTURE CONTENT

Wt. of wet soil and tare (g)	83.02
Wt. of dry soil and tare (g)	82.93
Wt. of water (g)	0.09
Wt. of tare (g)	68.02
Wt. of wet soil (g) (W_w)	15.00
Wt. of dry soil (g) (W_d)	14.91
Water content (%)	0.60

LAB TECH NOTES

HYDROMETER

Hygroscopic Correction Factor	0.994000
Corrected Sample Weight (M_c)	49.70
Test sample represented by soil (W)	59.16
Gs Correction Factor	0.999933
Specific Gravity	2.650

Hydrometer Dimensions 152

(get backup 152 bulb)

L_2 14.0

V_b 67.0

A 27.8

or pull from table

corrected for meniscus

Date and time	TARGET Elapsed Time (min)	REAL Elapsed Time (min)	H_s in Divisions (G/L)	H_c in Divisions (G/L)	Temp. T_c (deg C)	Corrected Reading $R = H_s - H_c$	Percent Passing P in %	L1	L in cm	n in milliPoise	K
9:42 AM	1.0	1.0	39.0	4.0	25.0	35.0	59.15	3.9400	9.7350	8.9726	0.0129
9:43 AM	2.0	2.0	36.5	4.0	25.0	32.5	54.93	4.5140	10.3090	8.9726	0.0129
9:46 AM	5.0	5.0	35.0	4.0	25.0	31.0	52.39	4.7600	10.5550	8.9726	0.0129
9:56 AM	15.0	15.0	33.0	4.0	25.0	29.0	49.01	5.0880	10.8830	8.9726	0.0129
10:11 AM	30.0	30.0	30.5	4.0	25.0	26.5	44.79	5.4980	11.2930	8.9726	0.0129
10:41 AM	60.0	60.0	24.0	4.0	25.0	20.0	33.80	6.5640	12.3590	8.9726	0.0129
1:41 PM	240.0	240.0	20.0	4.0	25.0	16.0	27.04	7.2200	13.0150	8.9726	0.0129
9:41 AM	1440.0	1440.0	13.0	4.0	25.0	9.0	15.21	8.3680	14.1630	8.9726	0.0129

SIEVE AND HYDROMETER ANALYSIS



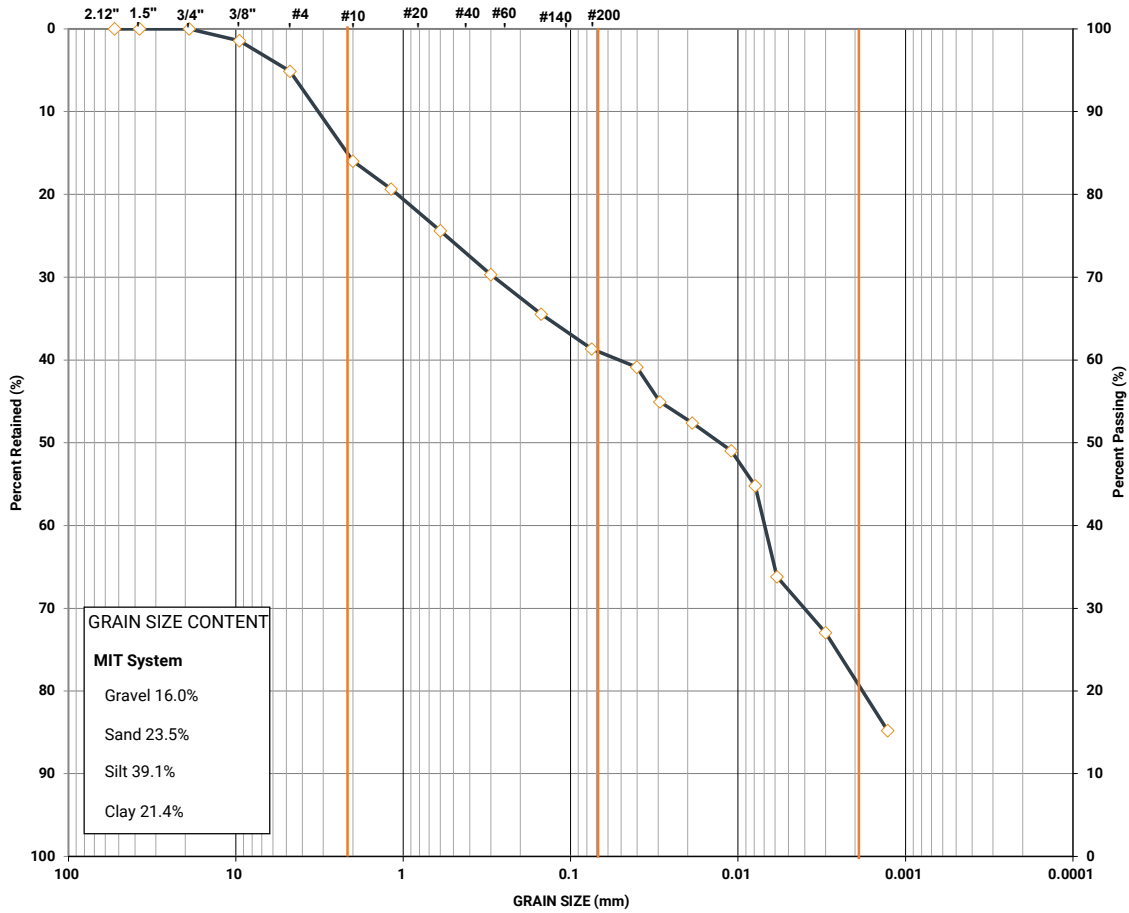
PROJECT: 60 Dundas St E, Mississauga
 LOCATION: -
 CLIENT: -
 Borehole: 206
 Sample: 4
 Sample Depth: 7'6"-9'6"

FILE NO.: 21-067
 LAB NO.: 0
 SAMPLE DATE: -
 SAMPLED BY: NP

SAMPLE DESCRIPTION: -

GRAIN SIZE DISTRIBUTION

U.S. STANDARD SIEVE SIZES



MIT SYSTEM	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		
UNIFIED SYSTEM	GRAVEL		SAND			SILT AND CLAY	

SIEVE AND HYDROMETER ANALYSIS



Project Name : **60 Dundas St E, Mississauga**

Location : -

Client : -

Borehole : **207**

Sample : **4**

Sample Depth : **7'6"-9'6"**

SAMPLE DESCRIPTION: -

FILE : **21-067**

Submitted date : -

PM : **NP**

Tested date : **2022-03-23**

Test by : **IC**

COARSE SIEVES

SIEVE SIZE		CUM. WT. RET.	PERCENT RET.	PERCENT PASSING
Standard	(mm)			
1.5"	37.5	0.00	0.0	100.0
3/4"	19.0	0.00	0.0	100.0
3/8"	9.5	5.47	3.2	96.8
No. 4	4.75	12.56	7.3	92.7
No. 10	2.00	21.90	12.7	87.3
PAN		172.37	100	0
Percent Loss After Sieving		0.01		

FINE SIEVES

SIEVE SIZE		CUM. WT. RET.	PERCENT RET.	PERCENT PASSING
Standard	(mm)			
No. 16	1.180	1.29	2.6	85.0
No. 30	0.600	3.20	6.4	81.7
No. 50	0.300	5.32	10.6	78.0
No. 100	0.150	7.67	15.3	73.9
No. 200	0.075	10.04	20.1	69.7

(weight into hydrometer, or total weight (=C14) if seive)

HYGROSCOPIC MOISTURE CONTENT

Wt. of wet soil and tare (g)	81.21
Wt. of dry soil and tare (g)	81.08
Wt. of water (g)	0.13
Wt. of tare (g)	66.21
Wt. of wet soil (g) (W_w)	15.00
Wt. of dry soil (g) (W_d)	14.87
Water content (%)	0.87

LAB TECH NOTES

HYDROMETER

Hygroscopic Correction Factor	0.991333
Corrected Sample Weight (M_s)	49.57
Test sample represented by soil (W)	56.78
Gs Correction Factor	0.999933
Specific Gravity	2.650

Hydrometer Dimensions 152

(get backup 152 bulb)

L_2 14.0

V_b 67.0

A 27.8

or pull from table

corrected for meniscus

Date and time	TARGET Elapsed Time (min)	REAL Elapsed Time (min)	H_s in Divisions (G/L)	H_c in Divisions (G/L)	Temp. T_c (deg C)	Corrected Reading $R = H_s - H_c$	Percent Passing P in %	L1	L in cm	n in milliPoise	K
9:25 AM	1.0	1.0	41.5	4.0	25.0	37.5	66.04	3.5300	9.3250	8.9726	0.0129
9:26 AM	2.0	2.0	39.0	4.0	25.0	35.0	61.64	4.1040	9.8990	8.9726	0.0129
9:29 AM	5.0	5.0	36.5	4.0	25.0	32.5	57.23	4.5140	10.3090	8.9726	0.0129
9:39 AM	15.0	15.0	34.0	4.0	25.0	30.0	52.83	4.9240	10.7190	8.9726	0.0129
9:54 AM	30.0	30.0	30.0	4.0	25.0	26.0	45.79	5.5800	11.3750	8.9726	0.0129
10:24 AM	60.0	60.0	27.0	4.0	25.0	23.0	40.50	6.0720	11.8670	8.9726	0.0129
1:24 PM	240.0	240.0	21.0	4.0	25.0	17.0	29.94	7.0560	12.8510	8.9726	0.0129
9:24 AM	1440.0	1440.0	14.5	4.0	25.0	10.5	18.49	8.1220	13.9170	8.9726	0.0129

SIEVE AND HYDROMETER ANALYSIS



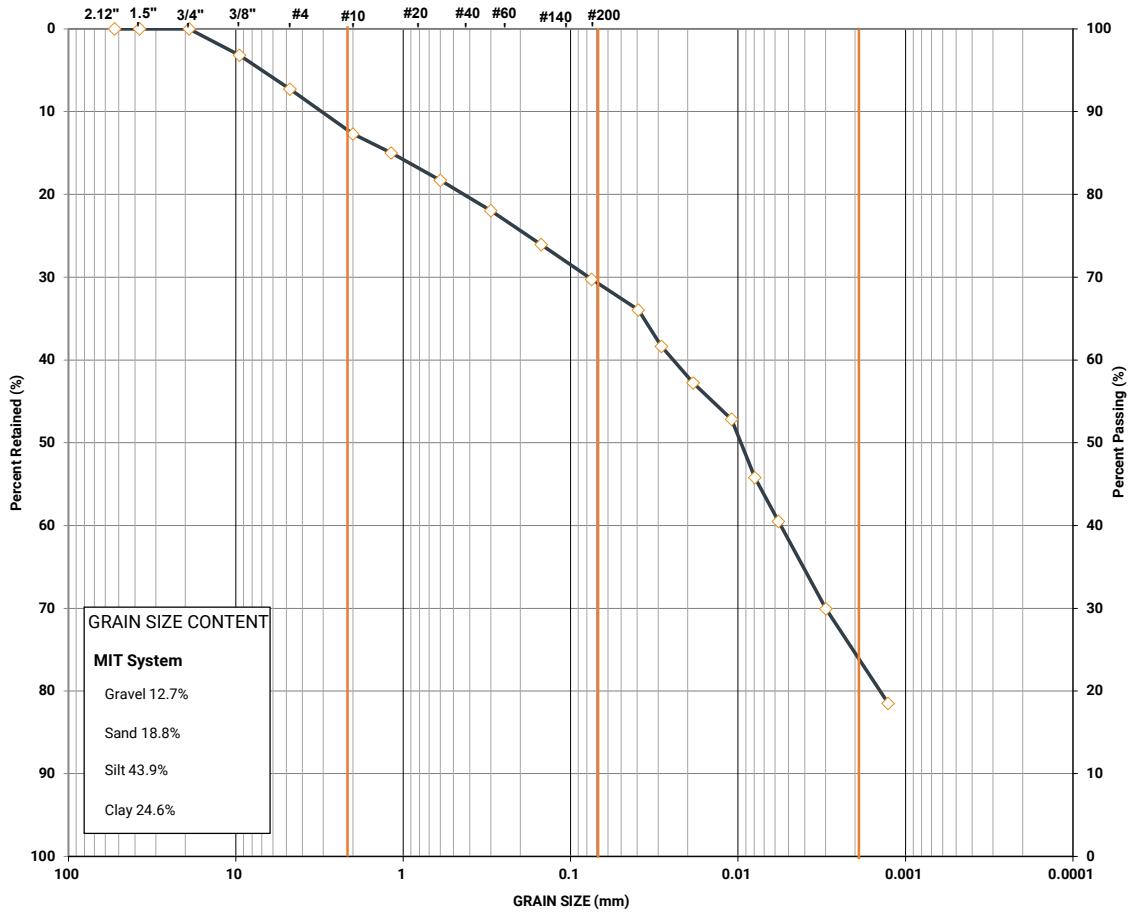
PROJECT: 60 Dundas St E, Mississauga
 LOCATION: -
 CLIENT: -
 Borehole: 207
 Sample: 4
 Sample Depth: 7'6"-9'6"

FILE NO.: 21-067
 LAB NO.: 0
 SAMPLE DATE: -
 SAMPLED BY: NP

SAMPLE DESCRIPTION: -

GRAIN SIZE DISTRIBUTION

U.S. STANDARD SIEVE SIZES



MIT SYSTEM	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		
UNIFIED SYSTEM	GRAVEL		SAND			SILT AND CLAY	

APPENDIX E





Grounded Engineering Inc
ATTN: ZENITH WONG
12 Banigan Drive
TORONTO ON M4H 1E9

Date Received: 04-MAY-21
Report Date: 12-MAY-21 13:27 (MT)
Version: FINAL

Client Phone: 647-264-7932

Certificate of Analysis

Lab Work Order #: L2583177
Project P.O. #: NOT SUBMITTED
Job Reference: 21-067
C of C Numbers: 20-888179, 20-888180
Legal Site Desc:

Jennifer Barkshire-Paterson
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

Summary of Guideline Exceedances

Guideline		Grouping	Analyte	Result	Guideline Limit	Unit
ALS ID	Client ID					
Ontario Regulation 153/04 - April 15, 2011 Standards - T8-Soil-Res/Park/Inst/Ind/Com/Commu Property Use						
L2583177-2	BH 101 SS2	Physical Tests	Conductivity	0.921	0.7	mS/cm
		Saturated Paste Extractables	SAR	17.6	5	SAR
L2583177-4	BH 101 SS4	Hydrocarbons	F2 (C10-C16)	13	10	ug/g
L2583177-6	BH 102 SS3	Physical Tests	Conductivity	1.37	0.7	mS/cm
		Saturated Paste Extractables	SAR	23.1	5	SAR
L2583177-10	BH 103 SS1	Physical Tests	Conductivity	1.85	0.7	mS/cm
		Saturated Paste Extractables	SAR	31.7	5	SAR
L2583177-12	BH 103 SS3B	Hydrocarbons	F2 (C10-C16)	21	10	ug/g
L2583177-14	DUP 1	Physical Tests	Conductivity	1.15	0.7	mS/cm
		Saturated Paste Extractables	SAR	20.2	5	SAR
L2583177-16	DUP 3	Hydrocarbons	F2 (C10-C16)	14	10	ug/g

ANALYTICAL REPORT

Physical Tests - SOIL

Lab ID	L2583177-1	L2583177-2	L2583177-3	L2583177-4	L2583177-5	L2583177-6	L2583177-7	L2583177-8	L2583177-9
Sample Date	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21
Sample ID	BH 101 SS1	BH 101 SS2	BH 101 SS3B	BH 101 SS4	BH 101 SS7	BH 102 SS3	BH 102 SS5	BH 102 SS6B	BH 102 SS7

Analyte	Unit	Guide Limits										
		#1	#2									
Conductivity	mS/cm	0.7	-	0.921					1.37			
% Moisture	%	-	-	9.80	9.35	9.70	9.41	7.72	5.77	22.8	8.55	7.05
pH	pH units	-	-	7.62					7.91			

Guide Limit #1: T8-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

- 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

Physical Tests - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2583177-10	L2583177-11	L2583177-12	L2583177-13	L2583177-14	L2583177-15	L2583177-16	L2583177-17	L2583177-18
		#1	#2	L2583177-10	03-MAY-21	BH 103 SS1	L2583177-10	L2583177-11	L2583177-12	L2583177-13	L2583177-14	L2583177-15	L2583177-16	L2583177-17	L2583177-18
Conductivity	mS/cm	0.7	-	L2583177-10	03-MAY-21	BH 103 SS1	1.85				1.15				
% Moisture	%	-	-	L2583177-10	03-MAY-21	BH 103 SS1	9.87	7.43	10.6	12.0	7.91	9.48	9.03	8.53	7.29
pH	pH units	-	-	L2583177-10	03-MAY-21	BH 103 SS1	7.87				7.97				

Guide Limit #1: T8-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

- 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

Cyanides - SOIL

Lab ID	L2583177-2	L2583177-6	L2583177-10	L2583177-14
Sample Date	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21
Sample ID	BH 101 SS2	BH 102 SS3	BH 103 SS1	DUP 1

Guide Limits

Analyte	Unit	#1	#2
---------	------	----	----

Cyanide, Weak Acid Diss	ug/g	0.051	-	<0.050	<0.050	<0.050	<0.050
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Guide Limit #1: T8-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

- 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.

Saturated Paste Extractables - SOIL

Lab ID	L2583177-2	L2583177-6	L2583177-10	L2583177-14
Sample Date	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21
Sample ID	BH 101 SS2	BH 102 SS3	BH 103 SS1	DUP 1

Analyte	Unit	Guide Limits					
		#1	#2				
SAR	SAR	5	-	17.6	23.1	31.7	20.2
Calcium (Ca)	mg/L	-	-	6.17	6.16	4.85	7.19
Magnesium (Mg)	mg/L	-	-	0.90	2.15	2.68	0.98
Sodium (Na)	mg/L	-	-	177	261	350	218

Guide Limit #1: T8-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

- 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.

Metals - SOIL

Analyte	Unit	Guide Limits					
		#1	#2				
		Lab ID	L2583177-2	L2583177-6	L2583177-10	L2583177-14	
		Sample Date	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21	
		Sample ID	BH 101 SS2	BH 102 SS3	BH 103 SS1	DUP 1	
Antimony (Sb)	ug/g	1.3	-	<1.0	<1.0	<1.0	<1.0
Arsenic (As)	ug/g	18	-	3.2	2.6	3.6	3.4
Barium (Ba)	ug/g	220	-	33.7	34.4	42.4	41.7
Beryllium (Be)	ug/g	2.5	-	<0.50	<0.50	<0.50	<0.50
Boron (B)	ug/g	36	-	<5.0	<5.0	<5.0	<5.0
Boron (B), Hot Water Ext.	ug/g	1.5	-	0.14	0.14	0.23	0.14
Cadmium (Cd)	ug/g	1.2	-	<0.50	<0.50	<0.50	<0.50
Chromium (Cr)	ug/g	70	-	9.5	8.4	10.9	10.6
Cobalt (Co)	ug/g	22	-	4.2	3.9	4.3	4.4
Copper (Cu)	ug/g	92	-	19.2	10.8	21.0	17.2
Lead (Pb)	ug/g	120	-	8.4	9.3	47.4	9.6
Mercury (Hg)	ug/g	0.27	-	0.0188	0.0241	0.0427	0.0217
Molybdenum (Mo)	ug/g	2	-	<1.0	<1.0	<1.0	<1.0
Nickel (Ni)	ug/g	82	-	9.2	7.5	9.0	8.9
Selenium (Se)	ug/g	1.5	-	<1.0	<1.0	<1.0	<1.0
Silver (Ag)	ug/g	0.5	-	<0.20	<0.20	<0.20	<0.20
Thallium (Tl)	ug/g	1	-	<0.50	<0.50	<0.50	<0.50
Uranium (U)	ug/g	2.5	-	<1.0	<1.0	<1.0	<1.0
Vanadium (V)	ug/g	86	-	17.9	16.5	20.7	20.7
Zinc (Zn)	ug/g	290	-	32.6	27.1	48.0	35.0

Guide Limit #1: T8-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

- 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

Lab ID	L2583177-2	L2583177-6	L2583177-10	L2583177-14
Sample Date	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21
Sample ID	BH 101 SS2	BH 102 SS3	BH 103 SS1	DUP 1

Analyte	Unit	Guide Limits					
		#1	#2				
Chromium, Hexavalent	ug/g	0.66	-	0.35	0.32	0.33	0.27

Guide Limit #1: T8-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

- 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		Lab ID	L2583177-4	L2583177-5	L2583177-8	L2583177-9	L2583177-12	L2583177-13	L2583177-16	L2583177-17
		#1	#2	Sample Date	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21
				Sample ID	BH 101 SS4	BH 101 SS7	BH 102 SS6B	BH 102 SS7	BH 103 SS3B	BH 103 SS5	DUP 3	DUP 4
Acetone	ug/g	0.5	-		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	ug/g	0.02	-	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon tetrachloride	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dibromoethane	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
trans-1,2-Dichloroethylene	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylene Chloride	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	ug/g	0.05	-		<0.050	<0.050	<0.050	<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	<0.030	<0.030	<0.030
trans-1,3-Dichloropropene	ug/g	-	-		<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
1,3-Dichloropropene (cis & trans)	ug/g	0.05	-		<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
Ethylbenzene	ug/g	0.05	-	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
n-Hexane	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Ethyl Ketone	ug/g	0.5	-		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	ug/g	0.5	-		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MTBE	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	ug/g	0.05	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Guide Limit #1: T8-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

Volatile Organic Compounds - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2583177-4	L2583177-5	L2583177-8	L2583177-9	L2583177-12	L2583177-13	L2583177-16	L2583177-17
		#1	#2	Sample Date	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21
				Sample ID	BH 101 SS4	BH 101 SS7	BH 102 SS6B	BH 102 SS7	BH 103 SS3B	BH 103 SS5	DUP 3	DUP 4
1,1,1,2-Tetrachloroethane	ug/g	0.05	-		<0.050			<0.050		<0.050		<0.050
1,1,2,2-Tetrachloroethane	ug/g	0.05	-		<0.050			<0.050		<0.050		<0.050
Tetrachloroethylene	ug/g	0.05	-		<0.050			<0.050		<0.050		<0.050
Toluene	ug/g	0.2	-	<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	-		<0.050			<0.050		<0.050		<0.050
1,1,2-Trichloroethane	ug/g	0.05	-		<0.050			<0.050		<0.050		<0.050
Trichloroethylene	ug/g	0.05	-		<0.010			<0.010		<0.010		<0.010
Trichlorofluoromethane	ug/g	0.25	-		<0.050			<0.050		<0.050		<0.050
Vinyl chloride	ug/g	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	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Surrogate: 4-Bromofluorobenzene	%	-	-	118.2	129.6	124.8	119.4	122.5	120.0	118.9	125.2	
Surrogate: 1,4-Difluorobenzene	%	-	-	112.6	113.4	119.1	107.0	113.8	108.6	112.5	111.5	

Guide Limit #1: T8-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

- 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

Lab ID	L2583177-4	L2583177-8	L2583177-12	L2583177-16
Sample Date	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21
Sample ID	BH 101 SS4	BH 102 SS6B	BH 103 SS3B	DUP 3

Analyte	Unit	Guide Limits					
		#1	#2				
F1 (C6-C10)	ug/g	25	-	<5.0	<5.0	<5.0	<5.0
F1-BTEX	ug/g	25	-	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	ug/g	10	-	13	<10	21	14
F3 (C16-C34)	ug/g	240	-	50	<50	67	<50
F4 (C34-C50)	ug/g	120	-	<50	<50	<50	<50
Total Hydrocarbons (C6-C50)	ug/g	-	-	<72	<72	88	<72
Chrom. to baseline at nC50		-	-	YES	YES	YES	YES
Surrogate: 2-Bromobenzotrifluoride	%	-	-	90.9	86.9	88.6	86.6
Surrogate: 3,4-Dichlorotoluene	%	-	-	106.4	124.0	95.6	81.2

Guide Limit #1: T8-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

- 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.

Polycyclic Aromatic Hydrocarbons - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2583177-1	L2583177-7	L2583177-11	L2583177-18
		#1	#2	Sample Date	03-MAY-21	03-MAY-21	03-MAY-21	03-MAY-21
				Sample ID	BH 101 SS1	BH 102 SS5	BH 103 SS2	DUP 5
Acenaphthene	ug/g	0.072	-	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	ug/g	0.093	-	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	ug/g	0.22	-	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)anthracene	ug/g	0.36	-	<0.050	0.094	<0.050	<0.050	<0.050
Benzo(a)pyrene	ug/g	0.3	-	<0.050	0.100	<0.050	<0.050	<0.050
Benzo(b&j)fluoranthene	ug/g	0.47	-	<0.050	0.112	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	ug/g	0.68	-	<0.050	0.078	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	ug/g	0.48	-	<0.050	0.111	<0.050	<0.050	<0.050
Chrysene	ug/g	2.8	-	<0.050	0.115	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	ug/g	0.1	-	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	ug/g	0.69	-	<0.050	0.214	<0.050	<0.050	<0.050
Fluorene	ug/g	0.19	-	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	ug/g	0.23	-	<0.050	0.076	<0.050	<0.050	<0.050
1+2-Methylnaphthalenes	ug/g	0.59	-	<0.042	<0.042	<0.042	<0.042	<0.042
1-Methylnaphthalene	ug/g	0.59	-	<0.030	<0.030	<0.030	<0.030	<0.030
2-Methylnaphthalene	ug/g	0.59	-	<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	ug/g	0.09	-	<0.013	<0.013	<0.013	<0.013	<0.013
Phenanthrene	ug/g	0.69	-	<0.046	0.086	<0.046	<0.046	<0.046
Pyrene	ug/g	1	-	<0.050	0.172	<0.050	<0.050	<0.050
Surrogate: 2-Fluorobiphenyl	%	-	-	81.6	86.1	82.0	78.9	
Surrogate: d14-Terphenyl	%	-	-	82.3	89.0	82.2	78.5	

Guide Limit #1: T8-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

- 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.

Polychlorinated Biphenyls - SOIL

Lab ID	L2583177-3	L2583177-8	L2583177-15
Sample Date	03-MAY-21	03-MAY-21	03-MAY-21
Sample ID	BH 101 SS3B	BH 102 SS6B	DUP 2

Analyte	Unit	Guide Limits				
		#1	#2			
Aroclor 1242	ug/g	-	-	<0.010	<0.010	<0.010
Aroclor 1248	ug/g	-	-	<0.010	<0.010	<0.010
Aroclor 1254	ug/g	-	-	<0.010	<0.010	<0.010
Aroclor 1260	ug/g	-	-	<0.010	<0.010	<0.010
Total PCBs	ug/g	0.3	-	<0.020	<0.020	<0.020
Surrogate: d14-Terphenyl	%	-	-	94.7	93.3	92.8

Guide Limit #1: T8-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

- 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.

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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B-HWS-R511-WT	Soil	Boron-HWE-O.Reg 153/04 (July 2011) HW EXTR, EPA 6010B	
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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).

BTX-511-HS-WT	Soil	BTEX-O.Reg 153/04 (July 2011)	SW846 8260
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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).

CN-WAD-R511-WT	Soil	Cyanide (WAD)-O.Reg 153/04 (July 2011)	MOE 3015/APHA 4500CN I-WAD
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The sample is extracted with a strong base for 16 hours, and then filtered. The filtrate is then distilled where the cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

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

CR-CR6-IC-WT	Soil	Hexavalent Chromium in Soil	SW846 3060A/7199
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This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.

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

EC-WT	Soil	Conductivity (EC)	MOEE E3138
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A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

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

F1-F4-511-CALC-WT	Soil	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-S
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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.

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
<p>Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:</p> <ol style="list-style-type: none"> 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
<p>Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.</p> <p>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).</p>			
F2-F4-511-WT	Soil	F2-F4-O.Reg 153/04 (July 2011)	CCME Tier 1
<p>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.</p> <p>Notes:</p> <ol style="list-style-type: none"> 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. <p>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).</p>			
HG-200.2-CVAA-WT	Soil	Mercury in Soil by CVAAS	EPA 200.2/1631E (mod)
<p>Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.</p> <p>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).</p>			
MET-200.2-CCMS-WT	Soil	Metals in Soil by CRC ICPMS	EPA 200.2/6020B (mod)
<p>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.</p> <p>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.</p> <p>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).</p>			
METHYLNAPS-CALC-WT	Soil	ABN-Calculated Parameters	SW846 8270
MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
PAH-511-WT	Soil	PAH-O.Reg 153/04 (July 2011)	SW846 3510/8270
<p>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.</p> <p>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).</p>			
PCB-511-WT	Soil	PCB-O.Reg 153/04 (July 2011)	SW846 3510/8082
<p>An aliquot of a solid sample is extracted with a solvent, extract is cleaned up and analyzed on the GC/MS.</p> <p>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).</p>			
PH-WT	Soil	pH	MOEE E3137A
<p>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.</p> <p>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).</p>			
SAR-R511-WT	Soil	SAR-O.Reg 153/04 (July 2011)	SW846 6010C
<p>A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using an 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.</p> <p>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).</p>			
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)
<p>Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.</p> <p>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).</p>			
XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION
<p>Total xylenes represents the sum of o-xylene and m&p-xylene.</p>			

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

Chain of Custody Numbers:

20-888179 20-888180

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

Reference Information

L2583177 CONT'D....
Job Reference: 21-067
PAGE 17 of 17
12-MAY-21 13:27 (MT)

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: L2583177

Report Date: 12-MAY-21

Page 1 of 14

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT								
	Soil							
Batch	R5455870							
WG3532119-4	DUP	L2583187-5						
Boron (B), Hot Water Ext.		0.17	0.15		ug/g	9.9	30	11-MAY-21
WG3532119-2	IRM	WT SAR4						
Boron (B), Hot Water Ext.			107.4		%		70-130	11-MAY-21
WG3532119-3	LCS							
Boron (B), Hot Water Ext.			101.0		%		70-130	11-MAY-21
WG3532119-1	MB							
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	11-MAY-21
BTX-511-HS-WT								
	Soil							
Batch	R5456196							
WG3529385-4	DUP	WG3529385-3						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	12-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	12-MAY-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	12-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	12-MAY-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	12-MAY-21
WG3529385-2	LCS							
Benzene			106.7		%		70-130	12-MAY-21
Ethylbenzene			105.0		%		70-130	12-MAY-21
m+p-Xylenes			105.1		%		70-130	12-MAY-21
o-Xylene			105.4		%		70-130	12-MAY-21
Toluene			106.2		%		70-130	12-MAY-21
WG3529385-1	MB							
Benzene			<0.0068		ug/g		0.0068	12-MAY-21
Ethylbenzene			<0.018		ug/g		0.018	12-MAY-21
m+p-Xylenes			<0.030		ug/g		0.03	12-MAY-21
o-Xylene			<0.020		ug/g		0.02	12-MAY-21
Toluene			<0.080		ug/g		0.08	12-MAY-21
Surrogate: 1,4-Difluorobenzene			121.5		%		50-140	12-MAY-21
Surrogate: 4-Bromofluorobenzene			123.9		%		50-140	12-MAY-21
WG3529385-5	MS	WG3529385-3						
Benzene			130.0		%		60-140	12-MAY-21
Ethylbenzene			120.2		%		60-140	12-MAY-21
m+p-Xylenes			121.3		%		60-140	12-MAY-21
o-Xylene			122.7		%		60-140	12-MAY-21
Toluene			124.6		%		60-140	12-MAY-21



Quality Control Report

Workorder: L2583177

Report Date: 12-MAY-21

Page 2 of 14

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-WAD-R511-WT								
	Soil							
Batch	R5455638							
WG3530885-7	DUP	L2583177-6						
Cyanide, Weak Acid Diss		<0.050	<0.050	RPD-NA	ug/g	N/A	35	11-MAY-21
WG3530885-6	LCS							
Cyanide, Weak Acid Diss			90.0		%		80-120	11-MAY-21
WG3530885-5	MB							
Cyanide, Weak Acid Diss			<0.050		ug/g		0.05	11-MAY-21
WG3530885-8	MS	L2583177-6						
Cyanide, Weak Acid Diss			93.0		%		70-130	11-MAY-21
CR-CR6-IC-WT								
	Soil							
Batch	R5455265							
WG3531081-4	CRM	WT-SQC012						
Chromium, Hexavalent			102.6		%		70-130	10-MAY-21
WG3531081-3	DUP	L2583177-6						
Chromium, Hexavalent		0.32	0.30		ug/g	7.4	35	10-MAY-21
WG3531081-2	LCS							
Chromium, Hexavalent			99.7		%		80-120	10-MAY-21
WG3531081-1	MB							
Chromium, Hexavalent			<0.20		ug/g		0.2	10-MAY-21
EC-WT								
	Soil							
Batch	R5455853							
WG3532227-4	DUP	WG3532227-3						
Conductivity		0.326	0.317		mS/cm	2.8	20	11-MAY-21
WG3532227-2	IRM	WT SAR4						
Conductivity			101.6		%		70-130	11-MAY-21
WG3532509-1	LCS							
Conductivity			103.5		%		90-110	11-MAY-21
WG3532227-1	MB							
Conductivity			<0.0040		mS/cm		0.004	11-MAY-21
F1-HS-511-WT								
	Soil							
Batch	R5456196							
WG3529385-4	DUP	WG3529385-3						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	12-MAY-21
WG3529385-2	LCS							
F1 (C6-C10)			113.2		%		80-120	12-MAY-21
WG3529385-1	MB							
F1 (C6-C10)			<5.0		ug/g		5	12-MAY-21
Surrogate: 3,4-Dichlorotoluene			119.2		%		60-140	12-MAY-21



Quality Control Report

Workorder: L2583177

Report Date: 12-MAY-21

Page 3 of 14

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	Soil							
Batch R5456196								
WG3529385-5 MS		WG3529385-3						
F1 (C6-C10)			112.2		%		60-140	12-MAY-21
F2-F4-511-WT	Soil							
Batch R5455153								
WG3530882-3 DUP		WG3530882-5						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	11-MAY-21
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	11-MAY-21
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	11-MAY-21
WG3530882-2 LCS								
F2 (C10-C16)			96.9		%		80-120	10-MAY-21
F3 (C16-C34)			96.7		%		80-120	10-MAY-21
F4 (C34-C50)			92.9		%		80-120	10-MAY-21
WG3530882-1 MB								
F2 (C10-C16)			<10		ug/g		10	10-MAY-21
F3 (C16-C34)			<50		ug/g		50	10-MAY-21
F4 (C34-C50)			<50		ug/g		50	10-MAY-21
Surrogate: 2-Bromobenzotrifluoride			93.8		%		60-140	10-MAY-21
WG3530882-4 MS		WG3530882-5						
F2 (C10-C16)			93.8		%		60-140	11-MAY-21
F3 (C16-C34)			95.8		%		60-140	11-MAY-21
F4 (C34-C50)			93.2		%		60-140	11-MAY-21
HG-200.2-CVAA-WT	Soil							
Batch R5455781								
WG3532225-2 CRM		WT-SS-2						
Mercury (Hg)			105.7		%		70-130	11-MAY-21
WG3532225-6 DUP		WG3532225-5						
Mercury (Hg)		0.0827	0.0780		ug/g	5.9	40	11-MAY-21
WG3532225-3 LCS								
Mercury (Hg)			107.5		%		80-120	11-MAY-21
WG3532225-1 MB								
Mercury (Hg)			<0.0050		mg/kg		0.005	11-MAY-21
MET-200.2-CCMS-WT	Soil							



Quality Control Report

Workorder: L2583177

Report Date: 12-MAY-21

Page 4 of 14

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5456371							
WG3532225-2	CRM	WT-SS-2						
Antimony (Sb)			96.4		%		70-130	11-MAY-21
Arsenic (As)			111.6		%		70-130	11-MAY-21
Barium (Ba)			111.1		%		70-130	11-MAY-21
Beryllium (Be)			104.5		%		70-130	11-MAY-21
Boron (B)			8.4		mg/kg		3.5-13.5	11-MAY-21
Cadmium (Cd)			108.0		%		70-130	11-MAY-21
Chromium (Cr)			104.8		%		70-130	11-MAY-21
Cobalt (Co)			111.1		%		70-130	11-MAY-21
Copper (Cu)			114.9		%		70-130	11-MAY-21
Lead (Pb)			104.1		%		70-130	11-MAY-21
Molybdenum (Mo)			100.6		%		70-130	11-MAY-21
Nickel (Ni)			114.1		%		70-130	11-MAY-21
Selenium (Se)			0.11		mg/kg		0-0.34	11-MAY-21
Silver (Ag)			112.8		%		70-130	11-MAY-21
Thallium (Tl)			0.073		mg/kg		0.029-0.129	11-MAY-21
Uranium (U)			91.9		%		70-130	11-MAY-21
Vanadium (V)			109.0		%		70-130	11-MAY-21
Zinc (Zn)			109.3		%		70-130	11-MAY-21
WG3532225-6	DUP	WG3532225-5						
Antimony (Sb)		0.19	0.18		ug/g	5.1	30	11-MAY-21
Arsenic (As)		2.38	2.11		ug/g	12	30	11-MAY-21
Barium (Ba)		44.9	42.1		ug/g	6.5	40	11-MAY-21
Beryllium (Be)		0.28	0.24		ug/g	14	30	11-MAY-21
Boron (B)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	11-MAY-21
Cadmium (Cd)		0.063	0.058		ug/g	8.8	30	11-MAY-21
Chromium (Cr)		14.1	12.5		ug/g	12	30	11-MAY-21
Cobalt (Co)		4.99	4.37		ug/g	13	30	11-MAY-21
Copper (Cu)		11.8	10.5		ug/g	12	30	11-MAY-21
Lead (Pb)		13.5	12.3		ug/g	9.4	40	11-MAY-21
Molybdenum (Mo)		0.17	0.18		ug/g	6.6	40	11-MAY-21
Nickel (Ni)		10.4	9.32		ug/g	11	30	11-MAY-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	11-MAY-21
Silver (Ag)		<0.10	0.12	RPD-NA	ug/g	N/A	40	11-MAY-21



Quality Control Report

Workorder: L2583177

Report Date: 12-MAY-21

Page 5 of 14

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT								
	Soil							
Batch	R5456371							
WG3532225-6	DUP	WG3532225-5						
Thallium (Tl)		0.069	0.065		ug/g	5.7	30	11-MAY-21
Uranium (U)		0.435	0.344		ug/g	23	30	11-MAY-21
Vanadium (V)		19.7	17.5		ug/g	12	30	11-MAY-21
Zinc (Zn)		31.9	29.0		ug/g	9.5	30	11-MAY-21
WG3532225-4	LCS							
Antimony (Sb)			106.6		%		80-120	11-MAY-21
Arsenic (As)			102.1		%		80-120	11-MAY-21
Barium (Ba)			100.6		%		80-120	11-MAY-21
Beryllium (Be)			99.0		%		80-120	11-MAY-21
Boron (B)			97.6		%		80-120	11-MAY-21
Cadmium (Cd)			99.6		%		80-120	11-MAY-21
Chromium (Cr)			100.6		%		80-120	11-MAY-21
Cobalt (Co)			101.1		%		80-120	11-MAY-21
Copper (Cu)			99.5		%		80-120	11-MAY-21
Lead (Pb)			101.5		%		80-120	11-MAY-21
Molybdenum (Mo)			100.3		%		80-120	11-MAY-21
Nickel (Ni)			98.7		%		80-120	11-MAY-21
Selenium (Se)			102.9		%		80-120	11-MAY-21
Silver (Ag)			103.3		%		80-120	11-MAY-21
Thallium (Tl)			101.6		%		80-120	11-MAY-21
Uranium (U)			98.5		%		80-120	11-MAY-21
Vanadium (V)			102.8		%		80-120	11-MAY-21
Zinc (Zn)			100.8		%		80-120	11-MAY-21
WG3532225-1	MB							
Antimony (Sb)			<0.10		mg/kg		0.1	11-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	11-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	11-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	11-MAY-21
Boron (B)			<5.0		mg/kg		5	11-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	11-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	11-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	11-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	11-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	11-MAY-21



Quality Control Report

Workorder: L2583177

Report Date: 12-MAY-21

Page 6 of 14

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT								
	Soil							
Batch	R5456371							
WG3532225-1	MB							
Molybdenum (Mo)			<0.10		mg/kg		0.1	11-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	11-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	11-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	11-MAY-21
Thallium (Tl)			<0.050		mg/kg		0.05	11-MAY-21
Uranium (U)			<0.050		mg/kg		0.05	11-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	11-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	11-MAY-21
MOISTURE-WT								
	Soil							
Batch	R5454644							
WG3530662-3	DUP	L2583177-1						
% Moisture		9.80	10.2		%	4.0	20	07-MAY-21
WG3530662-2	LCS							
% Moisture			99.2		%		90-110	07-MAY-21
WG3530662-1	MB							
% Moisture			<0.25		%		0.25	07-MAY-21
PAH-511-WT								
	Soil							
Batch	R5455082							
WG3530592-3	DUP	WG3530592-5						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	10-MAY-21
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	10-MAY-21
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21



Quality Control Report

Workorder: L2583177

Report Date: 12-MAY-21

Page 7 of 14

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT								
	Soil							
Batch	R5455082							
WG3530592-3	DUP	WG3530592-5						
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	10-MAY-21
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	10-MAY-21
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
WG3530592-2	LCS							
1-Methylnaphthalene			88.0		%		50-140	10-MAY-21
2-Methylnaphthalene			85.9		%		50-140	10-MAY-21
Acenaphthene			84.5		%		50-140	10-MAY-21
Acenaphthylene			79.1		%		50-140	10-MAY-21
Anthracene			73.9		%		50-140	10-MAY-21
Benzo(a)anthracene			82.2		%		50-140	10-MAY-21
Benzo(a)pyrene			72.6		%		50-140	10-MAY-21
Benzo(b&j)fluoranthene			71.0		%		50-140	10-MAY-21
Benzo(g,h,i)perylene			81.5		%		50-140	10-MAY-21
Benzo(k)fluoranthene			87.5		%		50-140	10-MAY-21
Chrysene			85.8		%		50-140	10-MAY-21
Dibenz(a,h)anthracene			80.5		%		50-140	10-MAY-21
Fluoranthene			82.3		%		50-140	10-MAY-21
Fluorene			83.5		%		50-140	10-MAY-21
Indeno(1,2,3-cd)pyrene			85.4		%		50-140	10-MAY-21
Naphthalene			84.3		%		50-140	10-MAY-21
Phenanthrene			86.8		%		50-140	10-MAY-21
Pyrene			82.0		%		50-140	10-MAY-21
WG3530592-1	MB							
1-Methylnaphthalene			<0.030		ug/g		0.03	10-MAY-21
2-Methylnaphthalene			<0.030		ug/g		0.03	10-MAY-21
Acenaphthene			<0.050		ug/g		0.05	10-MAY-21
Acenaphthylene			<0.050		ug/g		0.05	10-MAY-21
Anthracene			<0.050		ug/g		0.05	10-MAY-21
Benzo(a)anthracene			<0.050		ug/g		0.05	10-MAY-21
Benzo(a)pyrene			<0.050		ug/g		0.05	10-MAY-21
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	10-MAY-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	10-MAY-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	10-MAY-21
Chrysene			<0.050		ug/g		0.05	10-MAY-21



Quality Control Report

Workorder: L2583177

Report Date: 12-MAY-21

Page 8 of 14

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT								
	Soil							
Batch	R5455082							
WG3530592-1 MB								
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	10-MAY-21
Fluoranthene			<0.050		ug/g		0.05	10-MAY-21
Fluorene			<0.050		ug/g		0.05	10-MAY-21
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	10-MAY-21
Naphthalene			<0.013		ug/g		0.013	10-MAY-21
Phenanthrene			<0.046		ug/g		0.046	10-MAY-21
Pyrene			<0.050		ug/g		0.05	10-MAY-21
Surrogate: 2-Fluorobiphenyl			83.2		%		50-140	10-MAY-21
Surrogate: d14-Terphenyl			81.7		%		50-140	10-MAY-21
WG3530592-4 MS		WG3530592-5						
1-Methylnaphthalene			86.6		%		50-140	10-MAY-21
2-Methylnaphthalene			84.6		%		50-140	10-MAY-21
Acenaphthene			84.2		%		50-140	10-MAY-21
Acenaphthylene			81.6		%		50-140	10-MAY-21
Anthracene			74.4		%		50-140	10-MAY-21
Benzo(a)anthracene			88.9		%		50-140	10-MAY-21
Benzo(a)pyrene			75.2		%		50-140	10-MAY-21
Benzo(b&j)fluoranthene			72.8		%		50-140	10-MAY-21
Benzo(g,h,i)perylene			77.3		%		50-140	10-MAY-21
Benzo(k)fluoranthene			98.9		%		50-140	10-MAY-21
Chrysene			82.3		%		50-140	10-MAY-21
Dibenz(a,h)anthracene			79.2		%		50-140	10-MAY-21
Fluoranthene			82.7		%		50-140	10-MAY-21
Fluorene			84.9		%		50-140	10-MAY-21
Indeno(1,2,3-cd)pyrene			91.1		%		50-140	10-MAY-21
Naphthalene			81.6		%		50-140	10-MAY-21
Phenanthrene			83.2		%		50-140	10-MAY-21
Pyrene			81.4		%		50-140	10-MAY-21
PCB-511-WT								
	Soil							
Batch	R5455032							
WG3530592-3 DUP		WG3530592-5						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	10-MAY-21
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	10-MAY-21
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	10-MAY-21



Quality Control Report

Workorder: L2583177

Report Date: 12-MAY-21

Page 9 of 14

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-511-WT								
	Soil							
Batch	R5455032							
WG3530592-3	DUP	WG3530592-5						
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	10-MAY-21
WG3530592-2	LCS							
Aroclor 1242			87.1		%		60-140	10-MAY-21
Aroclor 1248			93.8		%		60-140	10-MAY-21
Aroclor 1254			92.3		%		60-140	10-MAY-21
Aroclor 1260			93.3		%		60-140	10-MAY-21
WG3530592-1	MB							
Aroclor 1242			<0.010		ug/g		0.01	10-MAY-21
Aroclor 1248			<0.010		ug/g		0.01	10-MAY-21
Aroclor 1254			<0.010		ug/g		0.01	10-MAY-21
Aroclor 1260			<0.010		ug/g		0.01	10-MAY-21
Surrogate: d14-Terphenyl			87.2		%		60-140	10-MAY-21
WG3530592-4	MS	WG3530592-5						
Aroclor 1242			85.6		%		60-140	10-MAY-21
Aroclor 1254			87.8		%		60-140	10-MAY-21
Aroclor 1260			86.8		%		60-140	10-MAY-21
PH-WT								
	Soil							
Batch	R5454566							
WG3530733-1	DUP	WG3530733-2						
pH		7.66	7.59	J	pH units	0.07	0.3	07-MAY-21
WG3531033-1	LCS							
pH			6.94		pH units		6.9-7.1	07-MAY-21
SAR-R511-WT								
	Soil							
Batch	R5455888							
WG3532227-4	DUP	WG3532227-3						
Calcium (Ca)		22.9	22.9		mg/L	0.0	30	11-MAY-21
Sodium (Na)		41.5	40.4		mg/L	2.7	30	11-MAY-21
Magnesium (Mg)		1.63	1.59		mg/L	2.5	30	11-MAY-21
WG3532227-2	IRM	WT SAR4						
Calcium (Ca)			91.1		%		70-130	11-MAY-21
Sodium (Na)			94.3		%		70-130	11-MAY-21
Magnesium (Mg)			94.9		%		70-130	11-MAY-21
WG3532227-5	LCS							
Calcium (Ca)			108.3		%		80-120	11-MAY-21
Sodium (Na)			101.6		%		80-120	11-MAY-21



Quality Control Report

Workorder: L2583177

Report Date: 12-MAY-21

Page 10 of 14

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAR-R511-WT		Soil						
Batch	R5455888							
WG3532227-5	LCS							
Magnesium (Mg)			103.6		%		80-120	11-MAY-21
WG3532227-1	MB							
Calcium (Ca)			<0.50		mg/L		0.5	11-MAY-21
Sodium (Na)			<0.50		mg/L		0.5	11-MAY-21
Magnesium (Mg)			<0.50		mg/L		0.5	11-MAY-21
VOC-511-HS-WT		Soil						
Batch	R5455597							
WG3529872-4	DUP	WG3529872-3						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	11-MAY-21
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	11-MAY-21
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	11-MAY-21
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	11-MAY-21



Quality Control Report

Workorder: L2583177

Report Date: 12-MAY-21

Page 11 of 14

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5455597							
WG3529872-4	DUP	WG3529872-3						
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	11-MAY-21
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	11-MAY-21
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	11-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	11-MAY-21
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	11-MAY-21
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	11-MAY-21
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	11-MAY-21
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	11-MAY-21
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	11-MAY-21
WG3529872-2	LCS							
1,1,1,2-Tetrachloroethane			104.6		%		60-130	11-MAY-21
1,1,2,2-Tetrachloroethane			107.8		%		60-130	11-MAY-21
1,1,1-Trichloroethane			101.1		%		60-130	11-MAY-21
1,1,2-Trichloroethane			98.6		%		60-130	11-MAY-21
1,1-Dichloroethane			100.4		%		60-130	11-MAY-21
1,1-Dichloroethylene			101.5		%		60-130	11-MAY-21
1,2-Dibromoethane			98.3		%		70-130	11-MAY-21
1,2-Dichlorobenzene			96.7		%		70-130	11-MAY-21
1,2-Dichloroethane			93.7		%		60-130	11-MAY-21
1,2-Dichloropropane			97.2		%		70-130	11-MAY-21
1,3-Dichlorobenzene			98.7		%		70-130	11-MAY-21
1,4-Dichlorobenzene			99.1		%		70-130	11-MAY-21
Acetone			104.3		%		60-140	11-MAY-21
Benzene			97.4		%		70-130	11-MAY-21
Bromodichloromethane			103.4		%		50-140	11-MAY-21
Bromoform			115.4		%		70-130	11-MAY-21
Bromomethane			95.2		%		50-140	11-MAY-21



Quality Control Report

Workorder: L2583177

Report Date: 12-MAY-21

Page 12 of 14

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5455597							
WG3529872-2	LCS							
Carbon tetrachloride			104.9		%		70-130	11-MAY-21
Chlorobenzene			96.7		%		70-130	11-MAY-21
Chloroform			103.5		%		70-130	11-MAY-21
cis-1,2-Dichloroethylene			103.3		%		70-130	11-MAY-21
cis-1,3-Dichloropropene			93.8		%		70-130	11-MAY-21
Dibromochloromethane			102.3		%		60-130	11-MAY-21
Dichlorodifluoromethane			83.5		%		50-140	11-MAY-21
Ethylbenzene			100.2		%		70-130	11-MAY-21
n-Hexane			95.2		%		70-130	11-MAY-21
Methylene Chloride			101.9		%		70-130	11-MAY-21
MTBE			98.0		%		70-130	11-MAY-21
m+p-Xylenes			96.0		%		70-130	11-MAY-21
Methyl Ethyl Ketone			92.9		%		60-140	11-MAY-21
Methyl Isobutyl Ketone			102.1		%		60-140	11-MAY-21
o-Xylene			107.5		%		70-130	11-MAY-21
Styrene			106.5		%		70-130	11-MAY-21
Tetrachloroethylene			99.7		%		60-130	11-MAY-21
Toluene			99.6		%		70-130	11-MAY-21
trans-1,2-Dichloroethylene			102.0		%		60-130	11-MAY-21
trans-1,3-Dichloropropene			93.4		%		70-130	11-MAY-21
Trichloroethylene			97.0		%		60-130	11-MAY-21
Trichlorofluoromethane			102.0		%		50-140	11-MAY-21
Vinyl chloride			103.0		%		60-140	11-MAY-21
WG3529872-1	MB							
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	11-MAY-21
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	11-MAY-21
1,1,1-Trichloroethane			<0.050		ug/g		0.05	11-MAY-21
1,1,2-Trichloroethane			<0.050		ug/g		0.05	11-MAY-21
1,1-Dichloroethane			<0.050		ug/g		0.05	11-MAY-21
1,1-Dichloroethylene			<0.050		ug/g		0.05	11-MAY-21
1,2-Dibromoethane			<0.050		ug/g		0.05	11-MAY-21
1,2-Dichlorobenzene			<0.050		ug/g		0.05	11-MAY-21
1,2-Dichloroethane			<0.050		ug/g		0.05	11-MAY-21
1,2-Dichloropropane			<0.050		ug/g		0.05	11-MAY-21



Quality Control Report

Workorder: L2583177

Report Date: 12-MAY-21

Page 13 of 14

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Soil							
Batch	R5455597							
WG3529872-1 MB								
1,3-Dichlorobenzene			<0.050		ug/g		0.05	11-MAY-21
1,4-Dichlorobenzene			<0.050		ug/g		0.05	11-MAY-21
Acetone			<0.50		ug/g		0.5	11-MAY-21
Benzene			<0.0068		ug/g		0.0068	11-MAY-21
Bromodichloromethane			<0.050		ug/g		0.05	11-MAY-21
Bromoform			<0.050		ug/g		0.05	11-MAY-21
Bromomethane			<0.050		ug/g		0.05	11-MAY-21
Carbon tetrachloride			<0.050		ug/g		0.05	11-MAY-21
Chlorobenzene			<0.050		ug/g		0.05	11-MAY-21
Chloroform			<0.050		ug/g		0.05	11-MAY-21
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	11-MAY-21
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	11-MAY-21
Dibromochloromethane			<0.050		ug/g		0.05	11-MAY-21
Dichlorodifluoromethane			<0.050		ug/g		0.05	11-MAY-21
Ethylbenzene			<0.018		ug/g		0.018	11-MAY-21
n-Hexane			<0.050		ug/g		0.05	11-MAY-21
Methylene Chloride			<0.050		ug/g		0.05	11-MAY-21
MTBE			<0.050		ug/g		0.05	11-MAY-21
m+p-Xylenes			<0.030		ug/g		0.03	11-MAY-21
Methyl Ethyl Ketone			<0.50		ug/g		0.5	11-MAY-21
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	11-MAY-21
o-Xylene			<0.020		ug/g		0.02	11-MAY-21
Styrene			<0.050		ug/g		0.05	11-MAY-21
Tetrachloroethylene			<0.050		ug/g		0.05	11-MAY-21
Toluene			<0.080		ug/g		0.08	11-MAY-21
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	11-MAY-21
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	11-MAY-21
Trichloroethylene			<0.010		ug/g		0.01	11-MAY-21
Trichlorofluoromethane			<0.050		ug/g		0.05	11-MAY-21
Vinyl chloride			<0.020		ug/g		0.02	11-MAY-21
Surrogate: 1,4-Difluorobenzene			122.5		%		50-140	11-MAY-21
Surrogate: 4-Bromofluorobenzene			134.7		%		50-140	11-MAY-21

Quality Control Report

Workorder: L2583177

Report Date: 12-MAY-21

Client: Grounded Engineering Inc
12 Banigan Drive
TORONTO ON M4H 1E9
Contact: ZENITH WONG

Page 14 of 14

Legend:

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

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

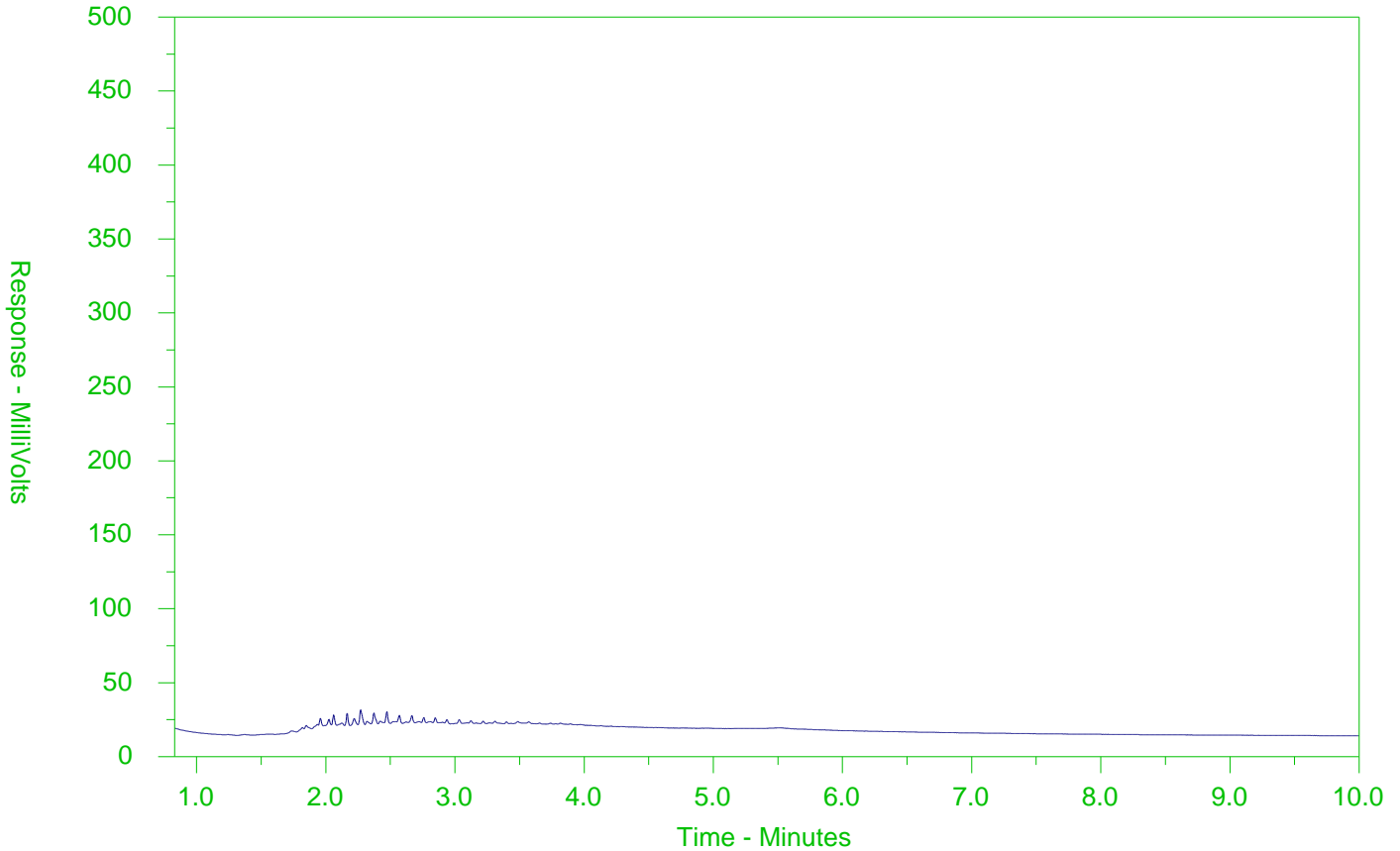
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2583177-4
 Client Sample ID: BH 101 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.

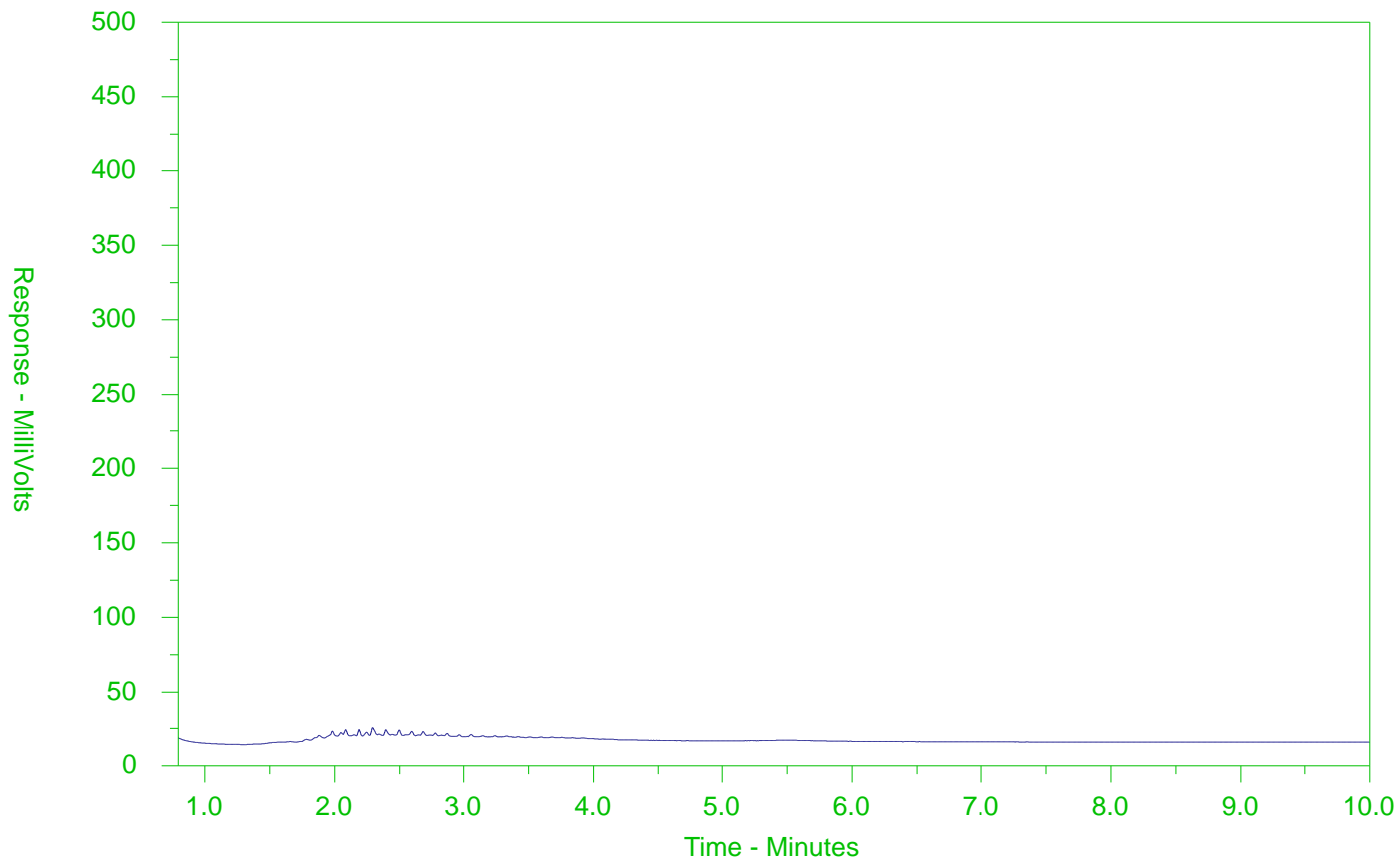
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2583177-8
 Client Sample ID: BH 102 SS6B



← 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.

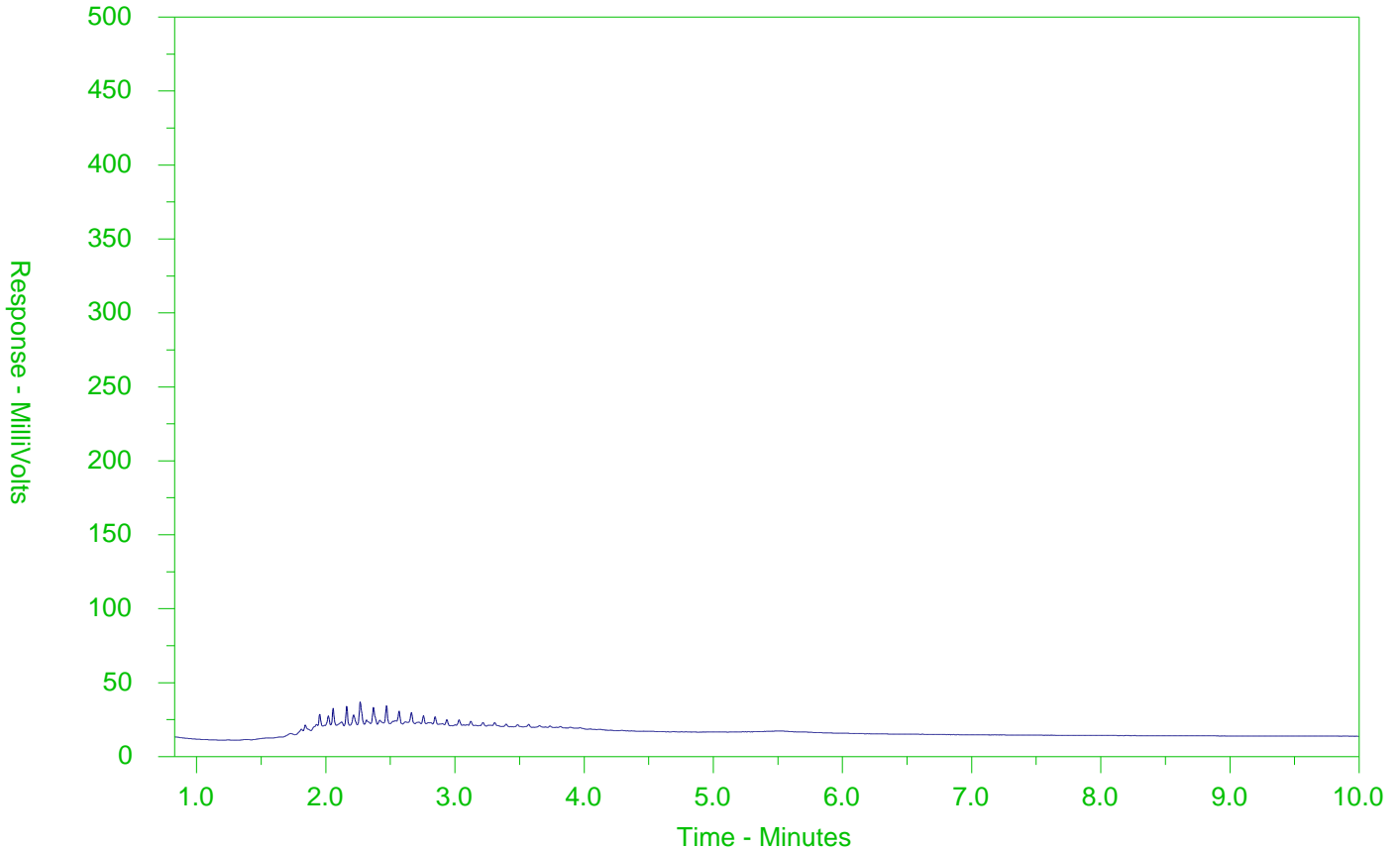
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2583177-12
 Client Sample ID: BH 103 SS3B



← 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.

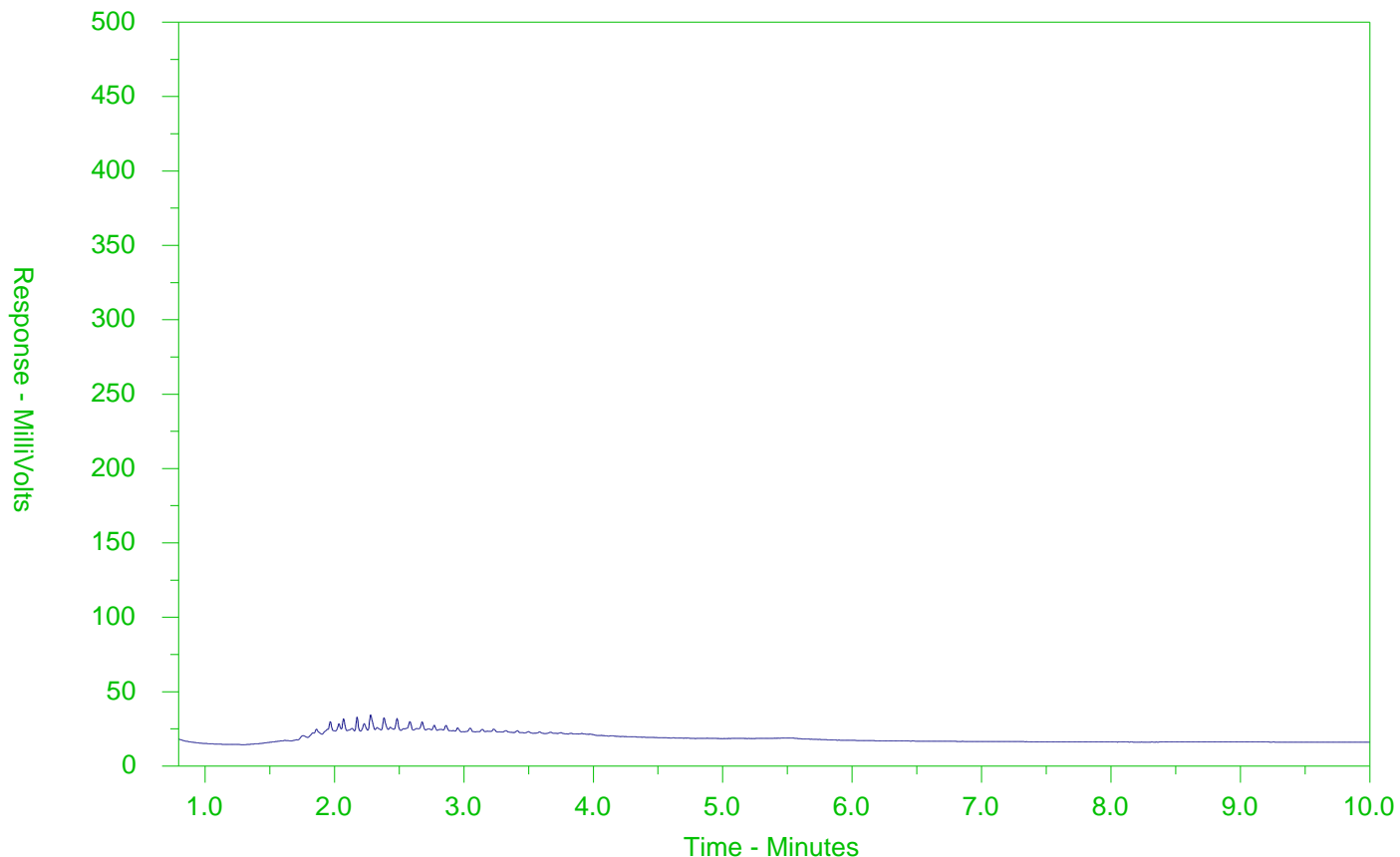
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2583177-16
 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.



L2583177-COFC

in of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20-888180

Page 2 of 2

Report To		Reports / Recipients		Turnaround Time (TAT) Requested		AFPIX ALS BARCODE LABEL HERE (ALS use only)																																																																																																											
Company:	Grounded org	Select Report Format:	<input checked="" type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)	<input checked="" type="checkbox"/> Routine [R] if received by 3pm M-F - no surcharges apply <input type="checkbox"/> 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum <input type="checkbox"/> 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum <input type="checkbox"/> 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum <input type="checkbox"/> 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum <input type="checkbox"/> 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:	Zemith wong	Merge QC/QCI Reports with COA:	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	Date and Time Required for all ESP TATs:																																																																																																													
Phone:	647 269 9949	Compare Results to Criteria on Report - provide details below (if box checked):	<input checked="" type="checkbox"/>	For all tests with rush TATs requested, please contact your AM to confirm availability.																																																																																																													
Company address below will appear on the final report		Select Distribution:	<input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX	Analysis Request																																																																																																													
Street:	12 Bannan Drive Toronto	Email 1 or Fax:	2 wong @ grounded.org	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below																																																																																																													
City/Province:	NO	Email 2:		<table border="1"> <tr> <th rowspan="2">NUMBER OF CONTAINERS</th> <th colspan="7"></th> <th rowspan="2">SAMPLES ON HOLD</th> <th rowspan="2">EXTENDED STORAGE REQUIRED</th> <th rowspan="2">SUSPECTED HAZARD (see notes)</th> </tr> <tr> <th>M+I</th> <th>PAW</th> <th>PCB</th> <th>PHC-BTer</th> <th>VOC</th> <th>TCLP</th> <th></th> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <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)	M+I	PAW	PCB	PHC-BTer	VOC	TCLP		3											1	X										1			X								3			X								3				X							1	X										1											1										
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LSD:		Location:																																																																																																															
ALS Lab Work Order # (ALS use only):	L2583177	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																																																																																																													
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Drinking Water (DW) Samples (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? <input type="checkbox"/> YES <input type="checkbox"/> NO		1961 8 100 CF		Cooling Method: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> ICE <input type="checkbox"/> PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED																																																																																																													
Are samples for human consumption/ use? <input type="checkbox"/> YES <input type="checkbox"/> NO				Submission Comments Identified on Sample Receipt Notification: <input type="checkbox"/> YES <input type="checkbox"/> NO																																																																																																													
				Cooler Closures Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A Sample Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A																																																																																																													
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A. J.	3 May				05/04/21																																																																																																												



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L2583177-COFC

ustody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20 - 888179

AV

Page 1 of 2

Report To		Reports / Recipients			Turnaround Time (TAT) Requested					Analysis Request			
Contact and company name below will appear on the final report		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)			<input checked="" type="checkbox"/> Routine (R) if received by 3pm M-F - no surcharges apply					AFFIX ALS BARCODE LABELS HERE (ALS use only)			
Company:	20 owned on @			Merge QC/QCI Reports with COA <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A			<input type="checkbox"/> 4 day (P4) if received by 3pm M-F - 20% rush surcharge minimum						
Contact:	Zarith Wong			<input checked="" type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked			<input type="checkbox"/> 3 day (P3) if received by 3pm M-F - 25% rush surcharge minimum						
Phone:	647 769 4949			Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			<input type="checkbox"/> 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: ZWong@grainheadeng.ca			<input type="checkbox"/> 1 day (E) if received by 3pm M-F - 100% rush surcharge minimum			<input type="checkbox"/> 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					
Street:	12 Bannock Drive Toronto,			Email 2			Date and Time Required for all EAP TATs:						
City/Province:	ON			Email 3			For all tests with rush TATs requested, please contact your AM to confirm availability.						
Postal Code:	M4H 1E9			Invoice Recipients			Analysis Request						
Invoice To:	Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below						
Copy of Invoice with Report <input type="checkbox"/> YES <input type="checkbox"/> NO		Email 1 or Fax			Project Information			NUMBER OF CONTAINERS					
Company:		Email 2			Oil and Gas Required: <input type="checkbox"/> (client use)			SAMPLES ON HOLD					
Contact:		Routing Code:			ALS Account # / Quote #			EXTENDED STORAGE REQUIRED					
Job #:		Requisitioner:			AFE/Cost Center:			SUSPECTED HAZARD (see notes)					
PO / AFE:		Location:			Major/Minor Code:								
LSD:		ALS Contact:			Routing Code:								
ALS Lab Work Order # (ALS use only): L2583177		Sampler:			ALS Account # / Quote #								
Sample Identification and/or Coordinates (This description will appear on the report)		Date (dd-mm-yy)		Time (hh:mm)		Sample Type							
BH 101 551		3 May		4011		1							
BH 101 552						1							
BH 101 553B						1							
BH 101 554						3							
BH 101 557						1							
BH 102 553						1							
BH 102 555						4							
BH 102 556B						3							
BH 102 557						1							
BH 103 551						1							
BH 103 552						3							
BH 103 553D						3							
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? <input type="checkbox"/> YES <input type="checkbox"/> NO		TABLE 8 ICC CT			Cooling Method: <input type="checkbox"/> NONE <input type="checkbox"/> ICE <input type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED								
Are samples for human consumption/ use? <input type="checkbox"/> YES <input type="checkbox"/> NO					Submission Comments Identified on Sample Receipt Notification: <input type="checkbox"/> YES <input type="checkbox"/> NO								
					Cooler Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A Sample Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A								
					INITIAL COOLER TEMPERATURES °C: 8.3 FINAL COOLER TEMPERATURES °C:								
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)								
Released by: M. DC	Date: 3 May	Time: 4:00	Received by:	Date:	Time:	Received by:	Date: 05/04/21	Time: 4:00					

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.



Your Project #: 21-067-907
 Site Location: 60 DUNDAS ST E, MISSISSAUGA

Attention: Sean Morris

Grounded Engineering Inc.
 1 Banigan Drive
 Toronto, ON
 CANADA M4H 1G3

Report Date: 2022/10/03
 Report #: R7326954
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2R8361

Received: 2022/09/26, 16:27

Sample Matrix: Soil
 # Samples Received: 9

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	8	N/A	2022/09/28	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	1	N/A	2022/09/29	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	9	2022/09/28	2022/09/29	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric)	1	2022/10/03	2022/10/03	CAM SOP-00316	CCME PHC-CWS m
F4G (CCME Hydrocarbons Gravimetric)	1	2022/09/30	2022/09/30	CAM SOP-00316	CCME PHC-CWS m
Moisture	1	N/A	2022/09/27	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	8	N/A	2022/09/28	CAM SOP-00445	Carter 2nd ed 51.2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003".



Your Project #: 21-067-907
Site Location: 60 DUNDAS ST E, MISSISSAUGA

Attention: Sean Morris

Grounded Engineering Inc.
1 Banigan Drive
Toronto, ON
CANADA M4H 1G3

Report Date: 2022/10/03
Report #: R7326954
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2R8361

Received: 2022/09/26, 16:27

Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Marijane Cruz, Senior Project Manager
Email: Marijane.Cruz@bureauveritas.com
Phone# (905)817-5756

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C2R8361
Report Date: 2022/10/03

Grounded Engineering Inc.
Client Project #: 21-067-907
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: DB

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID			TVO308	TVO309	TVO310	TVO311	TVO312	TVO313			
Sampling Date			2022/09/26 14:30	2022/09/26 14:30	2022/09/26 14:30	2022/09/26 14:30	2022/09/26 14:30	2022/09/26 14:30			
	UNITS	Criteria	BH301 SS2	BH301 SS4	BH302 SS2	BH303 SS2	BH304 SS1	BH304 SS5	RDL	MDL	QC Batch
Inorganics											
Moisture	%	-	12	10	14	13	15	14	1.0	0.50	8251137
BTEX & F1 Hydrocarbons											
Benzene	ug/g	0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8251347
Toluene	ug/g	0.2	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8251347
Ethylbenzene	ug/g	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8251347
o-Xylene	ug/g	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8251347
p+m-Xylene	ug/g	-	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8251347
Total Xylenes	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8251347
F1 (C6-C10)	ug/g	25	<10	<10	<10	<10	<10	<10	10	5.0	8251347
F1 (C6-C10) - BTEX	ug/g	25	<10	<10	<10	<10	<10	<10	10	5.0	8251347
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	10	<10	<10	<10	10	<10	<10	10	5.0	8251425
F3 (C16-C34 Hydrocarbons)	ug/g	240	80	<50	93	270	210	<50	50	5.0	8251425
F4 (C34-C50 Hydrocarbons)	ug/g	120	<50	<50	64	420	270	<50	50	10	8251425
Reached Baseline at C50	ug/g	-	Yes	Yes	Yes	No	No	Yes			8251425
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	-	93	99	100	99	101	97			8251347
4-Bromofluorobenzene	%	-	98	87	85	82	83	87			8251347
D10-o-Xylene	%	-	99	103	97	102	106	107			8251347
D4-1,2-Dichloroethane	%	-	100	103	107	108	112	107			8251347
o-Terphenyl	%	-	78	84	77	80	81	81			8251425
No Fill	No Exceedance										
Grey	Exceeds 1 criteria policy/level										
Black	Exceeds both criteria/levels										
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)											
Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Groundwater Condition											
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use											



BUREAU
VERITAS

Bureau Veritas Job #: C2R8361
Report Date: 2022/10/03

Grounded Engineering Inc.
Client Project #: 21-067-907
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: DB

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID			TVO314	TVO315		TVO332			
Sampling Date			2022/09/26 14:30	2022/09/26 14:30		2022/09/26 14:30			
	UNITS	Criteria	BH305 SS2	BH305 SS4	QC Batch	DUP 1	RDL	MDL	QC Batch
Inorganics									
Moisture	%	-	21	11	8251137	16	1.0	0.50	8251157
BTEX & F1 Hydrocarbons									
Benzene	ug/g	0.02	<0.020	<0.020	8251347	<0.020	0.020	0.020	8254129
Toluene	ug/g	0.2	<0.020	<0.020	8251347	<0.020	0.020	0.020	8254129
Ethylbenzene	ug/g	0.05	<0.020	<0.020	8251347	<0.020	0.020	0.020	8254129
o-Xylene	ug/g	-	<0.020	<0.020	8251347	<0.020	0.020	0.020	8254129
p+m-Xylene	ug/g	-	<0.040	<0.040	8251347	<0.040	0.040	0.040	8254129
Total Xylenes	ug/g	0.05	<0.040	<0.040	8251347	<0.040	0.040	0.040	8254129
F1 (C6-C10)	ug/g	25	<10	<10	8251347	<10	10	5.0	8254129
F1 (C6-C10) - BTEX	ug/g	25	<10	<10	8251347	<10	10	5.0	8254129
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	10	<10	<10	8251425	<10	10	5.0	8251425
F3 (C16-C34 Hydrocarbons)	ug/g	240	<50	<50	8251425	140	50	5.0	8251425
F4 (C34-C50 Hydrocarbons)	ug/g	120	<50	<50	8251425	110	50	10	8251425
Reached Baseline at C50	ug/g	-	Yes	Yes	8251425	Yes			8251425
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	-	98	98	8251347	99			8254129
4-Bromofluorobenzene	%	-	80	89	8251347	92			8254129
D10-o-Xylene	%	-	109	98	8251347	110			8254129
D4-1,2-Dichloroethane	%	-	107	109	8251347	86			8254129
o-Terphenyl	%	-	80	83	8251425	78			8251425
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)									
Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Groundwater Condition									
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use									



BUREAU
VERITAS

Bureau Veritas Job #: C2R8361
Report Date: 2022/10/03

Grounded Engineering Inc.
Client Project #: 21-067-907
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: DB

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID			TVO311		TVO312			
Sampling Date			2022/09/26 14:30		2022/09/26 14:30			
	UNITS	Criteria	BH303 SS2	QC Batch	BH304 SS1	RDL	MDL	QC Batch
F2-F4 Hydrocarbons								
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	120	2500	8256818	1600	100	100	8260192
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)								
Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Groundwater Condition								
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use								



BUREAU
VERITAS

Bureau Veritas Job #: C2R8361
Report Date: 2022/10/03

Grounded Engineering Inc.
Client Project #: 21-067-907
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: DB

TEST SUMMARY

Bureau Veritas ID: TVO308
Sample ID: BH301 SS2
Matrix: Soil

Collected: 2022/09/26
Shipped:
Received: 2022/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8251347	N/A	2022/09/28	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8251425	2022/09/28	2022/09/29	Anna Stuglik-Rolland
Moisture	BAL	8251137	N/A	2022/09/28	Mathew Bowles

Bureau Veritas ID: TVO309
Sample ID: BH301 SS4
Matrix: Soil

Collected: 2022/09/26
Shipped:
Received: 2022/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8251347	N/A	2022/09/28	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8251425	2022/09/28	2022/09/29	Anna Stuglik-Rolland
Moisture	BAL	8251137	N/A	2022/09/28	Mathew Bowles

Bureau Veritas ID: TVO310
Sample ID: BH302 SS2
Matrix: Soil

Collected: 2022/09/26
Shipped:
Received: 2022/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8251347	N/A	2022/09/28	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8251425	2022/09/28	2022/09/29	Anna Stuglik-Rolland
Moisture	BAL	8251137	N/A	2022/09/28	Mathew Bowles

Bureau Veritas ID: TVO311
Sample ID: BH303 SS2
Matrix: Soil

Collected: 2022/09/26
Shipped:
Received: 2022/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8251347	N/A	2022/09/28	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8251425	2022/09/28	2022/09/29	Anna Stuglik-Rolland
F4G (CCME Hydrocarbons Gravimetric)	BAL	8256818	2022/09/30	2022/09/30	Alketa Vrapri
Moisture	BAL	8251137	N/A	2022/09/28	Mathew Bowles

Bureau Veritas ID: TVO312
Sample ID: BH304 SS1
Matrix: Soil

Collected: 2022/09/26
Shipped:
Received: 2022/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8251347	N/A	2022/09/28	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8251425	2022/09/28	2022/09/29	Anna Stuglik-Rolland
F4G (CCME Hydrocarbons Gravimetric)	BAL	8260192	2022/10/03	2022/10/03	Hely Patel
Moisture	BAL	8251137	N/A	2022/09/28	Mathew Bowles



BUREAU
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Bureau Veritas Job #: C2R8361
Report Date: 2022/10/03

Grounded Engineering Inc.
Client Project #: 21-067-907
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: DB

TEST SUMMARY

Bureau Veritas ID: TVO313
Sample ID: BH304 SS5
Matrix: Soil

Collected: 2022/09/26
Shipped:
Received: 2022/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8251347	N/A	2022/09/28	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8251425	2022/09/28	2022/09/29	Anna Stuglik-Rolland
Moisture	BAL	8251137	N/A	2022/09/28	Mathew Bowles

Bureau Veritas ID: TVO314
Sample ID: BH305 SS2
Matrix: Soil

Collected: 2022/09/26
Shipped:
Received: 2022/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8251347	N/A	2022/09/28	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8251425	2022/09/28	2022/09/29	Anna Stuglik-Rolland
Moisture	BAL	8251137	N/A	2022/09/28	Mathew Bowles

Bureau Veritas ID: TVO315
Sample ID: BH305 SS4
Matrix: Soil

Collected: 2022/09/26
Shipped:
Received: 2022/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8251347	N/A	2022/09/28	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8251425	2022/09/28	2022/09/29	Anna Stuglik-Rolland
Moisture	BAL	8251137	N/A	2022/09/28	Mathew Bowles

Bureau Veritas ID: TVO332
Sample ID: DUP 1
Matrix: Soil

Collected: 2022/09/26
Shipped:
Received: 2022/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8254129	N/A	2022/09/29	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8251425	2022/09/28	2022/09/29	Anna Stuglik-Rolland
Moisture	BAL	8251157	N/A	2022/09/27	Mathew Bowles



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VERITAS

Bureau Veritas Job #: C2R8361
Report Date: 2022/10/03

Grounded Engineering Inc.
Client Project #: 21-067-907
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: DB

GENERAL COMMENTS

Sample TVO310 [BH302 SS2] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample TVO311 [BH303 SS2] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample TVO313 [BH304 SS5] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample TVO315 [BH305 SS4] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Results relate only to the items tested.



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VERITAS

Bureau Veritas Job #: C2R8361

Report Date: 2022/10/03

QUALITY ASSURANCE REPORT

Grounded Engineering Inc.

Client Project #: 21-067-907

Site Location: 60 DUNDAS ST E, MISSISSAUGA

Sampler Initials: DB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8251347	1,4-Difluorobenzene	2022/09/28	95	60 - 140	96	60 - 140	96	%		
8251347	4-Bromofluorobenzene	2022/09/28	101	60 - 140	104	60 - 140	92	%		
8251347	D10-o-Xylene	2022/09/28	109	60 - 140	94	60 - 140	98	%		
8251347	D4-1,2-Dichloroethane	2022/09/28	98	60 - 140	101	60 - 140	106	%		
8251425	o-Terphenyl	2022/09/28	68	60 - 130	80	60 - 130	82	%		
8254129	1,4-Difluorobenzene	2022/09/29	100	60 - 140	95	60 - 140	98	%		
8254129	4-Bromofluorobenzene	2022/09/29	93	60 - 140	94	60 - 140	90	%		
8254129	D10-o-Xylene	2022/09/29	111	60 - 140	99	60 - 140	89	%		
8254129	D4-1,2-Dichloroethane	2022/09/29	84	60 - 140	82	60 - 140	81	%		
8251137	Moisture	2022/09/28							3.8	20
8251157	Moisture	2022/09/27							0.61	20
8251347	Benzene	2022/09/28	95	50 - 140	89	50 - 140	<0.020	ug/g	NC	50
8251347	Ethylbenzene	2022/09/28	106	50 - 140	92	50 - 140	<0.020	ug/g	NC	50
8251347	F1 (C6-C10) - BTEX	2022/09/28					<10	ug/g	NC	30
8251347	F1 (C6-C10)	2022/09/28	88	60 - 140	93	80 - 120	<10	ug/g	NC	30
8251347	o-Xylene	2022/09/28	107	50 - 140	93	50 - 140	<0.020	ug/g	NC	50
8251347	p+m-Xylene	2022/09/28	104	50 - 140	92	50 - 140	<0.040	ug/g	NC	50
8251347	Toluene	2022/09/28	93	50 - 140	87	50 - 140	<0.020	ug/g	NC	50
8251347	Total Xylenes	2022/09/28					<0.040	ug/g	NC	50
8251425	F2 (C10-C16 Hydrocarbons)	2022/09/28	81	60 - 130	92	80 - 120	<10	ug/g	NC	30
8251425	F3 (C16-C34 Hydrocarbons)	2022/09/28	78	60 - 130	94	80 - 120	<50	ug/g	NC	30
8251425	F4 (C34-C50 Hydrocarbons)	2022/09/28	NC	60 - 130	95	80 - 120	<50	ug/g	101 (1)	30
8254129	Benzene	2022/09/29	87	50 - 140	74	50 - 140	<0.020	ug/g	NC	50
8254129	Ethylbenzene	2022/09/29	95	50 - 140	85	50 - 140	<0.020	ug/g	NC	50
8254129	F1 (C6-C10) - BTEX	2022/09/29					<10	ug/g	NC	30
8254129	F1 (C6-C10)	2022/09/29	114	60 - 140	91	80 - 120	<10	ug/g	NC	30
8254129	o-Xylene	2022/09/29	92	50 - 140	82	50 - 140	<0.020	ug/g	NC	50
8254129	p+m-Xylene	2022/09/29	94	50 - 140	83	50 - 140	<0.040	ug/g	NC	50
8254129	Toluene	2022/09/29	91	50 - 140	80	50 - 140	<0.020	ug/g	NC	50
8254129	Total Xylenes	2022/09/29					<0.040	ug/g	NC	50
8256818	F4G-sg (Grav. Heavy Hydrocarbons)	2022/09/30	101	65 - 135	101	65 - 135	<100	ug/g	0	50



BUREAU
VERITAS

Bureau Veritas Job #: C2R8361

Report Date: 2022/10/03

QUALITY ASSURANCE REPORT(CONT'D)

Grounded Engineering Inc.

Client Project #: 21-067-907

Site Location: 60 DUNDAS ST E, MISSISSAUGA

Sampler Initials: DB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8260192	F4G-sg (Grav. Heavy Hydrocarbons)	2022/10/03	78	65 - 135	102	65 - 135	<100	ug/g	0	50

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate results exceeded RPD acceptance criteria for flagged analytes. The sample extract was reanalyzed with the same results. This is likely due to sample heterogeneity.



BUREAU
VERITAS

Bureau Veritas Job #: C2R8361
Report Date: 2022/10/03

Grounded Engineering Inc.
Client Project #: 21-067-907
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: DB


VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

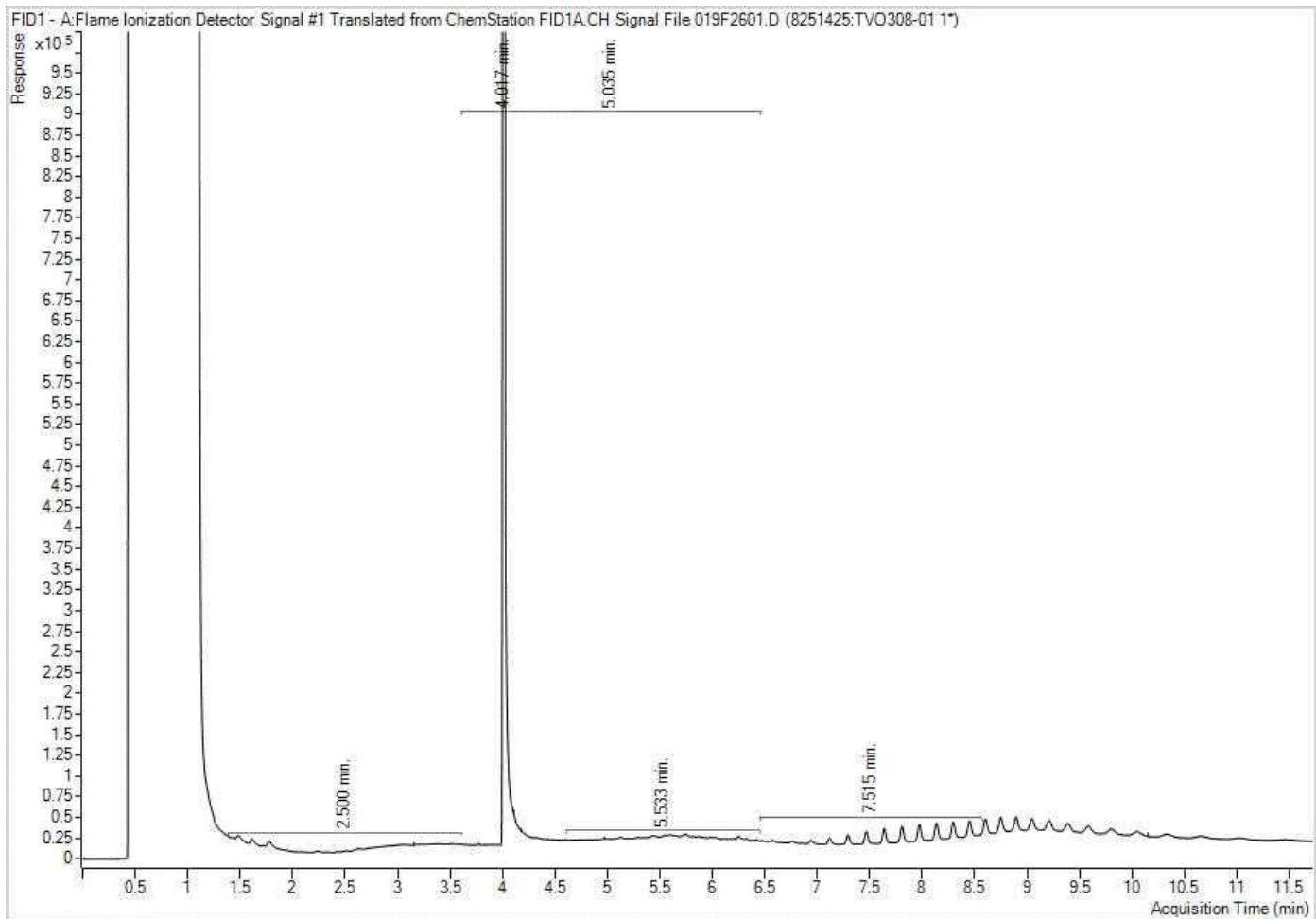
Ewa Pranjić



Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

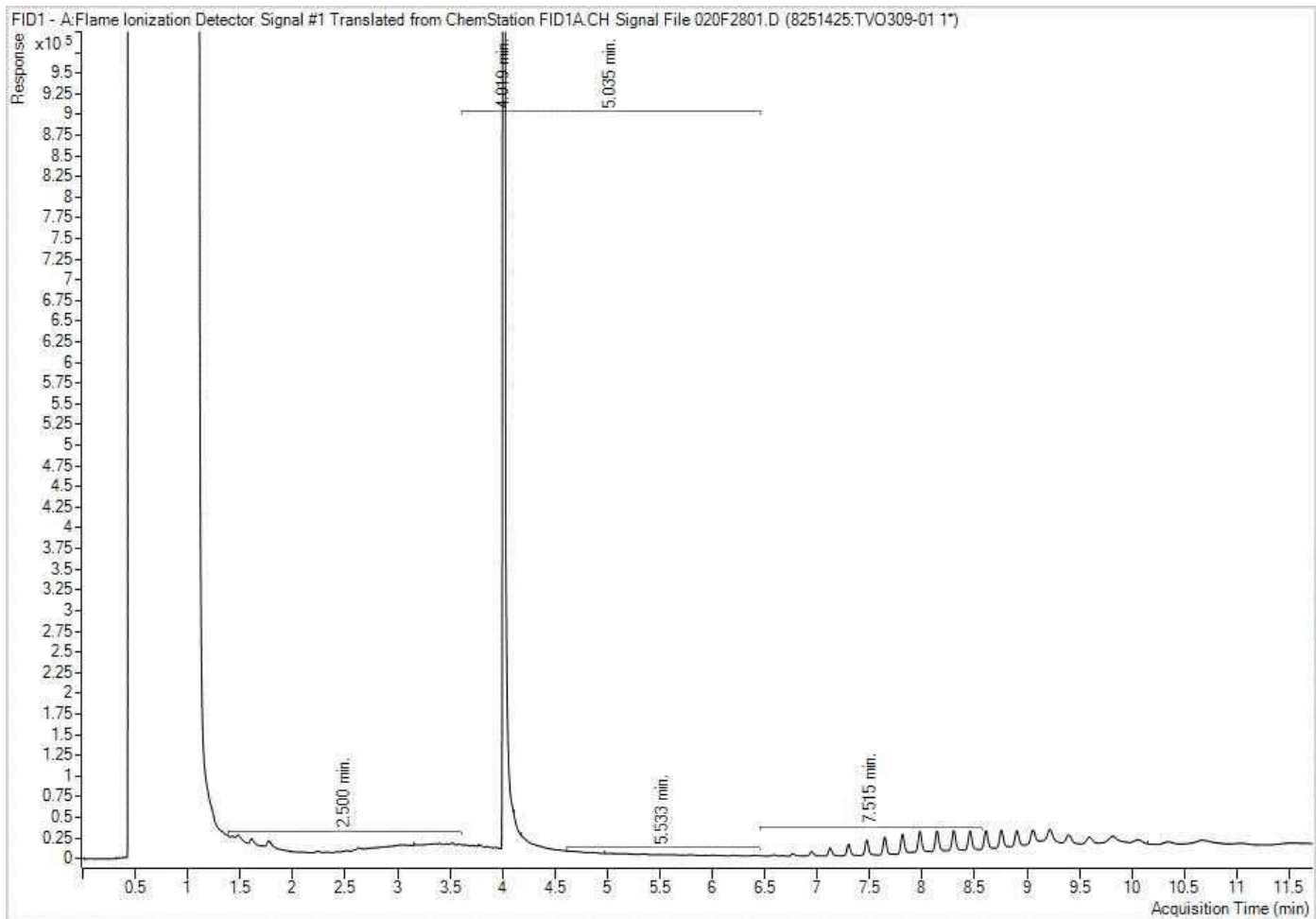
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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



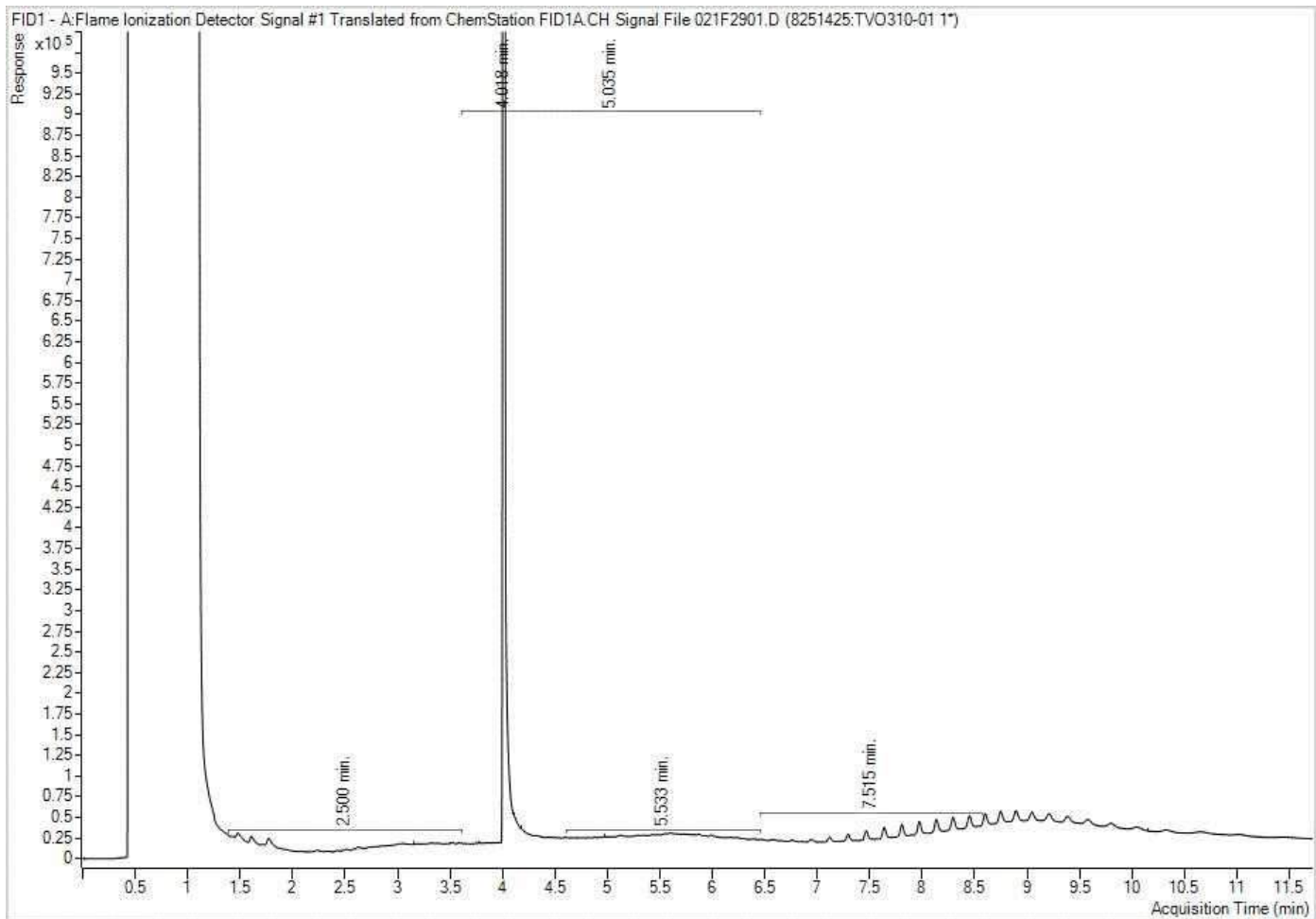
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



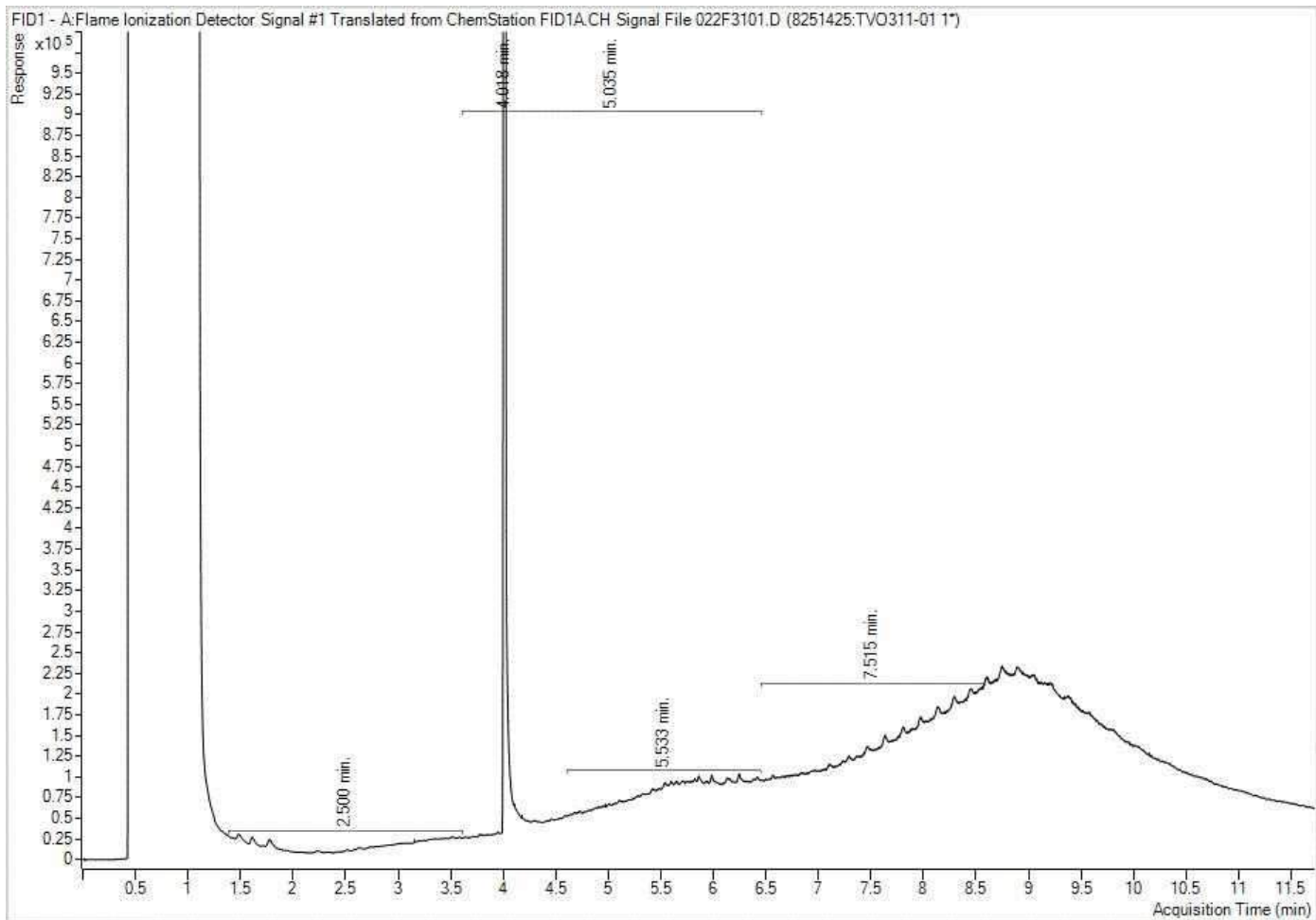
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



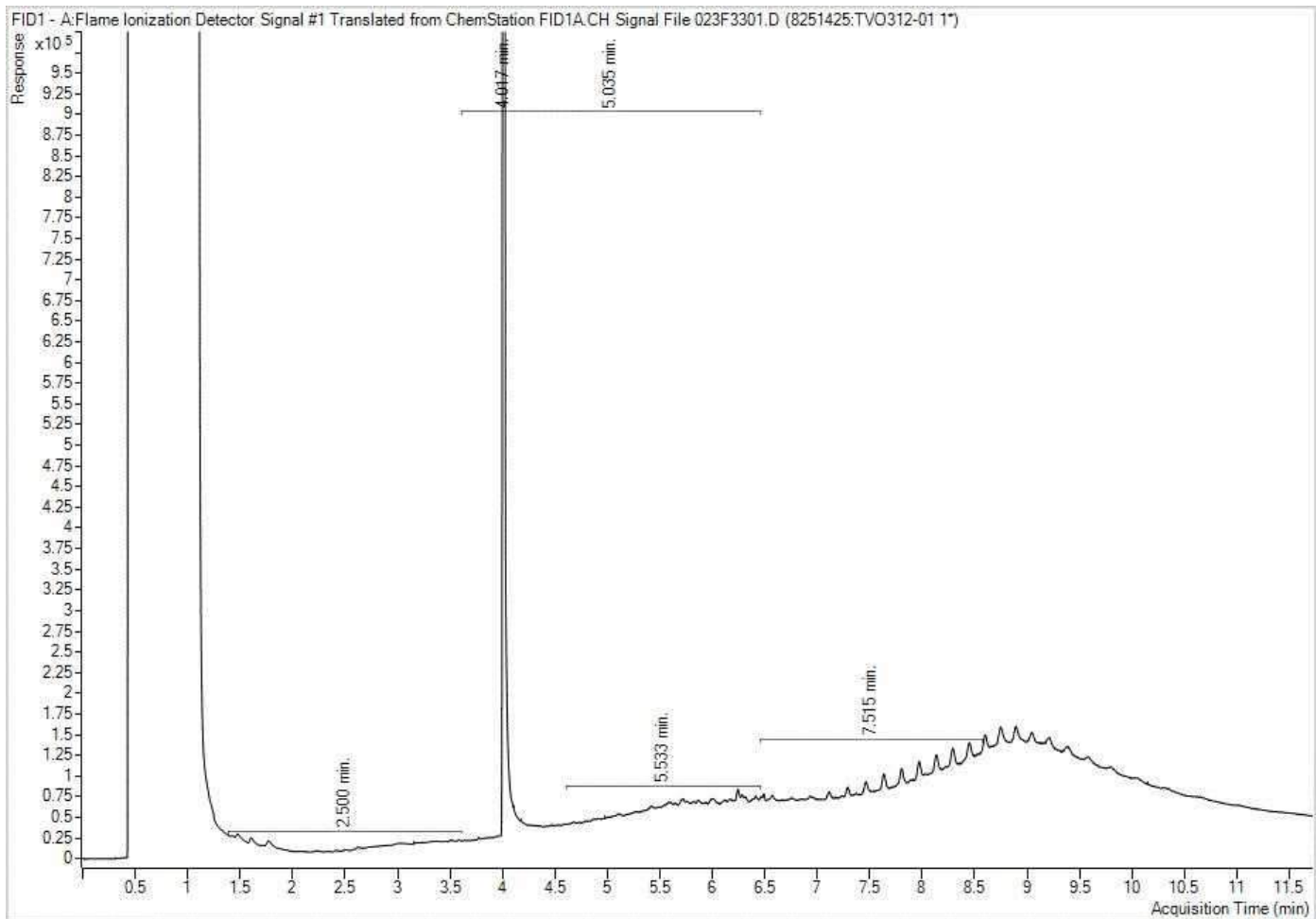
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



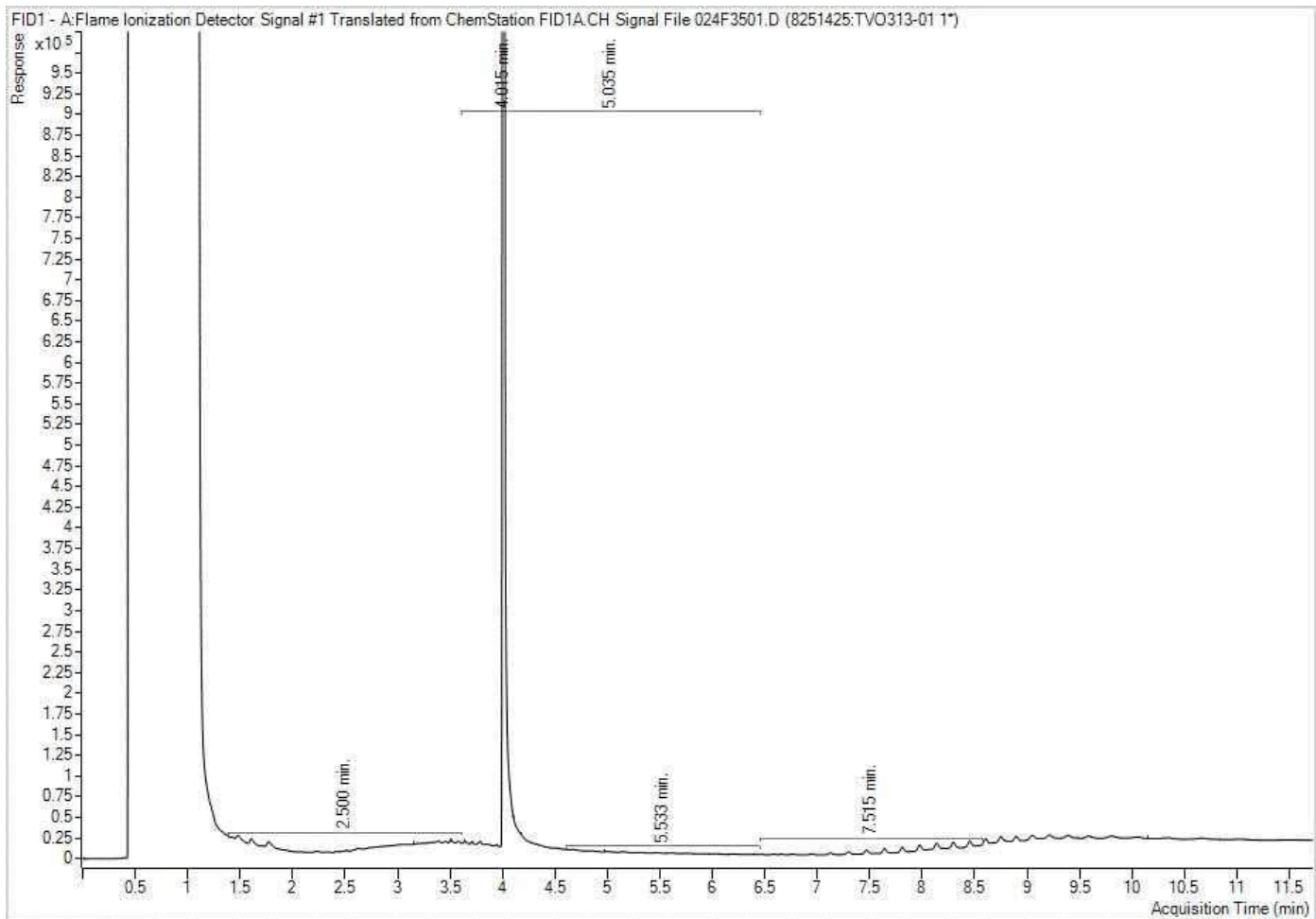
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



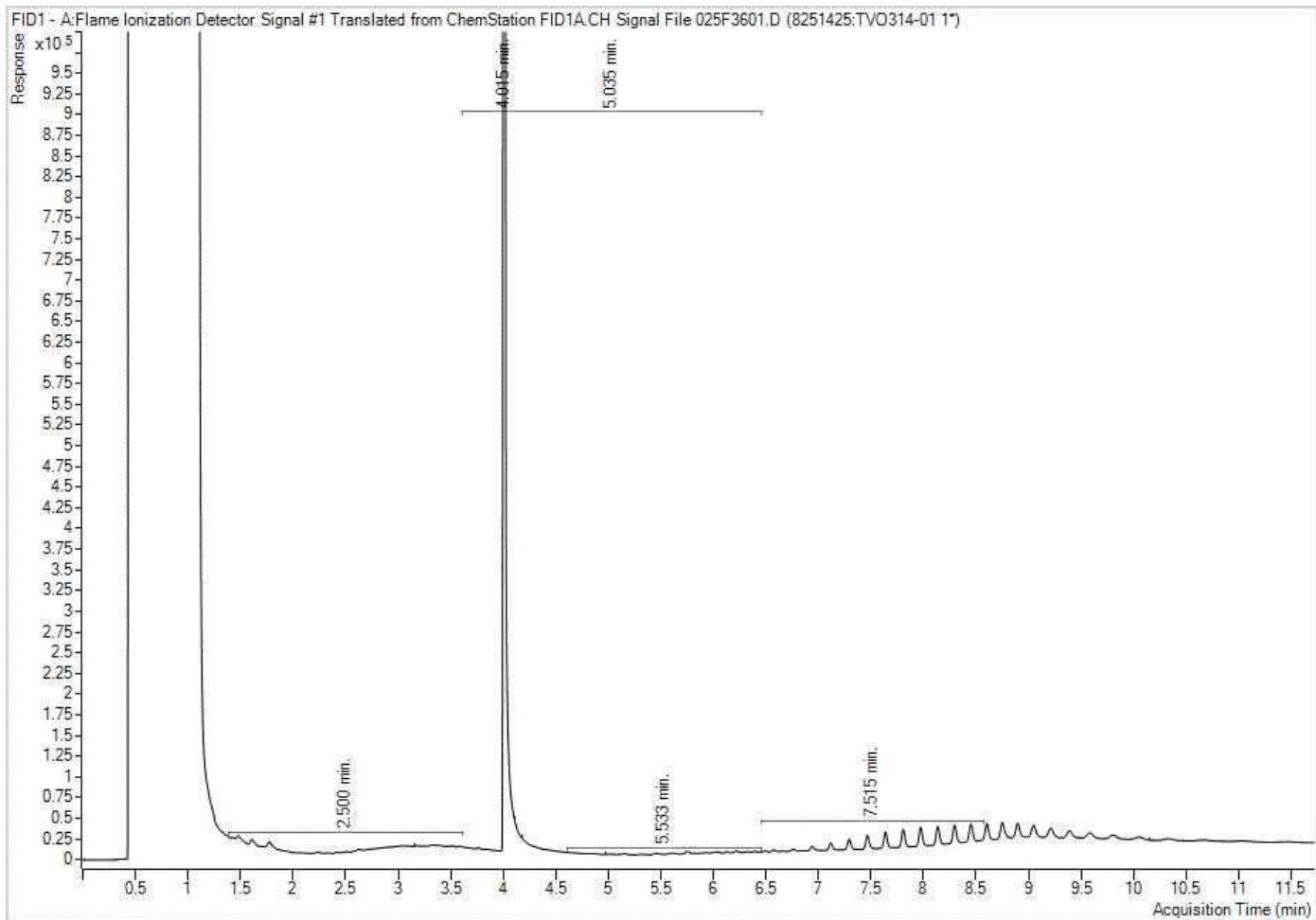
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



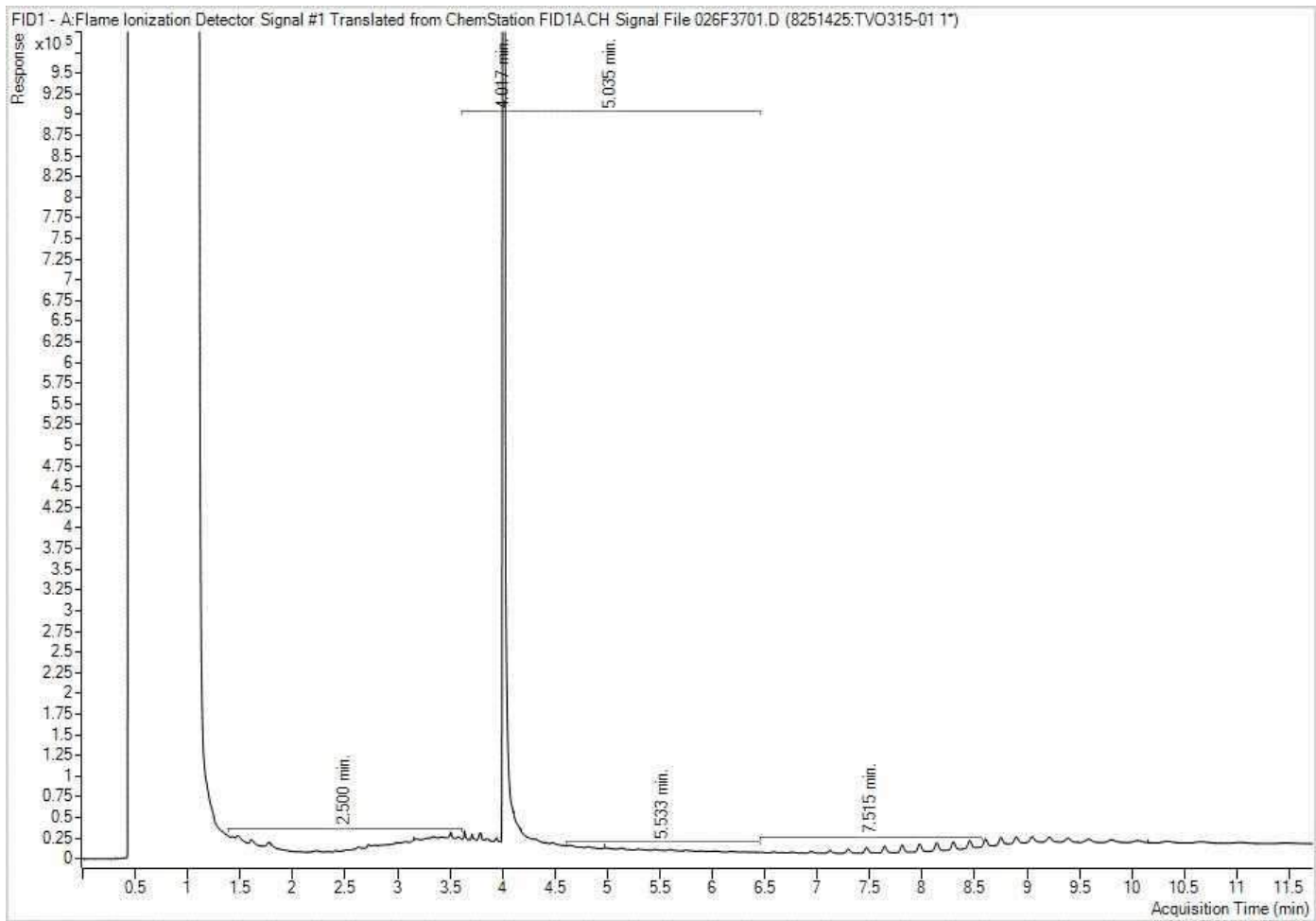
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



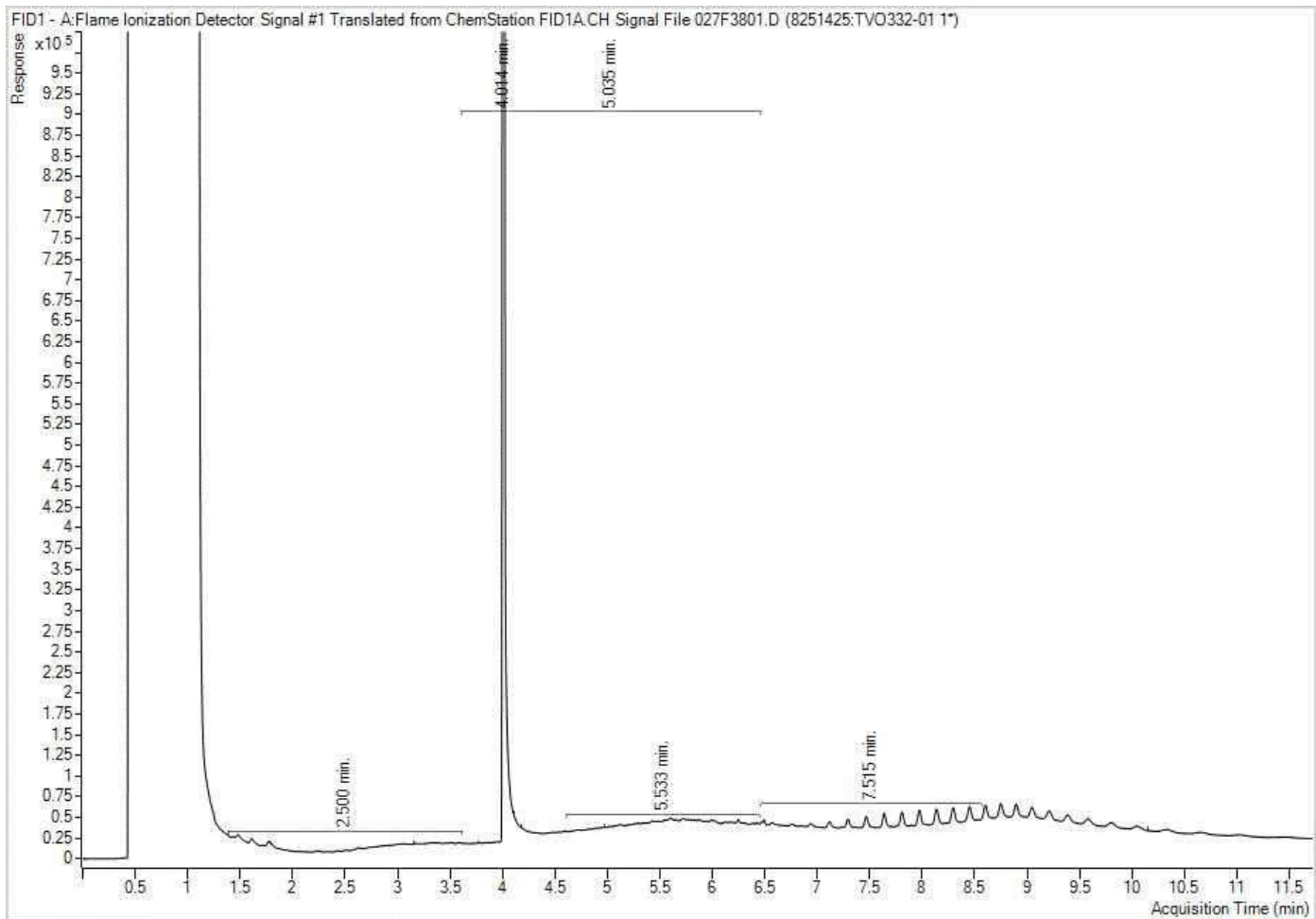
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



BUREAU
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Bureau Veritas Job #: C2R8361
Report Date: 2022/10/03

Grounded Engineering Inc.
Client Project #: 21-067-907
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: DB

Exceedance Summary Table – Reg153/04 T9-Soil/Res
Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
BH303 SS2	TVO311-01	F3 (C16-C34 Hydrocarbons)	240	270	50	ug/g
BH303 SS2	TVO311-01	F4 (C34-C50 Hydrocarbons)	120	420	50	ug/g
BH303 SS2	TVO311-01	F4G-sg (Grav. Heavy Hydrocarbons)	120	2500	100	ug/g
BH304 SS1	TVO312-01	F4 (C34-C50 Hydrocarbons)	120	270	50	ug/g
BH304 SS1	TVO312-01	F4G-sg (Grav. Heavy Hydrocarbons)	120	1600	100	ug/g

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.



Your Project #: 21-067-907
 Site Location: 60 DUNDAS ST E, MISSISSAUGA

Attention: Sean Morris

Grounded Engineering Inc.
 1 Banigan Drive
 Toronto, ON
 CANADA M4H 1G3

Report Date: 2022/10/07
 Report #: R7333292
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2R8371

Received: 2022/09/26, 16:27

Sample Matrix: Soil
 # Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	1	N/A	2022/10/06	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	1	2022/10/06	2022/10/07	CAM SOP-00316	CCME CWS m
Moisture	1	N/A	2022/10/04	CAM SOP-00445	Carter 2nd ed 51.2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
- (2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.



Your Project #: 21-067-907
Site Location: 60 DUNDAS ST E, MISSISSAUGA

Attention: Sean Morris

Grounded Engineering Inc.
1 Banigan Drive
Toronto, ON
CANADA M4H 1G3

Report Date: 2022/10/07
Report #: R7333292
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2R8371

Received: 2022/09/26, 16:27

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Marijane Cruz, Senior Project Manager
Email: Marijane.Cruz@bureauveritas.com
Phone# (905)817-5756

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For Service Group specific validation please refer to the Validation Signature Page.



O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID			TVO346			
Sampling Date			2022/09/26 14:30			
	UNITS	Criteria	BH303 SS4	RDL	MDL	QC Batch
Inorganics						
Moisture	%	-	13	1.0	0.50	8263037
BTEX & F1 Hydrocarbons						
Benzene	ug/g	0.02	<0.020	0.020	0.020	8267994
Toluene	ug/g	0.2	<0.020	0.020	0.020	8267994
Ethylbenzene	ug/g	0.05	<0.020	0.020	0.020	8267994
o-Xylene	ug/g	-	<0.020	0.020	0.020	8267994
p+m-Xylene	ug/g	-	<0.040	0.040	0.040	8267994
Total Xylenes	ug/g	0.05	<0.040	0.040	0.040	8267994
F1 (C6-C10)	ug/g	25	<10	10	5.0	8267994
F1 (C6-C10) - BTEX	ug/g	25	<10	10	5.0	8267994
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	10	<10	10	5.0	8270644
F3 (C16-C34 Hydrocarbons)	ug/g	240	<50	50	5.0	8270644
F4 (C34-C50 Hydrocarbons)	ug/g	120	<50	50	10	8270644
Reached Baseline at C50	ug/g	-	Yes			8270644
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	-	98			8267994
4-Bromofluorobenzene	%	-	100			8267994
D10-o-Xylene	%	-	106			8267994
D4-1,2-Dichloroethane	%	-	103			8267994
o-Terphenyl	%	-	85			8270644
No Fill	No Exceedance					
Grey	Exceeds 1 criteria policy/level					
Black	Exceeds both criteria/levels					
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)						
Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Groundwater Condition						
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use						



BUREAU
VERITAS

Bureau Veritas Job #: C2R8371
Report Date: 2022/10/07

Grounded Engineering Inc.
Client Project #: 21-067-907
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: DB

TEST SUMMARY

Bureau Veritas ID: TVO346
Sample ID: BH303 SS4
Matrix: Soil

Collected: 2022/09/26
Shipped:
Received: 2022/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8267994	N/A	2022/10/06	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8270644	2022/10/06	2022/10/07	Ksenia Trofimova
Moisture	BAL	8263037	N/A	2022/10/04	Mathew Bowles



BUREAU
VERITAS

Bureau Veritas Job #: C2R8371
Report Date: 2022/10/07

Grounded Engineering Inc.
Client Project #: 21-067-907
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: DB

GENERAL COMMENTS

Sample TVO346 [BH303 SS4] : F1 BTEX analysis : Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C2R8371

Report Date: 2022/10/07

QUALITY ASSURANCE REPORT

Grounded Engineering Inc.

Client Project #: 21-067-907

Site Location: 60 DUNDAS ST E, MISSISSAUGA

Sampler Initials: DB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8267994	1,4-Difluorobenzene	2022/10/06	94	60 - 140	95	60 - 140	98	%		
8267994	4-Bromofluorobenzene	2022/10/06	118	60 - 140	114	60 - 140	95	%		
8267994	D10-o-Xylene	2022/10/06	115	60 - 140	105	60 - 140	106	%		
8267994	D4-1,2-Dichloroethane	2022/10/06	100	60 - 140	97	60 - 140	103	%		
8270644	o-Terphenyl	2022/10/07	87	60 - 130	87	60 - 130	89	%		
8263037	Moisture	2022/10/04							2.0	20
8267994	Benzene	2022/10/06	109	50 - 140	90	50 - 140	<0.020	ug/g	4.0	50
8267994	Ethylbenzene	2022/10/06	111	50 - 140	103	50 - 140	<0.020	ug/g	2.2	50
8267994	F1 (C6-C10) - BTEX	2022/10/06					<10	ug/g	5.4	30
8267994	F1 (C6-C10)	2022/10/06	103	60 - 140	97	80 - 120	<10	ug/g	4.5	30
8267994	o-Xylene	2022/10/06	112	50 - 140	103	50 - 140	<0.020	ug/g	2.7	50
8267994	p+m-Xylene	2022/10/06	117	50 - 140	107	50 - 140	<0.040	ug/g	0.68	50
8267994	Toluene	2022/10/06	100	50 - 140	92	50 - 140	<0.020	ug/g	1.5	50
8267994	Total Xylenes	2022/10/06					<0.040	ug/g	1.2	50
8270644	F2 (C10-C16 Hydrocarbons)	2022/10/07	103	60 - 130	104	80 - 120	<10	ug/g	NC	30
8270644	F3 (C16-C34 Hydrocarbons)	2022/10/07	98	60 - 130	100	80 - 120	<50	ug/g	NC	30
8270644	F4 (C34-C50 Hydrocarbons)	2022/10/07	95	60 - 130	98	80 - 120	<50	ug/g	NC	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

Bureau Veritas Job #: C2R8371
Report Date: 2022/10/07

Grounded Engineering Inc.
Client Project #: 21-067-907
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: DB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



**BUREAU
VERITAS**

Bureau Veritas Job #: C2R8371
Report Date: 2022/10/07

Grounded Engineering Inc.
Client Project #: 21-067-907
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: DB

**Exceedance Summary Table – Reg153/04 T9-Soil/Res
Result Exceedances**

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
No Exceedances						
The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Grounded Engineering Inc
ATTN: Nicholas Piers
1 Banigan Drive
TORONTO ON M4H 1G3

Date Received: 11-MAR-22
Report Date: 23-MAR-22 14:47 (MT)
Version: FINAL

Client Phone: 647-264-7932

Certificate of Analysis

Lab Work Order #: L2691773
Project P.O. #: NOT SUBMITTED
Job Reference: 21-067
C of C Numbers:
Legal Site Desc: 60 DUNDAS ST, MISSISSAUGA

Amanda Overholster
Account Manager

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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

Summary of Guideline Exceedances

Guideline		Grouping	Analyte	Result	Guideline Limit	Unit
ALS ID	Client ID					
Ontario Regulation 153/04 - April 15, 2011 Standards - T3-Soil-Res/Park/Inst. Property Use (Coarse)						
L2691773-1	BH204 SS4	Physical Tests	Conductivity	5.18	0.7	mS/cm
		Saturated Paste Extractables	SAR	54.4	5	SAR
		Metals	Boron (B), Hot Water Ext.	1.53	1.5	ug/g
		Hydrocarbons	F2 (C10-C16)	579	98	ug/g
			F3 (C16-C34)	437	300	ug/g
L2691773-2	BH204 SS5B	Physical Tests	Conductivity	1.53	0.7	mS/cm
		Saturated Paste Extractables	SAR	12.8	5	SAR
L2691773-4	BH203 SS1	Physical Tests	Conductivity	1.51	0.7	mS/cm
		Saturated Paste Extractables	SAR	37.2	5	SAR
L2691773-6	BH203 SS4	Physical Tests	Conductivity	0.824	0.7	mS/cm
L2691773-7	BH203 SS6	Hydrocarbons	F2 (C10-C16)	496	98	ug/g
			F3 (C16-C34)	939	300	ug/g
L2691773-8	BH205 SS2	Physical Tests	Conductivity	2.76	0.7	mS/cm
		Saturated Paste Extractables	SAR	10.4	5	SAR
L2691773-11	BH205 SS7	Physical Tests	Conductivity	0.984	0.7	mS/cm

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

Physical Tests - SOIL

Lab ID	L2691773-10	L2691773-11
Sample Date	10-MAR-22	10-MAR-22
Sample ID	BH205 SS6A	BH205 SS7

Analyte	Unit	Guide Limits		
		#1	#2	
Conductivity	mS/cm	0.7	-	0.984
% Moisture	%	-	-	7.59 5.05
pH	pH units	-	-	7.84

Guide Limit #1: T3-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

Lab ID	L2691773-1	L2691773-2	L2691773-4	L2691773-6	L2691773-8	L2691773-11
Sample Date	07-MAR-22	07-MAR-22	07-MAR-22	07-MAR-22	10-MAR-22	10-MAR-22
Sample ID	BH204 SS4	BH204 SS5B	BH203 SS1	BH203 SS4	BH205 SS2	BH205 SS7

Guide Limits

Analyte	Unit	#1	#2						
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Cyanide, Weak Acid Diss	ug/g	0.051	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
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Guide Limit #1: T3-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.

Saturated Paste Extractables - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID																		
		#1	#2	L2691773-1	07-MAR-22	BH204 SS4	L2691773-2	07-MAR-22	BH204 SS5B	L2691773-4	07-MAR-22	BH203 SS1	L2691773-6	07-MAR-22	BH203 SS4	L2691773-8	10-MAR-22	BH205 SS2	L2691773-11	10-MAR-22	BH205 SS7															
SAR	SAR	5	-	54.4	12.8	37.2	2.85	10.4	3.30																											
Calcium (Ca)	mg/L	-	-	26.3	21.1	3.80	53.9	88.8	43.3																											
Magnesium (Mg)	mg/L	-	-	3.54	2.62	0.81	6.45	23.5	10.1																											
Sodium (Na)	mg/L	-	-	1120	235	306	83.0	426	92.8																											

Guide Limit #1: T3-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.

Metals - SOIL

Analyte	Unit	Guide Limits								
		#1	#2	L2691773-1	L2691773-2	L2691773-4	L2691773-6	L2691773-8	L2691773-11	
				Lab ID	L2691773-1	L2691773-2	L2691773-4	L2691773-6	L2691773-8	L2691773-11
				Sample Date	07-MAR-22	07-MAR-22	07-MAR-22	07-MAR-22	10-MAR-22	10-MAR-22
				Sample ID	BH204 SS4	BH204 SS5B	BH203 SS1	BH203 SS4	BH205 SS2	BH205 SS7
Antimony (Sb)	ug/g	7.5	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic (As)	ug/g	18	-	4.2	6.4	2.2	5.6	4.5	7.5	
Barium (Ba)	ug/g	390	-	63.6	45.0	15.8	48.6	110	40.2	
Beryllium (Be)	ug/g	4	-	0.70	0.86	<0.50	0.72	0.53	0.61	
Boron (B)	ug/g	120	-	<5.0	10.7	<5.0	10.6	7.8	11.0	
Boron (B), Hot Water Ext.	ug/g	1.5	-	1.53	0.33	0.17	0.27	0.57	0.68	
Cadmium (Cd)	ug/g	1.2	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Chromium (Cr)	ug/g	160	-	19.7	25.9	7.0	23.9	20.2	21.3	
Cobalt (Co)	ug/g	22	-	6.9	15.7	2.7	13.3	8.9	12.7	
Copper (Cu)	ug/g	140	-	28.9	31.8	7.9	25.9	29.1	42.0	
Lead (Pb)	ug/g	120	-	8.1	9.6	5.7	8.4	24.1	11.2	
Mercury (Hg)	ug/g	0.27	-	0.113	0.0210	0.0196	0.0186	0.0732	0.0182	
Molybdenum (Mo)	ug/g	6.9	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Nickel (Ni)	ug/g	100	-	14.7	33.5	5.9	29.2	19.4	26.0	
Selenium (Se)	ug/g	2.4	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Silver (Ag)	ug/g	20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Thallium (Tl)	ug/g	1	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Uranium (U)	ug/g	23	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vanadium (V)	ug/g	86	-	23.7	31.7	16.9	31.3	30.2	27.9	
Zinc (Zn)	ug/g	340	-	43.0	68.3	13.8	68.2	68.4	60.9	

Guide Limit #1: T3-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.

Speciated Metals - SOIL

Analyte	Unit	Guide Limits								
		#1	#2							
Chromium, Hexavalent	ug/g	8	-	<0.20	<0.20	0.30	<0.20	<0.20	<0.20	<0.20

Guide Limit #1: T3-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.

Volatile Organic Compounds - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2691773-1	L2691773-3	L2691773-5	L2691773-7	L2691773-9	L2691773-10
		#1	#2	Sample Date	07-MAR-22	07-MAR-22	07-MAR-22	07-MAR-22	10-MAR-22	10-MAR-22
				Sample ID	BH204 SS4	BH204 SS6	BH203 SS2	BH203 SS6	BH205 SS3	BH205 SS6A
Acetone	ug/g	16	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	ug/g	0.21	-	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	ug/g	13	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	ug/g	0.27	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon tetrachloride	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	ug/g	2.4	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	ug/g	9.4	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dibromoethane	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	ug/g	3.4	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	ug/g	4.8	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	ug/g	0.083	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	ug/g	16	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	ug/g	3.5	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	ug/g	3.4	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
trans-1,2-Dichloroethylene	ug/g	0.084	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylene Chloride	ug/g	0.1	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	ug/g	0.05	-	<0.050	<0.050	<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	<0.030	<0.030
trans-1,3-Dichloropropene	ug/g	-	-	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
1,3-Dichloropropene (cis & trans)	ug/g	0.05	-	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
Ethylbenzene	ug/g	2	-	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
n-Hexane	ug/g	2.8	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Ethyl Ketone	ug/g	16	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	ug/g	1.7	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MTBE	ug/g	0.75	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	ug/g	0.7	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

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

Volatile Organic Compounds - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2691773-1	L2691773-3	L2691773-5	L2691773-7	L2691773-9	L2691773-10
		#1	#2	Sample Date	07-MAR-22	07-MAR-22	07-MAR-22	07-MAR-22	10-MAR-22	10-MAR-22
				Sample ID	BH204 SS4	BH204 SS6	BH203 SS2	BH203 SS6	BH205 SS3	BH205 SS6A
1,1,1,2-Tetrachloroethane	ug/g	0.058	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	ug/g	0.28	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	ug/g	2.3	-	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	ug/g	0.38	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	ug/g	0.061	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Trichlorofluoromethane	ug/g	4	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	ug/g	0.02	-	<0.020	<0.020	<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
m+p-Xylenes	ug/g	-	-	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes (Total)	ug/g	3.1	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Surrogate: 4-Bromofluorobenzene	%	-	-	68.0	79.9	77.6	76.6	76.1	79.9	
Surrogate: 1,4-Difluorobenzene	%	-	-	77.7	89.1	87.2	86.0	86.4	89.4	

Guide Limit #1: T3-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.

Hydrocarbons - SOIL

		Lab ID	L2691773-1	L2691773-3	L2691773-5	L2691773-7	L2691773-9	L2691773-10	
		Sample Date	07-MAR-22	07-MAR-22	07-MAR-22	07-MAR-22	10-MAR-22	10-MAR-22	
		Sample ID	BH204 SS4	BH204 SS6	BH203 SS2	BH203 SS6	BH205 SS3	BH205 SS6A	
Analyte	Unit	Guide Limits							
		#1	#2						
F1 (C6-C10)	ug/g	55	-	7.4	<5.0	<5.0	<5.0	<5.0	<5.0
F1-BTEX	ug/g	55	-	7.4	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	ug/g	98	-	579	<10	<10	496	<10	<10
F2-Naphth	ug/g	-	-	579					
F3 (C16-C34)	ug/g	300	-	437	<50	<50	939	<50	<50
F3-PAH	ug/g	-	-	437					
F4 (C34-C50)	ug/g	2800	-	<50	<50	<50	880	<50	<50
F4G-SG (GHH-Silica)	ug/g	2800	-						<250
Total Hydrocarbons (C6-C50)	ug/g	-	-	1020	<72	<72	2310	<72	<72
Chrom. to baseline at nC50		-	-	YES	YES	YES	NO	YES	YES
Surrogate: 2-Bromobenzotrifluoride	%	-	-	107.4	101.3	99.4	108.4	99.9	100.2
Surrogate: 3,4-Dichlorotoluene	%	-	-	71.8	91.7	88.8	86.9	79.0	89.5

Guide Limit #1: T3-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.

Polycyclic Aromatic Hydrocarbons - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2691773-1	L2691773-2	L2691773-4	L2691773-6	L2691773-8	L2691773-11
		#1	#2	Sample Date	07-MAR-22	07-MAR-22	07-MAR-22	07-MAR-22	10-MAR-22	10-MAR-22
				Sample ID	BH204 SS4	BH204 SS5B	BH203 SS1	BH203 SS4	BH205 SS2	BH205 SS7
Acenaphthene	ug/g	7.9	-	0.196 ^{AI}	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	ug/g	0.15	-	0.067 ^{AI}	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	ug/g	0.67	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)anthracene	ug/g	0.5	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	ug/g	0.3	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b&j)fluoranthene	ug/g	0.78	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	ug/g	6.6	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	ug/g	0.78	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	ug/g	7	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	ug/g	0.1	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	ug/g	0.69	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	ug/g	62	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	ug/g	0.38	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1+2-Methylnaphthalenes	ug/g	0.99	-	<0.057	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
1-Methylnaphthalene	ug/g	0.99	-	<0.040 ^{DLM}	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
2-Methylnaphthalene	ug/g	0.99	-	<0.040 ^{DLM}	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	ug/g	0.6	-	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Phenanthrene	ug/g	6.2	-	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046
Pyrene	ug/g	78	-	<0.050	<0.050	<0.050	<0.050	0.060	<0.050	<0.050
Surrogate: 2-Fluorobiphenyl	%	-	-	86.5	86.5	83.5	85.5	88.2	84.6	84.6
Surrogate: d14-Terphenyl	%	-	-	84.2	84.2	80.2	84.2	87.0	82.3	82.3

Guide Limit #1: T3-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.

Polychlorinated Biphenyls - SOIL

Lab ID	L2691773-1	L2691773-4	L2691773-8
Sample Date	07-MAR-22	07-MAR-22	10-MAR-22
Sample ID	BH204 SS4	BH203 SS1	BH205 SS2

Analyte	Unit	Guide Limits				
		#1	#2			
Aroclor 1242	ug/g	-	-	<0.010	<0.010	<0.010
Aroclor 1248	ug/g	-	-	<0.010	<0.010	<0.010
Aroclor 1254	ug/g	-	-	<0.010	<0.010	<0.010
Aroclor 1260	ug/g	-	-	<0.010	<0.010	<0.010
Total PCBs	ug/g	0.35	-	<0.020	<0.020	<0.020
Surrogate: d14-Terphenyl	%	-	-	81.4	77.6	81.5

Guide Limit #1: T3-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

Qualifiers for Individual Parameters Listed:

Qualifier	Description
AI	Analytical interferences may be present. Result may be biased high.
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**
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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).

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).

EC-WT Soil Conductivity (EC) MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

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

F1-F4-511-CALC-WT Soil F1-F4 Hydrocarbon Calculated Parameters CCME CWS-PHC, Pub #1310, Dec 2001-S

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

Reference Information

L2691773 CONT'D....
 Job Reference: 21-067
 PAGE 15 of 17
 23-MAR-22 14:47 (MT)

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT Soil F1-O.Reg 153/04 (July 2011) E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT Soil F2-F4-O.Reg 153/04 (July 2011) CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:

1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
4. F4G: Gravimetric Heavy Hydrocarbons
5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
8. This method is validated for use.
9. Data from analysis of validation and quality control samples is available upon request.
10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F4G-ADD-511-WT Soil F4G SG-O.Reg 153/04 (July 2011) MOE DECPC-E3398/CCME TIER 1

F4G, gravimetric analysis, is determined if the chromatogram does not return to baseline at or before C50. A soil sample is extracted with a solvent mix, the solvent is evaporated and the weight of the residue is determined.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

HG-200.2-CVAA-WT Soil Mercury in Soil by CVAAS EPA 200.2/1631E (mod)

Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

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

MET-200.2-CCMS-WT Soil Metals in Soil by CRC ICPMS EPA 200.2/6020B (mod)

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H₂S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT	Soil	ABN-Calculated Parameters	SW846 8270
MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
PAH-511-WT	Soil	PAH-O.Reg 153/04 (July 2011)	SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking 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).

PCB-511-WT	Soil	PCB-O.Reg 153/04 (July 2011)	SW846 3510/8082
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An aliquot of a solid sample is extracted with a solvent, extract is cleaned up and analyzed on the GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT	Soil	pH	MOEE E3137A
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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
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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).

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION

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

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

Chain of Custody Numbers:

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

Laboratory Definition Code	Laboratory Location
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: L2691773

Report Date: 23-MAR-22

Page 1 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT								
	Soil							
Batch	R5748577							
WG3707827-4	DUP	L2691870-2						
Boron (B), Hot Water Ext.		<0.10	<0.10	RPD-NA	ug/g	N/A	30	21-MAR-22
WG3707827-2	IRM	WT SAR4						
Boron (B), Hot Water Ext.			114.4		%		70-130	21-MAR-22
WG3707827-3	LCS							
Boron (B), Hot Water Ext.			105.0		%		70-130	21-MAR-22
WG3707827-1	MB							
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	21-MAR-22
CN-WAD-R511-WT								
	Soil							
Batch	R5748625							
WG3707359-3	DUP	L2691773-4						
Cyanide, Weak Acid Diss		<0.050	<0.050	RPD-NA	ug/g	N/A	35	21-MAR-22
WG3707359-2	LCS							
Cyanide, Weak Acid Diss			82.8		%		80-120	21-MAR-22
WG3707359-1	MB							
Cyanide, Weak Acid Diss			<0.050		ug/g		0.05	21-MAR-22
WG3707359-4	MS	L2691773-4						
Cyanide, Weak Acid Diss			90.1		%		70-130	21-MAR-22
CR-CR6-IC-WT								
	Soil							
Batch	R5749082							
WG3707342-4	CRM	WT-SQC012						
Chromium, Hexavalent			76.2		%		70-130	22-MAR-22
WG3707342-3	DUP	L2691730-12						
Chromium, Hexavalent		<0.20	<0.20	RPD-NA	ug/g	N/A	35	22-MAR-22
WG3707342-2	LCS							
Chromium, Hexavalent			90.0		%		80-120	22-MAR-22
WG3707342-1	MB							
Chromium, Hexavalent			<0.20		ug/g		0.2	22-MAR-22
EC-WT								
	Soil							
Batch	R5748456							
WG3707840-4	DUP	WG3707840-3						
Conductivity		0.196	0.197		mS/cm	0.6	20	21-MAR-22
WG3707840-2	IRM	WT SAR4						
Conductivity			114.8		%		70-130	21-MAR-22
WG3708031-1	LCS							
Conductivity			99.9		%		90-110	21-MAR-22
WG3707840-1	MB							



Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

Page 2 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-WT		Soil						
Batch	R5748456							
WG3707840-1	MB							
Conductivity			<0.0040		mS/cm		0.004	21-MAR-22
F1-HS-511-WT		Soil						
Batch	R5747896							
WG3706817-4	DUP	WG3706817-3						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	18-MAR-22
WG3706817-2	LCS							
F1 (C6-C10)			109.4		%		80-120	18-MAR-22
WG3706817-1	MB							
F1 (C6-C10)			<5.0		ug/g		5	18-MAR-22
Surrogate: 3,4-Dichlorotoluene			99.2		%		60-140	18-MAR-22
WG3706817-5	MS	WG3706817-3						
F1 (C6-C10)			108.2		%		60-140	18-MAR-22
F2-F4-511-WT		Soil						
Batch	R5748597							
WG3707309-3	DUP	WG3707309-5						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	40	21-MAR-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	40	21-MAR-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	40	21-MAR-22
WG3707309-2	LCS							
F2 (C10-C16)			105.7		%		70-130	21-MAR-22
F3 (C16-C34)			104.9		%		70-130	21-MAR-22
F4 (C34-C50)			111.6		%		70-130	21-MAR-22
WG3707309-1	MB							
F2 (C10-C16)			<10		ug/g		10	21-MAR-22
F3 (C16-C34)			<50		ug/g		50	21-MAR-22
F4 (C34-C50)			<50		ug/g		50	21-MAR-22
Surrogate: 2-Bromobenzotrifluoride			102.8		%		60-140	21-MAR-22
WG3707309-4	MS	WG3707309-5						
F2 (C10-C16)			100.7		%		60-140	21-MAR-22
F3 (C16-C34)			103.2		%		60-140	21-MAR-22
F4 (C34-C50)			110.0		%		60-140	21-MAR-22
F4G-ADD-511-WT		Soil						



Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

Page 3 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F4G-ADD-511-WT	Soil							
Batch	R5748911							
WG3708596-5	LCS							
F4G-SG (GHH-Silica)			88.2		%		60-140	18-MAR-22
WG3708596-4	MB							
F4G-SG (GHH-Silica)			<250		ug/g		250	18-MAR-22
HG-200.2-CVAA-WT	Soil							
Batch	R5748534							
WG3707815-2	CRM	WT-SS-2						
Mercury (Hg)			115.0		%		70-130	21-MAR-22
WG3707815-6	DUP	WG3707815-5						
Mercury (Hg)		0.0521	0.0530		ug/g	1.9	40	21-MAR-22
WG3707815-3	LCS							
Mercury (Hg)			95.0		%		80-120	21-MAR-22
WG3707815-1	MB							
Mercury (Hg)			<0.0050		mg/kg		0.005	21-MAR-22
MET-200.2-CCMS-WT	Soil							
Batch	R5748870							
WG3707815-2	CRM	WT-SS-2						
Antimony (Sb)			89.0		%		70-130	21-MAR-22
Arsenic (As)			95.2		%		70-130	21-MAR-22
Barium (Ba)			103.8		%		70-130	21-MAR-22
Beryllium (Be)			100.5		%		70-130	21-MAR-22
Boron (B)			7.6		mg/kg		3.5-13.5	21-MAR-22
Cadmium (Cd)			99.2		%		70-130	21-MAR-22
Chromium (Cr)			96.7		%		70-130	21-MAR-22
Cobalt (Co)			99.5		%		70-130	21-MAR-22
Copper (Cu)			100.1		%		70-130	21-MAR-22
Lead (Pb)			97.7		%		70-130	21-MAR-22
Molybdenum (Mo)			96.1		%		70-130	21-MAR-22
Nickel (Ni)			99.8		%		70-130	21-MAR-22
Selenium (Se)			0.11		mg/kg		0-0.34	21-MAR-22
Silver (Ag)			84.2		%		70-130	21-MAR-22
Thallium (Tl)			0.072		mg/kg		0.029-0.129	21-MAR-22
Uranium (U)			92.5		%		70-130	21-MAR-22
Vanadium (V)			97.9		%		70-130	21-MAR-22
Zinc (Zn)			96.5		%		70-130	21-MAR-22
WG3707815-6	DUP	WG3707815-5						



Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

Page 4 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5748870							
WG3707815-6	DUP	WG3707815-5						
Antimony (Sb)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	21-MAR-22
Arsenic (As)		3.33	3.33		ug/g	0.0	30	21-MAR-22
Barium (Ba)		152	157		ug/g	3.1	40	21-MAR-22
Beryllium (Be)		0.75	0.77		ug/g	1.9	30	21-MAR-22
Boron (B)		7.2	7.1		ug/g	1.6	30	21-MAR-22
Cadmium (Cd)		0.314	0.317		ug/g	1.2	30	21-MAR-22
Chromium (Cr)		31.3	31.5		ug/g	0.6	30	21-MAR-22
Cobalt (Co)		9.01	9.10		ug/g	1.0	30	21-MAR-22
Copper (Cu)		17.4	17.5		ug/g	0.5	30	21-MAR-22
Lead (Pb)		12.1	12.0		ug/g	0.8	40	21-MAR-22
Molybdenum (Mo)		0.34	0.36		ug/g	5.3	40	21-MAR-22
Nickel (Ni)		20.8	20.9		ug/g	0.5	30	21-MAR-22
Selenium (Se)		0.26	0.24		ug/g	5.4	30	21-MAR-22
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	21-MAR-22
Thallium (Tl)		0.210	0.203		ug/g	3.6	30	21-MAR-22
Uranium (U)		0.654	0.619		ug/g	5.5	30	21-MAR-22
Vanadium (V)		43.9	43.7		ug/g	0.5	30	21-MAR-22
Zinc (Zn)		68.8	68.4		ug/g	0.6	30	21-MAR-22
WG3707815-4	LCS							
Antimony (Sb)			105.4		%		80-120	21-MAR-22
Arsenic (As)			106.3		%		80-120	21-MAR-22
Barium (Ba)			101.1		%		80-120	21-MAR-22
Beryllium (Be)			98.5		%		80-120	21-MAR-22
Boron (B)			91.0		%		80-120	21-MAR-22
Cadmium (Cd)			99.0		%		80-120	21-MAR-22
Chromium (Cr)			104.8		%		80-120	21-MAR-22
Cobalt (Co)			103.4		%		80-120	21-MAR-22
Copper (Cu)			102.2		%		80-120	21-MAR-22
Lead (Pb)			100.1		%		80-120	21-MAR-22
Molybdenum (Mo)			101.3		%		80-120	21-MAR-22
Nickel (Ni)			103.2		%		80-120	21-MAR-22
Selenium (Se)			105.4		%		80-120	21-MAR-22
Silver (Ag)			93.2		%		80-120	21-MAR-22



Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

Page 5 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT								
	Soil							
Batch	R5748870							
WG3707815-4	LCS							
Thallium (Tl)			102.7		%		80-120	21-MAR-22
Uranium (U)			96.9		%		80-120	21-MAR-22
Vanadium (V)			106.6		%		80-120	21-MAR-22
Zinc (Zn)			110.4		%		80-120	21-MAR-22
WG3707815-1	MB							
Antimony (Sb)			<0.10		mg/kg		0.1	21-MAR-22
Arsenic (As)			<0.10		mg/kg		0.1	21-MAR-22
Barium (Ba)			<0.50		mg/kg		0.5	21-MAR-22
Beryllium (Be)			<0.10		mg/kg		0.1	21-MAR-22
Boron (B)			<5.0		mg/kg		5	21-MAR-22
Cadmium (Cd)			<0.020		mg/kg		0.02	21-MAR-22
Chromium (Cr)			<0.50		mg/kg		0.5	21-MAR-22
Cobalt (Co)			<0.10		mg/kg		0.1	21-MAR-22
Copper (Cu)			<0.50		mg/kg		0.5	21-MAR-22
Lead (Pb)			<0.50		mg/kg		0.5	21-MAR-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	21-MAR-22
Nickel (Ni)			<0.50		mg/kg		0.5	21-MAR-22
Selenium (Se)			<0.20		mg/kg		0.2	21-MAR-22
Silver (Ag)			<0.10		mg/kg		0.1	21-MAR-22
Thallium (Tl)			<0.050		mg/kg		0.05	21-MAR-22
Uranium (U)			<0.050		mg/kg		0.05	21-MAR-22
Vanadium (V)			<0.20		mg/kg		0.2	21-MAR-22
Zinc (Zn)			<2.0		mg/kg		2	21-MAR-22
MOISTURE-WT								
	Soil							
Batch	R5747666							
WG3707355-3	DUP	L2691787-1						
% Moisture		21.0	20.2		%	3.7	20	17-MAR-22
WG3707355-2	LCS							
% Moisture			100.1		%		90-110	17-MAR-22
WG3707355-1	MB							
% Moisture			<0.25		%		0.25	17-MAR-22
Batch	R5747685							
WG3707357-3	DUP	L2691773-4						
% Moisture		12.9	11.0		%	16	20	19-MAR-22
WG3707357-2	LCS							



Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

Page 6 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT		Soil						
Batch	R5747685							
WG3707357-2	LCS							
% Moisture			99.8		%		90-110	19-MAR-22
WG3707357-1	MB							
% Moisture			<0.25		%		0.25	19-MAR-22
Batch	R5749248							
WG3708021-2	LCS							
% Moisture			100.7		%		90-110	22-MAR-22
WG3708021-1	MB							
% Moisture			<0.25		%		0.25	22-MAR-22
PAH-511-WT		Soil						
Batch	R5747036							
WG3706797-3	DUP	WG3706797-5						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	17-MAR-22
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	17-MAR-22
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	17-MAR-22
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	17-MAR-22
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	17-MAR-22
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	17-MAR-22
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	17-MAR-22
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	17-MAR-22
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	17-MAR-22
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	17-MAR-22
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	17-MAR-22
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	17-MAR-22
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	17-MAR-22
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	17-MAR-22
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	17-MAR-22
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	17-MAR-22
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	17-MAR-22
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	17-MAR-22
WG3706797-2	LCS							
1-Methylnaphthalene			86.9		%		50-140	17-MAR-22
2-Methylnaphthalene			86.7		%		50-140	17-MAR-22
Acenaphthene			85.0		%		50-140	17-MAR-22
Acenaphthylene			81.3		%		50-140	17-MAR-22



Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

Page 7 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch	R5747036							
WG3706797-2	LCS							
Anthracene			75.0		%		50-140	17-MAR-22
Benzo(a)anthracene			79.7		%		50-140	17-MAR-22
Benzo(a)pyrene			79.4		%		50-140	17-MAR-22
Benzo(b&j)fluoranthene			81.1		%		50-140	17-MAR-22
Benzo(g,h,i)perylene			83.1		%		50-140	17-MAR-22
Benzo(k)fluoranthene			83.0		%		50-140	17-MAR-22
Chrysene			86.5		%		50-140	17-MAR-22
Dibenz(a,h)anthracene			80.7		%		50-140	17-MAR-22
Fluoranthene			81.9		%		50-140	17-MAR-22
Fluorene			83.3		%		50-140	17-MAR-22
Indeno(1,2,3-cd)pyrene			74.5		%		50-140	17-MAR-22
Naphthalene			86.2		%		50-140	17-MAR-22
Phenanthrene			84.4		%		50-140	17-MAR-22
Pyrene			81.8		%		50-140	17-MAR-22
WG3706797-1	MB							
1-Methylnaphthalene			<0.030		ug/g		0.03	17-MAR-22
2-Methylnaphthalene			<0.030		ug/g		0.03	17-MAR-22
Acenaphthene			<0.050		ug/g		0.05	17-MAR-22
Acenaphthylene			<0.050		ug/g		0.05	17-MAR-22
Anthracene			<0.050		ug/g		0.05	17-MAR-22
Benzo(a)anthracene			<0.050		ug/g		0.05	17-MAR-22
Benzo(a)pyrene			<0.050		ug/g		0.05	17-MAR-22
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	17-MAR-22
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	17-MAR-22
Benzo(k)fluoranthene			<0.050		ug/g		0.05	17-MAR-22
Chrysene			<0.050		ug/g		0.05	17-MAR-22
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	17-MAR-22
Fluoranthene			<0.050		ug/g		0.05	17-MAR-22
Fluorene			<0.050		ug/g		0.05	17-MAR-22
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	17-MAR-22
Naphthalene			<0.013		ug/g		0.013	17-MAR-22
Phenanthrene			<0.046		ug/g		0.046	17-MAR-22
Pyrene			<0.050		ug/g		0.05	17-MAR-22
Surrogate: 2-Fluorobiphenyl			83.4		%		50-140	17-MAR-22



Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

Page 8 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed	
PAH-511-WT		Soil							
Batch	R5747036								
WG3706797-1	MB								
Surrogate: d14-Terphenyl			76.6		%		50-140	17-MAR-22	
WG3706797-4	MS	WG3706797-5							
1-Methylnaphthalene			91.2		%		50-140	17-MAR-22	
2-Methylnaphthalene			92.8		%		50-140	17-MAR-22	
Acenaphthene			92.3		%		50-140	17-MAR-22	
Acenaphthylene			95.6		%		50-140	17-MAR-22	
Anthracene			84.8		%		50-140	17-MAR-22	
Benzo(a)anthracene			97.9		%		50-140	17-MAR-22	
Benzo(a)pyrene			92.3		%		50-140	17-MAR-22	
Benzo(b&j)fluoranthene			92.0		%		50-140	17-MAR-22	
Benzo(g,h,i)perylene			83.8		%		50-140	17-MAR-22	
Benzo(k)fluoranthene			87.7		%		50-140	17-MAR-22	
Chrysene			88.3		%		50-140	17-MAR-22	
Dibenz(a,h)anthracene			85.2		%		50-140	17-MAR-22	
Fluoranthene			94.7		%		50-140	17-MAR-22	
Fluorene			94.6		%		50-140	17-MAR-22	
Indeno(1,2,3-cd)pyrene			93.0		%		50-140	17-MAR-22	
Naphthalene			88.6		%		50-140	17-MAR-22	
Phenanthrene			86.9		%		50-140	17-MAR-22	
Pyrene			91.8		%		50-140	17-MAR-22	
PCB-511-WT		Soil							
Batch	R5747277								
WG3706797-3	DUP	WG3706797-5							
Aroclor 1242			<0.010	<0.010	RPD-NA	ug/g	N/A	40	18-MAR-22
Aroclor 1248			<0.010	<0.010	RPD-NA	ug/g	N/A	40	18-MAR-22
Aroclor 1254			<0.010	<0.010	RPD-NA	ug/g	N/A	40	18-MAR-22
Aroclor 1260			<0.010	<0.010	RPD-NA	ug/g	N/A	40	18-MAR-22
WG3706797-2	LCS								
Aroclor 1242			87.6		%		60-140	18-MAR-22	
Aroclor 1248			89.1		%		60-140	18-MAR-22	
Aroclor 1254			82.8		%		60-140	18-MAR-22	
Aroclor 1260			80.8		%		60-140	18-MAR-22	
WG3706797-1	MB								
Aroclor 1242			<0.010		ug/g		0.01	18-MAR-22	



Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

Page 9 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-511-WT		Soil						
Batch R5747277								
WG3706797-1	MB							
Aroclor 1248			<0.010		ug/g		0.01	18-MAR-22
Aroclor 1254			<0.010		ug/g		0.01	18-MAR-22
Aroclor 1260			<0.010		ug/g		0.01	18-MAR-22
Surrogate: d14-Terphenyl			76.1		%		60-140	18-MAR-22
WG3706797-4	MS	WG3706797-5						
Aroclor 1242			97.3		%		60-140	18-MAR-22
Aroclor 1254			93.7		%		60-140	18-MAR-22
Aroclor 1260			93.1		%		60-140	18-MAR-22
PH-WT		Soil						
Batch R5748504								
WG3707276-1	DUP	L2691773-4						
pH		7.56	7.58	J	pH units	0.02	0.3	21-MAR-22
WG3707475-1	LCS							
pH			6.99		pH units		6.9-7.1	21-MAR-22
Batch R5748690								
WG3707484-1	DUP	L2691757-1						
pH		9.98	10.23	J	pH units	0.25	0.3	21-MAR-22
WG3708080-1	LCS							
pH			6.96		pH units		6.9-7.1	21-MAR-22
SAR-R511-WT		Soil						
Batch R5748591								
WG3707840-4	DUP	WG3707840-3						
Calcium (Ca)		5.73	5.49		mg/L	4.3	30	21-MAR-22
Sodium (Na)		42.0	42.5		mg/L	1.2	30	21-MAR-22
Magnesium (Mg)		<0.50	0.52	RPD-NA	mg/L	N/A	30	21-MAR-22
WG3707840-2	IRM	WT SAR4						
Calcium (Ca)			104.8		%		70-130	21-MAR-22
Sodium (Na)			106.0		%		70-130	21-MAR-22
Magnesium (Mg)			107.8		%		70-130	21-MAR-22
WG3707840-5	LCS							
Calcium (Ca)			109.7		%		80-120	21-MAR-22
Sodium (Na)			108.2		%		80-120	21-MAR-22
Magnesium (Mg)			108.2		%		80-120	21-MAR-22
WG3707840-1	MB							
Calcium (Ca)			<0.50		mg/L		0.5	21-MAR-22



Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

Page 10 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAR-R511-WT	Soil							
Batch R5748591								
WG3707840-1 MB								
Sodium (Na)			<0.50		mg/L		0.5	21-MAR-22
Magnesium (Mg)			<0.50		mg/L		0.5	21-MAR-22
VOC-511-HS-WT	Soil							
Batch R5747896								
WG3706817-4 DUP		WG3706817-3						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	18-MAR-22
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	18-MAR-22
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	18-MAR-22
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	18-MAR-22
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22



Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

Page 11 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5747896							
WG3706817-4	DUP	WG3706817-3						
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	18-MAR-22
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	18-MAR-22
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	18-MAR-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-MAR-22
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	18-MAR-22
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	18-MAR-22
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	18-MAR-22
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-MAR-22
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-MAR-22
WG3706817-2	LCS							
1,1,1,2-Tetrachloroethane			101.3		%		60-130	18-MAR-22
1,1,1,2,2-Tetrachloroethane			102.3		%		60-130	18-MAR-22
1,1,1-Trichloroethane			103.0		%		60-130	18-MAR-22
1,1,2-Trichloroethane			99.5		%		60-130	18-MAR-22
1,1-Dichloroethane			98.5		%		60-130	18-MAR-22
1,1-Dichloroethylene			97.1		%		60-130	18-MAR-22
1,2-Dibromoethane			97.9		%		70-130	18-MAR-22
1,2-Dichlorobenzene			99.8		%		70-130	18-MAR-22
1,2-Dichloroethane			97.3		%		60-130	18-MAR-22
1,2-Dichloropropane			99.3		%		70-130	18-MAR-22
1,3-Dichlorobenzene			99.1		%		70-130	18-MAR-22
1,4-Dichlorobenzene			98.7		%		70-130	18-MAR-22
Acetone			112.0		%		60-140	18-MAR-22
Benzene			98.8		%		70-130	18-MAR-22
Bromodichloromethane			103.0		%		50-140	18-MAR-22
Bromoform			107.9		%		70-130	18-MAR-22
Bromomethane			90.3		%		50-140	18-MAR-22
Carbon tetrachloride			102.7		%		70-130	18-MAR-22
Chlorobenzene			99.2		%		70-130	18-MAR-22
Chloroform			100.0		%		70-130	18-MAR-22



Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

Page 12 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5747896							
WG3706817-2	LCS							
cis-1,2-Dichloroethylene			108.5		%		70-130	18-MAR-22
cis-1,3-Dichloropropene			96.5		%		70-130	18-MAR-22
Dibromochloromethane			99.99		%		60-130	18-MAR-22
Dichlorodifluoromethane			73.3		%		50-140	18-MAR-22
Ethylbenzene			101.5		%		70-130	18-MAR-22
n-Hexane			87.9		%		70-130	18-MAR-22
Methylene Chloride			99.1		%		70-130	18-MAR-22
MTBE			97.6		%		70-130	18-MAR-22
m+p-Xylenes			101.1		%		70-130	18-MAR-22
Methyl Ethyl Ketone			105.7		%		60-140	18-MAR-22
Methyl Isobutyl Ketone			108.4		%		60-140	18-MAR-22
o-Xylene			100.4		%		70-130	18-MAR-22
Styrene			93.6		%		70-130	18-MAR-22
Tetrachloroethylene			96.3		%		60-130	18-MAR-22
Toluene			99.8		%		70-130	18-MAR-22
trans-1,2-Dichloroethylene			98.7		%		60-130	18-MAR-22
trans-1,3-Dichloropropene			97.9		%		70-130	18-MAR-22
Trichloroethylene			101.0		%		60-130	18-MAR-22
Trichlorofluoromethane			95.5		%		50-140	18-MAR-22
Vinyl chloride			87.8		%		60-140	18-MAR-22
WG3706817-1	MB							
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	18-MAR-22
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	18-MAR-22
1,1,1-Trichloroethane			<0.050		ug/g		0.05	18-MAR-22
1,1,2-Trichloroethane			<0.050		ug/g		0.05	18-MAR-22
1,1-Dichloroethane			<0.050		ug/g		0.05	18-MAR-22
1,1-Dichloroethylene			<0.050		ug/g		0.05	18-MAR-22
1,2-Dibromoethane			<0.050		ug/g		0.05	18-MAR-22
1,2-Dichlorobenzene			<0.050		ug/g		0.05	18-MAR-22
1,2-Dichloroethane			<0.050		ug/g		0.05	18-MAR-22
1,2-Dichloropropane			<0.050		ug/g		0.05	18-MAR-22
1,3-Dichlorobenzene			<0.050		ug/g		0.05	18-MAR-22
1,4-Dichlorobenzene			<0.050		ug/g		0.05	18-MAR-22
Acetone			<0.50		ug/g		0.5	18-MAR-22



Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

Page 13 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Soil							
Batch	R5747896							
WG3706817-1	MB							
Benzene			<0.0068		ug/g		0.0068	18-MAR-22
Bromodichloromethane			<0.050		ug/g		0.05	18-MAR-22
Bromoform			<0.050		ug/g		0.05	18-MAR-22
Bromomethane			<0.050		ug/g		0.05	18-MAR-22
Carbon tetrachloride			<0.050		ug/g		0.05	18-MAR-22
Chlorobenzene			<0.050		ug/g		0.05	18-MAR-22
Chloroform			<0.050		ug/g		0.05	18-MAR-22
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	18-MAR-22
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	18-MAR-22
Dibromochloromethane			<0.050		ug/g		0.05	18-MAR-22
Dichlorodifluoromethane			<0.050		ug/g		0.05	18-MAR-22
Ethylbenzene			<0.018		ug/g		0.018	18-MAR-22
n-Hexane			<0.050		ug/g		0.05	18-MAR-22
Methylene Chloride			<0.050		ug/g		0.05	18-MAR-22
MTBE			<0.050		ug/g		0.05	18-MAR-22
m+p-Xylenes			<0.030		ug/g		0.03	18-MAR-22
Methyl Ethyl Ketone			<0.50		ug/g		0.5	18-MAR-22
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	18-MAR-22
o-Xylene			<0.020		ug/g		0.02	18-MAR-22
Styrene			<0.050		ug/g		0.05	18-MAR-22
Tetrachloroethylene			<0.050		ug/g		0.05	18-MAR-22
Toluene			<0.080		ug/g		0.08	18-MAR-22
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	18-MAR-22
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	18-MAR-22
Trichloroethylene			<0.010		ug/g		0.01	18-MAR-22
Trichlorofluoromethane			<0.050		ug/g		0.05	18-MAR-22
Vinyl chloride			<0.020		ug/g		0.02	18-MAR-22
Surrogate: 1,4-Difluorobenzene			99.7		%		50-140	18-MAR-22
Surrogate: 4-Bromofluorobenzene			86.1		%		50-140	18-MAR-22
WG3706817-5	MS	WG3706817-3						
1,1,1,2-Tetrachloroethane			103.9		%		50-140	18-MAR-22
1,1,1,2,2-Tetrachloroethane			106.3		%		50-140	18-MAR-22
1,1,1-Trichloroethane			106.3		%		50-140	18-MAR-22
1,1,2-Trichloroethane			102.4		%		50-140	18-MAR-22



Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

Page 14 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Soil							
Batch	R5747896							
WG3706817-5 MS		WG3706817-3						
1,1-Dichloroethane			103.9		%		50-140	18-MAR-22
1,1-Dichloroethylene			102.9		%		50-140	18-MAR-22
1,2-Dibromoethane			99.9		%		50-140	18-MAR-22
1,2-Dichlorobenzene			102.7		%		50-140	18-MAR-22
1,2-Dichloroethane			100.5		%		50-140	18-MAR-22
1,2-Dichloropropane			101.5		%		50-140	18-MAR-22
1,3-Dichlorobenzene			101.6		%		50-140	18-MAR-22
1,4-Dichlorobenzene			101.5		%		50-140	18-MAR-22
Acetone			109.9		%		50-140	18-MAR-22
Benzene			102.6		%		50-140	18-MAR-22
Bromodichloromethane			105.5		%		50-140	18-MAR-22
Bromoform			112.2		%		50-140	18-MAR-22
Bromomethane			98.1		%		50-140	18-MAR-22
Carbon tetrachloride			106.3		%		50-140	18-MAR-22
Chlorobenzene			101.6		%		50-140	18-MAR-22
Chloroform			103.2		%		50-140	18-MAR-22
cis-1,2-Dichloroethylene			112.4		%		50-140	18-MAR-22
cis-1,3-Dichloropropene			97.3		%		50-140	18-MAR-22
Dibromochloromethane			102.9		%		50-140	18-MAR-22
Dichlorodifluoromethane			101.0		%		50-140	18-MAR-22
Ethylbenzene			104.5		%		50-140	18-MAR-22
n-Hexane			95.9		%		50-140	18-MAR-22
Methylene Chloride			103.4		%		50-140	18-MAR-22
MTBE			101.1		%		50-140	18-MAR-22
m+p-Xylenes			103.8		%		50-140	18-MAR-22
Methyl Ethyl Ketone			106.6		%		50-140	18-MAR-22
Methyl Isobutyl Ketone			109.5		%		50-140	18-MAR-22
o-Xylene			103.3		%		50-140	18-MAR-22
Styrene			96.7		%		50-140	18-MAR-22
Tetrachloroethylene			99.6		%		50-140	18-MAR-22
Toluene			102.8		%		50-140	18-MAR-22
trans-1,2-Dichloroethylene			102.9		%		50-140	18-MAR-22
trans-1,3-Dichloropropene			98.5		%		50-140	18-MAR-22



Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

Page 15 of 16

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch	R5747896							
WG3706817-5 MS		WG3706817-3						
Trichloroethylene			104.3		%		50-140	18-MAR-22
Trichlorofluoromethane			104.9		%		50-140	18-MAR-22
Vinyl chloride			98.9		%		50-140	18-MAR-22

Quality Control Report

Workorder: L2691773

Report Date: 23-MAR-22

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

Page 16 of 16

Contact: Nicholas Piers

Legend:

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

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

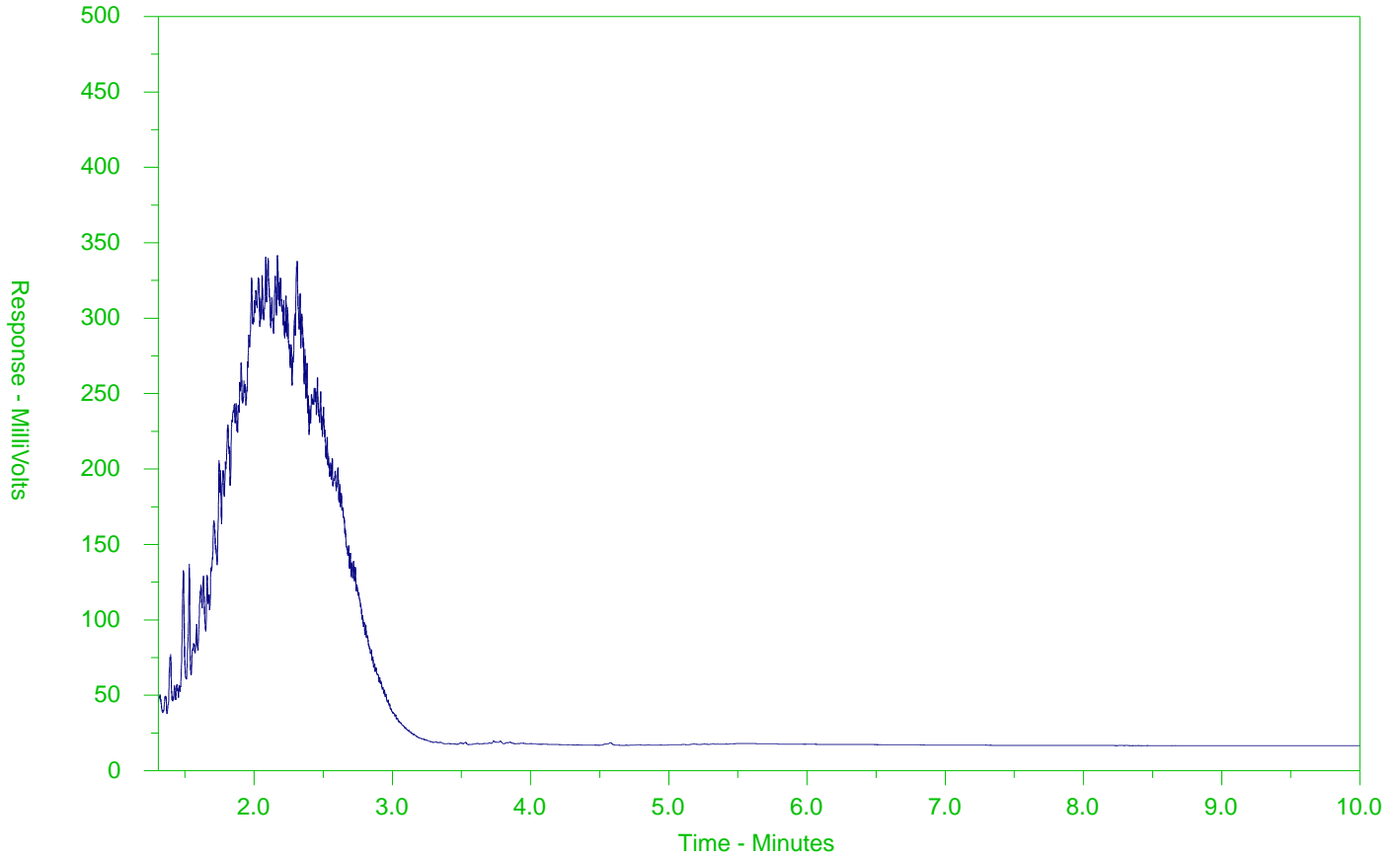
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2691773-1
 Client Sample ID: BH204 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.

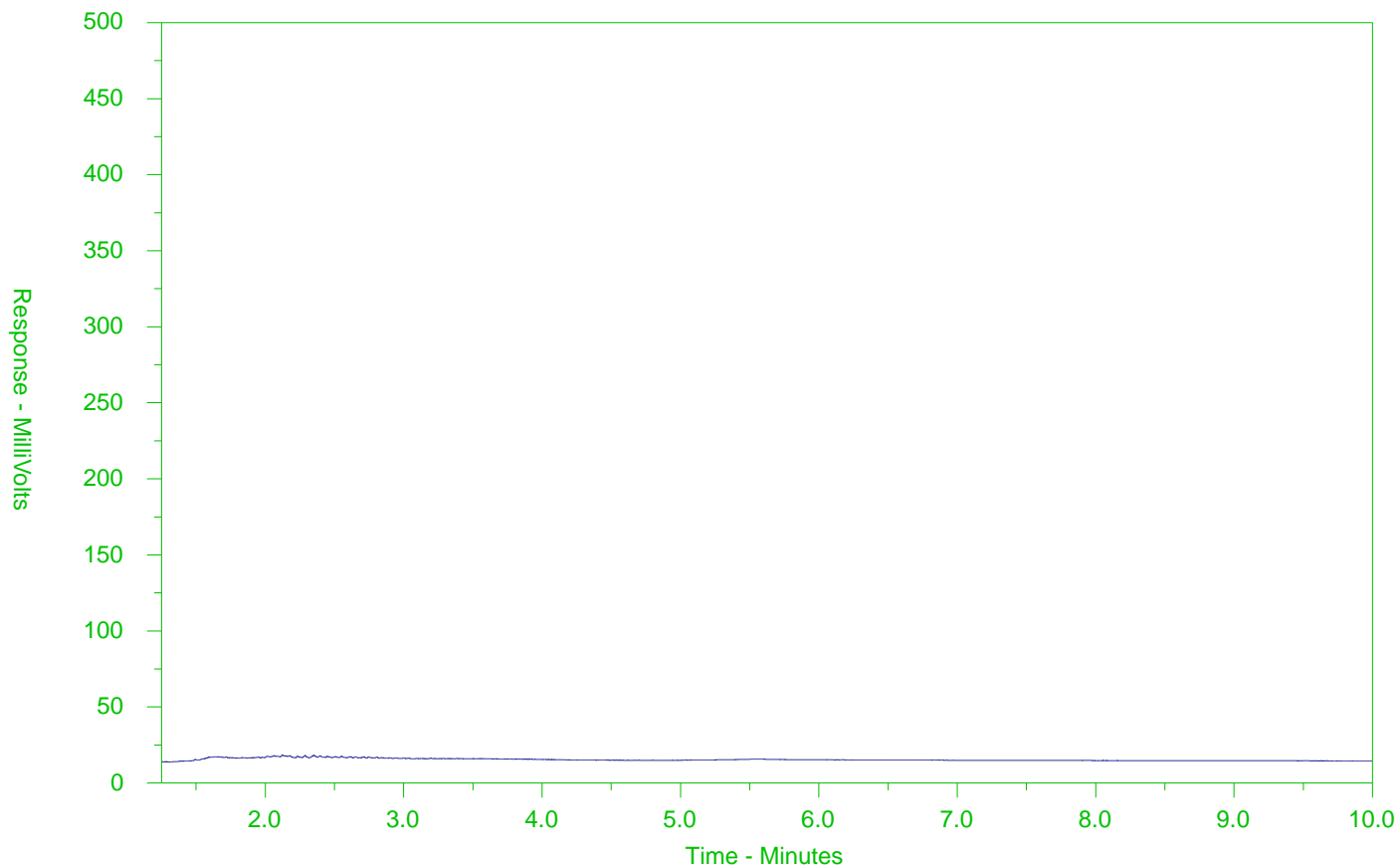
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2691773-3
 Client Sample ID: BH204 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.

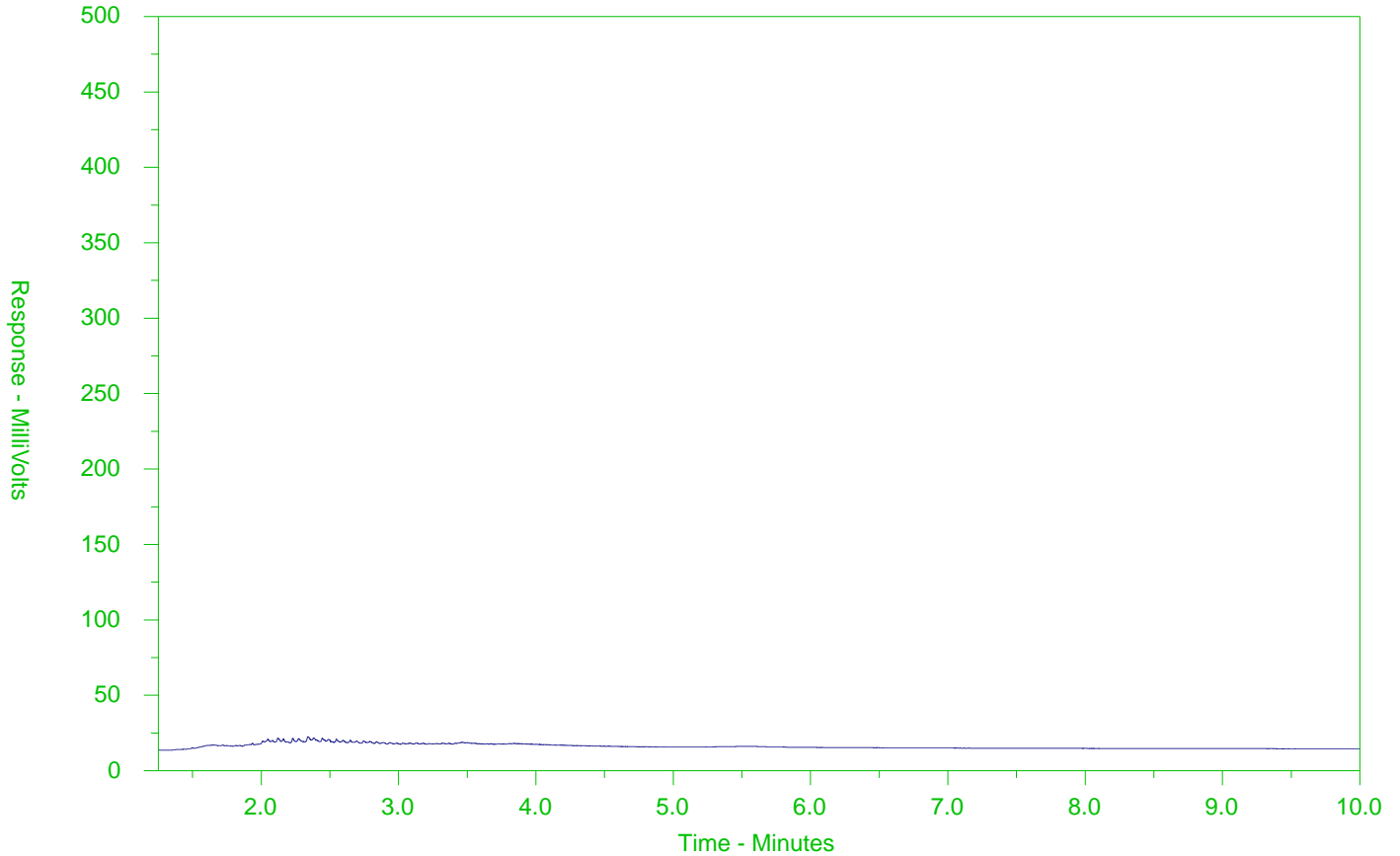
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2691773-5
 Client Sample ID: BH203 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.

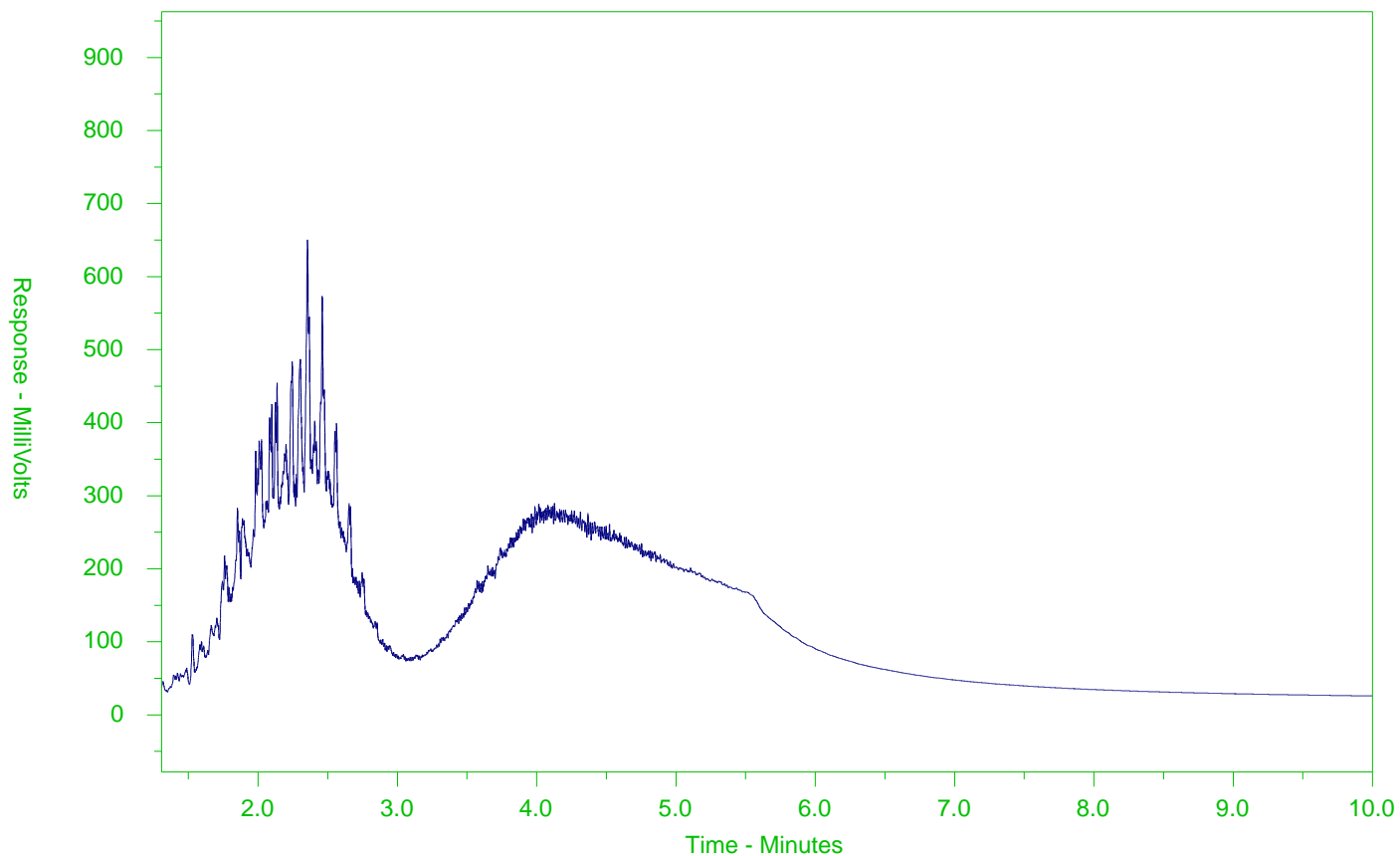
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2691773-7
 Client Sample ID: BH203 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.

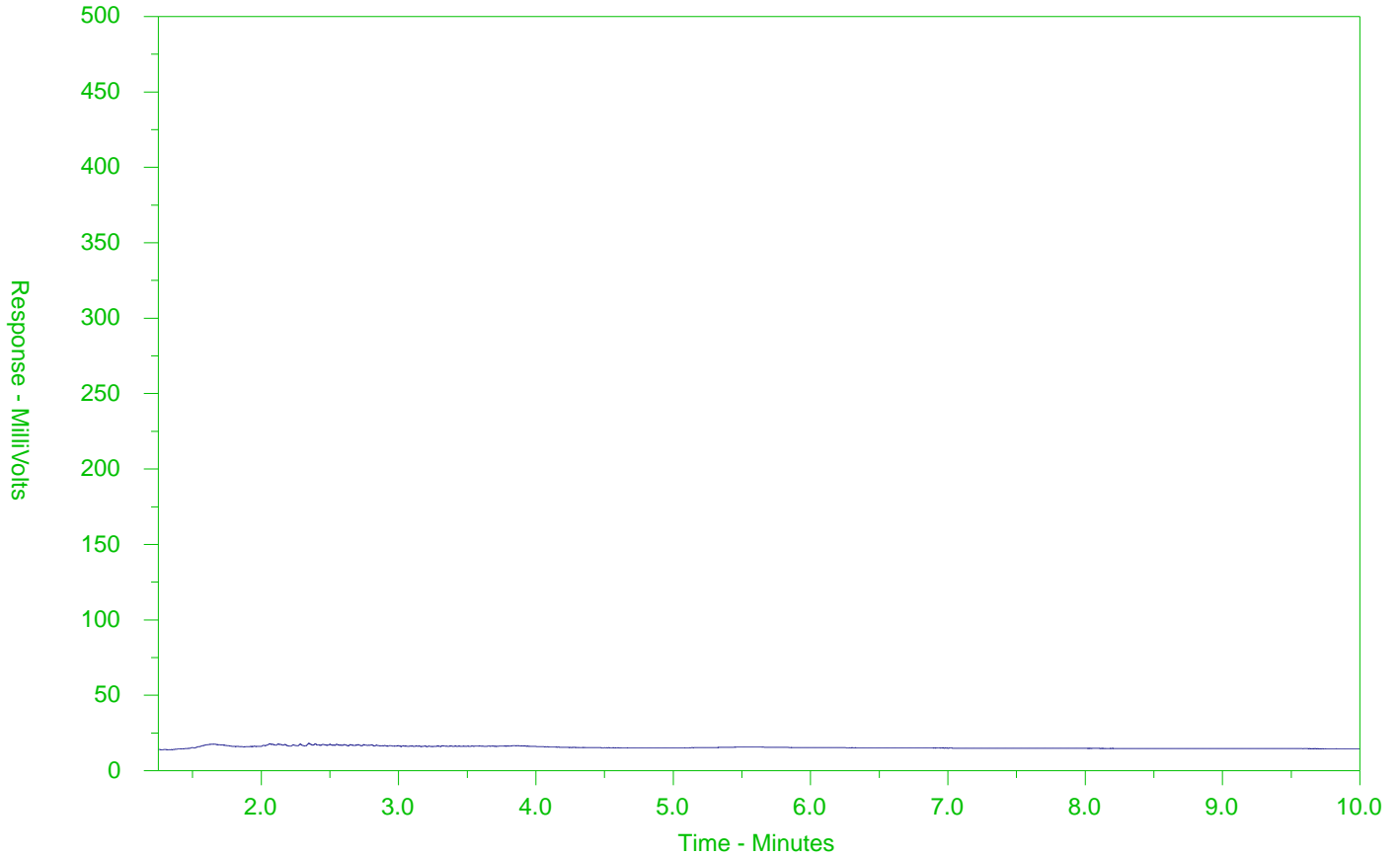
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2691773-9
 Client Sample ID: BH205 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.

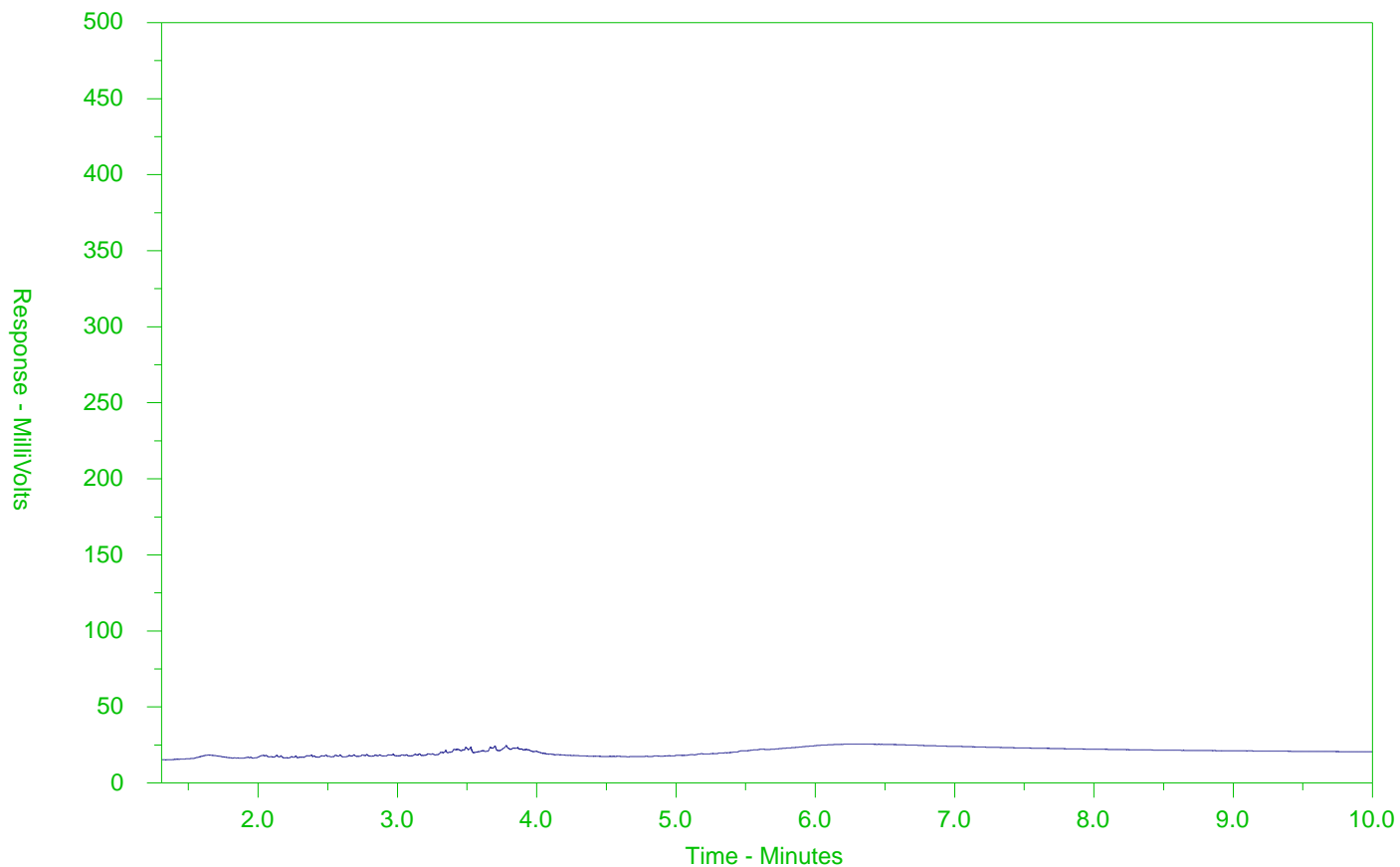
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2691773-10
 Client Sample ID: BH205 SS6A



← 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) / Analyti



#: 20-955223

Canada Toll Free: 1 800 66

L2691773-COFC

Page 1 of 1

Report To
Contact and company name below will appear on the final report

Company: Grounded Engineering
Contact: Nicholas Piers
Phone: 416-484-5234
Company address below will appear on the final report
Street: 1 Baringan Dr
City/Province: Toronto ON
Postal Code: M4H 1G3

Reports / Recipients
Select Report Format: PDF EXCEL EDD (DIGITAL)
Merge QC/QCI Reports with COA YES NO N/A
 Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: EMAIL MAIL FAX
Email 1 or Fax: npiers@groundedeng.ca
Email 2:
Email 3:

Turnaround Time (TAT) Requested
 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-F - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests

Invoice To
Same as Report To YES NO
Copy of Invoice with Report YES NO

Invoice Recipients
Select Invoice Distribution: EMAIL MAIL FAX
Email 1 or Fax:
Email 2:
Email 3:

Project Information
ALS Account # / Quote #: 21-067
Job #: 21-067
PO / AFE:
LSD: 60 DIANDAS ST. MISSISSAUGA
ALS Lab Work Order # (ALS use only): L0691773
Oil and Gas Required Fields (client use):
AFE/Cost Center: PO#
Major/Minor Code: Routing Code:
Requisitioner:
Location:
ALS Contact:
Sampler: Alexander Johnson

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (h:mm)	Sample Type	NUMBER OF CONTAINERS	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below:					SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
						MEALS & INORGANICS	PAH	PEB	PHC/BTEX	VOC			
	BH204 SS4			Soil	6	X	X	X	X	X			
	BH204 SS5B	07/MAR/22		Soil	2	X	X						
	BH204 SS6	07/MAR/22		Soil	3				X	X			
	BH203 SS1	07/MAR/22		Soil	3	X	X	X					
	BH203 SS2	07/MAR/22		Soil	3				X	X			
	BH203 SS4	07/MAR/22		Soil	2	X	X						
	BH203 SS6	07/MAR/22		Soil	3				X	X			
	BH205 SS2	10/MAR/22		Soil	3	X	X	X					
	BH205 SS3	10/MAR/22		Soil	3				X	X			
	BH205 SS6A	10/MAR/22		Soil	3				X	X			
	BH205 SS7	10/MAR/22		Soil	2	X	X						

Drinking Water (DW) Samples (client use)
Are samples taken from a Regulated DW System? YES NO
Are samples for human consumption/use? YES NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
0 REG 153/04, Table 3, RPI, Coarse

SHIPPING RELEASE (client use)
Released by: [Signature] Date: 10/MAR/22 Time: 18:00

INITIAL SHIPMENT RECEPTION (ALS use only)
Received by: _____ Date: _____ Time: _____

SAMPLE RECEIPT DETAILS (ALS use only)
Cooling Method: NONE ICE ICE PACKS FROZEN COOLING INITIATED
Submission Comments Identified on Sample Receipt Notification: YES NO
Copper Custody Seals Intact: YES N/A Sample Custody Seals Intact: YES N/A
INITIAL COOLER TEMPERATURES °C: _____ FINAL COOLER TEMPERATURES °C: 4.5

FINAL SHIPMENT RECEPTION (ALS use only)
Received by: [Signature] Date: Mar 11/22 Time: 10:22

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.
WHITE - LABORATORY COPY YELLOW - CLIENT COPY
If any water samples are taken from a Regulated Drinking Water (DW) system, please submit using an Authorized DW COC form.



Grounded Engineering Inc
ATTN: Nicholas Piers
1 Banigan Drive
TORONTO ON M4H 1G3

Date Received: 18-MAR-22
Report Date: 29-MAR-22 15:04 (MT)
Version: FINAL

Client Phone: 647-264-7932

Certificate of Analysis

Lab Work Order #: L2693469
Project P.O. #: NOT SUBMITTED
Job Reference: 21-067
C of C Numbers: 20-954704, 20-954705, 20-954706
Legal Site Desc: 60 DUNDAS ST E., MISSISSAUGA

Amanda Overholster
Account Manager

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Summary of Guideline Exceedances

Guideline	ALS ID	Client ID	Grouping	Analyte	Result	Guideline Limit	Unit
Ontario Regulation 153/04 - April 15, 2011 Standards - T3-Soil-Res/Park/Inst. Property Use (Coarse)							
	L2693469-3	BH207 SS3	Physical Tests	Conductivity	4.64	0.7	mS/cm
			Saturated Paste Extractables	SAR	49.3	5	SAR
	L2693469-7	BH201 SS1B	Physical Tests	Conductivity	1.64	0.7	mS/cm
			Saturated Paste Extractables	SAR	31.7	5	SAR
	L2693469-8	BH201 SS3	Hydrocarbons	F3 (C16-C34)	372	300	ug/g
	L2693469-9	BH201 SS4	Physical Tests	Conductivity	0.738	0.7	mS/cm
	L2693469-12	BH206 SS2	Physical Tests	Conductivity	1.32	0.7	mS/cm
			Saturated Paste Extractables	SAR	44.8	5	SAR
	L2693469-14	BH206 SS3B	Saturated Paste Extractables	SAR	15.0	5	SAR
	L2693469-17	BH202 SS2	Physical Tests	Conductivity	2.71	0.7	mS/cm
			Saturated Paste Extractables	SAR	45.2	5	SAR
	L2693469-19	BH202 SS5	Physical Tests	Conductivity	1.51	0.7	mS/cm
			Saturated Paste Extractables	SAR	8.56	5	SAR

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

Physical Tests - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2693469-10	L2693469-11	L2693469-12	L2693469-13	L2693469-14	L2693469-15	L2693469-16	L2693469-17	L2693469-18	
		#1	#2	Sample Date	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	
Conductivity	mS/cm	0.7	-	15-MAR-22	BH201 SS6	BH206 SS1	BH206 SS2	BH206 SS3A	BH206 SS3B	BH206 SS5	BH202 SS1B	BH202 SS2	BH202 SS3B	
% Moisture	%	-	-			8.83	10.4	15.8	19.1	18.4	8.85	4.86	7.02	21.3
pH	pH units	-	-				7.75		7.58			7.57		

Guide Limit #1: T3-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.

Physical Tests - SOIL

Analyte	Unit	Guide Limits								
		#1	#2							
Conductivity	mS/cm	0.7	-	1.51			0.298		0.334	
% Moisture	%	-	-	17.5	1.95	12.8	12.7	9.70	9.68	7.15
pH	pH units	-	-	7.74			7.74		7.75	

Guide Limit #1: T3-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.

Cyanides - SOIL

Lab ID L2693469-24
Sample Date 18-MAR-22
Sample ID DUP4

Guide Limits

Analyte	Unit	#1	#2
Cyanide, Weak Acid Diss	ug/g	0.051	<0.050

Analyte	Unit	#1	#2
Cyanide, Weak Acid Diss	ug/g	0.051	<0.050

Guide Limit #1: T3-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.

Saturated Paste Extractables - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2693469-3	L2693469-4	L2693469-7	L2693469-9	L2693469-12	L2693469-14	L2693469-17	L2693469-19	L2693469-22
		#1	#2	Sample Date	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
SAR	SAR	5	-	14-MAR-22	BH207 SS3	BH207 SS4	BH201 SS1B	BH201 SS4	BH206 SS2	BH206 SS3B	BH202 SS2	BH202 SS5	DUP2
Calcium (Ca)	mg/L	-	-										
Magnesium (Mg)	mg/L	-	-										
Sodium (Na)	mg/L	-	-										

Analyte	Unit	Guide Limit #1	Guide Limit #2	L2693469-3	L2693469-4	L2693469-7	L2693469-9	L2693469-12	L2693469-14	L2693469-17	L2693469-19	L2693469-22
SAR	SAR	5	-	49.3 ^{SAR:M}	2.33	31.7	3.68	44.8 ^{SAR:M}	15.0 ^{SAR:M}	45.2	8.56	0.58
Calcium (Ca)	mg/L	-	-	27 ^{DLHC}	32.7	5.36	38.9	2.69	2.40	9.66	43.6	30.7
Magnesium (Mg)	mg/L	-	-	<10 ^{DLHC}	8.56	1.28	4.28	<0.50	<0.50	0.62	6.20	8.79
Sodium (Na)	mg/L	-	-	926 ^{DLHC}	57.9	315	90.7	267	84.5	536	228	14.1

Guide Limit #1: T3-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.

Saturated Paste Extractables - SOIL

Lab ID L2693469-24
Sample Date 18-MAR-22
Sample ID DUP4

Analyte	Unit	Guide Limits		
		#1	#2	
SAR	SAR	5	-	1.04
Calcium (Ca)	mg/L	-	-	23.5
Magnesium (Mg)	mg/L	-	-	8.23
Sodium (Na)	mg/L	-	-	23.1

Guide Limit #1: T3-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.

Metals - SOIL

Analyte	Unit	Guide Limits											
		#1	#2	L2693469-3	L2693469-4	L2693469-7	L2693469-9	L2693469-12	L2693469-14	L2693469-17	L2693469-19	L2693469-22	
				Lab ID	L2693469-3	L2693469-4	L2693469-7	L2693469-9	L2693469-12	L2693469-14	L2693469-17	L2693469-19	L2693469-22
				Sample Date	14-MAR-22	14-MAR-22	15-MAR-22	15-MAR-22	16-MAR-22	16-MAR-22	18-MAR-22	18-MAR-22	14-MAR-22
				Sample ID	BH207 SS3	BH207 SS4	BH201 SS1B	BH201 SS4	BH206 SS2	BH206 SS3B	BH202 SS2	BH202 SS5	DUP2
Antimony (Sb)	ug/g	7.5	-	<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	-	6.9	6.4	1.4	5.7	5.7	7.3	3.1	7.3	4.3	
Barium (Ba)	ug/g	390	-	53.5	70.8	19.5	61.9	58.9	74.4	43.6	55.8	94.5	
Beryllium (Be)	ug/g	4	-	0.68	0.80	<0.50	0.82	0.67	0.79	<0.50	0.73	0.71	
Boron (B)	ug/g	120	-	7.9	11.0	<5.0	11.9	<5.0	8.2	<5.0	9.8	9.9	
Boron (B), Hot Water Ext.	ug/g	1.5	-	0.45	0.58	0.35	0.46	0.17	0.21	0.18	0.43	0.74	
Cadmium (Cd)	ug/g	1.2	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Chromium (Cr)	ug/g	160	-	21.6	25.1	10.0	25.0	19.9	24.7	9.6	22.9	27.4	
Cobalt (Co)	ug/g	22	-	11.8	16.3	2.6	13.1	9.2	16.0	3.9	13.9	12.0	
Copper (Cu)	ug/g	140	-	24.5	35.0	21.8	25.2	39.3	35.3	22.6	34.6	24.1	
Lead (Pb)	ug/g	120	-	11.4	9.9	3.4	8.0	12.1	11.0	13.7	7.2	8.7	
Mercury (Hg)	ug/g	0.27	-	0.0176	0.0171	0.0299	0.0176	0.0313	0.0202	0.0257	0.0169	0.0162	
Molybdenum (Mo)	ug/g	6.9	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Nickel (Ni)	ug/g	100	-	23.1	32.6	5.0	29.3	22.9	33.0	8.9	29.7	27.8	
Selenium (Se)	ug/g	2.4	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Silver (Ag)	ug/g	20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Thallium (Tl)	ug/g	1	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Uranium (U)	ug/g	23	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vanadium (V)	ug/g	86	-	30.6	32.0	26.1	32.9	31.8	31.5	20.6	29.5	33.6	
Zinc (Zn)	ug/g	340	-	156	64.4	8.8	58.7	53.2	68.6	28.6	60.2	51.2	

Guide Limit #1: T3-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.

Metals - SOIL

Lab ID L2693469-24
Sample Date 18-MAR-22
Sample ID DUP4

Analyte	Unit	Guide Limits		
		#1	#2	
Antimony (Sb)	ug/g	7.5	-	<1.0
Arsenic (As)	ug/g	18	-	5.4
Barium (Ba)	ug/g	390	-	86.9
Beryllium (Be)	ug/g	4	-	0.78
Boron (B)	ug/g	120	-	10.9
Boron (B), Hot Water Ext.	ug/g	1.5	-	1.12
Cadmium (Cd)	ug/g	1.2	-	<0.50
Chromium (Cr)	ug/g	160	-	25.3
Cobalt (Co)	ug/g	22	-	13.4
Copper (Cu)	ug/g	140	-	24.2
Lead (Pb)	ug/g	120	-	7.4
Mercury (Hg)	ug/g	0.27	-	0.0178
Molybdenum (Mo)	ug/g	6.9	-	<1.0
Nickel (Ni)	ug/g	100	-	29.6
Selenium (Se)	ug/g	2.4	-	<1.0
Silver (Ag)	ug/g	20	-	<0.20
Thallium (Tl)	ug/g	1	-	<0.50
Uranium (U)	ug/g	23	-	<1.0
Vanadium (V)	ug/g	86	-	31.1
Zinc (Zn)	ug/g	340	-	55.8

Guide Limit #1: T3-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.

Speciated Metals - SOIL

Lab ID L2693469-24
Sample Date 18-MAR-22
Sample ID DUP4

Analyte	Unit	Guide Limits		
		#1	#2	
Chromium, Hexavalent	ug/g	8	-	<0.20

Guide Limit #1: T3-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.

Volatile Organic Compounds - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2693469-2	L2693469-5	L2693469-8	L2693469-10	L2693469-13	L2693469-15	L2693469-18	L2693469-20	L2693469-21
		#1	#2	Sample Date	14-MAR-22	14-MAR-22	15-MAR-22	15-MAR-22	16-MAR-22	16-MAR-22	18-MAR-22	18-MAR-22	14-MAR-22
				Sample ID	BH207 SS2	BH207 SS7	BH201 SS3	BH201 SS6	BH206 SS3A	BH206 SS5	BH202 SS3B	BH202 SS6	DUP1
Acetone	ug/g	16	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	ug/g	0.21	-	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	ug/g	13	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	ug/g	0.27	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon tetrachloride	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	ug/g	2.4	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	ug/g	9.4	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dibromoethane	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	ug/g	3.4	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	ug/g	4.8	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	ug/g	0.083	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	ug/g	16	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	ug/g	3.5	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	ug/g	3.4	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
trans-1,2-Dichloroethylene	ug/g	0.084	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylene Chloride	ug/g	0.1	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<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	<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	<0.030	<0.030	<0.030	<0.030	<0.030
1,3-Dichloropropene (cis & trans)	ug/g	0.05	-	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
Ethylbenzene	ug/g	2	-	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
n-Hexane	ug/g	2.8	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Ethyl Ketone	ug/g	16	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	ug/g	1.7	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MTBE	ug/g	0.75	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	ug/g	0.7	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

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

Volatile Organic Compounds - SOIL

Lab ID L2693469-25
Sample Date 18-MAR-22
Sample ID DUP5

Analyte	Unit	Guide Limits		
		#1	#2	
Acetone	ug/g	16	-	<0.50
Benzene	ug/g	0.21	-	<0.0068
Bromodichloromethane	ug/g	13	-	<0.050
Bromoform	ug/g	0.27	-	<0.050
Bromomethane	ug/g	0.05	-	<0.050
Carbon tetrachloride	ug/g	0.05	-	<0.050
Chlorobenzene	ug/g	2.4	-	<0.050
Dibromochloromethane	ug/g	9.4	-	<0.050
Chloroform	ug/g	0.05	-	<0.050
1,2-Dibromoethane	ug/g	0.05	-	<0.050
1,2-Dichlorobenzene	ug/g	3.4	-	<0.050
1,3-Dichlorobenzene	ug/g	4.8	-	<0.050
1,4-Dichlorobenzene	ug/g	0.083	-	<0.050
Dichlorodifluoromethane	ug/g	16	-	<0.050
1,1-Dichloroethane	ug/g	3.5	-	<0.050
1,2-Dichloroethane	ug/g	0.05	-	<0.050
1,1-Dichloroethylene	ug/g	0.05	-	<0.050
cis-1,2-Dichloroethylene	ug/g	3.4	-	<0.050
trans-1,2-Dichloroethylene	ug/g	0.084	-	<0.050
Methylene Chloride	ug/g	0.1	-	<0.050
1,2-Dichloropropane	ug/g	0.05	-	<0.050
cis-1,3-Dichloropropene	ug/g	-	-	<0.030
trans-1,3-Dichloropropene	ug/g	-	-	<0.030
1,3-Dichloropropene (cis & trans)	ug/g	0.05	-	<0.042
Ethylbenzene	ug/g	2	-	<0.018
n-Hexane	ug/g	2.8	-	<0.050
Methyl Ethyl Ketone	ug/g	16	-	<0.50
Methyl Isobutyl Ketone	ug/g	1.7	-	<0.50
MTBE	ug/g	0.75	-	<0.050
Styrene	ug/g	0.7	-	<0.050

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

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

Volatile Organic Compounds - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2693469-2	L2693469-5	L2693469-8	L2693469-10	L2693469-13	L2693469-15	L2693469-18	L2693469-20	L2693469-21
		#1	#2	Sample Date	14-MAR-22	14-MAR-22	15-MAR-22	15-MAR-22	16-MAR-22	16-MAR-22	18-MAR-22	18-MAR-22	14-MAR-22
				Sample ID	BH207 SS2	BH207 SS7	BH201 SS3	BH201 SS6	BH206 SS3A	BH206 SS5	BH202 SS3B	BH202 SS6	DUP1
1,1,1,2-Tetrachloroethane	ug/g	0.058	-	<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	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	ug/g	0.28	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	ug/g	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	0.38	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	ug/g	0.05	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	ug/g	0.061	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Trichlorofluoromethane	ug/g	4	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	ug/g	0.02	-	<0.020	<0.020	<0.020	<0.020	<0.020	<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	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	%	-	-	92.4	85.3	106.2	92.3	81.1	85.7	84.4	81.8	89.7	
Surrogate: 1,4-Difluorobenzene	%	-	-	99.9	95.4	122.0	102.3	89.9	97.8	92.9	89.7	97.6	

Guide Limit #1: T3-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.

Volatile Organic Compounds - SOIL

Lab ID L2693469-25
Sample Date 18-MAR-22
Sample ID DUP5

Analyte	Unit	Guide Limits		
		#1	#2	
1,1,1,2-Tetrachloroethane	ug/g	0.058	-	<0.050
1,1,2,2-Tetrachloroethane	ug/g	0.05	-	<0.050
Tetrachloroethylene	ug/g	0.28	-	<0.050
Toluene	ug/g	2.3	-	<0.080
1,1,1-Trichloroethane	ug/g	0.38	-	<0.050
1,1,2-Trichloroethane	ug/g	0.05	-	<0.050
Trichloroethylene	ug/g	0.061	-	<0.010
Trichlorofluoromethane	ug/g	4	-	<0.050
Vinyl chloride	ug/g	0.02	-	<0.020
o-Xylene	ug/g	-	-	<0.020
m+p-Xylenes	ug/g	-	-	<0.030
Xylenes (Total)	ug/g	3.1	-	<0.050
Surrogate: 4-Bromofluorobenzene	%	-	-	90.4
Surrogate: 1,4-Difluorobenzene	%	-	-	101.1

Guide Limit #1: T3-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.

Hydrocarbons - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2693469-2	L2693469-5	L2693469-8	L2693469-10	L2693469-13	L2693469-15	L2693469-18	L2693469-20	L2693469-21
		#1	#2	Sample Date	14-MAR-22	14-MAR-22	15-MAR-22	15-MAR-22	16-MAR-22	16-MAR-22	18-MAR-22	18-MAR-22	14-MAR-22
				Sample ID	BH207 SS2	BH207 SS7	BH201 SS3	BH201 SS6	BH206 SS3A	BH206 SS5	BH202 SS3B	BH202 SS6	DUP1
F1 (C6-C10)	ug/g	55	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F1-BTEX	ug/g	55	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	ug/g	98	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16-C34)	ug/g	300	-	156	<50	372	<50	<50	<50	<50	<50	<50	97
F4 (C34-C50)	ug/g	2800	-	211	<50	797	<50	<50	<50	<50	<50	<50	150
F4G-SG (GHH-Silica)	ug/g	2800	-	1110		2130							<250
Total Hydrocarbons (C6-C50)	ug/g	-	-	367	<72	1170	<72	<72	<72	<72	<72	<72	247
Chrom. to baseline at nC50		-	-	NO	YES	NO	YES	YES	YES	YES	YES	YES	NO
Surrogate: 2-Bromobenzotrifluoride	%	-	-	101.6	105.3	99.8	102.9	107.2	109.6	111.6	109.9	105.4	
Surrogate: 3,4-Dichlorotoluene	%	-	-	86.4	78.4	75.9	84.7	78.2	75.5	88.8	83.9	89.5	

Guide Limit #1: T3-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.

Hydrocarbons - SOIL

Lab ID L2693469-25
Sample Date 18-MAR-22
Sample ID DUP5

Analyte	Unit	Guide Limits		
		#1	#2	
F1 (C6-C10)	ug/g	55	-	<5.0
F1-BTEX	ug/g	55	-	<5.0
F2 (C10-C16)	ug/g	98	-	<10
F3 (C16-C34)	ug/g	300	-	<50
F4 (C34-C50)	ug/g	2800	-	<50
F4G-SG (GHH-Silica)	ug/g	2800	-	
Total Hydrocarbons (C6-C50)	ug/g	-	-	<72
Chrom. to baseline at nC50		-	-	YES
Surrogate: 2-Bromobenzotrifluoride	%	-	-	109.3
Surrogate: 3,4-Dichlorotoluene	%	-	-	90.7

Guide Limit #1: T3-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.

Polycyclic Aromatic Hydrocarbons - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2693469-3	L2693469-4	L2693469-6	L2693469-9	L2693469-12	L2693469-14	L2693469-17	L2693469-19	L2693469-22
		#1	#2	Sample Date	14-MAR-22	14-MAR-22	15-MAR-22	15-MAR-22	16-MAR-22	16-MAR-22	18-MAR-22	18-MAR-22	14-MAR-22
				Sample ID	BH207 SS3	BH207 SS4	BH201 SS1A	BH201 SS4	BH206 SS2	BH206 SS3B	BH202 SS2	BH202 SS5	DUP2
Acenaphthene	ug/g	7.9	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	ug/g	0.15	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	ug/g	0.67	-	<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	0.5	-	<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	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b&j)fluoranthene	ug/g	0.78	-	<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	6.6	-	<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	0.78	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	ug/g	7	-	<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	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	ug/g	0.69	-	<0.050	<0.050	0.053	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	ug/g	62	-	<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	0.38	-	<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	0.99	-	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
1-Methylnaphthalene	ug/g	0.99	-	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
2-Methylnaphthalene	ug/g	0.99	-	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	ug/g	0.6	-	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Phenanthrene	ug/g	6.2	-	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046
Pyrene	ug/g	78	-	<0.050	<0.050	0.052	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Surrogate: 2-Fluorobiphenyl	%	-	-	91.4	91.2	89.6	90.1	92.8	91.9	88.8	91.4	92.2	
Surrogate: d14-Terphenyl	%	-	-	90.3	89.9	87.9	90.7	92.9	90.4	87.7	90.5	89.8	

Guide Limit #1: T3-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.

Polycyclic Aromatic Hydrocarbons - SOIL

Lab ID L2693469-24
Sample Date 18-MAR-22
Sample ID DUP4

Analyte	Unit	Guide Limits		
		#1	#2	
Acenaphthene	ug/g	7.9	-	<0.050
Acenaphthylene	ug/g	0.15	-	<0.050
Anthracene	ug/g	0.67	-	<0.050
Benzo(a)anthracene	ug/g	0.5	-	<0.050
Benzo(a)pyrene	ug/g	0.3	-	<0.050
Benzo(b&j)fluoranthene	ug/g	0.78	-	<0.050
Benzo(g,h,i)perylene	ug/g	6.6	-	<0.050
Benzo(k)fluoranthene	ug/g	0.78	-	<0.050
Chrysene	ug/g	7	-	<0.050
Dibenz(a,h)anthracene	ug/g	0.1	-	<0.050
Fluoranthene	ug/g	0.69	-	<0.050
Fluorene	ug/g	62	-	<0.050
Indeno(1,2,3-cd)pyrene	ug/g	0.38	-	<0.050
1+2-Methylnaphthalenes	ug/g	0.99	-	<0.042
1-Methylnaphthalene	ug/g	0.99	-	<0.030
2-Methylnaphthalene	ug/g	0.99	-	<0.030
Naphthalene	ug/g	0.6	-	<0.013
Phenanthrene	ug/g	6.2	-	<0.046
Pyrene	ug/g	78	-	<0.050
Surrogate: 2-Fluorobiphenyl	%	-	-	87.2
Surrogate: d14-Terphenyl	%	-	-	84.8

Guide Limit #1: T3-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.

Polychlorinated Biphenyls - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2693469-1	L2693469-6	L2693469-11	L2693469-16	L2693469-23
		#1	#2	Sample Date	14-MAR-22	15-MAR-22	16-MAR-22	18-MAR-22	15-MAR-22
				Sample ID	BH207 SS1	BH201 SS1A	BH206 SS1	BH202 SS1B	DUP3
Aroclor 1242	ug/g	-	-		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1248	ug/g	-	-		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1254	ug/g	-	-		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1260	ug/g	-	-		<0.010	<0.010	<0.010	<0.010	<0.010
Total PCBs	ug/g	0.35	-		<0.020	<0.020	<0.020	<0.020	<0.020
Surrogate: d14-Terphenyl	%	-	-		83.2	87.1	84.5	78.9	86.4

Guide Limit #1: T3-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

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.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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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).

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).

EC-WT Soil Conductivity (EC) MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

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

F1-F4-511-CALC-WT Soil F1-F4 Hydrocarbon Calculated Parameters CCME CWS-PHC, Pub #1310, Dec 2001-S

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT Soil F1-O.Reg 153/04 (July 2011) E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT Soil F2-F4-O.Reg 153/04 (July 2011) CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:

1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
4. F4G: Gravimetric Heavy Hydrocarbons
5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
8. This method is validated for use.
9. Data from analysis of validation and quality control samples is available upon request.
10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F4G-ADD-511-WT Soil F4G SG-O.Reg 153/04 (July 2011) MOE DECPC-E3398/CCME TIER 1

F4G, gravimetric analysis, is determined if the chromatogram does not return to baseline at or before C50. A soil sample is extracted with a solvent mix, the solvent is evaporated and the weight of the residue is determined.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

HG-200.2-CVAA-WT Soil Mercury in Soil by CVAAS EPA 200.2/1631E (mod)

Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

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

MET-200.2-CCMS-WT Soil Metals in Soil by CRC ICPMS EPA 200.2/6020B (mod)

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H₂S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT	Soil	ABN-Calculated Parameters	SW846 8270
MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
PAH-511-WT	Soil	PAH-O.Reg 153/04 (July 2011)	SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking 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).

PCB-511-WT	Soil	PCB-O.Reg 153/04 (July 2011)	SW846 3510/8082
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An aliquot of a solid sample is extracted with a solvent, extract is cleaned up and analyzed on the GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT	Soil	pH	MOEE E3137A
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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
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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).

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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:

20-954704 20-954705 20-954706

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
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WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
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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: L2693469

Report Date: 29-MAR-22

Page 1 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT								
	Soil							
Batch	R5751323							
WG3710966-4	DUP	L2693469-22						
Boron (B), Hot Water Ext.		0.74	0.74		ug/g	0.0	30	29-MAR-22
WG3710966-2	IRM	WT SAR4						
Boron (B), Hot Water Ext.			94.9		%		70-130	29-MAR-22
WG3710966-3	LCS							
Boron (B), Hot Water Ext.			102.0		%		70-130	29-MAR-22
WG3710966-1	MB							
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	29-MAR-22
CN-WAD-R511-WT								
	Soil							
Batch	R5750918							
WG3709410-3	DUP	L2693469-7						
Cyanide, Weak Acid Diss		<0.050	<0.050	RPD-NA	ug/g	N/A	35	28-MAR-22
WG3709410-2	LCS							
Cyanide, Weak Acid Diss			83.1		%		80-120	28-MAR-22
WG3709410-1	MB							
Cyanide, Weak Acid Diss			<0.050		ug/g		0.05	28-MAR-22
WG3709410-4	MS	L2693469-7						
Cyanide, Weak Acid Diss			83.5		%		70-130	28-MAR-22
CR-CR6-IC-WT								
	Soil							
Batch	R5751269							
WG3709411-4	CRM	WT-SQC012						
Chromium, Hexavalent			85.1		%		70-130	29-MAR-22
WG3709411-3	DUP	L2693469-7						
Chromium, Hexavalent		0.65	0.76		ug/g	15	35	29-MAR-22
WG3709411-2	LCS							
Chromium, Hexavalent			87.9		%		80-120	29-MAR-22
WG3709411-1	MB							
Chromium, Hexavalent			<0.20		ug/g		0.2	29-MAR-22
EC-WT								
	Soil							
Batch	R5751376							
WG3710967-4	DUP	WG3710967-3						
Conductivity		0.334	0.328		mS/cm	1.8	20	29-MAR-22
WG3710967-2	IRM	WT SAR4						
Conductivity			107.3		%		70-130	29-MAR-22
WG3711304-1	LCS							
Conductivity			94.0		%		90-110	29-MAR-22
WG3710967-1	MB							



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 2 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-WT		Soil						
Batch	R5751376							
WG3710967-1	MB							
Conductivity			<0.0040		mS/cm		0.004	29-MAR-22
F1-HS-511-WT		Soil						
Batch	R5750088							
WG3709233-4	DUP	WG3709233-3						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	24-MAR-22
WG3709233-2	LCS							
F1 (C6-C10)			95.0		%		80-120	24-MAR-22
WG3709233-1	MB							
F1 (C6-C10)			<5.0		ug/g		5	24-MAR-22
Surrogate: 3,4-Dichlorotoluene			94.7		%		60-140	24-MAR-22
WG3709233-5	MS	WG3709233-3						
F1 (C6-C10)			94.6		%		60-140	24-MAR-22
Batch	R5750149							
WG3709321-4	DUP	WG3709321-3						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	25-MAR-22
WG3709321-2	LCS							
F1 (C6-C10)			100.6		%		80-120	25-MAR-22
WG3709321-1	MB							
F1 (C6-C10)			<5.0		ug/g		5	25-MAR-22
Surrogate: 3,4-Dichlorotoluene			107.4		%		60-140	25-MAR-22
WG3709321-5	MS	WG3709321-3						
F1 (C6-C10)			111.3		%		60-140	25-MAR-22
F2-F4-511-WT		Soil						
Batch	R5750312							
WG3709407-3	DUP	WG3709407-5						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	40	25-MAR-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	40	25-MAR-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	40	25-MAR-22
WG3709407-2	LCS							
F2 (C10-C16)			110.3		%		70-130	25-MAR-22
F3 (C16-C34)			105.3		%		70-130	25-MAR-22
F4 (C34-C50)			110.3		%		70-130	25-MAR-22
WG3709407-1	MB							
F2 (C10-C16)			<10		ug/g		10	25-MAR-22
F3 (C16-C34)			<50		ug/g		50	25-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 3 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT Soil								
Batch R5750312								
WG3709407-1 MB								
F4 (C34-C50)			<50		ug/g		50	25-MAR-22
Surrogate: 2-Bromobenzotrifluoride			103.8		%		60-140	25-MAR-22
WG3709407-4 MS WG3709407-5								
F2 (C10-C16)			110.9		%		60-140	25-MAR-22
F3 (C16-C34)			105.9		%		60-140	25-MAR-22
F4 (C34-C50)			112.6		%		60-140	25-MAR-22
F4G-ADD-511-WT Soil								
Batch R5750795								
WG3710689-2 LCS								
F4G-SG (GHH-Silica)			107.5		%		60-140	24-MAR-22
WG3710689-1 MB								
F4G-SG (GHH-Silica)			<250		ug/g		250	24-MAR-22
HG-200.2-CVAA-WT Soil								
Batch R5751247								
WG3710965-2 CRM WT-SS-2								
Mercury (Hg)			107.8		%		70-130	29-MAR-22
WG3710965-6 DUP WG3710965-5								
Mercury (Hg)			0.0178	0.0179	ug/g	1.0	40	29-MAR-22
WG3710965-3 LCS								
Mercury (Hg)			107.0		%		80-120	29-MAR-22
WG3710965-1 MB								
Mercury (Hg)			<0.0050		mg/kg		0.005	29-MAR-22
MET-200.2-CCMS-WT Soil								
Batch R5751372								
WG3710965-2 CRM WT-SS-2								
Antimony (Sb)			108.2		%		70-130	29-MAR-22
Arsenic (As)			111.6		%		70-130	29-MAR-22
Barium (Ba)			117.6		%		70-130	29-MAR-22
Beryllium (Be)			116.6		%		70-130	29-MAR-22
Boron (B)			8.6		mg/kg		3.5-13.5	29-MAR-22
Cadmium (Cd)			115.8		%		70-130	29-MAR-22
Chromium (Cr)			106.2		%		70-130	29-MAR-22
Cobalt (Co)			107.5		%		70-130	29-MAR-22
Copper (Cu)			114.1		%		70-130	29-MAR-22
Lead (Pb)			109.5		%		70-130	29-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 4 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5751372							
WG3710965-2 CRM	WT-SS-2							
Molybdenum (Mo)			115.1		%		70-130	29-MAR-22
Nickel (Ni)			109.0		%		70-130	29-MAR-22
Selenium (Se)			0.14		mg/kg		0-0.34	29-MAR-22
Silver (Ag)			89.1		%		70-130	29-MAR-22
Thallium (Tl)			0.074		mg/kg		0.029-0.129	29-MAR-22
Uranium (U)			94.7		%		70-130	29-MAR-22
Vanadium (V)			109.7		%		70-130	29-MAR-22
Zinc (Zn)			105.9		%		70-130	29-MAR-22
WG3710965-6 DUP	WG3710965-5							
Antimony (Sb)		0.12	0.14		ug/g	8.2	30	29-MAR-22
Arsenic (As)		5.37	5.80		ug/g	7.8	30	29-MAR-22
Barium (Ba)		86.9	93.5		ug/g	7.3	40	29-MAR-22
Beryllium (Be)		0.78	0.85		ug/g	9.2	30	29-MAR-22
Boron (B)		10.9	11.8		ug/g	8.1	30	29-MAR-22
Cadmium (Cd)		0.082	0.063		ug/g	27	30	29-MAR-22
Chromium (Cr)		25.3	27.9		ug/g	9.5	30	29-MAR-22
Cobalt (Co)		13.4	14.5		ug/g	8.0	30	29-MAR-22
Copper (Cu)		24.2	27.1		ug/g	11	30	29-MAR-22
Lead (Pb)		7.38	8.02		ug/g	8.4	40	29-MAR-22
Molybdenum (Mo)		0.34	0.36		ug/g	4.5	40	29-MAR-22
Nickel (Ni)		29.6	32.2		ug/g	8.6	30	29-MAR-22
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	29-MAR-22
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	29-MAR-22
Thallium (Tl)		0.097	0.106		ug/g	9.7	30	29-MAR-22
Uranium (U)		0.633	0.663		ug/g	4.7	30	29-MAR-22
Vanadium (V)		31.1	34.4		ug/g	10	30	29-MAR-22
Zinc (Zn)		55.8	61.4		ug/g	9.5	30	29-MAR-22
WG3710965-4 LCS								
Antimony (Sb)			110.9		%		80-120	29-MAR-22
Arsenic (As)			103.9		%		80-120	29-MAR-22
Barium (Ba)			105.2		%		80-120	29-MAR-22
Beryllium (Be)			100.5		%		80-120	29-MAR-22
Boron (B)			90.6		%		80-120	29-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 5 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch	R5751372							
WG3710965-4	LCS							
Cadmium (Cd)			100.7		%		80-120	29-MAR-22
Chromium (Cr)			102.3		%		80-120	29-MAR-22
Cobalt (Co)			99.7		%		80-120	29-MAR-22
Copper (Cu)			99.3		%		80-120	29-MAR-22
Lead (Pb)			97.0		%		80-120	29-MAR-22
Molybdenum (Mo)			105.5		%		80-120	29-MAR-22
Nickel (Ni)			100.5		%		80-120	29-MAR-22
Selenium (Se)			99.5		%		80-120	29-MAR-22
Silver (Ag)			96.9		%		80-120	29-MAR-22
Thallium (Tl)			99.3		%		80-120	29-MAR-22
Uranium (U)			93.3		%		80-120	29-MAR-22
Vanadium (V)			105.3		%		80-120	29-MAR-22
Zinc (Zn)			89.4		%		80-120	29-MAR-22
WG3710965-1	MB							
Antimony (Sb)			<0.10		mg/kg		0.1	29-MAR-22
Arsenic (As)			<0.10		mg/kg		0.1	29-MAR-22
Barium (Ba)			<0.50		mg/kg		0.5	29-MAR-22
Beryllium (Be)			<0.10		mg/kg		0.1	29-MAR-22
Boron (B)			<5.0		mg/kg		5	29-MAR-22
Cadmium (Cd)			<0.020		mg/kg		0.02	29-MAR-22
Chromium (Cr)			<0.50		mg/kg		0.5	29-MAR-22
Cobalt (Co)			<0.10		mg/kg		0.1	29-MAR-22
Copper (Cu)			<0.50		mg/kg		0.5	29-MAR-22
Lead (Pb)			<0.50		mg/kg		0.5	29-MAR-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	29-MAR-22
Nickel (Ni)			<0.50		mg/kg		0.5	29-MAR-22
Selenium (Se)			<0.20		mg/kg		0.2	29-MAR-22
Silver (Ag)			<0.10		mg/kg		0.1	29-MAR-22
Thallium (Tl)			<0.050		mg/kg		0.05	29-MAR-22
Uranium (U)			<0.050		mg/kg		0.05	29-MAR-22
Vanadium (V)			<0.20		mg/kg		0.2	29-MAR-22
Zinc (Zn)			<2.0	B	mg/kg		2	29-MAR-22

MOISTURE-WT **Soil**



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 6 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT								
	Soil							
Batch	R5749703							
WG3709221-3	DUP	L2693329-2						
% Moisture		15.1	15.1		%	0.3	20	24-MAR-22
WG3709221-2	LCS							
% Moisture			99.5		%		90-110	24-MAR-22
WG3709221-1	MB							
% Moisture			<0.25		%		0.25	24-MAR-22
Batch	R5749714							
WG3709326-3	DUP	L2693469-12						
% Moisture		15.8	15.6		%	0.9	20	24-MAR-22
WG3709326-2	LCS							
% Moisture			99.1		%		90-110	24-MAR-22
WG3709326-1	MB							
% Moisture			<0.25		%		0.25	24-MAR-22
Batch	R5750164							
WG3709824-3	DUP	L2693008-2						
% Moisture		6.17	6.72		%	8.5	20	25-MAR-22
WG3709824-2	LCS							
% Moisture			100.5		%		90-110	25-MAR-22
WG3709824-1	MB							
% Moisture			<0.25		%		0.25	25-MAR-22
PAH-511-WT								
	Soil							
Batch	R5750074							
WG3709415-3	DUP	WG3709415-5						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	24-MAR-22
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	24-MAR-22
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 7 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT								
	Soil							
Batch	R5750074							
WG3709415-3	DUP	WG3709415-5						
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	24-MAR-22
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	24-MAR-22
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
WG3709415-2	LCS							
1-Methylnaphthalene			91.3		%		50-140	24-MAR-22
2-Methylnaphthalene			90.5		%		50-140	24-MAR-22
Acenaphthene			88.0		%		50-140	24-MAR-22
Acenaphthylene			83.2		%		50-140	24-MAR-22
Anthracene			79.3		%		50-140	24-MAR-22
Benzo(a)anthracene			83.3		%		50-140	24-MAR-22
Benzo(a)pyrene			84.3		%		50-140	24-MAR-22
Benzo(b&j)fluoranthene			88.2		%		50-140	24-MAR-22
Benzo(g,h,i)perylene			78.0		%		50-140	24-MAR-22
Benzo(k)fluoranthene			85.1		%		50-140	24-MAR-22
Chrysene			91.9		%		50-140	24-MAR-22
Dibenz(a,h)anthracene			74.4		%		50-140	24-MAR-22
Fluoranthene			86.1		%		50-140	24-MAR-22
Fluorene			85.9		%		50-140	24-MAR-22
Indeno(1,2,3-cd)pyrene			77.3		%		50-140	24-MAR-22
Naphthalene			89.5		%		50-140	24-MAR-22
Phenanthrene			89.4		%		50-140	24-MAR-22
Pyrene			86.2		%		50-140	24-MAR-22
WG3709415-1	MB							
1-Methylnaphthalene			<0.030		ug/g		0.03	24-MAR-22
2-Methylnaphthalene			<0.030		ug/g		0.03	24-MAR-22
Acenaphthene			<0.050		ug/g		0.05	24-MAR-22
Acenaphthylene			<0.050		ug/g		0.05	24-MAR-22
Anthracene			<0.050		ug/g		0.05	24-MAR-22
Benzo(a)anthracene			<0.050		ug/g		0.05	24-MAR-22
Benzo(a)pyrene			<0.050		ug/g		0.05	24-MAR-22
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	24-MAR-22
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	24-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 8 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT								
	Soil							
Batch	R5750074							
WG3709415-1 MB								
Benzo(k)fluoranthene			<0.050		ug/g		0.05	24-MAR-22
Chrysene			<0.050		ug/g		0.05	24-MAR-22
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	24-MAR-22
Fluoranthene			<0.050		ug/g		0.05	24-MAR-22
Fluorene			<0.050		ug/g		0.05	24-MAR-22
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	24-MAR-22
Naphthalene			<0.013		ug/g		0.013	24-MAR-22
Phenanthrene			<0.046		ug/g		0.046	24-MAR-22
Pyrene			<0.050		ug/g		0.05	24-MAR-22
Surrogate: 2-Fluorobiphenyl			87.1		%		50-140	24-MAR-22
Surrogate: d14-Terphenyl			81.1		%		50-140	24-MAR-22
WG3709415-4 MS		WG3709415-5						
1-Methylnaphthalene			87.7		%		50-140	24-MAR-22
2-Methylnaphthalene			87.9		%		50-140	24-MAR-22
Acenaphthene			87.0		%		50-140	24-MAR-22
Acenaphthylene			84.7		%		50-140	24-MAR-22
Anthracene			79.9		%		50-140	24-MAR-22
Benzo(a)anthracene			88.9		%		50-140	24-MAR-22
Benzo(a)pyrene			84.7		%		50-140	24-MAR-22
Benzo(b&j)fluoranthene			78.1		%		50-140	24-MAR-22
Benzo(g,h,i)perylene			74.4		%		50-140	24-MAR-22
Benzo(k)fluoranthene			91.8		%		50-140	24-MAR-22
Chrysene			86.5		%		50-140	24-MAR-22
Dibenz(a,h)anthracene			73.5		%		50-140	24-MAR-22
Fluoranthene			87.4		%		50-140	24-MAR-22
Fluorene			85.7		%		50-140	24-MAR-22
Indeno(1,2,3-cd)pyrene			79.4		%		50-140	24-MAR-22
Naphthalene			86.0		%		50-140	24-MAR-22
Phenanthrene			85.3		%		50-140	24-MAR-22
Pyrene			86.9		%		50-140	24-MAR-22
Batch	R5750716							
WG3709408-3 DUP		WG3709408-5						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	28-MAR-22
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	28-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 9 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT		Soil						
Batch	R5750716							
WG3709408-3	DUP	WG3709408-5						
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-MAR-22
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-MAR-22
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-MAR-22
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-MAR-22
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-MAR-22
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-MAR-22
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-MAR-22
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-MAR-22
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-MAR-22
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-MAR-22
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-MAR-22
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-MAR-22
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-MAR-22
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	28-MAR-22
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	28-MAR-22
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	28-MAR-22
WG3709408-2	LCS							
1-Methylnaphthalene			91.5		%		50-140	28-MAR-22
2-Methylnaphthalene			90.7		%		50-140	28-MAR-22
Acenaphthene			88.2		%		50-140	28-MAR-22
Acenaphthylene			85.0		%		50-140	28-MAR-22
Anthracene			82.4		%		50-140	28-MAR-22
Benzo(a)anthracene			85.4		%		50-140	28-MAR-22
Benzo(a)pyrene			85.5		%		50-140	28-MAR-22
Benzo(b&j)fluoranthene			88.0		%		50-140	28-MAR-22
Benzo(g,h,i)perylene			79.3		%		50-140	28-MAR-22
Benzo(k)fluoranthene			84.4		%		50-140	28-MAR-22
Chrysene			91.6		%		50-140	28-MAR-22
Dibenz(a,h)anthracene			76.4		%		50-140	28-MAR-22
Fluoranthene			87.6		%		50-140	28-MAR-22
Fluorene			85.6		%		50-140	28-MAR-22
Indeno(1,2,3-cd)pyrene			74.5		%		50-140	28-MAR-22
Naphthalene			89.0		%		50-140	28-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 10 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch	R5750716							
WG3709408-2	LCS							
Phenanthrene			89.5		%		50-140	28-MAR-22
Pyrene			88.1		%		50-140	28-MAR-22
WG3709408-1	MB							
1-Methylnaphthalene			<0.030		ug/g		0.03	28-MAR-22
2-Methylnaphthalene			<0.030		ug/g		0.03	28-MAR-22
Acenaphthene			<0.050		ug/g		0.05	28-MAR-22
Acenaphthylene			<0.050		ug/g		0.05	28-MAR-22
Anthracene			<0.050		ug/g		0.05	28-MAR-22
Benzo(a)anthracene			<0.050		ug/g		0.05	28-MAR-22
Benzo(a)pyrene			<0.050		ug/g		0.05	28-MAR-22
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	28-MAR-22
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	28-MAR-22
Benzo(k)fluoranthene			<0.050		ug/g		0.05	28-MAR-22
Chrysene			<0.050		ug/g		0.05	28-MAR-22
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	28-MAR-22
Fluoranthene			<0.050		ug/g		0.05	28-MAR-22
Fluorene			<0.050		ug/g		0.05	28-MAR-22
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	28-MAR-22
Naphthalene			<0.013		ug/g		0.013	28-MAR-22
Phenanthrene			<0.046		ug/g		0.046	28-MAR-22
Pyrene			<0.050		ug/g		0.05	28-MAR-22
Surrogate: 2-Fluorobiphenyl			92.9		%		50-140	28-MAR-22
Surrogate: d14-Terphenyl			87.5		%		50-140	28-MAR-22
WG3709408-4	MS	WG3709408-5						
1-Methylnaphthalene			93.8		%		50-140	28-MAR-22
2-Methylnaphthalene			92.5		%		50-140	28-MAR-22
Acenaphthene			90.0		%		50-140	28-MAR-22
Acenaphthylene			86.0		%		50-140	28-MAR-22
Anthracene			82.1		%		50-140	28-MAR-22
Benzo(a)anthracene			86.6		%		50-140	28-MAR-22
Benzo(a)pyrene			87.0		%		50-140	28-MAR-22
Benzo(b&j)fluoranthene			91.4		%		50-140	28-MAR-22
Benzo(g,h,i)perylene			78.3		%		50-140	28-MAR-22
Benzo(k)fluoranthene			86.2		%		50-140	28-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 11 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch	R5750716							
WG3709408-4 MS		WG3709408-5						
Chrysene			94.2		%		50-140	28-MAR-22
Dibenz(a,h)anthracene			75.5		%		50-140	28-MAR-22
Fluoranthene			89.3		%		50-140	28-MAR-22
Fluorene			88.4		%		50-140	28-MAR-22
Indeno(1,2,3-cd)pyrene			80.2		%		50-140	28-MAR-22
Naphthalene			91.4		%		50-140	28-MAR-22
Phenanthrene			91.4		%		50-140	28-MAR-22
Pyrene			89.7		%		50-140	28-MAR-22
PCB-511-WT	Soil							
Batch	R5750228							
WG3709415-3 DUP		WG3709415-5						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	25-MAR-22
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	25-MAR-22
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	25-MAR-22
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	25-MAR-22
WG3709415-2 LCS								
Aroclor 1242			97.7		%		60-140	25-MAR-22
Aroclor 1248			97.6		%		60-140	25-MAR-22
Aroclor 1254			99.8		%		60-140	25-MAR-22
Aroclor 1260			103.6		%		60-140	25-MAR-22
WG3709415-1 MB								
Aroclor 1242			<0.010		ug/g		0.01	25-MAR-22
Aroclor 1248			<0.010		ug/g		0.01	25-MAR-22
Aroclor 1254			<0.010		ug/g		0.01	25-MAR-22
Aroclor 1260			<0.010		ug/g		0.01	25-MAR-22
Surrogate: d14-Terphenyl			80.0		%		60-140	25-MAR-22
WG3709415-4 MS		WG3709415-5						
Aroclor 1242			95.2		%		60-140	25-MAR-22
Aroclor 1254			98.7		%		60-140	25-MAR-22
Aroclor 1260			101.5		%		60-140	25-MAR-22
PH-WT	Soil							



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 12 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WT		Soil						
Batch	R5750827							
WG3709409-1	DUP	L2693469-17						
pH		7.57	7.58	J	pH units	0.01	0.3	28-MAR-22
WG3710663-1	LCS							
pH			6.97		pH units		6.9-7.1	28-MAR-22
SAR-R511-WT		Soil						
Batch	R5751396							
WG3710967-4	DUP	WG3710967-3						
Calcium (Ca)		23.5	23.0		mg/L	2.2	30	29-MAR-22
Sodium (Na)		23.1	22.4		mg/L	3.1	30	29-MAR-22
Magnesium (Mg)		8.23	8.09		mg/L	1.7	30	29-MAR-22
WG3710967-2	IRM	WT SAR4						
Calcium (Ca)			102.3		%		70-130	29-MAR-22
Sodium (Na)			110.4		%		70-130	29-MAR-22
Magnesium (Mg)			102.6		%		70-130	29-MAR-22
WG3710967-5	LCS							
Calcium (Ca)			116.0		%		80-120	29-MAR-22
Sodium (Na)			113.4		%		80-120	29-MAR-22
Magnesium (Mg)			114.6		%		80-120	29-MAR-22
WG3710967-1	MB							
Calcium (Ca)			<0.50		mg/L		0.5	29-MAR-22
Sodium (Na)			<0.50		mg/L		0.5	29-MAR-22
Magnesium (Mg)			<0.50		mg/L		0.5	29-MAR-22
VOC-511-HS-WT		Soil						
Batch	R5750088							
WG3709233-4	DUP	WG3709233-3						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 13 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5750088							
WG3709233-4	DUP	WG3709233-3						
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	24-MAR-22
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	24-MAR-22
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	24-MAR-22
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	24-MAR-22
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	24-MAR-22
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	24-MAR-22
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	24-MAR-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-MAR-22
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	24-MAR-22
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	24-MAR-22
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	24-MAR-22
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	24-MAR-22
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	24-MAR-22
WG3709233-2	LCS							
1,1,1,2-Tetrachloroethane			97.9		%		60-130	24-MAR-22
1,1,2,2-Tetrachloroethane			110.9		%		60-130	24-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 14 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch	R5750088							
WG3709233-2 LCS								
1,1,1-Trichloroethane			88.5		%		60-130	24-MAR-22
1,1,2-Trichloroethane			107.2		%		60-130	24-MAR-22
1,1-Dichloroethane			89.8		%		60-130	24-MAR-22
1,1-Dichloroethylene			84.9		%		60-130	24-MAR-22
1,2-Dibromoethane			103.1		%		70-130	24-MAR-22
1,2-Dichlorobenzene			96.9		%		70-130	24-MAR-22
1,2-Dichloroethane			101.7		%		60-130	24-MAR-22
1,2-Dichloropropane			103.1		%		70-130	24-MAR-22
1,3-Dichlorobenzene			93.6		%		70-130	24-MAR-22
1,4-Dichlorobenzene			92.7		%		70-130	24-MAR-22
Acetone			124.5		%		60-140	24-MAR-22
Benzene			90.6		%		70-130	24-MAR-22
Bromodichloromethane			102.9		%		50-140	24-MAR-22
Bromoform			113.8		%		70-130	24-MAR-22
Bromomethane			83.7		%		50-140	24-MAR-22
Carbon tetrachloride			87.7		%		70-130	24-MAR-22
Chlorobenzene			96.1		%		70-130	24-MAR-22
Chloroform			94.6		%		70-130	24-MAR-22
cis-1,2-Dichloroethylene			94.7		%		70-130	24-MAR-22
cis-1,3-Dichloropropene			93.2		%		70-130	24-MAR-22
Dibromochloromethane			98.1		%		60-130	24-MAR-22
Dichlorodifluoromethane			57.0		%		50-140	24-MAR-22
Ethylbenzene			87.7		%		70-130	24-MAR-22
n-Hexane			78.8		%		70-130	24-MAR-22
Methylene Chloride			98.5		%		70-130	24-MAR-22
MTBE			91.6		%		70-130	24-MAR-22
m+p-Xylenes			89.7		%		70-130	24-MAR-22
Methyl Ethyl Ketone			118.3		%		60-140	24-MAR-22
Methyl Isobutyl Ketone			114.6		%		60-140	24-MAR-22
o-Xylene			90.4		%		70-130	24-MAR-22
Styrene			83.0		%		70-130	24-MAR-22
Tetrachloroethylene			86.6		%		60-130	24-MAR-22
Toluene			89.7		%		70-130	24-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 15 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Soil							
Batch	R5750088							
WG3709233-2	LCS							
trans-1,2-Dichloroethylene			89.0		%		60-130	24-MAR-22
trans-1,3-Dichloropropene			98.5		%		70-130	24-MAR-22
Trichloroethylene			88.7		%		60-130	24-MAR-22
Trichlorofluoromethane			77.9		%		50-140	24-MAR-22
Vinyl chloride			74.7		%		60-140	24-MAR-22
WG3709233-1	MB							
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	24-MAR-22
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	24-MAR-22
1,1,1-Trichloroethane			<0.050		ug/g		0.05	24-MAR-22
1,1,2-Trichloroethane			<0.050		ug/g		0.05	24-MAR-22
1,1-Dichloroethane			<0.050		ug/g		0.05	24-MAR-22
1,1-Dichloroethylene			<0.050		ug/g		0.05	24-MAR-22
1,2-Dibromoethane			<0.050		ug/g		0.05	24-MAR-22
1,2-Dichlorobenzene			<0.050		ug/g		0.05	24-MAR-22
1,2-Dichloroethane			<0.050		ug/g		0.05	24-MAR-22
1,2-Dichloropropane			<0.050		ug/g		0.05	24-MAR-22
1,3-Dichlorobenzene			<0.050		ug/g		0.05	24-MAR-22
1,4-Dichlorobenzene			<0.050		ug/g		0.05	24-MAR-22
Acetone			<0.50		ug/g		0.5	24-MAR-22
Benzene			<0.0068		ug/g		0.0068	24-MAR-22
Bromodichloromethane			<0.050		ug/g		0.05	24-MAR-22
Bromoform			<0.050		ug/g		0.05	24-MAR-22
Bromomethane			<0.050		ug/g		0.05	24-MAR-22
Carbon tetrachloride			<0.050		ug/g		0.05	24-MAR-22
Chlorobenzene			<0.050		ug/g		0.05	24-MAR-22
Chloroform			<0.050		ug/g		0.05	24-MAR-22
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	24-MAR-22
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	24-MAR-22
Dibromochloromethane			<0.050		ug/g		0.05	24-MAR-22
Dichlorodifluoromethane			<0.050		ug/g		0.05	24-MAR-22
Ethylbenzene			<0.018		ug/g		0.018	24-MAR-22
n-Hexane			<0.050		ug/g		0.05	24-MAR-22
Methylene Chloride			<0.050		ug/g		0.05	24-MAR-22
MTBE			<0.050		ug/g		0.05	24-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 16 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Soil							
Batch	R5750088							
WG3709233-1	MB							
m+p-Xylenes			<0.030		ug/g		0.03	24-MAR-22
Methyl Ethyl Ketone			<0.50		ug/g		0.5	24-MAR-22
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	24-MAR-22
o-Xylene			<0.020		ug/g		0.02	24-MAR-22
Styrene			<0.050		ug/g		0.05	24-MAR-22
Tetrachloroethylene			<0.050		ug/g		0.05	24-MAR-22
Toluene			<0.080		ug/g		0.08	24-MAR-22
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	24-MAR-22
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	24-MAR-22
Trichloroethylene			<0.010		ug/g		0.01	24-MAR-22
Trichlorofluoromethane			<0.050		ug/g		0.05	24-MAR-22
Vinyl chloride			<0.020		ug/g		0.02	24-MAR-22
Surrogate: 1,4-Difluorobenzene			107.8		%		50-140	24-MAR-22
Surrogate: 4-Bromofluorobenzene			100.2		%		50-140	24-MAR-22
WG3709233-5	MS	WG3709233-3						
1,1,1,2-Tetrachloroethane			105.8		%		50-140	24-MAR-22
1,1,1,2,2-Tetrachloroethane			115.5		%		50-140	24-MAR-22
1,1,1-Trichloroethane			98.2		%		50-140	24-MAR-22
1,1,2-Trichloroethane			112.6		%		50-140	24-MAR-22
1,1-Dichloroethane			98.2		%		50-140	24-MAR-22
1,1-Dichloroethylene			96.4		%		50-140	24-MAR-22
1,2-Dibromoethane			108.5		%		50-140	24-MAR-22
1,2-Dichlorobenzene			103.9		%		50-140	24-MAR-22
1,2-Dichloroethane			107.0		%		50-140	24-MAR-22
1,2-Dichloropropane			108.6		%		50-140	24-MAR-22
1,3-Dichlorobenzene			100.0		%		50-140	24-MAR-22
1,4-Dichlorobenzene			98.6		%		50-140	24-MAR-22
Acetone			143.4	MES	%		50-140	24-MAR-22
Benzene			96.9		%		50-140	24-MAR-22
Bromodichloromethane			108.4		%		50-140	24-MAR-22
Bromoform			118.8		%		50-140	24-MAR-22
Bromomethane			90.0		%		50-140	24-MAR-22
Carbon tetrachloride			96.2		%		50-140	24-MAR-22
Chlorobenzene			101.4		%		50-140	24-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 17 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch R5750088								
WG3709233-5 MS		WG3709233-3						
Chloroform			102.2		%		50-140	24-MAR-22
cis-1,2-Dichloroethylene			102.8		%		50-140	24-MAR-22
cis-1,3-Dichloropropene			84.9		%		50-140	24-MAR-22
Dibromochloromethane			105.2		%		50-140	24-MAR-22
Dichlorodifluoromethane			84.1		%		50-140	24-MAR-22
Ethylbenzene			94.5		%		50-140	24-MAR-22
n-Hexane			93.3		%		50-140	24-MAR-22
Methylene Chloride			108.6		%		50-140	24-MAR-22
MTBE			96.6		%		50-140	24-MAR-22
m+p-Xylenes			96.0		%		50-140	24-MAR-22
Methyl Ethyl Ketone			120.8		%		50-140	24-MAR-22
Methyl Isobutyl Ketone			112.7		%		50-140	24-MAR-22
o-Xylene			96.7		%		50-140	24-MAR-22
Styrene			88.5		%		50-140	24-MAR-22
Tetrachloroethylene			92.6		%		50-140	24-MAR-22
Toluene			96.6		%		50-140	24-MAR-22
trans-1,2-Dichloroethylene			94.4		%		50-140	24-MAR-22
trans-1,3-Dichloropropene			87.4		%		50-140	24-MAR-22
Trichloroethylene			95.0		%		50-140	24-MAR-22
Trichlorofluoromethane			91.2		%		50-140	24-MAR-22
Vinyl chloride			87.9		%		50-140	24-MAR-22
Batch R5750149								
WG3709321-4 DUP		WG3709321-3						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 18 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5750149							
WG3709321-4	DUP	WG3709321-3						
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	25-MAR-22
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	25-MAR-22
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-MAR-22
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	25-MAR-22
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-MAR-22
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	25-MAR-22
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	25-MAR-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	25-MAR-22
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	25-MAR-22
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-MAR-22
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	25-MAR-22
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-MAR-22
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	25-MAR-22
WG3709321-2	LCS							
1,1,1,2-Tetrachloroethane			98.3		%		60-130	25-MAR-22
1,1,2,2-Tetrachloroethane			106.2		%		60-130	25-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 19 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch	R5750149							
WG3709321-2 LCS								
1,1,1-Trichloroethane			89.4		%		60-130	25-MAR-22
1,1,2-Trichloroethane			104.4		%		60-130	25-MAR-22
1,1-Dichloroethane			89.2		%		60-130	25-MAR-22
1,1-Dichloroethylene			83.7		%		60-130	25-MAR-22
1,2-Dibromoethane			102.6		%		70-130	25-MAR-22
1,2-Dichlorobenzene			97.7		%		70-130	25-MAR-22
1,2-Dichloroethane			108.6		%		60-130	25-MAR-22
1,2-Dichloropropane			105.1		%		70-130	25-MAR-22
1,3-Dichlorobenzene			97.7		%		70-130	25-MAR-22
1,4-Dichlorobenzene			97.3		%		70-130	25-MAR-22
Acetone			109.3		%		60-140	25-MAR-22
Benzene			90.6		%		70-130	25-MAR-22
Bromodichloromethane			109.2		%		50-140	25-MAR-22
Bromoform			109.4		%		70-130	25-MAR-22
Bromomethane			82.1		%		50-140	25-MAR-22
Carbon tetrachloride			97.7		%		70-130	25-MAR-22
Chlorobenzene			95.2		%		70-130	25-MAR-22
Chloroform			95.0		%		70-130	25-MAR-22
cis-1,2-Dichloroethylene			90.3		%		70-130	25-MAR-22
cis-1,3-Dichloropropene			102.9		%		70-130	25-MAR-22
Dibromochloromethane			106.0		%		60-130	25-MAR-22
Dichlorodifluoromethane			57.0		%		50-140	25-MAR-22
Ethylbenzene			90.6		%		70-130	25-MAR-22
n-Hexane			77.0		%		70-130	25-MAR-22
Methylene Chloride			95.3		%		70-130	25-MAR-22
MTBE			96.1		%		70-130	25-MAR-22
m+p-Xylenes			93.4		%		70-130	25-MAR-22
Methyl Ethyl Ketone			104.6		%		60-140	25-MAR-22
Methyl Isobutyl Ketone			94.5		%		60-140	25-MAR-22
o-Xylene			91.4		%		70-130	25-MAR-22
Styrene			90.0		%		70-130	25-MAR-22
Tetrachloroethylene			93.2		%		60-130	25-MAR-22
Toluene			90.1		%		70-130	25-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 20 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5750149							
WG3709321-2	LCS							
trans-1,2-Dichloroethylene			90.9		%		60-130	25-MAR-22
trans-1,3-Dichloropropene			103.8		%		70-130	25-MAR-22
Trichloroethylene			100.4		%		60-130	25-MAR-22
Trichlorofluoromethane			78.9		%		50-140	25-MAR-22
Vinyl chloride			71.8		%		60-140	25-MAR-22
WG3709321-1	MB							
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	25-MAR-22
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	25-MAR-22
1,1,1-Trichloroethane			<0.050		ug/g		0.05	25-MAR-22
1,1,2-Trichloroethane			<0.050		ug/g		0.05	25-MAR-22
1,1-Dichloroethane			<0.050		ug/g		0.05	25-MAR-22
1,1-Dichloroethylene			<0.050		ug/g		0.05	25-MAR-22
1,2-Dibromoethane			<0.050		ug/g		0.05	25-MAR-22
1,2-Dichlorobenzene			<0.050		ug/g		0.05	25-MAR-22
1,2-Dichloroethane			<0.050		ug/g		0.05	25-MAR-22
1,2-Dichloropropane			<0.050		ug/g		0.05	25-MAR-22
1,3-Dichlorobenzene			<0.050		ug/g		0.05	25-MAR-22
1,4-Dichlorobenzene			<0.050		ug/g		0.05	25-MAR-22
Acetone			<0.50		ug/g		0.5	25-MAR-22
Benzene			<0.0068		ug/g		0.0068	25-MAR-22
Bromodichloromethane			<0.050		ug/g		0.05	25-MAR-22
Bromoform			<0.050		ug/g		0.05	25-MAR-22
Bromomethane			<0.050		ug/g		0.05	25-MAR-22
Carbon tetrachloride			<0.050		ug/g		0.05	25-MAR-22
Chlorobenzene			<0.050		ug/g		0.05	25-MAR-22
Chloroform			<0.050		ug/g		0.05	25-MAR-22
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	25-MAR-22
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	25-MAR-22
Dibromochloromethane			<0.050		ug/g		0.05	25-MAR-22
Dichlorodifluoromethane			<0.050		ug/g		0.05	25-MAR-22
Ethylbenzene			<0.018		ug/g		0.018	25-MAR-22
n-Hexane			<0.050		ug/g		0.05	25-MAR-22
Methylene Chloride			<0.050		ug/g		0.05	25-MAR-22
MTBE			<0.050		ug/g		0.05	25-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 21 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Soil							
Batch	R5750149							
WG3709321-1	MB							
m+p-Xylenes			<0.030		ug/g		0.03	25-MAR-22
Methyl Ethyl Ketone			<0.50		ug/g		0.5	25-MAR-22
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	25-MAR-22
o-Xylene			<0.020		ug/g		0.02	25-MAR-22
Styrene			<0.050		ug/g		0.05	25-MAR-22
Tetrachloroethylene			<0.050		ug/g		0.05	25-MAR-22
Toluene			<0.080		ug/g		0.08	25-MAR-22
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	25-MAR-22
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	25-MAR-22
Trichloroethylene			<0.010		ug/g		0.01	25-MAR-22
Trichlorofluoromethane			<0.050		ug/g		0.05	25-MAR-22
Vinyl chloride			<0.020		ug/g		0.02	25-MAR-22
Surrogate: 1,4-Difluorobenzene			104.0		%		50-140	25-MAR-22
Surrogate: 4-Bromofluorobenzene			94.8		%		50-140	25-MAR-22
WG3709321-5	MS	WG3709321-3						
1,1,1,2-Tetrachloroethane			106.9		%		50-140	25-MAR-22
1,1,1,2,2-Tetrachloroethane			102.1		%		50-140	25-MAR-22
1,1,1-Trichloroethane			103.6		%		50-140	25-MAR-22
1,1,2-Trichloroethane			104.7		%		50-140	25-MAR-22
1,1-Dichloroethane			99.5		%		50-140	25-MAR-22
1,1-Dichloroethylene			100.5		%		50-140	25-MAR-22
1,2-Dibromoethane			100.1		%		50-140	25-MAR-22
1,2-Dichlorobenzene			105.6		%		50-140	25-MAR-22
1,2-Dichloroethane			107.3		%		50-140	25-MAR-22
1,2-Dichloropropane			109.9		%		50-140	25-MAR-22
1,3-Dichlorobenzene			108.8		%		50-140	25-MAR-22
1,4-Dichlorobenzene			106.9		%		50-140	25-MAR-22
Acetone			102.3		%		50-140	25-MAR-22
Benzene			99.6		%		50-140	25-MAR-22
Bromodichloromethane			113.3		%		50-140	25-MAR-22
Bromoform			106.0		%		50-140	25-MAR-22
Bromomethane			89.3		%		50-140	25-MAR-22
Carbon tetrachloride			115.0		%		50-140	25-MAR-22
Chlorobenzene			103.7		%		50-140	25-MAR-22



Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

Page 22 of 23

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch	R5750149							
WG3709321-5 MS		WG3709321-3						
Chloroform			103.3		%		50-140	25-MAR-22
cis-1,2-Dichloroethylene			96.7		%		50-140	25-MAR-22
cis-1,3-Dichloropropene			97.4		%		50-140	25-MAR-22
Dibromochloromethane			107.3		%		50-140	25-MAR-22
Dichlorodifluoromethane			70.0		%		50-140	25-MAR-22
Ethylbenzene			103.0		%		50-140	25-MAR-22
n-Hexane			98.8		%		50-140	25-MAR-22
Methylene Chloride			100.7		%		50-140	25-MAR-22
MTBE			104.5		%		50-140	25-MAR-22
m+p-Xylenes			106.3		%		50-140	25-MAR-22
Methyl Ethyl Ketone			90.4		%		50-140	25-MAR-22
Methyl Isobutyl Ketone			81.7		%		50-140	25-MAR-22
o-Xylene			102.0		%		50-140	25-MAR-22
Styrene			97.9		%		50-140	25-MAR-22
Tetrachloroethylene			108.9		%		50-140	25-MAR-22
Toluene			101.5		%		50-140	25-MAR-22
trans-1,2-Dichloroethylene			103.8		%		50-140	25-MAR-22
trans-1,3-Dichloropropene			95.9		%		50-140	25-MAR-22
Trichloroethylene			113.2		%		50-140	25-MAR-22
Trichlorofluoromethane			100.0		%		50-140	25-MAR-22
Vinyl chloride			85.7		%		50-140	25-MAR-22

Quality Control Report

Workorder: L2693469

Report Date: 29-MAR-22

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

Page 23 of 23

Contact: Nicholas Piers

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
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

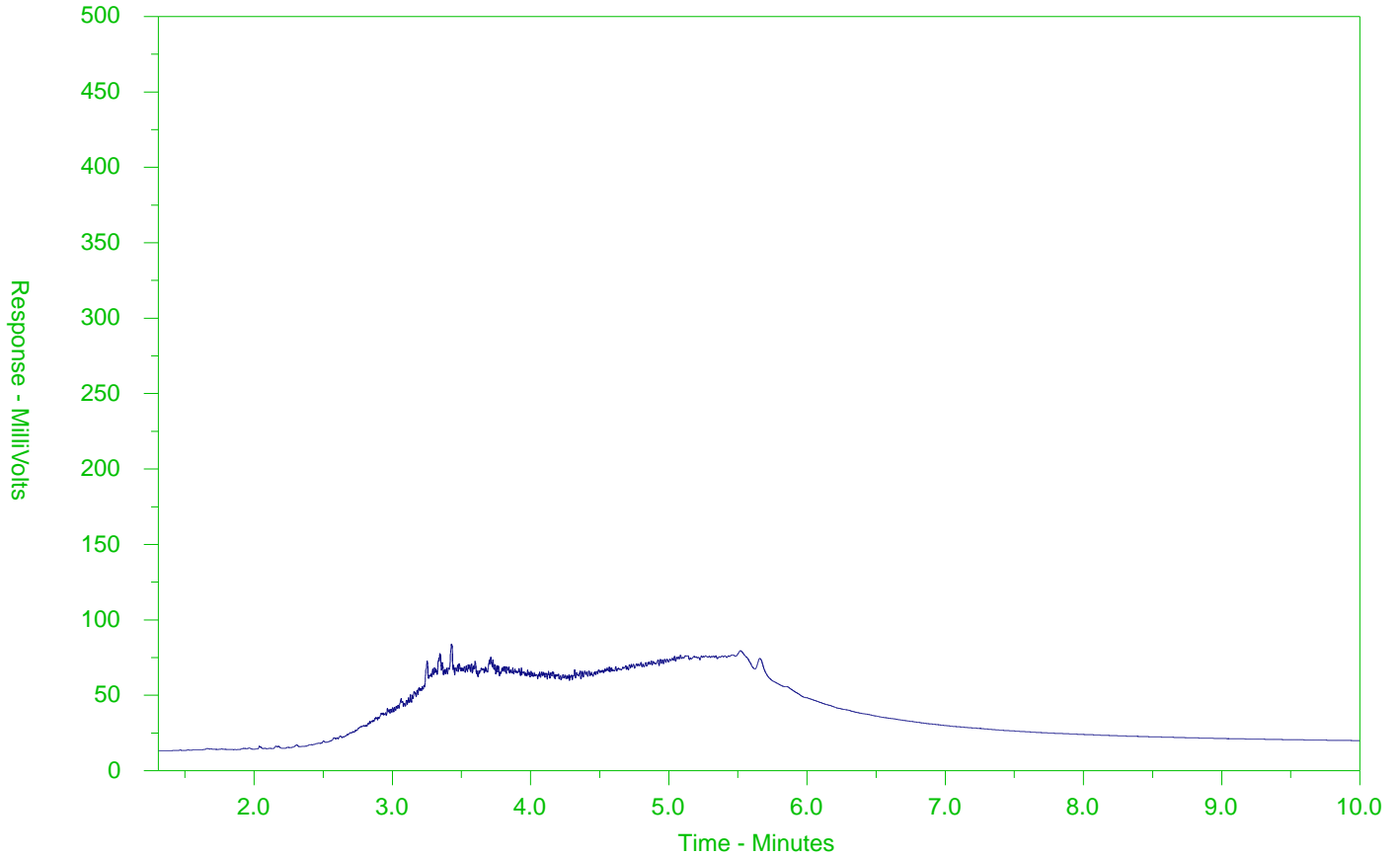
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2693469-2
 Client Sample ID: BH207 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.

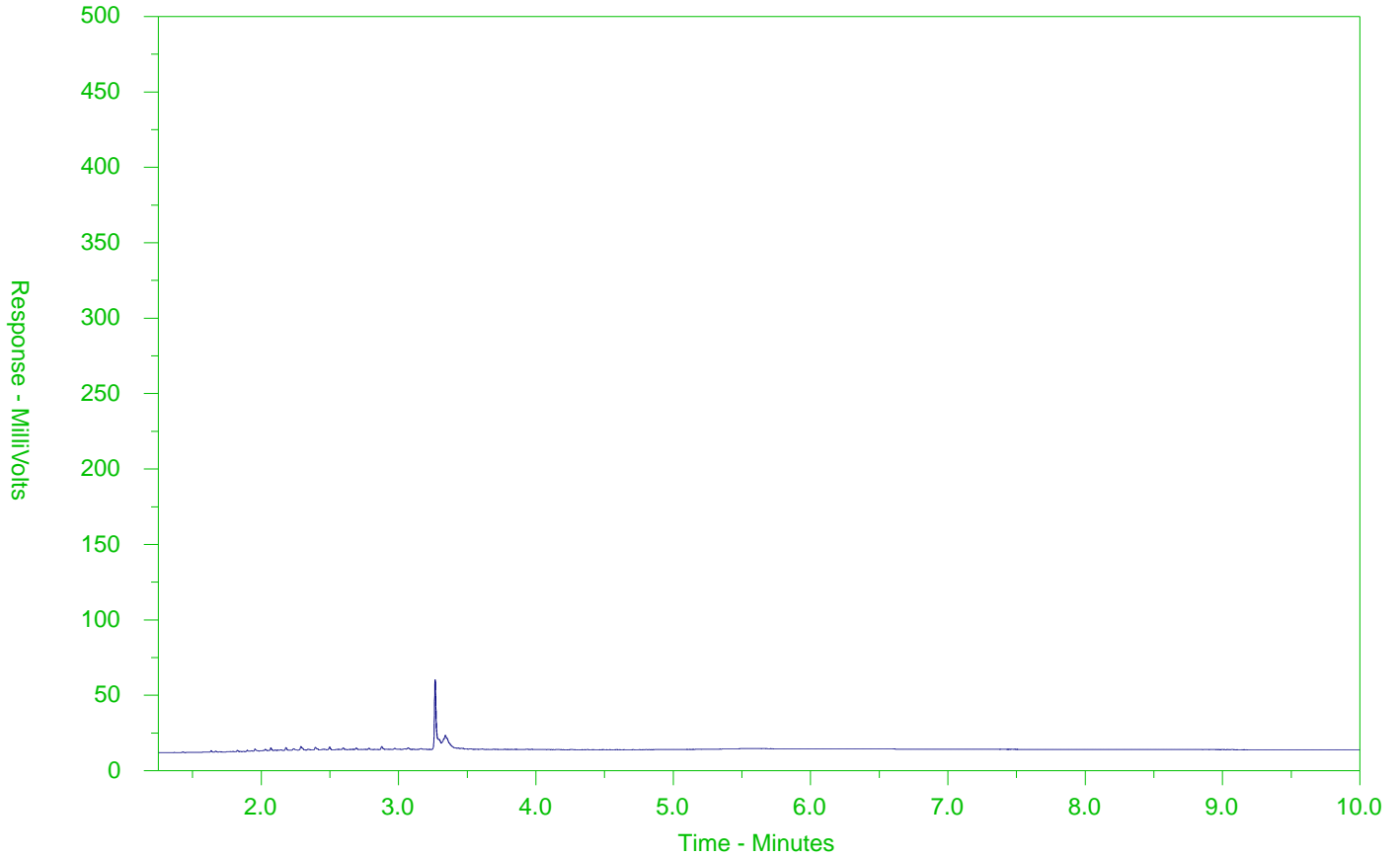
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2693469-5
 Client Sample ID: BH207 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.

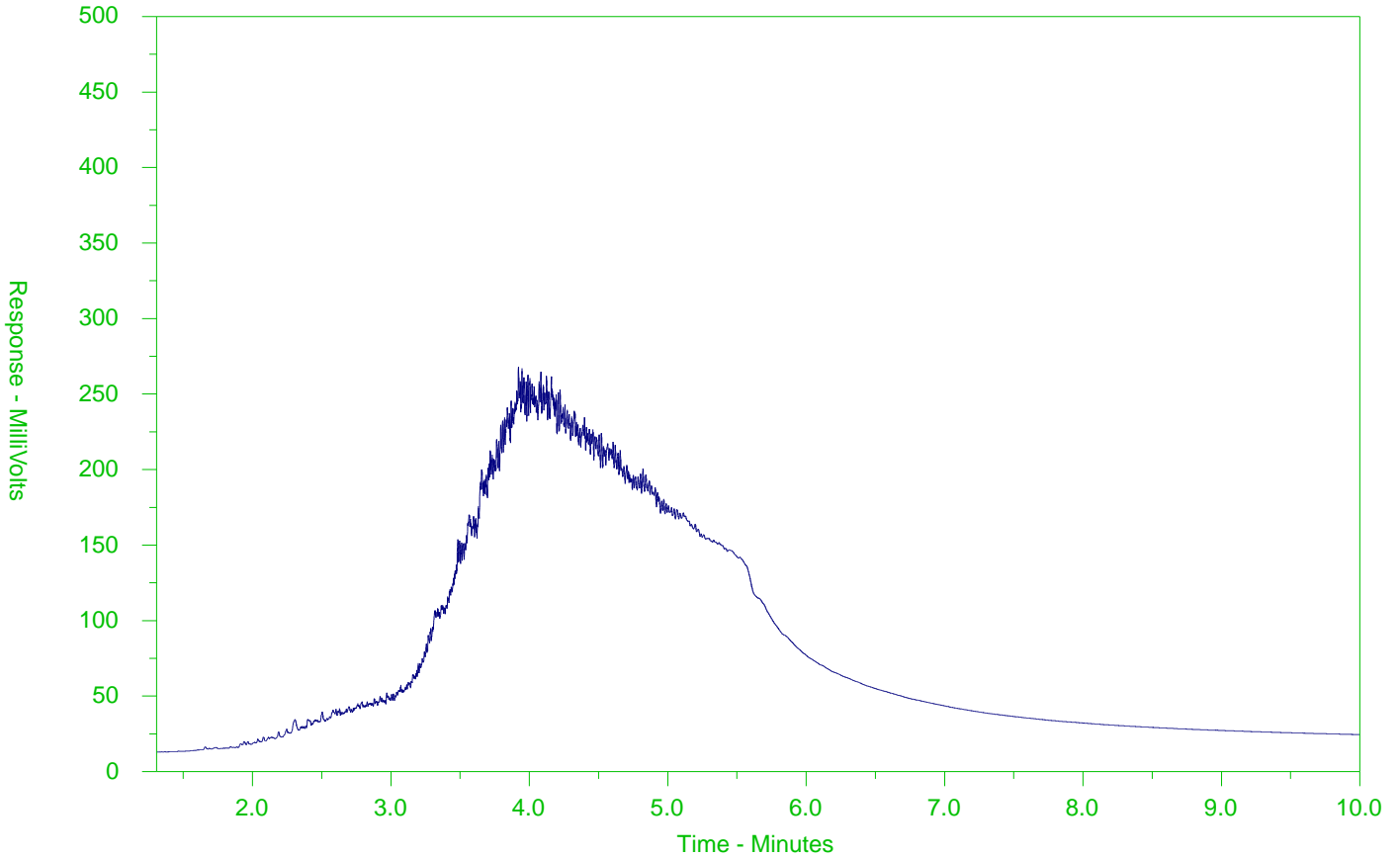
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2693469-8
 Client Sample ID: BH201 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.

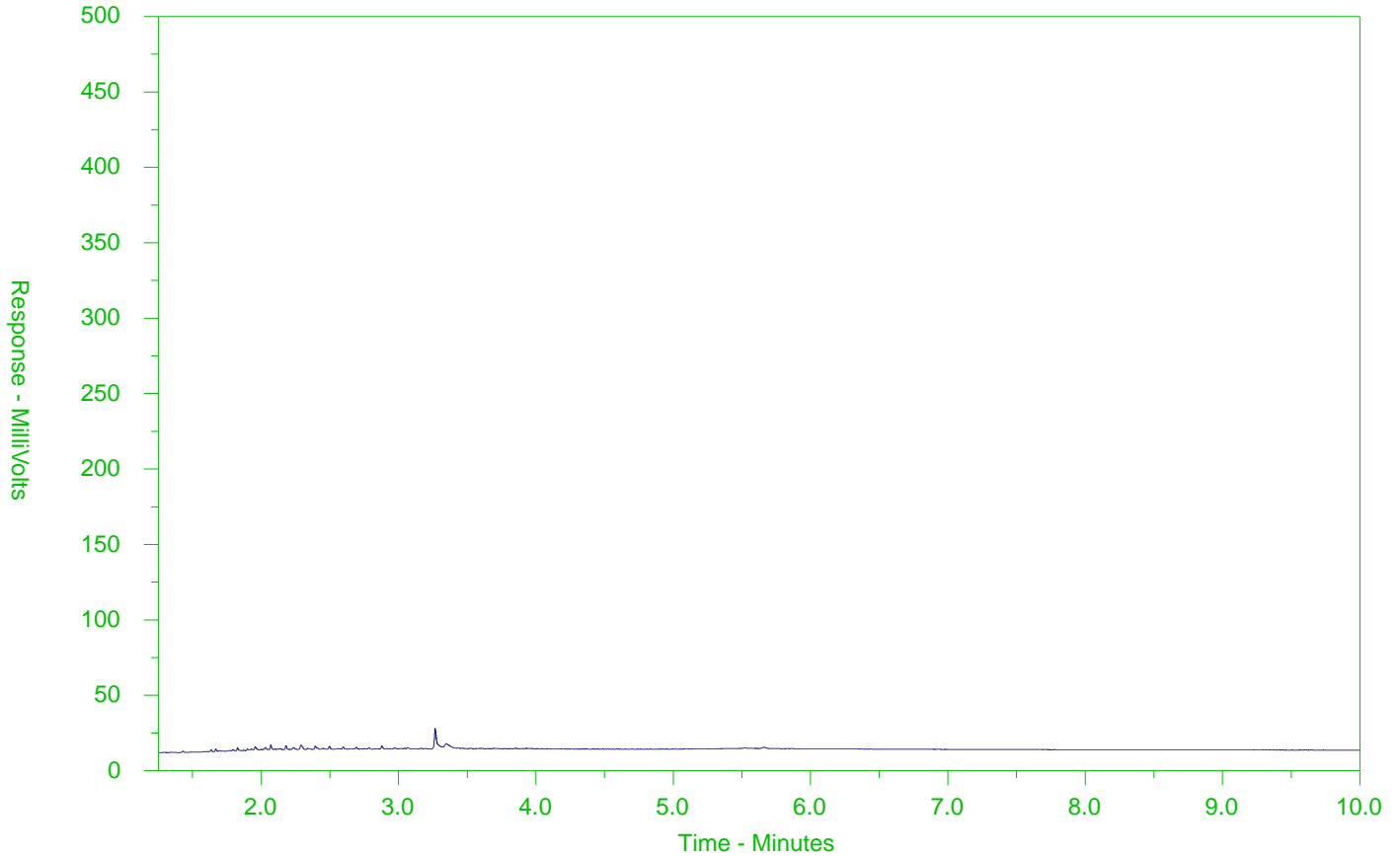
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2693469-10
 Client Sample ID: BH201 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.

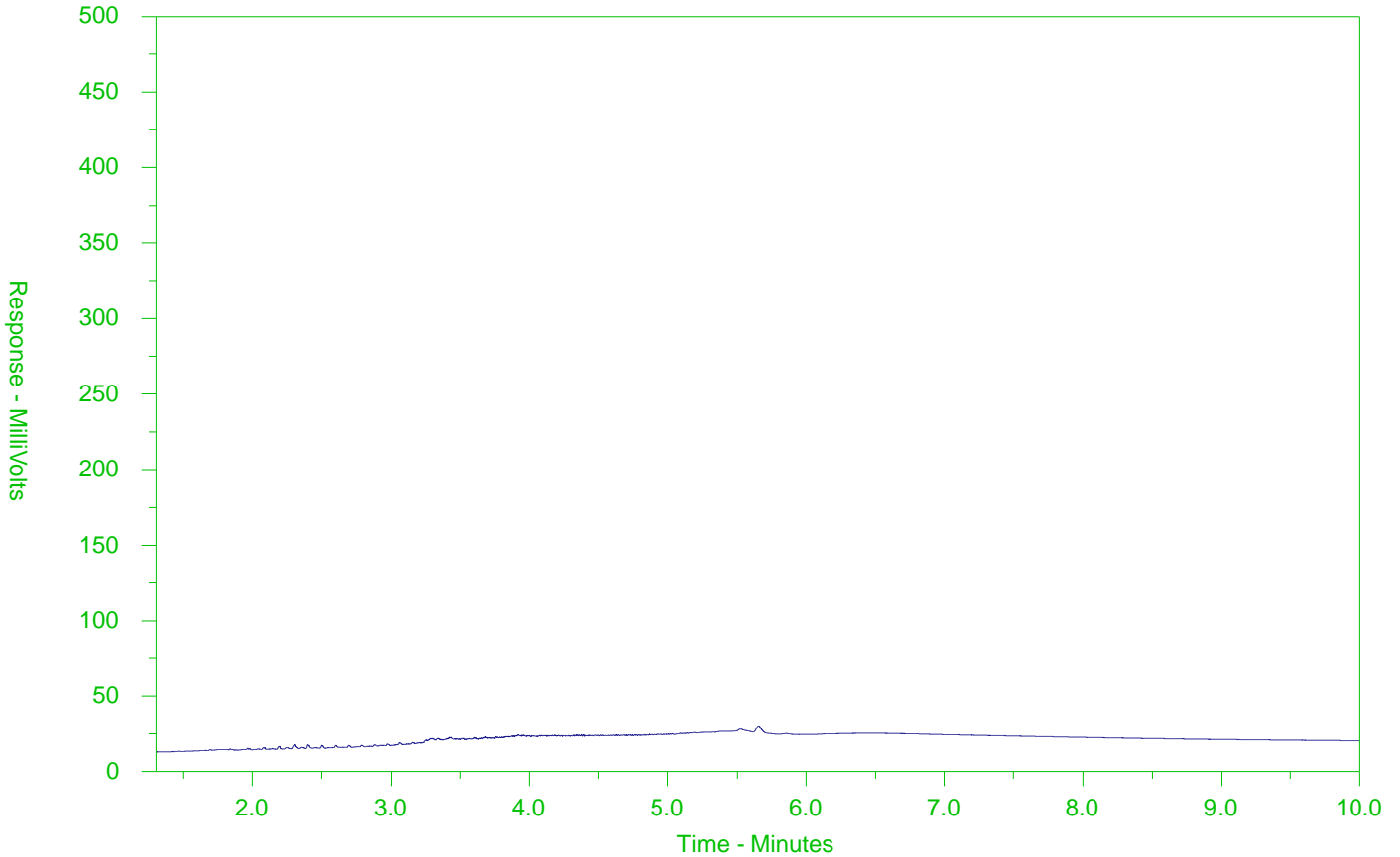
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2693469-13
 Client Sample ID: BH206 SS3A



← 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.

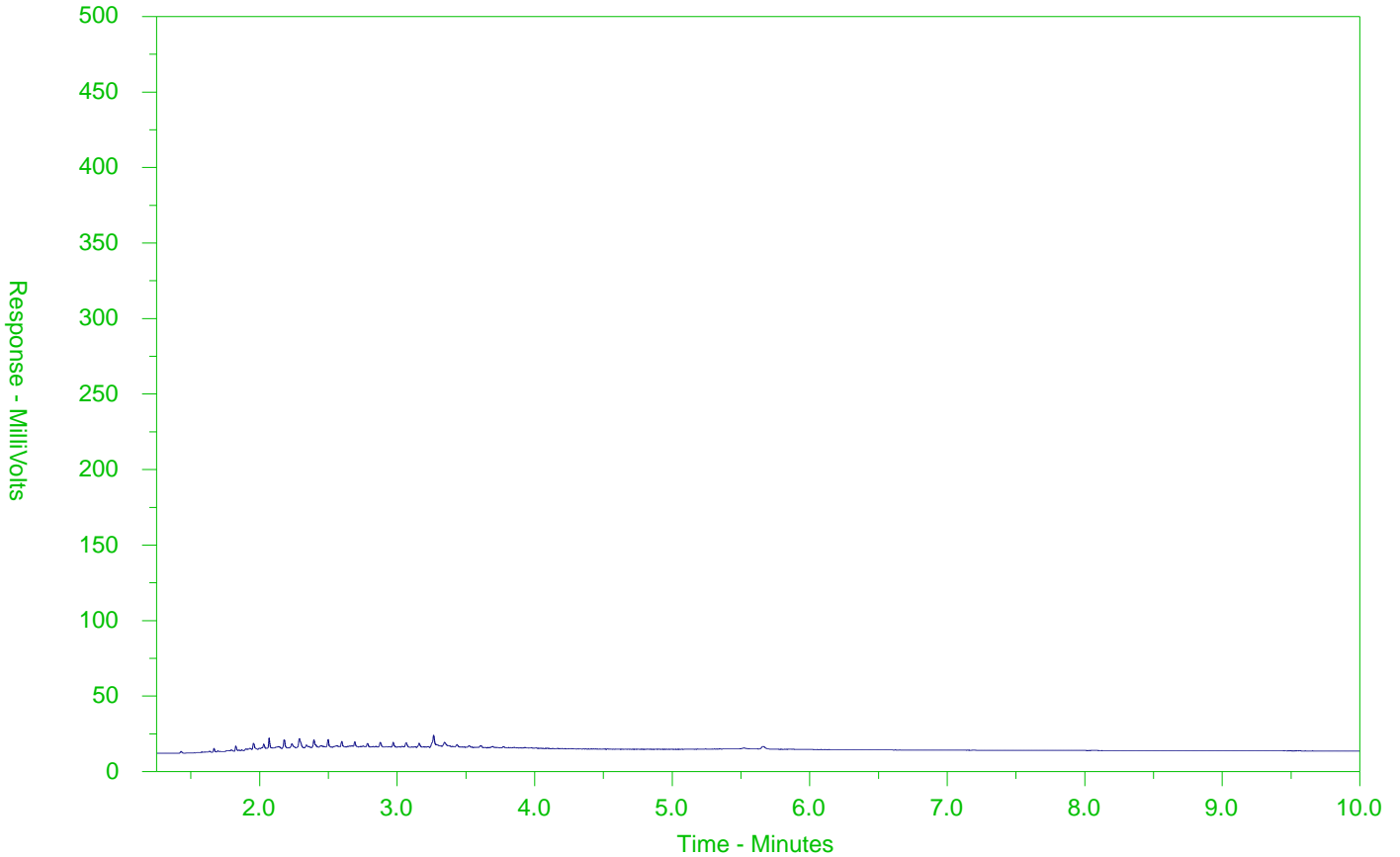
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2693469-15
 Client Sample ID: BH206 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.

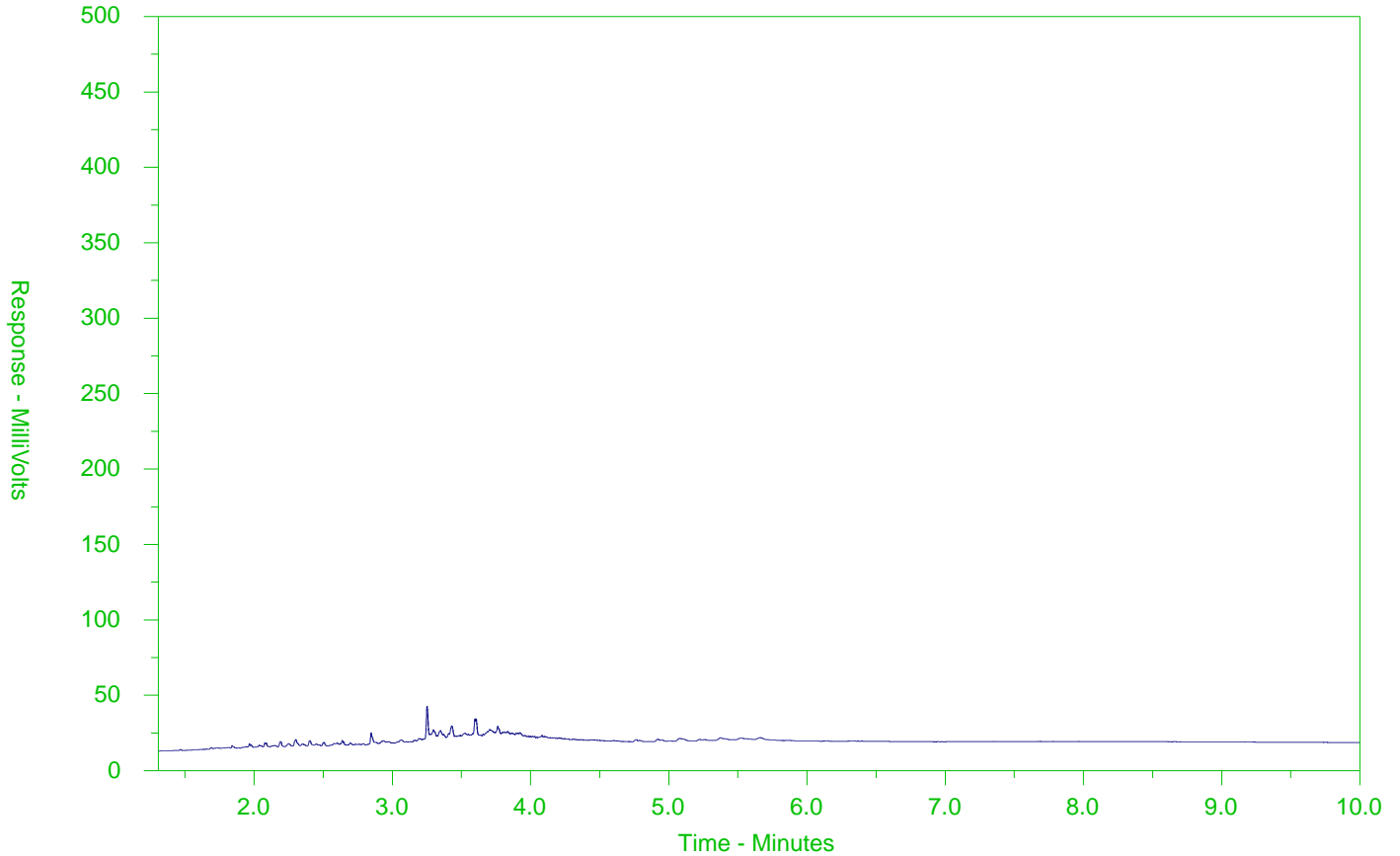
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2693469-18
 Client Sample ID: BH202 SS3B



← 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.

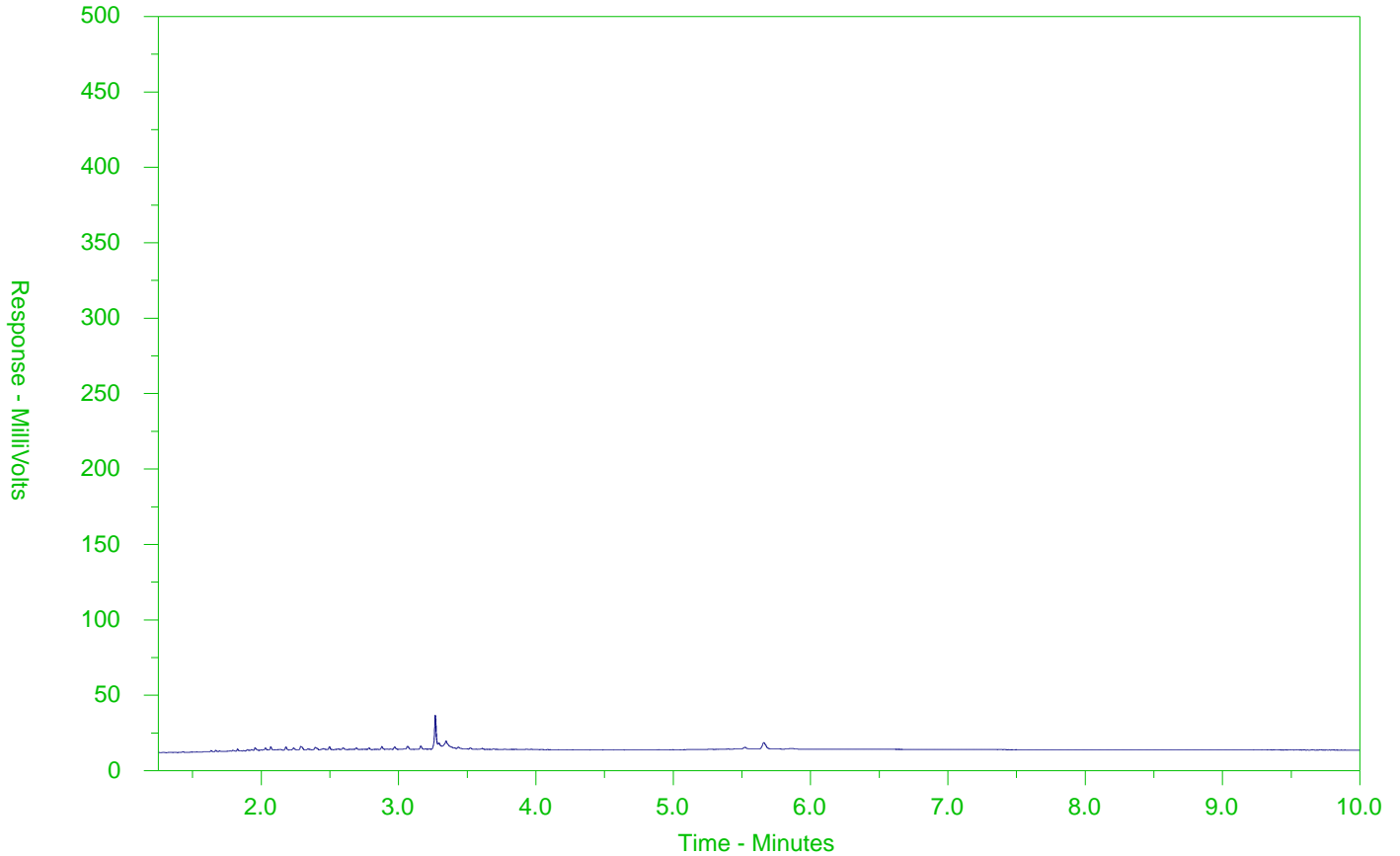
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2693469-20
 Client Sample ID: BH202 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.

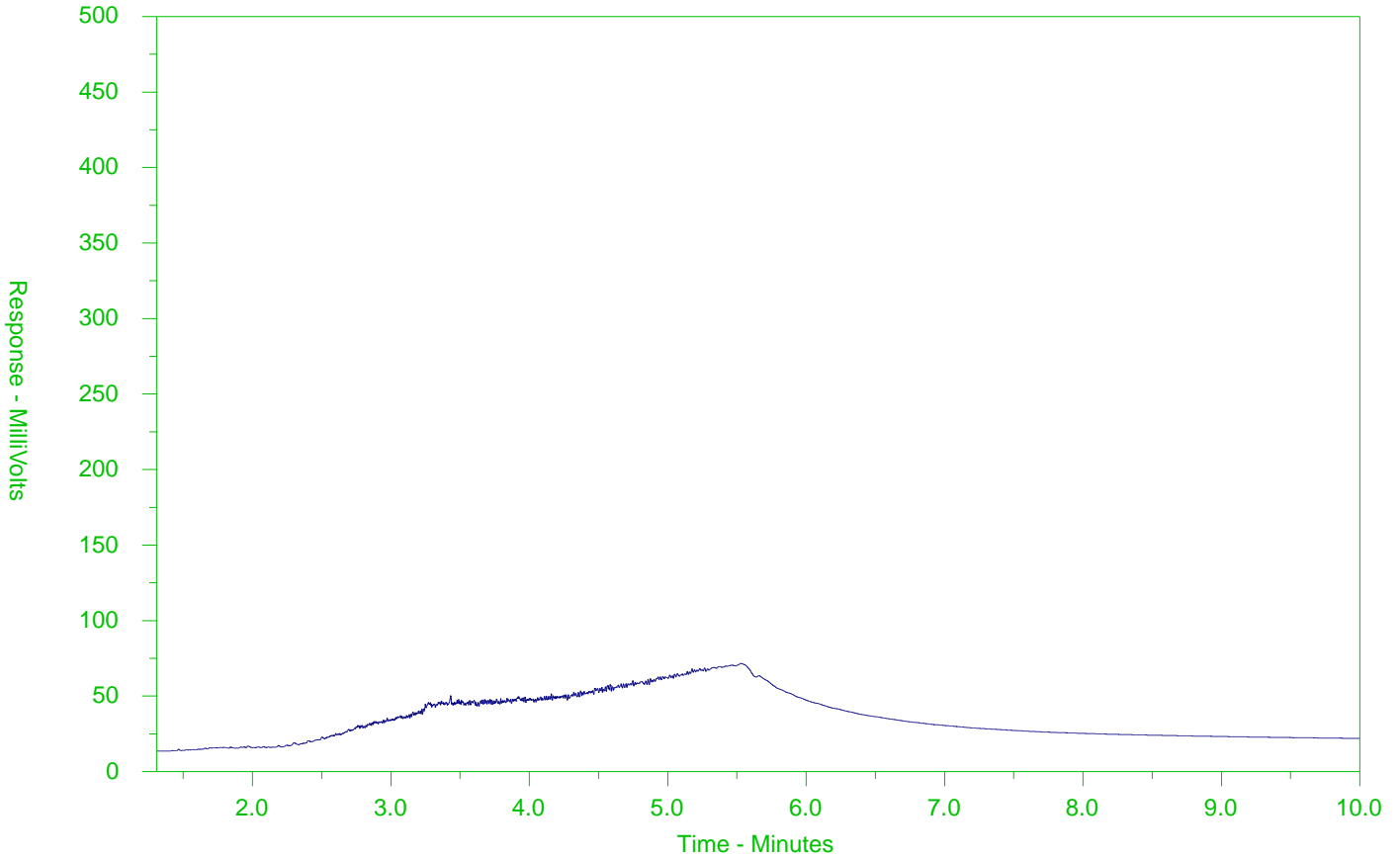
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2693469-21
 Client Sample ID: DUP1



← 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.

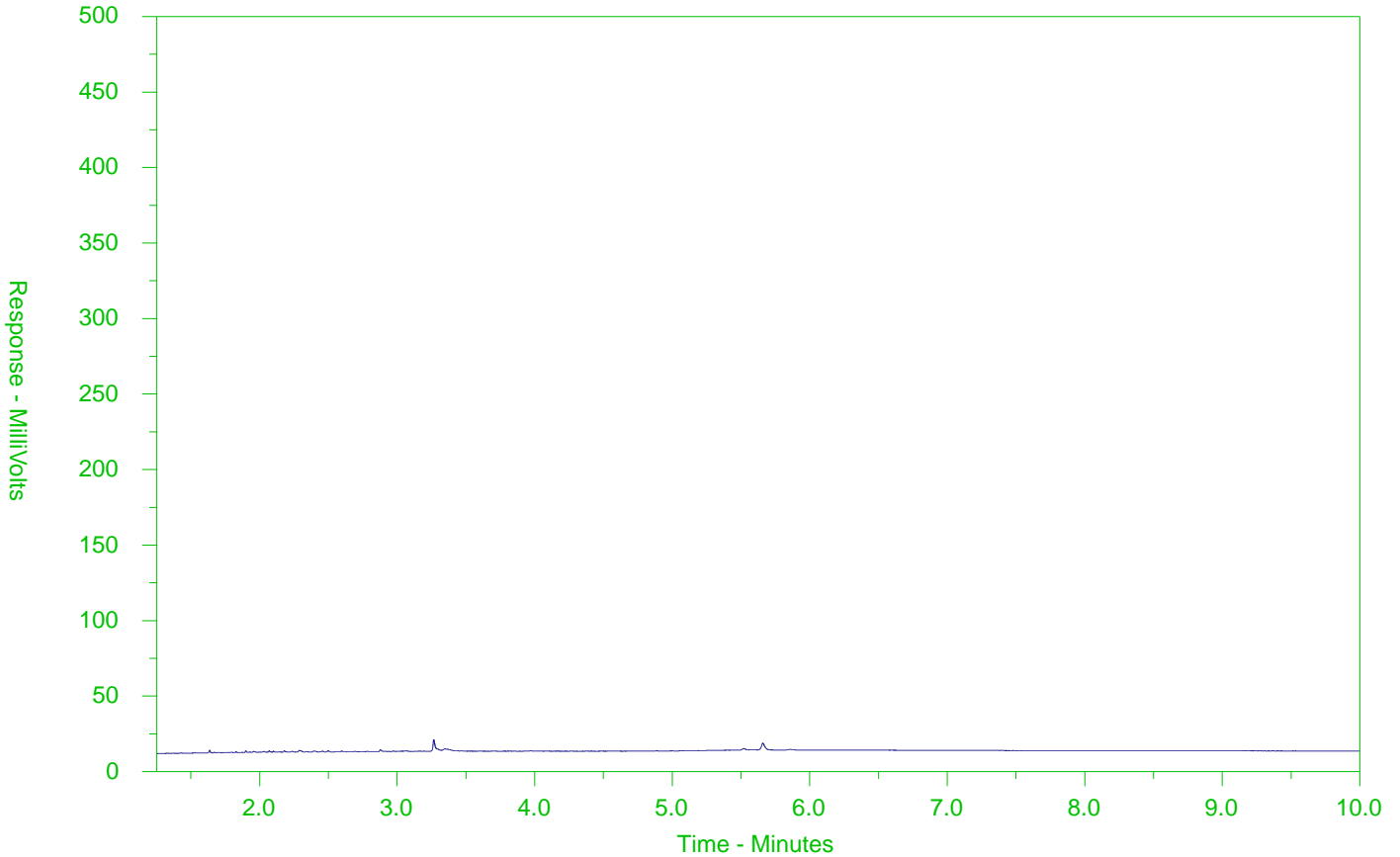
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2693469-25
 Client Sample ID: DUP5



← 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.



Report To Contact and company name below will appear on the final report Company: GROUNDING ENGINEERING Contact: NICHOLAS PIERS Phone: 416-484-5234 Company address below will appear on the final report Street: 1 BANIGIAN DR City/Province: TORONTO, ON Postal Code: M4H 1G5		Reports / Recipients Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> EDD (DIGITAL) Merge QC/QCI Reports with COA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax Email 2 Email 3		Turnaround Time (TAT) Requested <input checked="" type="checkbox"/> Routine [R] if received by 3pm M-F - no surcharges apply <input type="checkbox"/> 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum <input type="checkbox"/> 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum <input type="checkbox"/> 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum <input type="checkbox"/> 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum <input type="checkbox"/> 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. Date and Time Required for all EAP TATs:		AFFIX ALS BARCODE LABEL HERE (ALS use only)	
Invoice To Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Copy of Invoice with Report <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Invoice Recipients Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax Email 2		Analysis Request For all tests with rush TATs requested, please contact your AM to confirm availability.			
Project Information ALS Account # / Quote #: 21-067 Job #: AP PO / AFE: LSD: 60 DUNDAS ST E, MISSISSAUGA		Oil and Gas Required Fields (client use) AFE/Cost Center: PO# Major/Minor Code: Routing Code: Requisitioner: Location:		NUMBER OF CONTAINERS METALS & INORGANICS PAH PCB PHE/BTEX VOC		SAMPLES ON HOLD EXTENDED STORAGE REQUIRED SUSPECTED HAZARD (see notes)	
ALS Lab Work Order # (ALS use only): L269 3469		ALS Contact:		Sampler: ALEXANDER JOHNSON			
Sample Identification and/or Coordinates (This description will appear on the report)		Date (dd-mm-yy)		Time (hh:mm)		Sample Type	
ALS Sample # (ALS use only)							
BH207 SS1		14/MAR/22		Soil		1	
BH207 SS2		14/MAR/22		Soil		3	
BH207 SS3		14/MAR/22		Soil		2	
BH207 SS4		14/MAR/22		Soil		2	
BH207 SS7		14/MAR/22		Soil		3	
BH 201 SS1A		15/MAR/22		Soil		2	
BH 201 SS1B		15/MAR/22		Soil		1	
BH 201 SS3		15/MAR/22		Soil		3	
BH 201 SS4		15/MAR/22		Soil		2	
BH201 SS6		15/MAR/22		Soil		3	
Drinking Water (DW) Samples (client use) Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input type="checkbox"/> NO Are samples for human consumption use? <input type="checkbox"/> YES <input type="checkbox"/> NO		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel CDC only) 0 REG 153/04, TABLE 3, RPI, COARSE		SAMPLE RECEIPT DETAILS (ALS use only) Cooling Method: <input type="checkbox"/> NONE <input type="checkbox"/> ICE <input checked="" type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> YES <input type="checkbox"/> NO Cooler Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A Sample Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A INITIAL COOLER TEMPERATURES °C: 11.0 12.2 FINAL COOLER TEMPERATURES °C: 6.3			
SHIPMENT RELEASE (client use) Released by: Alexander Johnson Date: 18 MAR 22 Time: 16:30		INITIAL SHIPMENT RECEPTION (ALS use only) Received by: HK Date: 03/18/22 Time: 16:45		FINAL SHIPMENT RECEPTION (ALS use only) Received by: KC Date: 03/21/22 Time: 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 LEGISLY. 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.



Report To Company: GROUNDING ENGINEERING Contact: NICHOLAS PERS Phone: 416-984-5234 <small>Company address below will appear on the final report</small>		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> EXD (DIGITAL) Merge QC/QCI Reports with COA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX		Turnaround Time (TAT) Requested <input checked="" type="checkbox"/> Routine (R) if received by 3pm M-F - no surcharges apply <input type="checkbox"/> 4 day (P4) if received by 3pm M-F - 20% rush surcharge minimum <input type="checkbox"/> 3 day (P3) if received by 3pm M-F - 25% rush surcharge minimum <input type="checkbox"/> 2 day (P2) if received by 3pm M-F - 50% rush surcharge minimum <input type="checkbox"/> 1 day (E) if received by 3pm M-F - 100% rush surcharge minimum <input type="checkbox"/> 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		AFFIX ALS BARCODE LABEL HERE (ALS use only)																																																																																																											
Street: 1 BANIGAN DR City/Province: TORONTO, ON Postal Code: M4H 1G3		Email 1 or Fax Email 2 Email 3		Date and Time Required for all BAP TATs:																																																																																																													
Invoice To: Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Copy of Invoice with Report <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Invoice Recipients Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax Email 2		Analysis Request Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below		SAMPLES ON HOLD EXTENDED STORAGE REQUIRED SUSPECTED HAZARD (see notes)																																																																																																											
Project Information ALS Account # / Quote #: Z1-067 Job #: 15P.A.P PO / AFE: LSD: 60 DUNDAS ST E, MISSISSAUGA		Oil and Gas Required Fields (client use) AFE/Cost Center Major/Minor Code Requisitioner: Location:		ALS Lab Work Order # (ALS use only): L2693469 ALS Contact: Sampler: ALEXANDER JOHNSON		<table border="1"> <thead> <tr> <th rowspan="2">NUMBER OF CONTAINERS</th> <th rowspan="2">METALS & INORGANIC</th> <th rowspan="2">PAH</th> <th rowspan="2">PCB</th> <th rowspan="2">PHC/BTEX</th> <th rowspan="2">VOC</th> <th rowspan="2">SAMPLES ON HOLD</th> <th rowspan="2">EXTENDED STORAGE REQUIRED</th> <th rowspan="2">SUSPECTED HAZARD (see notes)</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		NUMBER OF CONTAINERS	METALS & INORGANIC	PAH	PCB	PHC/BTEX	VOC	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)								1			X						2	X	X							3				X	X				2	X	X							3				X	X				1			X						2	X	X							3				X	X				2	X	X							3				X	X			
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REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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

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



Report To Contact and company name below will appear on the final report Company: GROUNDING ENGINEERING Contact: NICHOLAS PIERS Phone: 416-984-5234 Company address below will appear on the final report Street: BANIGAN DR City/Province: TORONTO ON Postal Code: M4H 1G3		Reports / Recipients Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> EDD (DIGITAL) Merge QC/QCI Reports with COA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: Email 2: Email 3:		Turnaround Time (TAT) Requested <input checked="" type="checkbox"/> Routine (R) if received by 3pm M-F - no surcharges apply <input type="checkbox"/> 4 day (P4) if received by 3pm M-F - 20% rush surcharge minimum <input type="checkbox"/> 3 day (P3) if received by 3pm M-F - 25% rush surcharge minimum <input type="checkbox"/> 2 day (P2) if received by 3pm M-F - 50% rush surcharge minimum <input type="checkbox"/> 1 day (E) if received by 3pm M-F - 100% rush surcharge minimum <input type="checkbox"/> 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. AFFIX ALS BARCODE LABEL HERE (ALS use only)																																																														
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ALS 2020 FORM

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



Grounded Engineering Inc
ATTN: ZENITH WONG
12 Banigan Drive
TORONTO ON M4H 1E9

Date Received: 04-MAY-21
Report Date: 11-MAY-21 10:46 (MT)
Version: FINAL

Client Phone: 647-264-7932

Certificate of Analysis

Lab Work Order #: L2583193
Project P.O. #: NOT SUBMITTED
Job Reference: 21-067
C of C Numbers: 20-888180
Legal Site Desc:

Jennifer Barkshire-Paterson
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	

Federal & Provincial Waste Regulations (MAR, 2008) - Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

(No parameter exceedances)

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

Sample Preparation - WASTE

Lab ID	L2583193-1
Sample Date	03-MAY-21
Sample ID	TCLP

Analyte	Unit	Guide Limits		
		#1	#2	
Initial pH	pH units	-	-	9.80
Final pH	pH units	-	-	5.79

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

- 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.

TCLP Extractables - WASTE

Lab ID L2583193-1
Sample Date 03-MAY-21
Sample ID TCLP

Analyte	Unit	Guide Limits		
		#1	#2	
Aroclor 1242	mg/L	-	-	<0.00020
Aroclor 1248	mg/L	-	-	<0.00020
Aroclor 1254	mg/L	-	-	<0.00020
Aroclor 1260	mg/L	-	-	<0.00020
Benzo(a)pyrene	mg/L	0.001	-	<0.0010
Cyanide, Weak Acid Diss	mg/L	20	-	<0.10
Fluoride (F)	mg/L	150.0	-	<10
Nitrate and Nitrite as N	mg/L	1000	-	<4.0
Nitrate-N	mg/L	-	-	<2.0
Nitrite-N	mg/L	-	-	<2.0
Total PCBs	mg/L	0.3	-	<0.00040
Surrogate: Chrysene d12	%	-	-	100.0

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

- 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.

TCLP Metals - WASTE

Lab ID L2583193-1
Sample Date 03-MAY-21
Sample ID TCLP

Analyte	Unit	Guide Limits		
		#1	#2	
Arsenic (As)	mg/L	2.5	-	<0.050
Barium (Ba)	mg/L	100	-	0.53
Boron (B)	mg/L	500	-	<2.5
Cadmium (Cd)	mg/L	0.5	-	<0.0050
Chromium (Cr)	mg/L	5.0	-	<0.050
Lead (Pb)	mg/L	5.0	-	<0.025
Mercury (Hg)	mg/L	0.1	-	<0.00010
Selenium (Se)	mg/L	1.0	-	<0.025
Silver (Ag)	mg/L	5.0	-	<0.0050
Uranium (U)	mg/L	10	-	<0.25

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

- 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.

TCLP VOCs - WASTE

Lab ID L2583193-1
Sample Date 03-MAY-21
Sample ID TCLP

Analyte	Unit	Guide Limits		
		#1	#2	
1,1-Dichloroethylene	mg/L	1.4	-	<0.025
1,2-Dichlorobenzene	mg/L	20.0	-	<0.025
1,2-Dichloroethane	mg/L	0.5	-	<0.025
1,4-Dichlorobenzene	mg/L	0.5	-	<0.025
Benzene	mg/L	0.5	-	<0.025
Carbon tetrachloride	mg/L	0.5	-	<0.025
Chlorobenzene	mg/L	8	-	<0.025
Chloroform	mg/L	10	-	<0.10
Dichloromethane	mg/L	5.0	-	<0.50
Methyl Ethyl Ketone	mg/L	200.0	-	<1.0
Tetrachloroethylene	mg/L	3	-	<0.025
Trichloroethylene	mg/L	5	-	<0.025
Vinyl chloride	mg/L	0.2	-	<0.050
Surrogate: 4-Bromofluorobenzene	%	-	-	89.1

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

- 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.

Volatile Organic Compounds - WASTE

Lab ID	L2583193-1
Sample Date	03-MAY-21
Sample ID	TCLP

Analyte	Unit	Guide Limits		
		#1	#2	
Surrogate: 1,4-Difluorobenzene	%	-	-	103.1

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

-  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.

Polychlorinated Biphenyls - WASTE

Lab ID L2583193-1
Sample Date 03-MAY-21
Sample ID TCLP

Analyte	Unit	Guide Limits		
		#1	#2	
Surrogate: Decachlorobiphenyl	%	-	-	23.2 ^{RRR}
Surrogate: Tetrachloro-m-xylene	%	-	-	83.2

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

- 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

Additional Comments for Sample Listed:

Samplenum	Matrix	Report Remarks	Sample Comment:
L2583193-1	Waste	Note: RRR: Recovery is outside ALS control limits. Associated non-detect analyte results have not been affected.	

Qualifiers for Individual Parameters Listed:

Qualifier	Description
RRR	Refer to Report Remarks for issues regarding this analysis

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
BAP-ONT-TCLP-WT	Waste	Benzo(a)pyrene for O. Reg 347	SW 846 8270-GC-MS on TCLP Leachate
CN-TCLP-WT	Waste	Cyanide for O. Reg 347	APHA 4500CN I

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

F-TCLP-WT	Waste	Fluoride (F) for O. Reg 347	EPA 300.1
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This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from EPA 300.1 and is analyzed by Ion Chromatography with conductivity and/or UV detection.

HG-TCLP-WT	Waste	Mercury (CVAA) for O.Reg 347	EPA 1631E
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This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fibre filter and analysed using atomic absorption spectrophotometry (EPA 1631E).

LEACH-TCLP-WT	Waste	Leachate Procedure for Reg 347	EPA 1311
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Inorganic and Semi-Volatile Organic contaminants are leached from waste samples in strict accordance with US EPA Method 1311, "Toxicity Characteristic Leaching Procedure" (TCLP). Test results are reported in leachate concentration units (normally mg/L).

MET-TCLP-WT	Waste	O.Reg 347 TCLP Leachable Metals	EPA 6020B
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This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fibre filter. Instrumental analysis of the digested extract is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020B).

N2N3-TCLP-WT	Waste	Nitrate/Nitrite-N for O. Reg 347	EPA 300.1
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This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter.

Reference Information

L2583193 CONT'D....
Job Reference: 21-067
PAGE 10 of 10
11-MAY-21 10:46 (MT)

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
The extract is then analyzed using procedures adapted from EPA 300.1 and is analyzed by Ion Chromatography with conductivity and/or UV detection.			
PCB-TCLP-WT	Waste	PCBs for O. Reg 347	SW846 8270
VOC-TCLP-WT	Waste	VOC for O. Reg 347	SW846 8260
A sample of waste is leached in a zero headspace extractor at 30–2 rpm for 18–2.0 hours with the appropriate leaching solution. After tumbling the leachate is analyzed directly by headspace technology, followed by GC/MS using internal standard quantitation.			

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

Chain of Custody Numbers:

20-888180

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: L2583193

Report Date: 11-MAY-21

Page 1 of 6

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BAP-ONT-TCLP-WT		Waste						
Batch	R5454484							
WG3530292-3	DUP	WG3530292-5						
Benzo(a)pyrene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	50	07-MAY-21
WG3530292-2	LCS							
Benzo(a)pyrene			103.6		%		50-150	07-MAY-21
WG3530292-1	MB							
Benzo(a)pyrene			<0.0010		mg/L		0.001	07-MAY-21
Surrogate: Chrysene d12			110.9		%		50-150	07-MAY-21
WG3530292-4	MS	WG3530292-5						
Benzo(a)pyrene			103.0		%		50-150	07-MAY-21
CN-TCLP-WT		Waste						
Batch	R5453024							
WG3529953-3	DUP	L2583496-1						
Cyanide, Weak Acid Diss		<0.10	<0.10	RPD-NA	mg/L	N/A	50	06-MAY-21
WG3529953-2	LCS							
Cyanide, Weak Acid Diss			101.7		%		70-130	06-MAY-21
WG3529953-1	MB							
Cyanide, Weak Acid Diss			<0.10		mg/L		0.1	06-MAY-21
WG3529953-4	MS	L2583496-1						
Cyanide, Weak Acid Diss			101.8		%		50-140	06-MAY-21
F-TCLP-WT		Waste						
Batch	R5454486							
WG3530517-3	DUP	L2582953-2						
Fluoride (F)		<10	<10	RPD-NA	mg/L	N/A	30	06-MAY-21
WG3530517-2	LCS							
Fluoride (F)			92.9		%		70-130	06-MAY-21
WG3530517-1	MB							
Fluoride (F)			<10		mg/L		10	06-MAY-21
WG3530517-4	MS	L2582953-2						
Fluoride (F)			95.6		%		50-150	06-MAY-21
HG-TCLP-WT		Waste						
Batch	R5452720							
WG3529971-3	DUP	L2583205-1						
Mercury (Hg)		<0.00010	<0.00010	RPD-NA	mg/L	N/A	50	06-MAY-21
WG3529971-2	LCS							
Mercury (Hg)			105.0		%		70-130	06-MAY-21
WG3529971-1	MB							
Mercury (Hg)			<0.00010		mg/L		0.0001	06-MAY-21



Quality Control Report

Workorder: L2583193

Report Date: 11-MAY-21

Page 2 of 6

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-TCLP-WT		Waste						
Batch	R5452720							
WG3529971-4	MS	L2583205-1						
Mercury (Hg)			97.9		%		50-140	06-MAY-21
MET-TCLP-WT		Waste						
Batch	R5452659							
WG3529966-4	DUP	WG3529966-3						
Silver (Ag)		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	06-MAY-21
Arsenic (As)		<0.050	<0.050	RPD-NA	mg/L	N/A	50	06-MAY-21
Boron (B)		<2.5	<2.5	RPD-NA	mg/L	N/A	50	06-MAY-21
Barium (Ba)		1.18	1.25		mg/L	6.0	50	06-MAY-21
Cadmium (Cd)		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	06-MAY-21
Chromium (Cr)		<0.050	<0.050	RPD-NA	mg/L	N/A	50	06-MAY-21
Lead (Pb)		<0.025	<0.025	RPD-NA	mg/L	N/A	50	06-MAY-21
Selenium (Se)		<0.025	<0.025	RPD-NA	mg/L	N/A	50	06-MAY-21
Uranium (U)		<0.25	<0.25	RPD-NA	mg/L	N/A	50	06-MAY-21
WG3529966-2	LCS							
Silver (Ag)			99.5		%		70-130	06-MAY-21
Arsenic (As)			99.3		%		70-130	06-MAY-21
Boron (B)			96.2		%		70-130	06-MAY-21
Barium (Ba)			101.9		%		70-130	06-MAY-21
Cadmium (Cd)			98.8		%		70-130	06-MAY-21
Chromium (Cr)			101.5		%		70-130	06-MAY-21
Lead (Pb)			100.5		%		70-130	06-MAY-21
Selenium (Se)			100.5		%		70-130	06-MAY-21
Uranium (U)			98.4		%		70-130	06-MAY-21
WG3529966-1	MB							
Silver (Ag)			<0.0050		mg/L		0.005	06-MAY-21
Arsenic (As)			<0.050		mg/L		0.05	06-MAY-21
Boron (B)			<2.5		mg/L		2.5	06-MAY-21
Barium (Ba)			<0.50		mg/L		0.5	06-MAY-21
Cadmium (Cd)			<0.0050		mg/L		0.005	06-MAY-21
Chromium (Cr)			<0.050		mg/L		0.05	06-MAY-21
Lead (Pb)			<0.025		mg/L		0.025	06-MAY-21
Selenium (Se)			<0.025		mg/L		0.025	06-MAY-21
Uranium (U)			<0.25		mg/L		0.25	06-MAY-21



Quality Control Report

Workorder: L2583193

Report Date: 11-MAY-21

Page 3 of 6

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TCLP-WT		Waste						
Batch	R5452659							
WG3529966-5	MS	WG3529966-3						
Silver (Ag)			136.9		%		50-140	06-MAY-21
Arsenic (As)			111.4		%		50-140	06-MAY-21
Boron (B)			116.5		%		50-140	06-MAY-21
Barium (Ba)			113.4		%		50-140	06-MAY-21
Cadmium (Cd)			112.3		%		50-140	06-MAY-21
Chromium (Cr)			114.2		%		50-140	06-MAY-21
Lead (Pb)			115.8		%		50-140	06-MAY-21
Selenium (Se)			113.7		%		50-140	06-MAY-21
Uranium (U)			110.0		%		50-140	06-MAY-21
N2N3-TCLP-WT		Waste						
Batch	R5454486							
WG3530517-3	DUP	L2582953-2						
Nitrate-N		<2.0	<2.0	RPD-NA	mg/L	N/A	25	06-MAY-21
Nitrite-N		<2.0	<2.0	RPD-NA	mg/L	N/A	25	06-MAY-21
WG3530517-2	LCS							
Nitrate-N			98.9		%		70-130	06-MAY-21
Nitrite-N			100.1		%		70-130	06-MAY-21
WG3530517-1	MB							
Nitrate-N			<2.0		mg/L		2	06-MAY-21
Nitrite-N			<2.0		mg/L		2	06-MAY-21
WG3530517-4	MS	L2582953-2						
Nitrate-N			101.3		%		50-150	06-MAY-21
Nitrite-N			103.1		%		50-150	06-MAY-21
PCB-TCLP-WT		Waste						
Batch	R5454992							
WG3531079-3	DUP	WG3531079-5						
Aroclor 1242		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	10-MAY-21
Aroclor 1248		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	10-MAY-21
Aroclor 1254		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	10-MAY-21
Aroclor 1260		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	10-MAY-21
COMMENTS: RRQC: Recovery is outside ALS control limits. Associated non-detect analyte results have not been affected.								
WG3531079-2	LCS							
Aroclor 1242			81.4		%		65-130	10-MAY-21
Aroclor 1248			66.1		%		65-130	10-MAY-21
Aroclor 1254			72.4		%		65-130	10-MAY-21



Quality Control Report

Workorder: L2583193

Report Date: 11-MAY-21

Page 4 of 6

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-TCLP-WT		Waste						
Batch	R5454992							
WG3531079-2	LCS							
Aroclor 1260			78.7		%		65-130	10-MAY-21
WG3531079-1	MB							
Aroclor 1242			<0.00020		mg/L		0.0002	10-MAY-21
Aroclor 1248			<0.00020		mg/L		0.0002	10-MAY-21
Aroclor 1254			<0.00020		mg/L		0.0002	10-MAY-21
Aroclor 1260			<0.00020		mg/L		0.0002	10-MAY-21
Surrogate: Decachlorobiphenyl			64.3		%		50-150	10-MAY-21
Surrogate: Tetrachloro-m-xylene			83.4		%		50-150	10-MAY-21
WG3531079-4	MS	WG3531079-5						
Aroclor 1242			73.2		%		50-150	10-MAY-21
Aroclor 1254			65.5		%		50-150	10-MAY-21
Aroclor 1260			56.6		%		50-150	10-MAY-21
COMMENTS: RRQC: Recovery is outside ALS control limits. Associated non-detect analyte results have not been affected.								
VOC-TCLP-WT		Waste						
Batch	R5453966							
WG3530055-1	LCS							
1,1-Dichloroethylene			108.0		%		70-130	06-MAY-21
1,2-Dichlorobenzene			102.6		%		70-130	06-MAY-21
1,2-Dichloroethane			100.6		%		70-130	06-MAY-21
1,4-Dichlorobenzene			103.6		%		70-130	06-MAY-21
Benzene			100.7		%		70-130	06-MAY-21
Carbon tetrachloride			108.3		%		60-140	06-MAY-21
Chlorobenzene			102.4		%		70-130	06-MAY-21
Chloroform			110.4		%		70-130	06-MAY-21
Dichloromethane			111.7		%		70-130	06-MAY-21
Methyl Ethyl Ketone			99.6		%		50-150	06-MAY-21
Tetrachloroethylene			99.6		%		70-130	06-MAY-21
Trichloroethylene			103.8		%		70-130	06-MAY-21
Vinyl chloride			116.4		%		60-130	06-MAY-21
WG3530055-2	MB							
1,1-Dichloroethylene			<0.025		mg/L		0.025	06-MAY-21
1,2-Dichlorobenzene			<0.025		mg/L		0.025	06-MAY-21
1,2-Dichloroethane			<0.025		mg/L		0.025	06-MAY-21
1,4-Dichlorobenzene			<0.025		mg/L		0.025	06-MAY-21



Quality Control Report

Workorder: L2583193

Report Date: 11-MAY-21

Page 5 of 6

Client: Grounded Engineering Inc
 12 Banigan Drive
 TORONTO ON M4H 1E9

Contact: ZENITH WONG

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-TCLP-WT								
	Waste							
Batch	R5453966							
WG3530055-2 MB								
Benzene			<0.025		mg/L		0.025	06-MAY-21
Carbon tetrachloride			<0.025		mg/L		0.025	06-MAY-21
Chlorobenzene			<0.025		mg/L		0.025	06-MAY-21
Chloroform			<0.10		mg/L		0.1	06-MAY-21
Dichloromethane			<0.50		mg/L		0.5	06-MAY-21
Methyl Ethyl Ketone			<1.0		mg/L		1	06-MAY-21
Tetrachloroethylene			<0.025		mg/L		0.025	06-MAY-21
Trichloroethylene			<0.025		mg/L		0.025	06-MAY-21
Vinyl chloride			<0.050		mg/L		0.05	06-MAY-21
Surrogate: 1,4-Difluorobenzene			103.1		%		70-130	06-MAY-21
Surrogate: 4-Bromofluorobenzene			89.7		%		70-130	06-MAY-21
WG3530055-3 MS		WG3530055-4						
1,1-Dichloroethylene			90.8		%		50-140	07-MAY-21
1,2-Dichlorobenzene			98.1		%		50-140	07-MAY-21
1,2-Dichloroethane			84.3		%		50-140	07-MAY-21
1,4-Dichlorobenzene			101.0		%		50-140	07-MAY-21
Benzene			92.4		%		50-140	07-MAY-21
Carbon tetrachloride			100.7		%		50-140	07-MAY-21
Chlorobenzene			97.3		%		50-140	07-MAY-21
Chloroform			101.7		%		50-140	07-MAY-21
Dichloromethane			94.0		%		50-140	07-MAY-21
Methyl Ethyl Ketone			72.5		%		50-140	07-MAY-21
Tetrachloroethylene			95.6		%		50-140	07-MAY-21
Trichloroethylene			97.6		%		50-140	07-MAY-21
Vinyl chloride			84.5		%		50-140	07-MAY-21

Quality Control Report

Workorder: L2583193

Report Date: 11-MAY-21

Client: Grounded Engineering Inc
12 Banigan Drive
TORONTO ON M4H 1E9
Contact: ZENITH WONG

Page 6 of 6

Legend:

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

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



www.alsglobal.com



L2583193-COFC

ody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20 - 888180

Page 2 of 2

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 209	Select Report Format:	<input checked="" type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)	<input checked="" type="checkbox"/> Routine (R) if received by 3pm M-F - no surcharges apply											
Contact:	Zenith wong	Merge QC/QCI Reports with COA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> 4 day (P4) if received by 3pm M-F - 20% rush surcharge minimum											
Phone:	647 769 7949	Compare Results to Criteria on Report: provide details below if box checked	<input checked="" type="checkbox"/>	<input type="checkbox"/> 3 day (P3) if received by 3pm M-F - 25% rush surcharge minimum											
Company address below will appear on the final report		Select Distribution:	<input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX	<input type="checkbox"/> 2 day (P2) if received by 3pm M-F - 50% rush surcharge minimum											
Street:	12 BARNHAM Drive TORONTO	Email 1 or Fax	2 wong @ grounded.ca			<input type="checkbox"/> 1 day (E) if received by 3pm M-F - 100% rush surcharge minimum									
City/Province:	NO	Email 2				<input type="checkbox"/> 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:	M4H 1E9	Email 3				Date and Time Required for all E&P TATs:									
Invoice To	Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Invoice Recipients			For all tests with rush TATs requested, please contact your AM to confirm availability										
	Copy of Invoice with Report <input type="checkbox"/> YES <input type="checkbox"/> NO	Select Invoice Distribution:	<input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> 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)			NUMBER OF CONTAINERS				SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)				
ALS Account # / Quote #		AFE/Cost Center:		PO#											
Job #:	21-064	Major/Minor Code:		Routing Code:											
PO / AFF:		Requisitioner:													
LSD:	03	Location:													
ALS Lab Work Order # (ALS use only): L2583177		ALS Contact:		Sampler:											
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type											
	BH 103 395	3 MAY		Soil	3										
	JUP 1				1	X									
	JUP 2				1										
	JUP 3				3		X								
	JUP 4				3			X							
	JUP 5				1	X									
	TCLP				1				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? <input type="checkbox"/> YES <input type="checkbox"/> NO		16618 ICC CT			Cooling Method: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED										
Are samples for human consumption/ use? <input type="checkbox"/> YES <input type="checkbox"/> NO					Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> YES <input type="checkbox"/> NO										
					Cooler Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A Sample Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A										
					INITIAL COOLER TEMPERATURES °C: 8.3 FINAL COOLER TEMPERATURES °C:										
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)										
Released by:	1-2	Date:	3 May	Time:	12:35	Received by:		Date:	05/04/21	Time:	1:00				

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 2020 FORM 1



Grounded Engineering Inc
ATTN: Nicholas Piers
1 Banigan Drive
TORONTO ON M4H 1G3

Date Received: 18-MAR-22
Report Date: 25-MAR-22 10:46 (MT)
Version: FINAL

Client Phone: 647-264-7932

Certificate of Analysis

Lab Work Order #: L2693471
Project P.O. #: NOT SUBMITTED
Job Reference: 21-067
C of C Numbers: 20-954058
Legal Site Desc: 60 DUNDAS ST E, MISSISSAUGA

Comments: ADDITIONAL 24-MAR-22 14:28

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

Summary of Guideline Exceedances

Guideline							
ALS ID	Client ID	Grouping	Analyte	Result	Guideline Limit	Unit	
Federal & Provincial Waste Regulations (MAR, 2008) - Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90							
(No parameter exceedances)							

Sample Preparation - WASTE

Lab ID	L2693471-1
Sample Date	18-MAR-22
Sample ID	TCLP



Analyte	Unit	Guide Limits		
		#1	#2	
Initial pH	pH units	-	-	9.40
Final pH	pH units	-	-	5.03

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

- 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.

TCLP Extractables - WASTE

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

-  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.

TCLP Metals - WASTE

Lab ID L2693471-1
Sample Date 18-MAR-22
Sample ID TCLP

Analyte	Unit	Guide Limits		
		#1	#2	
Arsenic (As)	mg/L	2.5	-	<0.050
Barium (Ba)	mg/L	100	-	0.70
Boron (B)	mg/L	500	-	<2.5
Cadmium (Cd)	mg/L	0.5	-	<0.0050
Chromium (Cr)	mg/L	5.0	-	<0.050
Lead (Pb)	mg/L	5.0	-	0.039
Mercury (Hg)	mg/L	0.1	-	<0.00010
Selenium (Se)	mg/L	1.0	-	<0.025
Silver (Ag)	mg/L	5.0	-	<0.0050
Uranium (U)	mg/L	10	-	<0.25

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

- 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.

TCLP VOCs - WASTE

Lab ID L2693471-1
Sample Date 18-MAR-22
Sample ID TCLP

Analyte	Unit	Guide Limits		
		#1	#2	
1,1-Dichloroethylene	mg/L	1.4	-	<0.025
1,2-Dichlorobenzene	mg/L	20.0	-	<0.025
1,2-Dichloroethane	mg/L	0.5	-	<0.025
1,4-Dichlorobenzene	mg/L	0.5	-	<0.025
Benzene	mg/L	0.5	-	<0.025
Carbon tetrachloride	mg/L	0.5	-	<0.025
Chlorobenzene	mg/L	8	-	<0.025
Chloroform	mg/L	10	-	<0.10
Dichloromethane	mg/L	5.0	-	<0.50
Methyl Ethyl Ketone	mg/L	200.0	-	<1.0
Tetrachloroethylene	mg/L	3	-	<0.025
Trichloroethylene	mg/L	5	-	<0.025
Vinyl chloride	mg/L	0.2	-	<0.050
Surrogate: 4-Bromofluorobenzene	%	-	-	97.6

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

- 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.

Volatile Organic Compounds - WASTE

Lab ID	L2693471-1
Sample Date	18-MAR-22
Sample ID	TCLP

Analyte	Unit	Guide Limits		
		#1	#2	
Surrogate: 1,4-Difluorobenzene	%	-	-	99.7

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

- 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.

Polychlorinated Biphenyls - WASTE

Lab ID	L2693471-1
Sample Date	18-MAR-22
Sample ID	TCLP

Analyte	Unit	Guide Limits		
		#1	#2	
Surrogate: Decachlorobiphenyl	%	-	-	110.1
Surrogate: Tetrachloro-m-xylene	%	-	-	97.8

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

- 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.

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
BAP-ONT-TCLP-WT	Waste	Benzo(a)pyrene for O. Reg 347	SW 846 8270-GC-MS on TCLP Leachate
CN-TCLP-WT	Waste	Cyanide for O. Reg 347	APHA 4500CN I
<p>This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.</p>			
F-TCLP-WT	Waste	Fluoride (F) for O. Reg 347	EPA 300.1
<p>This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from EPA 300.1 and is analyzed by Ion Chromatography with conductivity and/or UV detection.</p>			
HG-TCLP-WT	Waste	Mercury (CVAA) for O.Reg 347	EPA 1631E
<p>This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fibre filter and analysed using atomic absorption spectrophotometry (EPA 1631E).</p>			
LEACH-TCLP-WT	Waste	Leachate Procedure for Reg 347	EPA 1311
<p>Inorganic and Semi-Volatile Organic contaminants are leached from waste samples in strict accordance with US EPA Method 1311, "Toxicity Characteristic Leaching Procedure" (TCLP). Test results are reported in leachate concentration units (normally mg/L).</p>			
MET-TCLP-WT	Waste	O.Reg 347 TCLP Leachable Metals	EPA 6020B
<p>This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fibre filter. Instrumental analysis of the digested extract is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020B).</p>			
N2N3-TCLP-WT	Waste	Nitrate/Nitrite-N for O. Reg 347	EPA 300.1
<p>This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from EPA 300.1 and is analyzed by Ion Chromatography with conductivity and/or UV detection.</p>			
PAH-TCLP-WT	Waste	PAH for O. Reg 347	SW846 8270 (PAH)
<p>Samples are leached according to TCLP protocol and then the aqueous leachate is extracted and the resulting extracts are analyzed on GC/MSD. Depending on the analytical GC/MS column used benzo(j)fluoranthene may chromatographically co-elute with benzo(b)fluoranthene or benzo(k)fluoranthene.</p>			
PCB-TCLP-WT	Waste	PCBs for O. Reg 347	SW846 8270
VOC-TCLP-WT	Waste	VOC for O. Reg 347	SW846 8260

A sample of waste is leached in a zero headspace extractor at 30–2 rpm for 18–2.0 hours with the appropriate leaching solution. After tumbling the leachate is analyzed directly by headspace technology, followed by GC/MS using internal standard quantitation.

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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**ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody Numbers:

20-954058

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
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WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
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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: L2693471

Report Date: 25-MAR-22

Page 1 of 8

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BAP-ONT-TCLP-WT		Waste						
Batch	R5749470							
WG3708800-3	DUP	WG3708800-5						
Benzo(a)pyrene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	50	23-MAR-22
WG3708800-2	LCS							
Benzo(a)pyrene			82.2		%		50-150	23-MAR-22
WG3708800-1	MB							
Benzo(a)pyrene			<0.0010		mg/L		0.001	23-MAR-22
Surrogate: Chrysene d12			103.4		%		50-150	23-MAR-22
WG3708800-4	MS	WG3708800-5						
Benzo(a)pyrene			83.0		%		50-150	23-MAR-22
CN-TCLP-WT		Waste						
Batch	R5749288							
WG3708217-3	DUP	L2688594-1						
Cyanide, Weak Acid Diss		<0.10	<0.10	RPD-NA	mg/L	N/A	50	22-MAR-22
WG3708217-2	LCS							
Cyanide, Weak Acid Diss			99.2		%		70-130	22-MAR-22
WG3708217-1	MB							
Cyanide, Weak Acid Diss			<0.10		mg/L		0.1	22-MAR-22
WG3708217-4	MS	L2688594-1						
Cyanide, Weak Acid Diss			97.4		%		50-140	22-MAR-22
F-TCLP-WT		Waste						
Batch	R5749285							
WG3708573-3	DUP	L2693075-1						
Fluoride (F)		<10	<10	RPD-NA	mg/L	N/A	30	22-MAR-22
WG3708573-2	LCS							
Fluoride (F)			92.7		%		70-130	22-MAR-22
WG3708573-1	MB							
Fluoride (F)			<10		mg/L		10	22-MAR-22
WG3708573-4	MS	L2693075-1						
Fluoride (F)			92.5		%		50-150	22-MAR-22
HG-TCLP-WT		Waste						
Batch	R5748980							
WG3708555-3	DUP	L2693165-1						
Mercury (Hg)		<0.00010	<0.00010	RPD-NA	mg/L	N/A	50	22-MAR-22
WG3708555-2	LCS							
Mercury (Hg)			93.9		%		70-130	22-MAR-22
WG3708555-1	MB							
Mercury (Hg)			<0.00010		mg/L		0.0001	22-MAR-22



Quality Control Report

Workorder: L2693471

Report Date: 25-MAR-22

Page 2 of 8

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-TCLP-WT		Waste						
Batch	R5748980							
WG3708555-4	MS	L2693165-1						
Mercury (Hg)			88.3		%		50-140	22-MAR-22
MET-TCLP-WT		Waste						
Batch	R5749252							
WG3708537-4	DUP	WG3708537-3						
Silver (Ag)		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	22-MAR-22
Arsenic (As)		<0.050	<0.050	RPD-NA	mg/L	N/A	50	22-MAR-22
Boron (B)		<2.5	<2.5	RPD-NA	mg/L	N/A	50	22-MAR-22
Barium (Ba)		<0.50	<0.50	RPD-NA	mg/L	N/A	50	22-MAR-22
Cadmium (Cd)		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	22-MAR-22
Chromium (Cr)		5.38	5.63		mg/L	4.5	50	22-MAR-22
Lead (Pb)		<0.025	<0.025	RPD-NA	mg/L	N/A	50	22-MAR-22
Selenium (Se)		<0.025	<0.025	RPD-NA	mg/L	N/A	50	22-MAR-22
Uranium (U)		<0.25	<0.25	RPD-NA	mg/L	N/A	50	22-MAR-22
WG3708537-2	LCS							
Silver (Ag)			97.5		%		70-130	22-MAR-22
Arsenic (As)			105.3		%		70-130	22-MAR-22
Boron (B)			95.4		%		70-130	22-MAR-22
Barium (Ba)			104.4		%		70-130	22-MAR-22
Cadmium (Cd)			100.0		%		70-130	22-MAR-22
Chromium (Cr)			105.0		%		70-130	22-MAR-22
Lead (Pb)			100.9		%		70-130	22-MAR-22
Selenium (Se)			103.4		%		70-130	22-MAR-22
Uranium (U)			110.5		%		70-130	22-MAR-22
WG3708537-1	MB							
Silver (Ag)			<0.0050		mg/L		0.005	22-MAR-22
Arsenic (As)			<0.050		mg/L		0.05	22-MAR-22
Boron (B)			<2.5		mg/L		2.5	22-MAR-22
Barium (Ba)			<0.50		mg/L		0.5	22-MAR-22
Cadmium (Cd)			<0.0050		mg/L		0.005	22-MAR-22
Chromium (Cr)			<0.050		mg/L		0.05	22-MAR-22
Lead (Pb)			<0.025		mg/L		0.025	22-MAR-22
Selenium (Se)			<0.025		mg/L		0.025	22-MAR-22
Uranium (U)			<0.25		mg/L		0.25	22-MAR-22



Quality Control Report

Workorder: L2693471

Report Date: 25-MAR-22

Page 3 of 8

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TCLP-WT		Waste						
Batch	R5749252							
WG3708537-5	MS	WG3708537-3						
Silver (Ag)			122.9		%		50-140	22-MAR-22
Arsenic (As)			117.2		%		50-140	22-MAR-22
Boron (B)			106.8		%		50-140	22-MAR-22
Barium (Ba)			116.1		%		50-140	22-MAR-22
Cadmium (Cd)			109.3		%		50-140	22-MAR-22
Chromium (Cr)			N/A	MS-B	%		-	22-MAR-22
Lead (Pb)			102.5		%		50-140	22-MAR-22
Selenium (Se)			113.6		%		50-140	22-MAR-22
Uranium (U)			115.2		%		50-140	22-MAR-22
N2N3-TCLP-WT		Waste						
Batch	R5749285							
WG3708573-3	DUP	L2693075-1						
Nitrate-N		<2.0	<2.0	RPD-NA	mg/L	N/A	25	22-MAR-22
Nitrite-N		<2.0	<2.0	RPD-NA	mg/L	N/A	25	22-MAR-22
WG3708573-2	LCS							
Nitrate-N			99.4		%		70-130	22-MAR-22
Nitrite-N			99.0		%		70-130	22-MAR-22
WG3708573-1	MB							
Nitrate-N			<2.0		mg/L		2	22-MAR-22
Nitrite-N			<2.0		mg/L		2	22-MAR-22
WG3708573-4	MS	L2693075-1						
Nitrate-N			100.8		%		50-150	22-MAR-22
Nitrite-N			100.3		%		50-150	22-MAR-22
PAH-TCLP-WT		Waste						
Batch	R5749470							
WG3708800-3	DUP	WG3708800-5						
Acenaphthene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
Acenaphthylene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
Anthracene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
Benzo(a)anthracene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
Benzo(a)pyrene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	50	23-MAR-22
Benzo(b&j)fluoranthene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
Benzo(g,h,i)perylene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
Benzo(k)fluoranthene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22



Quality Control Report

Workorder: L2693471

Report Date: 25-MAR-22

Page 4 of 8

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-TCLP-WT		Waste						
Batch	R5749470							
WG3708800-3	DUP	WG3708800-5						
Chrysene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
Dibenz(a,h)anthracene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
Fluoranthene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
Fluorene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
Indeno(1,2,3-cd)pyrene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
Naphthalene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
Phenanthrene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
Pyrene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
Quinoline		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	23-MAR-22
WG3708800-2	LCS							
Acenaphthene			85.9		%		50-130	23-MAR-22
Acenaphthylene			85.9		%		50-130	23-MAR-22
Anthracene			82.3		%		50-130	23-MAR-22
Benzo(a)anthracene			124.6		%		50-140	23-MAR-22
Benzo(a)pyrene			82.2		%		60-140	23-MAR-22
Benzo(b&j)fluoranthene			86.8		%		50-130	23-MAR-22
Benzo(g,h,i)perylene			90.8		%		50-140	23-MAR-22
Benzo(k)fluoranthene			86.3		%		50-150	23-MAR-22
Chrysene			112.1		%		50-140	23-MAR-22
Dibenz(a,h)anthracene			90.7		%		50-140	23-MAR-22
Fluoranthene			95.0		%		50-130	23-MAR-22
Fluorene			92.6		%		50-130	23-MAR-22
Indeno(1,2,3-cd)pyrene			100.0		%		50-140	23-MAR-22
Naphthalene			77.7		%		50-130	23-MAR-22
Phenanthrene			91.2		%		50-130	23-MAR-22
Pyrene			98.0		%		50-140	23-MAR-22
Quinoline			99.4		%		50-130	23-MAR-22
WG3708800-1	MB							
Acenaphthene			<0.0050		mg/L		0.005	23-MAR-22
Acenaphthylene			<0.0050		mg/L		0.005	23-MAR-22
Anthracene			<0.0050		mg/L		0.005	23-MAR-22
Benzo(a)anthracene			<0.0050		mg/L		0.005	23-MAR-22
Benzo(a)pyrene			<0.0010		mg/L		0.001	23-MAR-22
Benzo(b&j)fluoranthene			<0.0050		mg/L		0.005	23-MAR-22



Quality Control Report

Workorder: L2693471

Report Date: 25-MAR-22

Page 5 of 8

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-TCLP-WT		Waste						
Batch	R5749470							
WG3708800-1 MB								
Benzo(g,h,i)perylene			<0.0050		mg/L		0.005	23-MAR-22
Benzo(k)fluoranthene			<0.0050		mg/L		0.005	23-MAR-22
Chrysene			<0.0050		mg/L		0.005	23-MAR-22
Dibenz(a,h)anthracene			<0.0050		mg/L		0.005	23-MAR-22
Fluoranthene			<0.0050		mg/L		0.005	23-MAR-22
Fluorene			<0.0050		mg/L		0.005	23-MAR-22
Indeno(1,2,3-cd)pyrene			<0.0050		mg/L		0.005	23-MAR-22
Naphthalene			<0.0050		mg/L		0.005	23-MAR-22
Phenanthrene			<0.0050		mg/L		0.005	23-MAR-22
Pyrene			<0.0050		mg/L		0.005	23-MAR-22
Quinoline			<0.0050		mg/L		0.005	23-MAR-22
Surrogate: Naphthalene d8			87.0		%		50-130	23-MAR-22
Surrogate: Phenanthrene d10			113.3		%		60-130	23-MAR-22
Surrogate: Chrysene d12			103.4		%		60-130	23-MAR-22
WG3708800-4 MS		WG3708800-5						
Acenaphthene			89.7		%		50-140	23-MAR-22
Acenaphthylene			87.3		%		50-140	23-MAR-22
Anthracene			92.8		%		50-150	23-MAR-22
Benzo(a)anthracene			106.2		%		50-140	23-MAR-22
Benzo(a)pyrene			83.0		%		50-140	23-MAR-22
Benzo(b&j)fluoranthene			93.8		%		50-150	23-MAR-22
Benzo(g,h,i)perylene			84.7		%		50-140	23-MAR-22
Benzo(k)fluoranthene			92.5		%		50-150	23-MAR-22
Chrysene			96.5		%		50-140	23-MAR-22
Dibenz(a,h)anthracene			84.8		%		50-140	23-MAR-22
Fluoranthene			98.1		%		50-140	23-MAR-22
Fluorene			96.0		%		50-140	23-MAR-22
Indeno(1,2,3-cd)pyrene			97.6		%		50-140	23-MAR-22
Naphthalene			79.4		%		50-140	23-MAR-22
Phenanthrene			99.9		%		50-150	23-MAR-22
Pyrene			100.3		%		50-150	23-MAR-22
Quinoline			97.0		%		50-150	23-MAR-22

PCB-TCLP-WT **Waste**



Quality Control Report

Workorder: L2693471

Report Date: 25-MAR-22

Page 6 of 8

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-TCLP-WT		Waste						
Batch	R5749263							
WG3708801-3	DUP	WG3708801-5						
Aroclor 1242		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	23-MAR-22
Aroclor 1248		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	23-MAR-22
Aroclor 1254		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	23-MAR-22
Aroclor 1260		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	23-MAR-22
WG3708801-2	LCS							
Aroclor 1242			103.8		%		65-130	23-MAR-22
Aroclor 1248			111.6		%		65-130	23-MAR-22
Aroclor 1254			102.2		%		65-130	23-MAR-22
Aroclor 1260			97.2		%		65-130	23-MAR-22
WG3708801-1	MB							
Aroclor 1242			<0.00020		mg/L		0.0002	23-MAR-22
Aroclor 1248			<0.00020		mg/L		0.0002	23-MAR-22
Aroclor 1254			<0.00020		mg/L		0.0002	23-MAR-22
Aroclor 1260			<0.00020		mg/L		0.0002	23-MAR-22
Surrogate: Decachlorobiphenyl			121.8		%		50-150	23-MAR-22
Surrogate: Tetrachloro-m-xylene			98.8		%		50-150	23-MAR-22
WG3708801-4	MS	WG3708801-5						
Aroclor 1242			109.0		%		50-150	23-MAR-22
Aroclor 1254			105.6		%		50-150	23-MAR-22
Aroclor 1260			94.1		%		50-150	23-MAR-22
VOC-TCLP-WT		Waste						
Batch	R5749825							
WG3709320-1	LCS							
1,1-Dichloroethylene			99.3		%		70-130	23-MAR-22
1,2-Dichlorobenzene			100.8		%		70-130	23-MAR-22
1,2-Dichloroethane			98.3		%		70-130	23-MAR-22
1,4-Dichlorobenzene			100.6		%		70-130	23-MAR-22
Benzene			96.6		%		70-130	23-MAR-22
Carbon tetrachloride			100.3		%		60-140	23-MAR-22
Chlorobenzene			95.8		%		70-130	23-MAR-22
Chloroform			98.0		%		70-130	23-MAR-22
Dichloromethane			100.9		%		70-130	23-MAR-22
Methyl Ethyl Ketone			94.6		%		50-150	23-MAR-22
Tetrachloroethylene			94.6		%		70-130	23-MAR-22



Quality Control Report

Workorder: L2693471

Report Date: 25-MAR-22

Page 7 of 8

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-TCLP-WT								
	Waste							
Batch	R5749825							
WG3709320-1	LCS							
Trichloroethylene			100.3		%		70-130	23-MAR-22
Vinyl chloride			102.3		%		60-130	23-MAR-22
WG3709320-2	MB							
1,1-Dichloroethylene			<0.025		mg/L		0.025	24-MAR-22
1,2-Dichlorobenzene			<0.025		mg/L		0.025	24-MAR-22
1,2-Dichloroethane			<0.025		mg/L		0.025	24-MAR-22
1,4-Dichlorobenzene			<0.025		mg/L		0.025	24-MAR-22
Benzene			<0.025		mg/L		0.025	24-MAR-22
Carbon tetrachloride			<0.025		mg/L		0.025	24-MAR-22
Chlorobenzene			<0.025		mg/L		0.025	24-MAR-22
Chloroform			<0.10		mg/L		0.1	24-MAR-22
Dichloromethane			<0.50		mg/L		0.5	24-MAR-22
Methyl Ethyl Ketone			<1.0		mg/L		1	24-MAR-22
Tetrachloroethylene			<0.025		mg/L		0.025	24-MAR-22
Trichloroethylene			<0.025		mg/L		0.025	24-MAR-22
Vinyl chloride			<0.050		mg/L		0.05	24-MAR-22
Surrogate: 1,4-Difluorobenzene			99.5		%		70-130	24-MAR-22
Surrogate: 4-Bromofluorobenzene			95.3		%		70-130	24-MAR-22
WG3709320-3	MS	L2693471-1						
1,1-Dichloroethylene			95.6		%		50-140	24-MAR-22
1,2-Dichlorobenzene			100.3		%		50-140	24-MAR-22
1,2-Dichloroethane			97.6		%		50-140	24-MAR-22
1,4-Dichlorobenzene			102.6		%		50-140	24-MAR-22
Benzene			95.4		%		50-140	24-MAR-22
Carbon tetrachloride			98.5		%		50-140	24-MAR-22
Chlorobenzene			95.2		%		50-140	24-MAR-22
Chloroform			97.4		%		50-140	24-MAR-22
Dichloromethane			98.3		%		50-140	24-MAR-22
Methyl Ethyl Ketone			97.8		%		50-140	24-MAR-22
Tetrachloroethylene			91.2		%		50-140	24-MAR-22
Trichloroethylene			99.6		%		50-140	24-MAR-22
Vinyl chloride			96.2		%		50-140	24-MAR-22

Quality Control Report

Workorder: L2693471

Report Date: 25-MAR-22

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

Page 8 of 8

Contact: Nicholas Piers

Legend:

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

Sample Parameter Qualifier Definitions:

Qualifier	Description
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



(11)

Report To Contact and company name below will appear on the final report Company: GROUNDED ENGINEERING Contact: NICHOLAS PIERS Phone: 416-984-5234 Company address below will appear on the final report Street: 1 BANIGAN DR City/Province: TORONTO, ON Postal Code: M4H 1G3		Reports / Recipients Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> EDD (DIGITAL) Merge QC/QCI Reports with COA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: Email 2: Email 3:		Turnaround Time (TAT) Requested <input checked="" type="checkbox"/> Routine (R) if received by 3pm M-F - no surcharges apply <input type="checkbox"/> 4 day (P4) if received by 3pm M-F - 20% rush surcharge minimum <input type="checkbox"/> 3 day (P3) if received by 3pm M-F - 25% rush surcharge minimum <input type="checkbox"/> 2 day (P2) if received by 3pm M-F - 50% rush surcharge minimum <input type="checkbox"/> 1 day (E) if received by 3pm M-F - 100% rush surcharge minimum <input type="checkbox"/> 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. Date and Time Requested for all EAP TATs:		AFFIX ALS BARCODE LABEL HERE (ALS use only)	
Invoice To Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Copy of Invoice with Report <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Invoice Recipients Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: Email 2:		Analysis Request Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below			
Project Information ALS Account # / Quote #: 21-067 Job #: A.P. PO / AFE: LSD: 60 DUNDAS ST E, MISSISSAUGA		Oil and Gas Required Fields (client use) AFE/Cost Center: PO# Major/Minor Code: Routing Code: Requisitioner: Location:		NUMBER OF CONTAINERS MET, VOC, PCB, Benzo-a, Pyrene X X X X X SAMPLES ON HOLD EXTENDED STORAGE REQUIRED SUSPECTED HAZARD (see notes)			
ALS Lab Work Order# (ALS use only): L2693471		ALS Contact: Sampler: ALEXANDER JOHNSON					
ALS Sample # (ALS use only) Sample identification and/or Coordinates (This description will appear on the report) TCLP		Date (dd-mm-yy) 18/MAR/22		Time (hh:mm) Soil		Sample Type	
Drinking Water (DW) Samples (client use) Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input type="checkbox"/> NO Are samples for human consumption use? <input type="checkbox"/> YES <input type="checkbox"/> NO		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only) 0 REG 347, SCHEDULE 4, TCLP SAMPLE MEI, VOC, PCB, BENZO-a, PYRENE		SAMPLE RECEIPT DETAILS (ALS use only) Cooling Method: <input type="checkbox"/> NONE <input type="checkbox"/> ICE <input checked="" type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> YES <input type="checkbox"/> NO Cooler Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A Sample Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A INITIAL COOLER TEMPERATURES (°C): 11.0 12.2 6.3 FINAL COOLER TEMPERATURES (°C):			
SHIPMENT RELEASE (client use) Released by: Alexander Johnson Date: 18 MAR 22 Time: 16:30		INITIAL SHIPMENT RECEPTION (ALS use only) Received by: HK Date: 03/18/22 Time: 16:45		FINAL SHIPMENT RECEPTION (ALS use only) Received by: EC Date: 03/21/22 Time: 10:30			



Your Project #: 21-067-202
Your C.O.C. #: 878870-01-01

Attention: Vivi Tran

Grounded Engineering Inc.
1 Banigan Drive
Toronto, ON
CANADA M4H 1G3

Report Date: 2022/05/19
Report #: R7131937
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2D1015

Received: 2022/05/13, 18:20

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Methylnaphthalene Sum	2	N/A	2022/05/18	CAM SOP-00301	EPA 8270D m
Chromium (VI) in Water	4	N/A	2022/05/17	CAM SOP-00436	EPA 7199 m
Mercury	4	2022/05/17	2022/05/17	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	4	N/A	2022/05/17	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	2	2022/05/17	2022/05/18	CAM SOP-00318	EPA 8270D m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your Project #: 21-067-202
Your C.O.C. #: 878870-01-01

Attention: Vivi Tran

Grounded Engineering Inc.
1 Banigan Drive
Toronto, ON
CANADA M4H 1G3

Report Date: 2022/05/19
Report #: R7131937
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2D1015

Received: 2022/05/13, 18:20

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Marijane Cruz, Senior Project Manager
Email: Marijane.Cruz@bureauveritas.com
Phone# (905)817-5756

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C2D1015
Report Date: 2022/05/19

Grounded Engineering Inc.
Client Project #: 21-067-202
Sampler Initials: VT

O.REG 153 METALS PACKAGE (WATER)

Bureau Veritas ID			SPX721		SPX722		SPX723		SPX726		
Sampling Date			2022/05/13 17:15		2022/05/13 14:00		2022/05/13 13:00		2022/05/13		
	UNITS	Criteria	BH202	RDL	BH203	RDL	BH205	RDL	DUP - 2	RDL	QC Batch

Metals											
Chromium (VI)	ug/L	25	<0.50	0.50	<5.0	5.0	<2.5	2.5	<0.50	0.50	7999195
Mercury (Hg)	ug/L	0.29	<0.10	0.10	<0.10	0.10	<0.10	0.10	<0.10	0.10	7999035
Dissolved Antimony (Sb)	ug/L	6.0	<0.50	0.50	<25 (1)	25	<5.0	5.0	<0.50	0.50	7996175
Dissolved Arsenic (As)	ug/L	25	<1.0	1.0	<50 (1)	50	<10	10	<1.0	1.0	7996175
Dissolved Barium (Ba)	ug/L	1000	350	2.0	390	100	280	20	360	2.0	7996175
Dissolved Beryllium (Be)	ug/L	4.0	<0.40	0.40	<20 (1)	20	<4.0	4.0	<0.40	0.40	7996175
Dissolved Boron (B)	ug/L	5000	540	10	1900	500	2100	100	570	10	7996175
Dissolved Cadmium (Cd)	ug/L	2.1	0.090	0.090	<4.5 (1)	4.5	<0.90	0.90	<0.090	0.090	7996175
Dissolved Chromium (Cr)	ug/L	50	<5.0	5.0	<250 (1)	250	<50	50	<5.0	5.0	7996175
Dissolved Cobalt (Co)	ug/L	3.8	7.5	0.50	<25 (1)	25	4.0	0.50	7.5	0.50	7996175
Dissolved Copper (Cu)	ug/L	69	1.8	0.90	<45	45	<9.0	9.0	1.6	0.90	7996175
Dissolved Lead (Pb)	ug/L	10	<0.50	0.50	<25 (1)	25	<5.0	5.0	<0.50	0.50	7996175
Dissolved Molybdenum (Mo)	ug/L	70	8.7	0.50	<25	25	<5.0	5.0	8.8	0.50	7996175
Dissolved Nickel (Ni)	ug/L	100	9.9	1.0	<50	50	<10	10	10	1.0	7996175
Dissolved Selenium (Se)	ug/L	10	<2.0	2.0	<100 (1)	100	<2.0	2.0	<2.0	2.0	7996175
Dissolved Silver (Ag)	ug/L	1.2	<0.090	0.090	<4.5 (1)	4.5	<0.90	0.90	<0.090	0.090	7996175
Dissolved Sodium (Na)	ug/L	490000	2100000	500	2000000	5000	6300000	5000	2100000	500	7996175
Dissolved Thallium (Tl)	ug/L	2.0	<0.050	0.050	<2.5 (1)	2.5	<0.50	0.50	<0.050	0.050	7996175
Dissolved Uranium (U)	ug/L	20	4.2	0.10	<5.0	5.0	18	1.0	4.2	0.10	7996175
Dissolved Vanadium (V)	ug/L	6.2	<0.50	0.50	<25 (1)	25	<5.0	5.0	<0.50	0.50	7996175
Dissolved Zinc (Zn)	ug/L	890	9.1	5.0	<250	250	<50	50	11	5.0	7996175

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels
RDL = Reportable Detection Limit	
QC Batch = Quality Control Batch	
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)	
Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition	
Ground Water - All Types of Property Use	
(1) RDL exceeds criteria	

**O.REG 153 PAHS (WATER)**

Bureau Veritas ID			SPX724	SPX725		
Sampling Date			2022/05/13 16:45	2022/05/13		
	UNITS	Criteria	BH103	DUP - 1	RDL	QC Batch
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/L	3.2	<0.071	<0.071	0.071	7996341
Polyaromatic Hydrocarbons						
Acenaphthene	ug/L	4.1	<0.050	<0.050	0.050	8000770
Acenaphthylene	ug/L	1	<0.050	<0.050	0.050	8000770
Anthracene	ug/L	1	<0.050	<0.050	0.050	8000770
Benzo(a)anthracene	ug/L	1.0	<0.050	<0.050	0.050	8000770
Benzo(a)pyrene	ug/L	0.01	0.0096	0.010	0.0090	8000770
Benzo(b/j)fluoranthene	ug/L	0.1	<0.050	<0.050	0.050	8000770
Benzo(g,h,i)perylene	ug/L	0.2	<0.050	<0.050	0.050	8000770
Benzo(k)fluoranthene	ug/L	0.1	<0.050	<0.050	0.050	8000770
Chrysene	ug/L	0.1	<0.050	<0.050	0.050	8000770
Dibenzo(a,h)anthracene	ug/L	0.2	<0.050	<0.050	0.050	8000770
Fluoranthene	ug/L	0.41	<0.050	<0.050	0.050	8000770
Fluorene	ug/L	120	<0.050	<0.050	0.050	8000770
Indeno(1,2,3-cd)pyrene	ug/L	0.2	<0.050	<0.050	0.050	8000770
1-Methylnaphthalene	ug/L	3.2	<0.050	<0.050	0.050	8000770
2-Methylnaphthalene	ug/L	3.2	<0.050	<0.050	0.050	8000770
Naphthalene	ug/L	11	<0.050	<0.050	0.050	8000770
Phenanthrene	ug/L	1	0.040	0.043	0.030	8000770
Pyrene	ug/L	4.1	<0.050	<0.050	0.050	8000770
Surrogate Recovery (%)						
D10-Anthracene	%	-	86	81		8000770
D14-Terphenyl (FS)	%	-	33 (1)	32 (1)		8000770
D8-Acenaphthylene	%	-	90	91		8000770
No Fill	No Exceedance					
Grey	Exceeds 1 criteria policy/level					
Black	Exceeds both criteria/levels					
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)						
Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition						
Ground Water - All Types of Property Use						
(1) Surrogate recovery was below the lower control limit due to matrix interference. This may represent a lower bias in some results.						



BUREAU
VERITAS

Bureau Veritas Job #: C2D1015
Report Date: 2022/05/19

Grounded Engineering Inc.
Client Project #: 21-067-202
Sampler Initials: VT

TEST SUMMARY

Bureau Veritas ID: SPX721
Sample ID: BH202
Matrix: Water

Collected: 2022/05/13
Shipped:
Received: 2022/05/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	7999195	N/A	2022/05/17	Theodora LI
Mercury	CV/AA	7999035	2022/05/17	2022/05/17	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	7996175	N/A	2022/05/17	Arefa Dabhad

Bureau Veritas ID: SPX722
Sample ID: BH203
Matrix: Water

Collected: 2022/05/13
Shipped:
Received: 2022/05/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	7999195	N/A	2022/05/17	Theodora LI
Mercury	CV/AA	7999035	2022/05/17	2022/05/17	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	7996175	N/A	2022/05/17	Arefa Dabhad

Bureau Veritas ID: SPX723
Sample ID: BH205
Matrix: Water

Collected: 2022/05/13
Shipped:
Received: 2022/05/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	7999195	N/A	2022/05/17	Theodora LI
Mercury	CV/AA	7999035	2022/05/17	2022/05/17	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	7996175	N/A	2022/05/17	Arefa Dabhad

Bureau Veritas ID: SPX724
Sample ID: BH103
Matrix: Water

Collected: 2022/05/13
Shipped:
Received: 2022/05/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7996341	N/A	2022/05/18	Automated Statchk
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8000770	2022/05/17	2022/05/18	Mitesh Raj

Bureau Veritas ID: SPX725
Sample ID: DUP - 1
Matrix: Water

Collected: 2022/05/13
Shipped:
Received: 2022/05/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7996341	N/A	2022/05/18	Automated Statchk
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8000770	2022/05/17	2022/05/18	Mitesh Raj

Bureau Veritas ID: SPX726
Sample ID: DUP - 2
Matrix: Water

Collected: 2022/05/13
Shipped:
Received: 2022/05/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	7999195	N/A	2022/05/17	Theodora LI
Mercury	CV/AA	7999035	2022/05/17	2022/05/17	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	7996175	N/A	2022/05/17	Arefa Dabhad



BUREAU
VERITAS

Bureau Veritas Job #: C2D1015
Report Date: 2022/05/19

Grounded Engineering Inc.
Client Project #: 21-067-202
Sampler Initials: VT

GENERAL COMMENTS

Revised Report (2022/05/19) : Detection limits for Selenium and Silver for BH205 amended.

Sample SPX722 [BH203] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.
Hexavalent Chromium: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample SPX723 [BH205] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.
Hexavalent Chromium: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C2D1015

Report Date: 2022/05/19

QUALITY ASSURANCE REPORT

Grounded Engineering Inc.

Client Project #: 21-067-202

Sampler Initials: VT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8000770	D10-Anthracene	2022/05/18	100	50 - 130	97	50 - 130	92	%		
8000770	D14-Terphenyl (FS)	2022/05/18	92	50 - 130	87	50 - 130	81	%		
8000770	D8-Acenaphthylene	2022/05/18	98	50 - 130	94	50 - 130	92	%		
7996175	Dissolved Antimony (Sb)	2022/05/17	110	80 - 120	106	80 - 120	<0.50	ug/L		
7996175	Dissolved Arsenic (As)	2022/05/17	104	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
7996175	Dissolved Barium (Ba)	2022/05/17	105	80 - 120	101	80 - 120	<2.0	ug/L	0.37	20
7996175	Dissolved Beryllium (Be)	2022/05/17	105	80 - 120	102	80 - 120	<0.40	ug/L		
7996175	Dissolved Boron (B)	2022/05/17	97	80 - 120	97	80 - 120	<10	ug/L	3.9	20
7996175	Dissolved Cadmium (Cd)	2022/05/17	105	80 - 120	106	80 - 120	<0.090	ug/L	NC	20
7996175	Dissolved Chromium (Cr)	2022/05/17	98	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
7996175	Dissolved Cobalt (Co)	2022/05/17	100	80 - 120	98	80 - 120	<0.50	ug/L		
7996175	Dissolved Copper (Cu)	2022/05/17	107	80 - 120	107	80 - 120	<0.90	ug/L	1.7	20
7996175	Dissolved Lead (Pb)	2022/05/17	99	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
7996175	Dissolved Molybdenum (Mo)	2022/05/17	109	80 - 120	106	80 - 120	<0.50	ug/L		
7996175	Dissolved Nickel (Ni)	2022/05/17	95	80 - 120	94	80 - 120	<1.0	ug/L	3.8	20
7996175	Dissolved Selenium (Se)	2022/05/17	103	80 - 120	102	80 - 120	<2.0	ug/L	NC	20
7996175	Dissolved Silver (Ag)	2022/05/17	96	80 - 120	102	80 - 120	<0.090	ug/L	NC	20
7996175	Dissolved Sodium (Na)	2022/05/17	NC	80 - 120	96	80 - 120	<100	ug/L	3.2	20
7996175	Dissolved Thallium (Tl)	2022/05/17	102	80 - 120	101	80 - 120	<0.050	ug/L		
7996175	Dissolved Uranium (U)	2022/05/17	101	80 - 120	94	80 - 120	<0.10	ug/L		
7996175	Dissolved Vanadium (V)	2022/05/17	98	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
7996175	Dissolved Zinc (Zn)	2022/05/17	99	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
7999035	Mercury (Hg)	2022/05/17	91	75 - 125	95	80 - 120	<0.10	ug/L	NC	20
7999195	Chromium (VI)	2022/05/17	96	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
8000770	1-Methylnaphthalene	2022/05/18	96	50 - 130	89	50 - 130	<0.050	ug/L	NC	30
8000770	2-Methylnaphthalene	2022/05/18	93	50 - 130	86	50 - 130	<0.050	ug/L	NC	30
8000770	Acenaphthene	2022/05/18	92	50 - 130	85	50 - 130	<0.050	ug/L	NC	30
8000770	Acenaphthylene	2022/05/18	89	50 - 130	85	50 - 130	<0.050	ug/L	NC	30
8000770	Anthracene	2022/05/18	95	50 - 130	89	50 - 130	<0.050	ug/L	NC	30
8000770	Benzo(a)anthracene	2022/05/18	103	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8000770	Benzo(a)pyrene	2022/05/18	88	50 - 130	83	50 - 130	<0.0090	ug/L	NC	30



BUREAU
VERITAS

Bureau Veritas Job #: C2D1015

Report Date: 2022/05/19

QUALITY ASSURANCE REPORT(CONT'D)

Grounded Engineering Inc.

Client Project #: 21-067-202

Sampler Initials: VT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8000770	Benzo(b/j)fluoranthene	2022/05/18	96	50 - 130	87	50 - 130	<0.050	ug/L	NC	30
8000770	Benzo(g,h,i)perylene	2022/05/18	98	50 - 130	88	50 - 130	<0.050	ug/L	NC	30
8000770	Benzo(k)fluoranthene	2022/05/18	95	50 - 130	91	50 - 130	<0.050	ug/L	NC	30
8000770	Chrysene	2022/05/18	101	50 - 130	94	50 - 130	<0.050	ug/L	NC	30
8000770	Dibenzo(a,h)anthracene	2022/05/18	91	50 - 130	86	50 - 130	<0.050	ug/L	NC	30
8000770	Fluoranthene	2022/05/18	101	50 - 130	94	50 - 130	<0.050	ug/L	NC	30
8000770	Fluorene	2022/05/18	95	50 - 130	87	50 - 130	<0.050	ug/L	NC	30
8000770	Indeno(1,2,3-cd)pyrene	2022/05/18	98	50 - 130	89	50 - 130	<0.050	ug/L	NC	30
8000770	Naphthalene	2022/05/18	87	50 - 130	80	50 - 130	<0.050	ug/L	NC	30
8000770	Phenanthrene	2022/05/18	97	50 - 130	91	50 - 130	<0.030	ug/L	NC	30
8000770	Pyrene	2022/05/18	101	50 - 130	93	50 - 130	<0.050	ug/L	NC	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

Bureau Veritas Job #: C2D1015
Report Date: 2022/05/19

Grounded Engineering Inc.
Client Project #: 21-067-202
Sampler Initials: VT

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name: #36876 Grounded Engineering Inc.	Company Name: Vivi Tran	Quotation #: C20582			
Attention: Vivi Tran	Attention: Vivi Tran	P.O. #:			
Address: 1 Banigan Drive	Address:	Project: 21-067-202			
Toronto ON M4H 1G3		Project Name:			
Tel: (647) 264-7909	Tel:	Site #:			
Fax:	Fax:	Sampled By:			
Email: vtran@groundedeng.ca	Email: vtran@groundedeng.ca				

13-May-22 18:20
 Marijane Cruz

 C2D1015
 IGM ENV-1621

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011) <input type="checkbox"/> Table 1 <input type="checkbox"/> Table 2 <input type="checkbox"/> Table 3 <input checked="" type="checkbox"/> Table 4	<input checked="" type="checkbox"/> Res/Park <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Agri/Other	<input checked="" type="checkbox"/> Medium/Fine <input checked="" type="checkbox"/> For RSC	Other Regulations <input type="checkbox"/> CCME <input type="checkbox"/> Reg 558 <input type="checkbox"/> MISA <input type="checkbox"/> PWQO <input type="checkbox"/> Other	<input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> Municipality <input type="checkbox"/> Reg 406 Table	Special Instructions
---	--	--	---	--	-----------------------------

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Field Filtered (Please circle): Metals / Hg / Cr / V	O Reg 153 PAHs	O Reg 153 Metals Package (Water)																		

Regular (Standard) TAT:
 (will be applied if Rush TAT is not specified):
 Standard TAT = 5-7 Working days for most tests.
 Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
 Date Required: _____ Time Required: _____
 Rush Confirmation Number: _____ (call lab for #)

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (Please circle): Metals / Hg / Cr / V	O Reg 153 PAHs	O Reg 153 Metals Package (Water)														
BH202		2022/05/13	17:15	6W	Y		X														3
BH203			14:00		↓		X														3
BH205			13:00		↓		X														3
BH103			16:45			X															2
DVP-1			14:55			X															2
DVP-2					Y		X														3

* RELINQUISHED BY: (Signature/Print) Vivi Tran	Date: (YY/MM/DD) 22/05/13	Time 18:20	RECEIVED BY: (Signature/Print) Nihal Patel	Date: (YY/MM/DD) 2022/05/13	Time 18:20	# jars used and not submitted	Laboratory Use Only				
							Time Sensitive	Temperature (°C) on Receptacle 10/7/11	Custody Seal Present	Yes	No
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client
ON ICE



BUREAU
VERITAS

Bureau Veritas Job #: C2D1015

Report Date: 2022/05/19

Grounded Engineering Inc.

Client Project #: 21-067-202

Sampler Initials: VT

Exceedance Summary Table – Reg153/04 T8-GW

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
BH202	SPX721-01	Dissolved Cobalt (Co)	3.8	7.5	0.50	ug/L
BH202	SPX721-01	Dissolved Sodium (Na)	490000	2100000	500	ug/L
BH203	SPX722-01	Dissolved Sodium (Na)	490000	20000000	5000	ug/L
BH205	SPX723-01	Dissolved Cobalt (Co)	3.8	4.0	0.50	ug/L
BH205	SPX723-01	Dissolved Sodium (Na)	490000	6300000	5000	ug/L
DUP - 2	SPX726-01	Dissolved Cobalt (Co)	3.8	7.5	0.50	ug/L
DUP - 2	SPX726-01	Dissolved Sodium (Na)	490000	2100000	500	ug/L

Detection Limit Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
BH203	SPX722-01	Dissolved Antimony (Sb)	6.0	<25	25	ug/L
BH203	SPX722-01	Dissolved Arsenic (As)	25	<50	50	ug/L
BH203	SPX722-01	Dissolved Beryllium (Be)	4.0	<20	20	ug/L
BH203	SPX722-01	Dissolved Cadmium (Cd)	2.1	<4.5	4.5	ug/L
BH203	SPX722-01	Dissolved Chromium (Cr)	50	<250	250	ug/L
BH203	SPX722-01	Dissolved Cobalt (Co)	3.8	<25	25	ug/L
BH203	SPX722-01	Dissolved Lead (Pb)	10	<25	25	ug/L
BH203	SPX722-01	Dissolved Selenium (Se)	10	<100	100	ug/L
BH203	SPX722-01	Dissolved Silver (Ag)	1.2	<4.5	4.5	ug/L
BH203	SPX722-01	Dissolved Thallium (Tl)	2.0	<2.5	2.5	ug/L
BH203	SPX722-01	Dissolved Vanadium (V)	6.2	<25	25	ug/L

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.



Your Project #: 21-067-202
 Site Location: 60 DUNDAS ST E, MISSISSAUGA
 Your C.O.C. #: 897806-01-01

Attention: Sean Morris

Grounded Engineering Inc.
 1 Banigan Drive
 Toronto, ON
 CANADA M4H 1G3

Report Date: 2022/09/30
 Report #: R7323688
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2R8241

Received: 2022/09/26, 15:07

Sample Matrix: Water
 # Samples Received: 3

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2022/09/28	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2022/09/29	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	2	2022/09/29	2022/09/30	CAM SOP-00316	CCME PHC-CWS m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.



Your Project #: 21-067-202
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Your C.O.C. #: 897806-01-01

Attention: Sean Morris

Grounded Engineering Inc.
1 Banigan Drive
Toronto, ON
CANADA M4H 1G3

Report Date: 2022/09/30
Report #: R7323688
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2R8241

Received: 2022/09/26, 15:07

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Marijane Cruz, Senior Project Manager
Email: Marijane.Cruz@bureauveritas.com
Phone# (905)817-5756

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C2R8241
Report Date: 2022/09/30

Grounded Engineering Inc.
Client Project #: 21-067-202
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: LR

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID			TVN747			
Sampling Date			2022/09/26 11:00			
COC Number			897806-01-01			
	UNITS	Criteria	TRIP BLANK	RDL	MDL	QC Batch
BTEX & F1 Hydrocarbons						
Benzene	ug/L	44	<0.20	0.20	0.040	8253587
Toluene	ug/L	14000	<0.20	0.20	0.040	8253587
Ethylbenzene	ug/L	1800	<0.20	0.20	0.040	8253587
o-Xylene	ug/L	-	<0.20	0.20	0.040	8253587
p+m-Xylene	ug/L	-	<0.40	0.40	0.080	8253587
Total Xylenes	ug/L	3300	<0.40	0.40	0.080	8253587
F1 (C6-C10)	ug/L	420	<25	25	20	8253587
F1 (C6-C10) - BTEX	ug/L	420	<25	25	20	8253587
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	-	97			8253587
4-Bromofluorobenzene	%	-	94			8253587
D10-o-Xylene	%	-	97			8253587
D4-1,2-Dichloroethane	%	-	90			8253587
No Fill	No Exceedance					
Grey	Exceeds 1 criteria policy/level					
Black	Exceeds both criteria/levels					
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)						
Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Groundwater Condition						
Ground Water - All Types of Property Use						



BUREAU
VERITAS

Bureau Veritas Job #: C2R8241
Report Date: 2022/09/30

Grounded Engineering Inc.
Client Project #: 21-067-202
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: LR

O.REG 153 PHCS, BTEX/F1-F4 (WATER)

Bureau Veritas ID			TVN745	TVN746				TVN746			
Sampling Date			2022/09/26 11:00	2022/09/26 11:00				2022/09/26 11:00			
COC Number			897806-01-01	897806-01-01				897806-01-01			
	UNITS	Criteria	BH207	DUP	RDL	MDL	QC Batch	DUP Lab-Dup	RDL	MDL	QC Batch
BTEX & F1 Hydrocarbons											
Benzene	ug/L	44	<0.20	<0.20	0.20	0.040	8253587				
Toluene	ug/L	14000	<0.20	<0.20	0.20	0.040	8253587				
Ethylbenzene	ug/L	1800	<0.20	<0.20	0.20	0.040	8253587				
o-Xylene	ug/L	-	<0.20	<0.20	0.20	0.040	8253587				
p+m-Xylene	ug/L	-	<0.40	<0.40	0.40	0.080	8253587				
Total Xylenes	ug/L	3300	<0.40	<0.40	0.40	0.080	8253587				
F1 (C6-C10)	ug/L	420	<25	<25	25	20	8253587				
F1 (C6-C10) - BTEX	ug/L	420	<25	<25	25	20	8253587				
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/L	150	<100	<100	100	50	8256612	<100	100	50	8256612
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	<200	200	70	8256612	<200	200	70	8256612
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	<200	200	50	8256612	<200	200	50	8256612
Reached Baseline at C50	ug/L	-	Yes	Yes			8256612	Yes			8256612
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	-	97	97			8253587				
4-Bromofluorobenzene	%	-	90	90			8253587				
D10-o-Xylene	%	-	94	96			8253587				
D4-1,2-Dichloroethane	%	-	87	87			8253587				
o-Terphenyl	%	-	102	106			8256612	104			8256612
No Fill	No Exceedance										
Grey	Exceeds 1 criteria policy/level										
Black	Exceeds both criteria/levels										
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
Lab-Dup = Laboratory Initiated Duplicate											
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)											
Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Groundwater Condition											
Ground Water - All Types of Property Use											



BUREAU
VERITAS

Bureau Veritas Job #: C2R8241
Report Date: 2022/09/30

Grounded Engineering Inc.
Client Project #: 21-067-202
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: LR

TEST SUMMARY

Bureau Veritas ID: TVN745
Sample ID: BH207
Matrix: Water

Collected: 2022/09/26
Shipped:
Received: 2022/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8253587	N/A	2022/09/29	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8256612	2022/09/29	2022/09/30	Anna Stuglik-Rolland

Bureau Veritas ID: TVN746
Sample ID: DUP
Matrix: Water

Collected: 2022/09/26
Shipped:
Received: 2022/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8253587	N/A	2022/09/29	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8256612	2022/09/29	2022/09/30	Anna Stuglik-Rolland

Bureau Veritas ID: TVN746 Dup
Sample ID: DUP
Matrix: Water

Collected: 2022/09/26
Shipped:
Received: 2022/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8256612	2022/09/29	2022/09/30	Anna Stuglik-Rolland

Bureau Veritas ID: TVN747
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2022/09/26
Shipped:
Received: 2022/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8253587	N/A	2022/09/28	Georgeta Rusu



**BUREAU
VERITAS**

Bureau Veritas Job #: C2R8241
Report Date: 2022/09/30

Grounded Engineering Inc.
Client Project #: 21-067-202
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: LR

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C2R8241

Report Date: 2022/09/30

QUALITY ASSURANCE REPORT

Grounded Engineering Inc.

Client Project #: 21-067-202

Site Location: 60 DUNDAS ST E, MISSISSAUGA

Sampler Initials: LR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8253587	1,4-Difluorobenzene	2022/09/28	95	70 - 130	97	70 - 130	98	%		
8253587	4-Bromofluorobenzene	2022/09/28	93	70 - 130	94	70 - 130	95	%		
8253587	D10-o-Xylene	2022/09/28	106	70 - 130	112	70 - 130	105	%		
8253587	D4-1,2-Dichloroethane	2022/09/28	88	70 - 130	85	70 - 130	85	%		
8256612	o-Terphenyl	2022/09/30	109	60 - 130	105	60 - 130	108	%		
8253587	Benzene	2022/09/28	82	50 - 140	85	50 - 140	<0.20	ug/L	NC	30
8253587	Ethylbenzene	2022/09/28	91	50 - 140	96	50 - 140	<0.20	ug/L	5.3	30
8253587	F1 (C6-C10) - BTEX	2022/09/28					<25	ug/L	4.1	30
8253587	F1 (C6-C10)	2022/09/28	100	60 - 140	104	60 - 140	<25	ug/L	4.1	30
8253587	o-Xylene	2022/09/28	88	50 - 140	93	50 - 140	<0.20	ug/L	3.1	30
8253587	p+m-Xylene	2022/09/28	89	50 - 140	94	50 - 140	<0.40	ug/L	4.0	30
8253587	Toluene	2022/09/28	86	50 - 140	90	50 - 140	<0.20	ug/L	NC	30
8253587	Total Xylenes	2022/09/28					<0.40	ug/L	3.6	30
8256612	F2 (C10-C16 Hydrocarbons)	2022/09/30	99	60 - 130	109	60 - 130	<100	ug/L	NC	30
8256612	F3 (C16-C34 Hydrocarbons)	2022/09/30	98	60 - 130	101	60 - 130	<200	ug/L	NC	30
8256612	F4 (C34-C50 Hydrocarbons)	2022/09/30	98	60 - 130	92	60 - 130	<200	ug/L	NC	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).





BUREAU
VERITAS

Bureau Veritas Job #: C2R8241
Report Date: 2022/09/30

Grounded Engineering Inc.
Client Project #: 21-067-202
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: LR

VALIDATION SIGNATURE PAGE

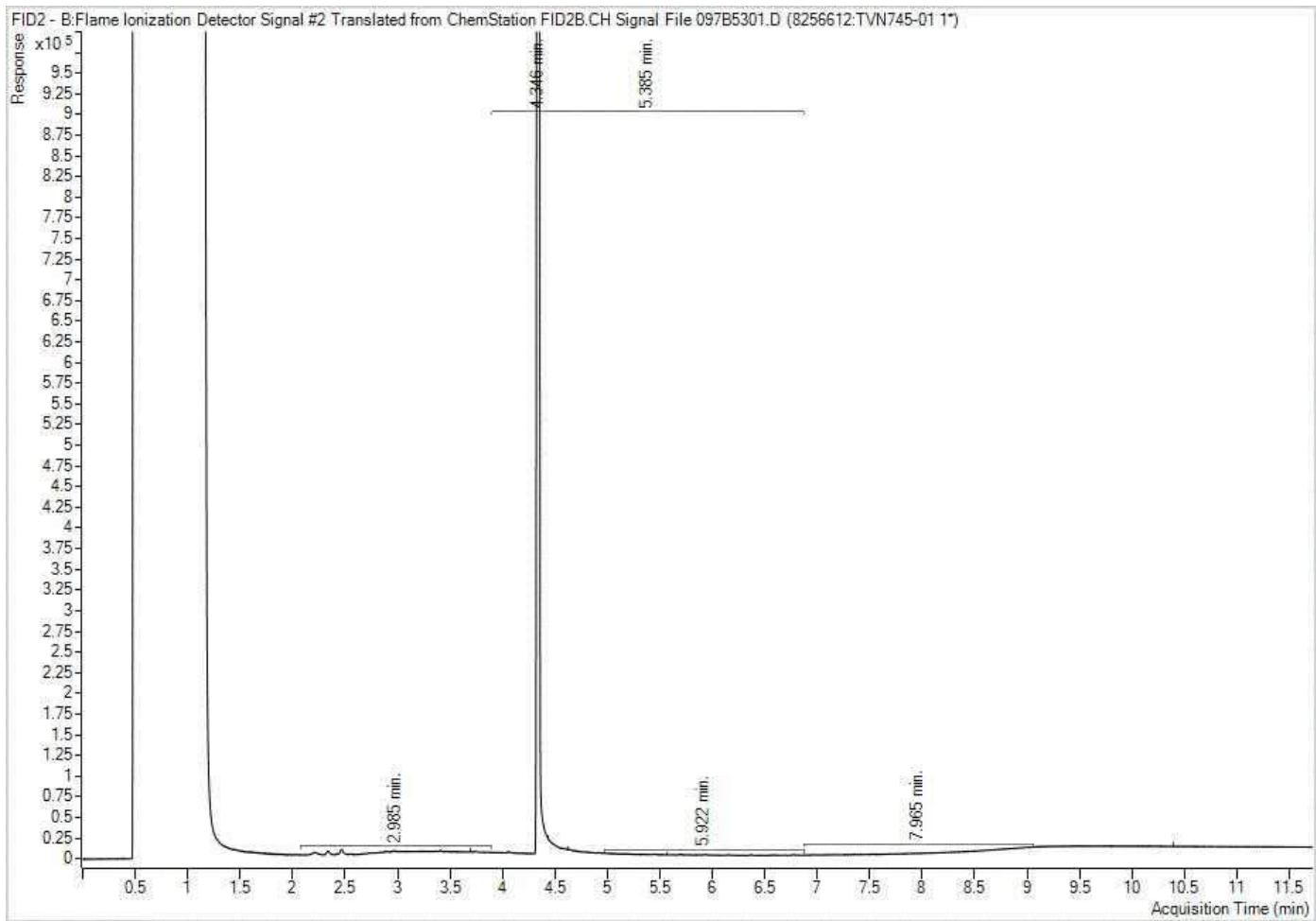
The analytical data and all QC contained in this report were reviewed and validated by:

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

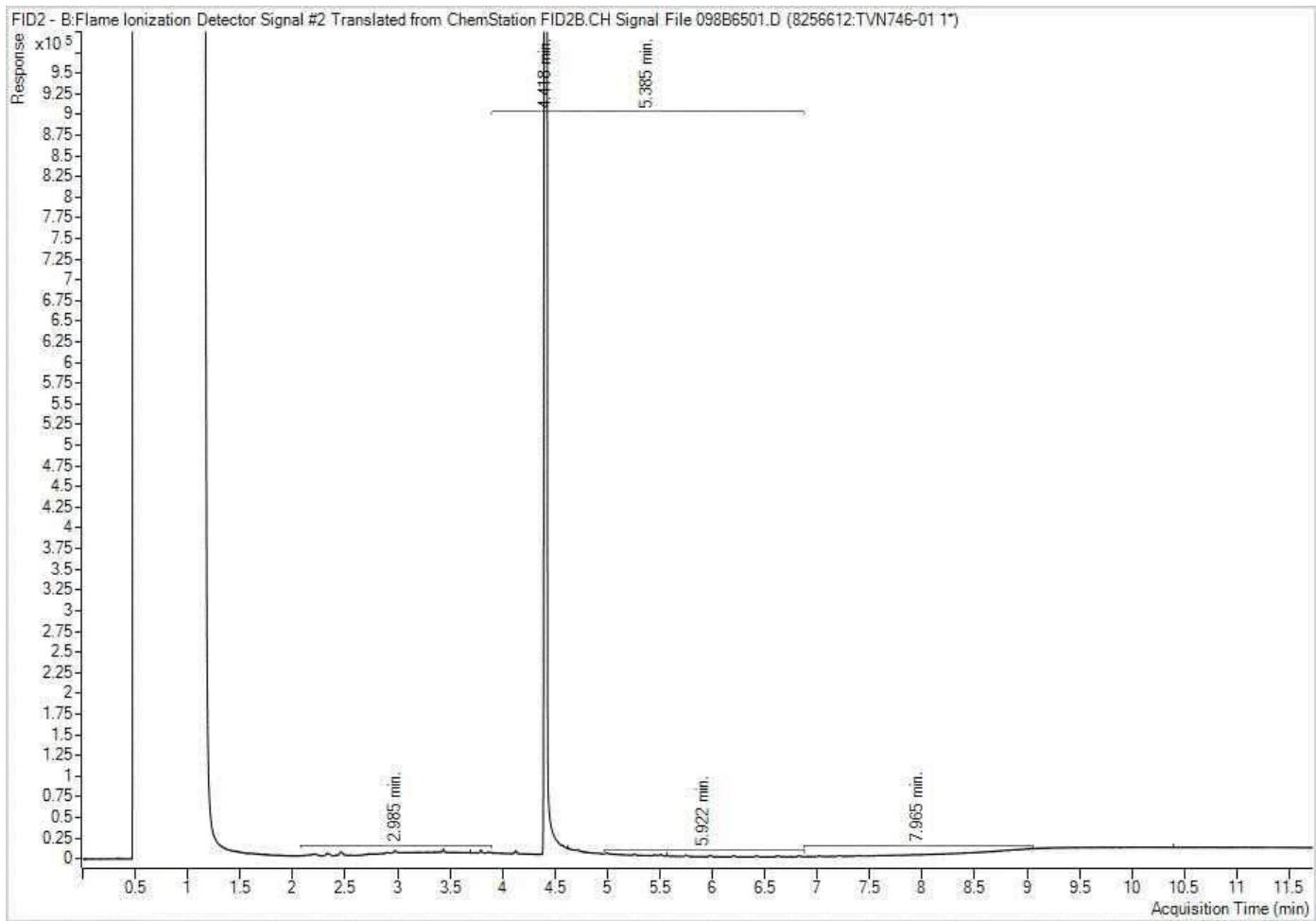
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



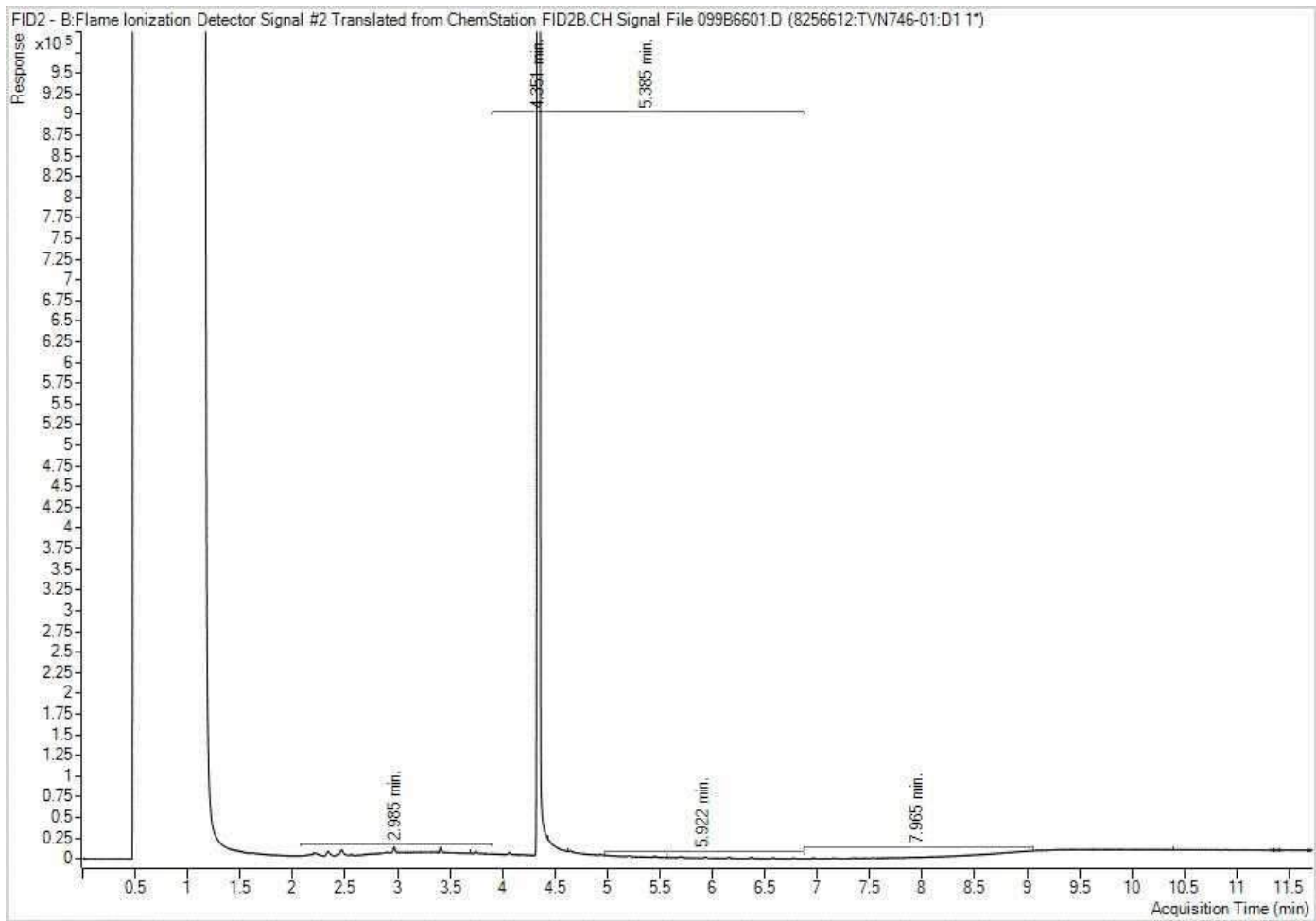
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



**BUREAU
VERITAS**

Bureau Veritas Job #: C2R8241
Report Date: 2022/09/30

Grounded Engineering Inc.
Client Project #: 21-067-202
Site Location: 60 DUNDAS ST E, MISSISSAUGA
Sampler Initials: LR

Exceedance Summary Table – Reg153/04 T9-GW
Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
No Exceedances						
The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Grounded Engineering Inc
ATTN: Nicholas Piers
1 Banigan Drive
TORONTO ON M4H 1G3

Date Received: 25-MAR-22
Report Date: 04-APR-22 10:19 (MT)
Version: FINAL

Client Phone: 647-264-7932

Certificate of Analysis

Lab Work Order #: L2694751
Project P.O. #: NOT SUBMITTED
Job Reference: 21-067
C of C Numbers:
Legal Site Desc: 60 DUNDAS ST. E.

Amanda Overholster
Account Manager

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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

Summary of Guideline Exceedances

Guideline		Client ID	Grouping	Analyte	Result	Guideline Limit	Unit
ALS ID							
Ontario Regulation 153/04 - April 15, 2011 Standards - T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)							
L2694751-1		BH201	Volatile Organic Compounds	Chloroform	4.6	2.4	ug/L
L2694751-2		BH202	Anions and Nutrients	Chloride (Cl)	4830	2300	mg/L
L2694751-3		BH203	Anions and Nutrients	Chloride (Cl)	35800	2300	mg/L
			Dissolved Metals	Sodium (Na)-Dissolved	12400000	2300000	ug/L
			Volatile Organic Compounds	Chloroform	3.5	2.4	ug/L
L2694751-5		BH205	Anions and Nutrients	Chloride (Cl)	12100	2300	mg/L
			Dissolved Metals	Sodium (Na)-Dissolved	5400000	2300000	ug/L
			Volatile Organic Compounds	Chloroform	2.6	2.4	ug/L
L2694751-9		BH102	Anions and Nutrients	Chloride (Cl)	3280	2300	mg/L
L2694751-10		BH103	Anions and Nutrients	Chloride (Cl)	2680	2300	mg/L

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

Physical Tests - WATER

Lab ID	L2694751-10	L2694751-11
Sample Date	24-MAR-22	23-MAR-22
Sample ID	BH103	DUP 1

Guide Limits

Analyte	Unit	Guide Limits			
		#1	#2		
Conductivity	mS/cm	-	-	7.68	1.64
pH	pH units	-	-	7.58 ^{PEHT}	7.95 ^{PEHT}

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Anions and Nutrients - WATER

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID																					
		#1	#2																																							
Chloride (Cl)	mg/L	2300	-	L2694751-1	24-MAR-22	BH201	L2694751-2	24-MAR-22	BH202	L2694751-3	22-MAR-22	BH203	L2694751-4	23-MAR-22	BH204	L2694751-5	23-MAR-22	BH205	L2694751-6	23-MAR-22	BH206	L2694751-7	23-MAR-22	BH207	L2694751-8	24-MAR-22	BH101	L2694751-9	24-MAR-22	BH102												
				874	DLDS		4830	DLDS		35800	DLDS		829	DLDS		12100	DLDS		312	DLDS		551	DLDS		1230	DLDS		3280	DLDS													

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Anions and Nutrients - WATER

		Lab ID	L2694751-10	L2694751-11
		Sample Date	24-MAR-22	23-MAR-22
		Sample ID	BH103	DUP 1
		Guide Limits		
Analyte	Unit	#1	#2	
Chloride (Cl)	mg/L	2300	-	2680 ^{DLDS}
				290 ^{DLDS}

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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 - WATER

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID	
		#1	#2																			
Cyanide, Weak Acid Diss	ug/L	66	-																			

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Cyanides - WATER

Lab ID	L2694751-10	L2694751-11
Sample Date	24-MAR-22	23-MAR-22
Sample ID	BH103	DUP 1

Analyte	Unit	Guide Limits			
		#1	#2	#3	#4
Cyanide, Weak Acid Diss	ug/L	66	-	<2.0	<2.0

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Dissolved Metals - WATER

Analyte	Unit	Guide Limits		Lab ID	L2694751-1	L2694751-2	L2694751-3	L2694751-4	L2694751-5	L2694751-6	L2694751-7	L2694751-8	L2694751-9
		#1	#2	Sample Date	24-MAR-22	24-MAR-22	22-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	24-MAR-22
				Sample ID	BH201	BH202	BH203	BH204	BH205	BH206	BH207	BH101	BH102
Dissolved Mercury Filtration Location	-	-	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD
Dissolved Metals Filtration Location	-	-	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD
Antimony (Sb)-Dissolved	ug/L	20000	-	1.7 ^{DLHC}	<1.0 ^{DLHC}	<10 ^{DLHC}	1.1 ^{DLHC}	<10 ^{DLHC}	<1.0 ^{DLHC}	<1.0 ^{DLHC}	<1.0 ^{DLHC}	<1.0 ^{DLHC}	<1.0 ^{DLHC}
Arsenic (As)-Dissolved	ug/L	1900	-	1.9 ^{DLHC}	<1.0 ^{DLHC}	<10 ^{DLHC}	<1.0 ^{DLHC}	<10 ^{DLHC}	2.3 ^{DLHC}	<1.0 ^{DLHC}	<1.0 ^{DLHC}	<1.0 ^{DLHC}	1.6 ^{DLHC}
Barium (Ba)-Dissolved	ug/L	29000	-	21.7 ^{DLHC}	662 ^{DLHC}	656 ^{DLHC}	236 ^{DLHC}	405 ^{DLHC}	171 ^{DLHC}	116 ^{DLHC}	77.9 ^{DLHC}	169 ^{DLHC}	
Beryllium (Be)-Dissolved	ug/L	67	-	<1.0 ^{DLHC}	<1.0 ^{DLHC}	<10 ^{DLHC}	<1.0 ^{DLHC}	<10 ^{DLHC}	<1.0 ^{DLHC}	<1.0 ^{DLHC}	<1.0 ^{DLHC}	<1.0 ^{DLHC}	<1.0 ^{DLHC}
Boron (B)-Dissolved	ug/L	45000	-	900 ^{DLHC}	630 ^{DLHC}	1300 ^{DLHC}	1000 ^{DLHC}	2100 ^{DLHC}	1170 ^{DLHC}	1190 ^{DLHC}	160 ^{DLHC}	330 ^{DLHC}	
Cadmium (Cd)-Dissolved	ug/L	2.7	-	<0.050 ^{DLHC}	0.153 ^{DLHC}	<0.50 ^{DLHC}	<0.050 ^{DLHC}	<0.50 ^{DLHC}	<0.050 ^{DLHC}	<0.050 ^{DLHC}	<0.050 ^{DLHC}	<0.050 ^{DLHC}	0.089 ^{DLHC}
Chromium (Cr)-Dissolved	ug/L	810	-	<5.0 ^{DLHC}	<5.0 ^{DLHC}	<50 ^{DLHC}	<5.0 ^{DLHC}	<50 ^{DLHC}	<5.0 ^{DLHC}	<5.0 ^{DLHC}	<5.0 ^{DLHC}	<5.0 ^{DLHC}	<5.0 ^{DLHC}
Cobalt (Co)-Dissolved	ug/L	66	-	<1.0 ^{DLHC}	4.5 ^{DLHC}	11 ^{DLHC}	<1.0 ^{DLHC}	<10 ^{DLHC}	<1.0 ^{DLHC}	<1.0 ^{DLHC}	<1.0 ^{DLHC}	<1.0 ^{DLHC}	<1.0 ^{DLHC}
Copper (Cu)-Dissolved	ug/L	87	-	<2.0 ^{DLHC}	4.9 ^{DLHC}	<20 ^{DLHC}	<2.0 ^{DLHC}	<20 ^{DLHC}	<2.0 ^{DLHC}	<2.0 ^{DLHC}	<2.0 ^{DLHC}	<2.0 ^{DLHC}	6.3 ^{DLHC}
Lead (Pb)-Dissolved	ug/L	25	-	<0.50 ^{DLHC}	<0.50 ^{DLHC}	<5.0 ^{DLHC}	<0.50 ^{DLHC}	<5.0 ^{DLHC}	<0.50 ^{DLHC}	<0.50 ^{DLHC}	<0.50 ^{DLHC}	<0.50 ^{DLHC}	<0.50 ^{DLHC}
Mercury (Hg)-Dissolved	ug/L	0.29	-	<0.0050 ^{DLHC}	<0.0050 ^{DLHC}	<0.0050 ^{DLHC}	<0.0050 ^{DLHC}	<0.0050 ^{DLHC}	<0.0050 ^{DLHC}	<0.0050 ^{DLHC}	<0.0050 ^{DLHC}	<0.0050 ^{DLHC}	<0.0050 ^{DLHC}
Molybdenum (Mo)-Dissolved	ug/L	9200	-	15.8 ^{DLHC}	22.8 ^{DLHC}	7.8 ^{DLHC}	9.30 ^{DLHC}	8.1 ^{DLHC}	8.46 ^{DLHC}	18.2 ^{DLHC}	0.80 ^{DLHC}	0.85 ^{DLHC}	
Nickel (Ni)-Dissolved	ug/L	490	-	<5.0 ^{DLHC}	12.4 ^{DLHC}	<50 ^{DLHC}	<5.0 ^{DLHC}	<50 ^{DLHC}	<5.0 ^{DLHC}	<5.0 ^{DLHC}	<5.0 ^{DLHC}	<5.0 ^{DLHC}	<5.0 ^{DLHC}
Selenium (Se)-Dissolved	ug/L	63	-	0.78 ^{DLHC}	<0.50 ^{DLHC}	<5.0 ^{DLHC}	<0.50 ^{DLHC}	<5.0 ^{DLHC}	<0.50 ^{DLHC}	<0.50 ^{DLHC}	1.45 ^{DLHC}	<0.50 ^{DLHC}	
Silver (Ag)-Dissolved	ug/L	1.5	-	<0.50 ^{DLHC}	<0.50 ^{DLHC}	<1.5 ^{DLMDL}	<0.50 ^{DLHC}	<1.5 ^{DLMDL}	<0.50 ^{DLHC}	<0.50 ^{DLHC}	<0.50 ^{DLHC}	<0.50 ^{DLHC}	
Sodium (Na)-Dissolved	ug/L	2300000	-	556000 ^{DLHC}	805000 ^{DLHC}	12400000 ^{DLHC}	383000 ^{DLHC}	5400000 ^{DLHC}	176000 ^{DLHC}	295000 ^{DLHC}	753000 ^{DLHC}	2200000 ^{DLHC}	
Thallium (Tl)-Dissolved	ug/L	510	-	<0.10 ^{DLHC}	0.12 ^{DLHC}	<1.0 ^{DLHC}	<0.10 ^{DLHC}	<1.0 ^{DLHC}	<0.10 ^{DLHC}	<0.10 ^{DLHC}	<0.10 ^{DLHC}	0.15 ^{DLHC}	
Uranium (U)-Dissolved	ug/L	420	-	5.43 ^{DLHC}	7.92 ^{DLHC}	52.1 ^{DLHC}	2.77 ^{DLHC}	28.9 ^{DLHC}	1.61 ^{DLHC}	2.29 ^{DLHC}	1.22 ^{DLHC}	1.90 ^{DLHC}	
Vanadium (V)-Dissolved	ug/L	250	-	<5.0 ^{DLHC}	<5.0 ^{DLHC}	<50 ^{DLHC}	<5.0 ^{DLHC}	<50 ^{DLHC}	<5.0 ^{DLHC}	<5.0 ^{DLHC}	<5.0 ^{DLHC}	<5.0 ^{DLHC}	
Zinc (Zn)-Dissolved	ug/L	1100	-	<10 ^{DLHC}	<10 ^{DLHC}	<100 ^{DLHC}	<10 ^{DLHC}	<100 ^{DLHC}	<10 ^{DLHC}	<10 ^{DLHC}	<10 ^{DLHC}	<10 ^{DLHC}	

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Dissolved Metals - WATER

Analyte	Unit	Guide Limits		Lab ID		Sample Date		Sample ID	
		#1	#2	L2694751-10	L2694751-11	24-MAR-22	23-MAR-22	BH103	DUP 1
Dissolved Mercury Filtration Location	-	-	-	FIELD	FIELD				
Dissolved Metals Filtration Location	-	-	-	FIELD	FIELD				
Antimony (Sb)-Dissolved	ug/L	20000	-	<1.0 ^{DLHC}	<1.0 ^{DLHC}				
Arsenic (As)-Dissolved	ug/L	1900	-	<1.0 ^{DLHC}	2.5 ^{DLHC}				
Barium (Ba)-Dissolved	ug/L	29000	-	109 ^{DLHC}	168 ^{DLHC}				
Beryllium (Be)-Dissolved	ug/L	67	-	<1.0 ^{DLHC}	<1.0 ^{DLHC}				
Boron (B)-Dissolved	ug/L	45000	-	700 ^{DLHC}	1110 ^{DLHC}				
Cadmium (Cd)-Dissolved	ug/L	2.7	-	0.113 ^{DLHC}	<0.050 ^{DLHC}				
Chromium (Cr)-Dissolved	ug/L	810	-	<5.0 ^{DLHC}	<5.0 ^{DLHC}				
Cobalt (Co)-Dissolved	ug/L	66	-	3.6 ^{DLHC}	<1.0 ^{DLHC}				
Copper (Cu)-Dissolved	ug/L	87	-	3.2 ^{DLHC}	<2.0 ^{DLHC}				
Lead (Pb)-Dissolved	ug/L	25	-	<0.50 ^{DLHC}	<0.50 ^{DLHC}				
Mercury (Hg)-Dissolved	ug/L	0.29	-	<0.0050 ^{DLHC}	<0.0050 ^{DLHC}				
Molybdenum (Mo)-Dissolved	ug/L	9200	-	3.60 ^{DLHC}	8.38 ^{DLHC}				
Nickel (Ni)-Dissolved	ug/L	490	-	10.8 ^{DLHC}	<5.0 ^{DLHC}				
Selenium (Se)-Dissolved	ug/L	63	-	1.84 ^{DLHC}	<0.50 ^{DLHC}				
Silver (Ag)-Dissolved	ug/L	1.5	-	<0.50 ^{DLHC}	<0.50 ^{DLHC}				
Sodium (Na)-Dissolved	ug/L	2300000	-	101000 ^{DLHC}	171000 ^{DLHC}				
Thallium (Tl)-Dissolved	ug/L	510	-	0.13 ^{DLHC}	<0.10 ^{DLHC}				
Uranium (U)-Dissolved	ug/L	420	-	9.84 ^{DLHC}	1.65 ^{DLHC}				
Vanadium (V)-Dissolved	ug/L	250	-	<5.0 ^{DLHC}	<5.0 ^{DLHC}				
Zinc (Zn)-Dissolved	ug/L	1100	-	<10 ^{DLHC}	<10 ^{DLHC}				

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Speciated Metals - WATER

Analyte	Unit	Guide Limits																												
		#1	#2	Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID																		
Chromium, Hexavalent	ug/L	140	-	L2694751-1	24-MAR-22	BH201	L2694751-2	24-MAR-22	BH202	L2694751-3	22-MAR-22	BH203	L2694751-4	23-MAR-22	BH204	L2694751-5	23-MAR-22	BH205	L2694751-6	23-MAR-22	BH206	L2694751-7	23-MAR-22	BH207	L2694751-8	24-MAR-22	BH101	L2694751-9	24-MAR-22	BH102
				<0.50	<0.50	<5.0 ^{DLM}	<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	<0.50	<0.50	<0.50	<0.50	

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Speciated Metals - WATER

Analyte	Unit	Guide Limits			
		#1	#2	#3	#4
Chromium, Hexavalent	ug/L	140	-	<0.50	<0.50

Lab ID	L2694751-10	L2694751-11
Sample Date	24-MAR-22	23-MAR-22
Sample ID	BH103	DUP 1

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Volatile Organic Compounds - WATER

Analyte	Unit	Guide Limits		Lab ID	L2694751-1	L2694751-2	L2694751-3	L2694751-4	L2694751-5	L2694751-6	L2694751-7	L2694751-8	L2694751-9
		#1	#2	Sample Date	24-MAR-22	24-MAR-22	22-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	24-MAR-22
				Sample ID	BH201	BH202	BH203	BH204	BH205	BH206	BH207	BH101	BH102
Acetone	ug/L	130000	-		<30	<30	<30 ^{OWP}	<30	<30	<30 ^{OWP}	<30 ^{OWP}	<30	<30
Benzene	ug/L	44	-		<0.50	<0.50	1.94	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50
Bromodichloromethane	ug/L	85000	-		2.2	<2.0	<2.0 ^{OWP}	<2.0	<2.0	<2.0 ^{OWP}	<2.0 ^{OWP}	<2.0	<2.0
Bromoform	ug/L	380	-		<5.0	<5.0	<5.0 ^{OWP}	<5.0	<5.0	<5.0 ^{OWP}	<5.0 ^{OWP}	<5.0	<5.0
Bromomethane	ug/L	5.6	-		<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50
Carbon tetrachloride	ug/L	0.79	-		<0.20	<0.20	<0.20 ^{OWP}	<0.20	<0.20	<0.20 ^{OWP}	<0.20 ^{OWP}	<0.20	<0.20
Chlorobenzene	ug/L	630	-		<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50
Dibromochloromethane	ug/L	82000	-		<2.0	<2.0	<2.0 ^{OWP}	<2.0	<2.0	<2.0 ^{OWP}	<2.0 ^{OWP}	<2.0	<2.0
Chloroform	ug/L	2.4	-		4.6	<1.0	3.5	<1.0	2.6	<1.0 ^{OWP}	<1.0 ^{OWP}	<1.0	<1.0
1,2-Dibromoethane	ug/L	0.25	-		<0.20	<0.20	<0.20 ^{OWP}	<0.20	<0.20	<0.20 ^{OWP}	<0.20 ^{OWP}	<0.20	<0.20
1,2-Dichlorobenzene	ug/L	4600	-		<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	9600	-		<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	8	-		<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50
Dichlorodifluoromethane	ug/L	4400	-		<2.0	<2.0	<2.0 ^{OWP}	<2.0	<2.0	<2.0 ^{OWP}	<2.0 ^{OWP}	<2.0	<2.0
1,1-Dichloroethane	ug/L	320	-		<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50
1,2-Dichloroethane	ug/L	1.6	-		<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50
1,1-Dichloroethylene	ug/L	1.6	-		<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50
cis-1,2-Dichloroethylene	ug/L	1.6	-		<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50
trans-1,2-Dichloroethylene	ug/L	1.6	-		<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50
Methylene Chloride	ug/L	610	-		<5.0	<5.0	<5.0 ^{OWP}	<5.0	<5.0	<5.0 ^{OWP}	<5.0 ^{OWP}	<5.0	<5.0
1,2-Dichloropropane	ug/L	16	-		<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50
cis-1,3-Dichloropropene	ug/L	-	-		<0.30	<0.30	<0.30 ^{OWP}	<0.30	<0.30	<0.30 ^{OWP}	<0.30 ^{OWP}	<0.30	<0.30
trans-1,3-Dichloropropene	ug/L	-	-		<0.30	<0.30	<0.30 ^{OWP}	<0.30	<0.30	<0.30 ^{OWP}	<0.30 ^{OWP}	<0.30	<0.30
1,3-Dichloropropene (cis & trans)	ug/L	5.2	-		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	ug/L	2300	-		<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50
n-Hexane	ug/L	51	-		<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50
Methyl Ethyl Ketone	ug/L	470000	-		<20	<20	<20 ^{OWP}	<20	<20	<20 ^{OWP}	<20 ^{OWP}	<20	<20
Methyl Isobutyl Ketone	ug/L	140000	-		<20	<20	<20 ^{OWP}	<20	<20	<20 ^{OWP}	<20 ^{OWP}	<20	<20
MTBE	ug/L	190	-		<2.0	<2.0	<2.0 ^{OWP}	<2.0	<2.0	<2.0 ^{OWP}	<2.0 ^{OWP}	<2.0	<2.0
Styrene	ug/L	1300	-		<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

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

Volatile Organic Compounds - WATER

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID
		#1	#2	L2694751-10	L2694751-11	
				L2694751-10	24-MAR-22	BH103
				L2694751-11	23-MAR-22	DUP 1
Acetone	ug/L	130000	-	<30 ^{OWP}	<30 ^{OWP}	
Benzene	ug/L	44	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
Bromodichloromethane	ug/L	85000	-	<2.0 ^{OWP}	<2.0 ^{OWP}	
Bromoform	ug/L	380	-	<5.0 ^{OWP}	<5.0 ^{OWP}	
Bromomethane	ug/L	5.6	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
Carbon tetrachloride	ug/L	0.79	-	<0.20 ^{OWP}	<0.20 ^{OWP}	
Chlorobenzene	ug/L	630	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
Dibromochloromethane	ug/L	82000	-	<2.0 ^{OWP}	<2.0 ^{OWP}	
Chloroform	ug/L	2.4	-	<1.0 ^{OWP}	<1.0 ^{OWP}	
1,2-Dibromoethane	ug/L	0.25	-	<0.20 ^{OWP}	<0.20 ^{OWP}	
1,2-Dichlorobenzene	ug/L	4600	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
1,3-Dichlorobenzene	ug/L	9600	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
1,4-Dichlorobenzene	ug/L	8	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
Dichlorodifluoromethane	ug/L	4400	-	<2.0 ^{OWP}	<2.0 ^{OWP}	
1,1-Dichloroethane	ug/L	320	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
1,2-Dichloroethane	ug/L	1.6	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
1,1-Dichloroethylene	ug/L	1.6	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
cis-1,2-Dichloroethylene	ug/L	1.6	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
trans-1,2-Dichloroethylene	ug/L	1.6	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
Methylene Chloride	ug/L	610	-	<5.0 ^{OWP}	<5.0 ^{OWP}	
1,2-Dichloropropane	ug/L	16	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
cis-1,3-Dichloropropene	ug/L	-	-	<0.30 ^{OWP}	<0.30 ^{OWP}	
trans-1,3-Dichloropropene	ug/L	-	-	<0.30 ^{OWP}	<0.30 ^{OWP}	
1,3-Dichloropropene (cis & trans)	ug/L	5.2	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
Ethylbenzene	ug/L	2300	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
n-Hexane	ug/L	51	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
Methyl Ethyl Ketone	ug/L	470000	-	<20 ^{OWP}	<20 ^{OWP}	
Methyl Isobutyl Ketone	ug/L	140000	-	<20 ^{OWP}	<20 ^{OWP}	
MTBE	ug/L	190	-	<2.0 ^{OWP}	<2.0 ^{OWP}	
Styrene	ug/L	1300	-	<0.50 ^{OWP}	<0.50 ^{OWP}	

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

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

Volatile Organic Compounds - WATER

Analyte	Unit	Guide Limits		Lab ID	L2694751-1	L2694751-2	L2694751-3	L2694751-4	L2694751-5	L2694751-6	L2694751-7	L2694751-8	L2694751-9
		#1	#2	Sample Date	24-MAR-22	24-MAR-22	22-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	24-MAR-22	24-MAR-22
				Sample ID	BH201	BH202	BH203	BH204	BH205	BH206	BH207	BH101	BH102
1,1,1,2-Tetrachloroethane	ug/L	3.3	-	<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50	
1,1,2,2-Tetrachloroethane	ug/L	3.2	-	<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50	
Tetrachloroethylene	ug/L	1.6	-	<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50	
Toluene	ug/L	18000	-	<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50	
1,1,1-Trichloroethane	ug/L	640	-	<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50	
1,1,2-Trichloroethane	ug/L	4.7	-	<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50	
Trichloroethylene	ug/L	1.6	-	<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50	
Trichlorofluoromethane	ug/L	2500	-	<5.0	<5.0	<5.0 ^{OWP}	<5.0	<5.0	<5.0 ^{OWP}	<5.0 ^{OWP}	<5.0	<5.0	
Vinyl chloride	ug/L	0.5	-	<0.50	<0.50	<0.50 ^{OWP}	<0.50	<0.50	<0.50 ^{OWP}	<0.50 ^{OWP}	<0.50	<0.50	
o-Xylene	ug/L	-	-	<0.30	<0.30	<0.30 ^{OWP}	<0.30	<0.30	<0.30 ^{OWP}	<0.30 ^{OWP}	<0.30	<0.30	
m+p-Xylenes	ug/L	-	-	<0.40	<0.40	<0.40 ^{OWP}	<0.40	<0.40	<0.40 ^{OWP}	<0.40 ^{OWP}	<0.40	<0.40	
Xylenes (Total)	ug/L	4200	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Surrogate: 4-Bromofluorobenzene	%	-	-	98.7	96.9	94.0	99.0	97.3	95.4	102.9	101.8	98.2	
Surrogate: 1,4-Difluorobenzene	%	-	-	99.8	100.8	100.2	100.3	100.3	99.9	100.2	100.5	100.3	

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Volatile Organic Compounds - WATER

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID
		#1	#2	L2694751-10	L2694751-11	
				24-MAR-22	23-MAR-22	BH103 DUP 1
1,1,1,2-Tetrachloroethane	ug/L	3.3	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
1,1,2,2-Tetrachloroethane	ug/L	3.2	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
Tetrachloroethylene	ug/L	1.6	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
Toluene	ug/L	18000	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
1,1,1-Trichloroethane	ug/L	640	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
1,1,2-Trichloroethane	ug/L	4.7	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
Trichloroethylene	ug/L	1.6	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
Trichlorofluoromethane	ug/L	2500	-	<5.0 ^{OWP}	<5.0 ^{OWP}	
Vinyl chloride	ug/L	0.5	-	<0.50 ^{OWP}	<0.50 ^{OWP}	
o-Xylene	ug/L	-	-	<0.30 ^{OWP}	<0.30 ^{OWP}	
m+p-Xylenes	ug/L	-	-	<0.40 ^{OWP}	<0.40 ^{OWP}	
Xylenes (Total)	ug/L	4200	-	<0.50	<0.50	
Surrogate: 4-Bromofluorobenzene	%	-	-	90.6	94.8	
Surrogate: 1,4-Difluorobenzene	%	-	-	99.8	99.5	

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Hydrocarbons - WATER

Analyte	Unit	Guide Limits		Lab ID	L2694751-1	L2694751-2	L2694751-3	L2694751-4	L2694751-5	L2694751-6	L2694751-7	L2694751-8	L2694751-9
		#1	#2	Sample Date	24-MAR-22	24-MAR-22	22-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	24-MAR-22
				Sample ID	BH201	BH202	BH203	BH204	BH205	BH206	BH207	BH101	BH102
F1 (C6-C10)	ug/L	750	-	<25	<25	<25	<25 ^{OWP}	<25	<25	<25 ^{OWP}	<25 ^{OWP}	<25	<25
F1-BTEX	ug/L	750	-	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
F2 (C10-C16)	ug/L	150	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F2-Naphth	ug/L	-	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F3 (C16-C34)	ug/L	500	-	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
F3-PAH	ug/L	-	-	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
F4 (C34-C50)	ug/L	500	-	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Total Hydrocarbons (C6-C50)	ug/L	-	-	<370	<370	<370	<370	<370	<370	<370	<370	<370	<370
Chrom. to baseline at nC50		-	-	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Surrogate: 2-Bromobenzotrifluoride	%	-	-	94.5	94.0	90.8	91.6	98.0	86.6	93.5	84.3	91.6	
Surrogate: 3,4-Dichlorotoluene	%	-	-	91.7	85.4	80.8	80.0	80.7	52.1 ^{SURR-ND}	87.9	86.3	65.8	

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Hydrocarbons - WATER

Lab ID	L2694751-10	L2694751-11
Sample Date	24-MAR-22	23-MAR-22
Sample ID	BH103	DUP 1

Analyte	Unit	Guide Limits			
		#1	#2		
F1 (C6-C10)	ug/L	750	-	<25 ^{OWP}	<25 ^{OWP}
F1-BTEX	ug/L	750	-	<25	<25
F2 (C10-C16)	ug/L	150	-	<100	<100
F2-Naphth	ug/L	-	-	<100	<100
F3 (C16-C34)	ug/L	500	-	<250	<250
F3-PAH	ug/L	-	-	<250	<250
F4 (C34-C50)	ug/L	500	-	<250	<250
Total Hydrocarbons (C6-C50)	ug/L	-	-	<370	<370
Chrom. to baseline at nC50		-	-	YES	YES
Surrogate: 2-Bromobenzotrifluoride	%	-	-	85.0	91.7
Surrogate: 3,4-Dichlorotoluene	%	-	-	59.6 ^{SURR-ND}	68.3

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Polycyclic Aromatic Hydrocarbons - WATER

Analyte	Unit	Guide Limits		Lab ID	L2694751-1	L2694751-2	L2694751-3	L2694751-4	L2694751-5	L2694751-6	L2694751-7	L2694751-8	L2694751-9
		#1	#2	Sample Date	24-MAR-22	24-MAR-22	22-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	24-MAR-22
				Sample ID	BH201	BH202	BH203	BH204	BH205	BH206	BH207	BH101	BH102
Acenaphthene	ug/L	600	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Acenaphthylene	ug/L	1.8	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Anthracene	ug/L	2.4	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)anthracene	ug/L	4.7	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)pyrene	ug/L	0.81	-		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(b&j)fluoranthene	ug/L	0.75	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(g,h,i)perylene	ug/L	0.2	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(k)fluoranthene	ug/L	0.4	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chrysene	ug/L	1	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Dibenz(a,h)anthracene	ug/L	0.52	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluoranthene	ug/L	130	-		<0.020	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluorene	ug/L	400	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Indeno(1,2,3-cd)pyrene	ug/L	0.2	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1+2-Methylnaphthalenes	ug/L	1800	-		<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
1-Methylnaphthalene	ug/L	1800	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
2-Methylnaphthalene	ug/L	1800	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Naphthalene	ug/L	1400	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	ug/L	580	-		<0.020	0.100	<0.020	0.035	<0.020	0.040	0.022	<0.020	<0.020
Pyrene	ug/L	68	-		<0.020	0.045	<0.020	0.028	<0.020	0.031	<0.020	<0.020	<0.020
Surrogate: Chrysene d12	%	-	-		100.8	104.2	77.7	102.6	100.5	98.3	104.2	97.6	106.8
Surrogate: Naphthalene d8	%	-	-		94.0	98.9	95.8	94.3	99.7	91.1	95.7	90.4	95.4
Surrogate: Phenanthrene d10	%	-	-		102.5	108.0	93.4	106.4	107.5	98.3	109.5	100.1	109.6

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Polycyclic Aromatic Hydrocarbons - WATER

Analyte	Unit	Guide Limits			
		#1	#2		
		Lab ID	L2694751-10	L2694751-11	
		Sample Date	24-MAR-22	23-MAR-22	
		Sample ID	BH103	DUP 1	
Acenaphthene	ug/L	600	-	<0.020	<0.020
Acenaphthylene	ug/L	1.8	-	<0.020	<0.020
Anthracene	ug/L	2.4	-	<0.020	<0.020
Benzo(a)anthracene	ug/L	4.7	-	<0.020	<0.020
Benzo(a)pyrene	ug/L	0.81	-	<0.010	<0.010
Benzo(b&j)fluoranthene	ug/L	0.75	-	<0.020	<0.020
Benzo(g,h,i)perylene	ug/L	0.2	-	<0.020	<0.020
Benzo(k)fluoranthene	ug/L	0.4	-	<0.020	<0.020
Chrysene	ug/L	1	-	<0.020	<0.020
Dibenz(a,h)anthracene	ug/L	0.52	-	<0.020	<0.020
Fluoranthene	ug/L	130	-	<0.020	<0.020
Fluorene	ug/L	400	-	<0.020	<0.020
Indeno(1,2,3-cd)pyrene	ug/L	0.2	-	<0.020	<0.020
1+2-Methylnaphthalenes	ug/L	1800	-	<0.028	<0.028
1-Methylnaphthalene	ug/L	1800	-	<0.020	<0.020
2-Methylnaphthalene	ug/L	1800	-	<0.020	<0.020
Naphthalene	ug/L	1400	-	<0.050	<0.050
Phenanthrene	ug/L	580	-	<0.020	0.042
Pyrene	ug/L	68	-	<0.020	0.032
Surrogate: Chrysene d12	%	-	-	100.2	98.9
Surrogate: Naphthalene d8	%	-	-	92.0	92.2
Surrogate: Phenanthrene d10	%	-	-	102.7	107.0

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Polychlorinated Biphenyls - WATER

Analyte	Unit	Guide Limits		Lab ID	L2694751-1	L2694751-2	L2694751-3	L2694751-4	L2694751-5	L2694751-6	L2694751-7	L2694751-8	L2694751-9
		#1	#2	Sample Date	24-MAR-22	24-MAR-22	22-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	23-MAR-22	24-MAR-22
				Sample ID	BH201	BH202	BH203	BH204	BH205	BH206	BH207	BH101	BH102
Aroclor 1242	ug/L	-	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1248	ug/L	-	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1254	ug/L	-	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1260	ug/L	-	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Surrogate: Decachlorobiphenyl	%	-	-		170.6 ^{SHMI}	89.1	90.2	102.3	130.8	70.1	80.9	107.9	111.7
Total PCBs	ug/L	7.8	-		<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Surrogate: Tetrachloro-m-xylene	%	-	-		112.5	98.1	94.4	106.9	100.0	75.0	93.3	102.1	102.0

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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.

Polychlorinated Biphenyls - WATER

Lab ID	L2694751-10	L2694751-11
Sample Date	24-MAR-22	23-MAR-22
Sample ID	BH103	DUP 1

Analyte	Unit	Guide Limits			
		#1	#2		
Aroclor 1242	ug/L	-	-	<0.020	<0.020
Aroclor 1248	ug/L	-	-	<0.020	<0.020
Aroclor 1254	ug/L	-	-	<0.020	<0.020
Aroclor 1260	ug/L	-	-	<0.020	<0.020
Surrogate: Decachlorobiphenyl	%	-	-	139.6	84.5
Total PCBs	ug/L	7.8	-	<0.040	<0.040
Surrogate: Tetrachloro-m-xylene	%	-	-	109.1	86.7

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (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

Qualifiers for Individual Parameters Listed:

Qualifier	Description
SURR-ND	Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be unaffected.
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
PEHT	Parameter Exceeded Recommended Holding Time Prior to Analysis
DLMDL	Reported detection limit is at or near the Method Detection Limit (MDL). Measurement uncertainty is high at this level.
SHMI	Surrogate recovery was outside ALS DQO (High) due to Matrix Interference.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
OWP	Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of

Reference Information

sediment.

DLHC Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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CL-IC-N-WT	Water	Chloride by IC	EPA 300.1 (mod)
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Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

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

CN-WAD-R511-WT	Water	Cyanide (WAD)-O.Reg 153/04	APHA 4500CN I-Weak acid Dist Colorimet
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Weak acid dissociable cyanide (WAD) is determined by undergoing a distillation procedure. 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-R511-WT	Water	Hex Chrom-O.Reg 153/04 (July 2011)	EPA 7199
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This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

EC-R511-WT	Water	Conductivity-O.Reg 153/04 (July 2011)	APHA 2510 B
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Water samples can be measured directly by immersing the conductivity cell into 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).

EC-SCREEN-WT	Water	Conductivity Screen (Internal Use Only)	APHA 2510
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Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.

F1-F4-511-CALC-WT	Water	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-L
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Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Water	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS
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Fraction F1 is determined by analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 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	Water	F2-F4-O.Reg 153/04 (July 2011)	EPA 3511/CCME Tier 1
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Petroleum Hydrocarbons (F2-F4 fractions) are extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, 2001.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 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-D-UG/L-CVAA-WT	Water	Diss. Mercury in Water by CVAAS (ug/L)	EPA 1631E (mod)
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Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

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

MET-D-UG/L-MS-WT	Water	Diss. Metals in Water by ICPMS (ug/L)	EPA 200.8
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The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT	Water	PAH-Calculated Parameters	SW846 8270
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PAH-511-WT	Water	PAH-O. Reg 153/04 (July 2011)	SW846 3510/8270
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Aqueous samples, fortified with surrogates, are extracted using liquid/liquid extraction technique. The sample extracts are concentrated and then analyzed using GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PCB-511-WT	Water	PCB-O. Reg 153/04 (July 2011)	SW846 3510/8082
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Aqueous samples are extracted, then concentrated, reconstituted, and analyzed by GC/MS.

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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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	Water	pH	APHA 4500 H-Electrode
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Water samples are analyzed directly by a calibrated pH 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). Holdtime for samples under this regulation is 28 days

VOC-1,3-DCP-CALC-WT	Water	Regulation 153 VOCs	SW8260B/SW8270C
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VOC-511-HS-WT	Water	VOC by GCMS HS O.Reg 153/04 (July 2011)	SW846 8260
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Liquid samples are analyzed by headspace GC/MSD.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 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
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Total xylenes represents the sum of o-xylene and m&p-xylene.

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

Chain of Custody Numbers:

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

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

Reference Information

L2694751 CONT'D....
Job Reference: 21-067
PAGE 27 of 27
04-APR-22 10:19 (MT)

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: L2694751

Report Date: 04-APR-22

Page 1 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-IC-N-WT		Water						
Batch	R5751636							
WG3711189-9	DUP	WG3711189-8						
Chloride (Cl)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	29-MAR-22
WG3711189-7	LCS							
Chloride (Cl)			102.2		%		90-110	29-MAR-22
WG3711189-6	MB							
Chloride (Cl)			<0.50		mg/L		0.5	29-MAR-22
WG3711189-10	MS	WG3711189-8						
Chloride (Cl)			103.4		%		75-125	29-MAR-22
CN-WAD-R511-WT		Water						
Batch	R5751173							
WG3710964-11	DUP	WG3710964-13						
Cyanide, Weak Acid Diss		<2.0	<2.0	RPD-NA	ug/L	N/A	20	28-MAR-22
WG3710964-16	DUP	WG3710964-18						
Cyanide, Weak Acid Diss		<2.0	<2.0	RPD-NA	ug/L	N/A	20	28-MAR-22
WG3710964-10	LCS							
Cyanide, Weak Acid Diss			103.1		%		80-120	28-MAR-22
WG3710964-15	LCS							
Cyanide, Weak Acid Diss			102.2		%		80-120	28-MAR-22
WG3710964-14	MB							
Cyanide, Weak Acid Diss			<2.0		ug/L		2	28-MAR-22
WG3710964-9	MB							
Cyanide, Weak Acid Diss			<2.0		ug/L		2	28-MAR-22
WG3710964-12	MS	WG3710964-13						
Cyanide, Weak Acid Diss			106.3		%		75-125	28-MAR-22
WG3710964-17	MS	WG3710964-18						
Cyanide, Weak Acid Diss			105.0		%		75-125	28-MAR-22
CR-CR6-IC-R511-WT		Water						
Batch	R5751107							
WG3710790-4	DUP	WG3710790-3						
Chromium, Hexavalent		<0.50	<0.50	RPD-NA	ug/L	N/A	20	28-MAR-22
WG3710790-2	LCS							
Chromium, Hexavalent			98.2		%		80-120	28-MAR-22
WG3710790-1	MB							
Chromium, Hexavalent			<0.50		ug/L		0.5	28-MAR-22
WG3710790-5	MS	WG3710790-3						
Chromium, Hexavalent			100.8		%		70-130	28-MAR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 2 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CR-CR6-IC-R511-WT		Water						
Batch	R5751539							
WG3711235-4	DUP	WG3711235-3						
Chromium, Hexavalent		<0.50	<0.50	RPD-NA	ug/L	N/A	20	29-MAR-22
WG3711235-2	LCS							
Chromium, Hexavalent			100.6		%		80-120	29-MAR-22
WG3711235-1	MB							
Chromium, Hexavalent			<0.50		ug/L		0.5	29-MAR-22
WG3711235-5	MS	WG3711235-3						
Chromium, Hexavalent			99.8		%		70-130	29-MAR-22
EC-R511-WT		Water						
Batch	R5751795							
WG3711195-4	DUP	WG3711195-3						
Conductivity		0.265	0.258		mS/cm	2.7	10	29-MAR-22
WG3711195-2	LCS							
Conductivity			98.9		%		90-110	29-MAR-22
WG3711195-1	MB							
Conductivity			<0.0030		mS/cm		0.003	29-MAR-22
Batch	R5751802							
WG3711197-4	DUP	WG3711197-3						
Conductivity		2.99	2.96		mS/cm	1.0	10	29-MAR-22
WG3711197-2	LCS							
Conductivity			91.1		%		90-110	29-MAR-22
WG3711197-1	MB							
Conductivity			<0.0030		mS/cm		0.003	29-MAR-22
F1-HS-511-WT		Water						
Batch	R5752181							
WG3712037-4	DUP	WG3712037-3						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	01-APR-22
WG3712037-1	LCS							
F1 (C6-C10)			113.1		%		80-120	31-MAR-22
WG3712037-2	MB							
F1 (C6-C10)			<25		ug/L		25	31-MAR-22
Surrogate: 3,4-Dichlorotoluene			92.1		%		60-140	31-MAR-22
WG3712037-5	MS	WG3712037-3						
F1 (C6-C10)			96.7		%		60-140	01-APR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 3 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT		Water						
Batch R5752302								
WG3712004-4	DUP	WG3712004-3						
F1 (C6-C10)		95	95		ug/L	0.5	30	31-MAR-22
WG3712004-1	LCS							
F1 (C6-C10)			107.5		%		80-120	31-MAR-22
WG3712004-2	MB							
F1 (C6-C10)			<25		ug/L		25	31-MAR-22
Surrogate: 3,4-Dichlorotoluene			92.4		%		60-140	31-MAR-22
WG3712004-5	MS	WG3712004-3						
F1 (C6-C10)			101.8		%		60-140	31-MAR-22
Batch R5752504								
WG3712471-4	DUP	WG3712471-3						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	01-APR-22
WG3712471-1	LCS							
F1 (C6-C10)			106.4		%		80-120	01-APR-22
WG3712471-2	MB							
F1 (C6-C10)			<25		ug/L		25	01-APR-22
Surrogate: 3,4-Dichlorotoluene			110.4		%		60-140	01-APR-22
WG3712471-5	MS	WG3712471-3						
F1 (C6-C10)			95.0		%		60-140	01-APR-22
F2-F4-511-WT		Water						
Batch R5751228								
WG3710908-2	LCS							
F2 (C10-C16)			98.7		%		70-130	29-MAR-22
F3 (C16-C34)			99.5		%		70-130	29-MAR-22
F4 (C34-C50)			104.5		%		70-130	29-MAR-22
WG3710908-1	MB							
F2 (C10-C16)			<100		ug/L		100	29-MAR-22
F3 (C16-C34)			<250		ug/L		250	29-MAR-22
F4 (C34-C50)			<250		ug/L		250	29-MAR-22
Surrogate: 2-Bromobenzotrifluoride			86.9		%		60-140	29-MAR-22
HG-D-UG/L-CVAA-WT		Water						
Batch R5750466								
WG3710258-3	DUP	L2694751-1						
Mercury (Hg)-Dissolved		<0.0050	<0.0050	RPD-NA	ug/L	N/A	20	25-MAR-22
WG3710258-2	LCS							
Mercury (Hg)-Dissolved			85.1		%		80-120	25-MAR-22
WG3710258-1	MB							



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 4 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-UG/L-CVAA-WT Water								
Batch R5750466								
WG3710258-1 MB								
Mercury (Hg)-Dissolved			<0.0050		ug/L		0.005	25-MAR-22
WG3710258-4 MS L2694751-2								
Mercury (Hg)-Dissolved			82.6		%		70-130	25-MAR-22
MET-D-UG/L-MS-WT Water								
Batch R5750893								
WG3710334-4 DUP WG3710334-3								
Antimony (Sb)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	28-MAR-22
Arsenic (As)-Dissolved		0.39	0.38		ug/L	3.6	20	28-MAR-22
Barium (Ba)-Dissolved		116	110		ug/L	5.1	20	28-MAR-22
Beryllium (Be)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	28-MAR-22
Boron (B)-Dissolved		21	21		ug/L	0.1	20	28-MAR-22
Cadmium (Cd)-Dissolved		0.0051	0.0065	J	ug/L	0.0014	0.01	28-MAR-22
Chromium (Cr)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	28-MAR-22
Cobalt (Co)-Dissolved		0.11	0.11		ug/L	0.4	20	28-MAR-22
Copper (Cu)-Dissolved		1.01	1.05		ug/L	3.5	20	28-MAR-22
Lead (Pb)-Dissolved		0.353	0.385		ug/L	8.7	20	28-MAR-22
Molybdenum (Mo)-Dissolved		6.25	6.40		ug/L	2.3	20	28-MAR-22
Nickel (Ni)-Dissolved		2.47	2.54		ug/L	2.9	20	28-MAR-22
Selenium (Se)-Dissolved		0.342	0.353		ug/L	3.4	20	28-MAR-22
Silver (Ag)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	28-MAR-22
Sodium (Na)-Dissolved		19700	20400		ug/L	3.6	20	28-MAR-22
Thallium (Tl)-Dissolved		<0.010	<0.010	RPD-NA	ug/L	N/A	20	28-MAR-22
Uranium (U)-Dissolved		3.20	3.33		ug/L	3.9	20	28-MAR-22
Vanadium (V)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	28-MAR-22
Zinc (Zn)-Dissolved		3.6	3.7		ug/L	3.1	20	28-MAR-22
WG3710334-2 LCS								
Antimony (Sb)-Dissolved			101.2		%		80-120	25-MAR-22
Arsenic (As)-Dissolved			102.5		%		80-120	25-MAR-22
Barium (Ba)-Dissolved			102.1		%		80-120	25-MAR-22
Beryllium (Be)-Dissolved			95.5		%		80-120	25-MAR-22
Boron (B)-Dissolved			92.2		%		80-120	25-MAR-22
Cadmium (Cd)-Dissolved			100.8		%		80-120	25-MAR-22
Chromium (Cr)-Dissolved			99.7		%		80-120	25-MAR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 5 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT								
	Water							
Batch	R5750893							
WG3710334-2	LCS							
Cobalt (Co)-Dissolved			99.0		%		80-120	25-MAR-22
Copper (Cu)-Dissolved			98.6		%		80-120	25-MAR-22
Lead (Pb)-Dissolved			101.7		%		80-120	25-MAR-22
Molybdenum (Mo)-Dissolved			101.7		%		80-120	25-MAR-22
Nickel (Ni)-Dissolved			98.8		%		80-120	25-MAR-22
Selenium (Se)-Dissolved			102.6		%		80-120	25-MAR-22
Silver (Ag)-Dissolved			95.0		%		80-120	25-MAR-22
Sodium (Na)-Dissolved			101.7		%		80-120	25-MAR-22
Thallium (Tl)-Dissolved			101.2		%		80-120	25-MAR-22
Uranium (U)-Dissolved			107.5		%		80-120	25-MAR-22
Vanadium (V)-Dissolved			101.9		%		80-120	25-MAR-22
Zinc (Zn)-Dissolved			101.7		%		80-120	25-MAR-22
WG3710334-1	MB							
Antimony (Sb)-Dissolved			<0.10		ug/L		0.1	25-MAR-22
Arsenic (As)-Dissolved			<0.10		ug/L		0.1	25-MAR-22
Barium (Ba)-Dissolved			<0.10		ug/L		0.1	25-MAR-22
Beryllium (Be)-Dissolved			<0.10		ug/L		0.1	25-MAR-22
Boron (B)-Dissolved			<10		ug/L		10	25-MAR-22
Cadmium (Cd)-Dissolved			<0.0050		ug/L		0.005	25-MAR-22
Chromium (Cr)-Dissolved			<0.50		ug/L		0.5	25-MAR-22
Cobalt (Co)-Dissolved			<0.10		ug/L		0.1	25-MAR-22
Copper (Cu)-Dissolved			<0.20		ug/L		0.2	25-MAR-22
Lead (Pb)-Dissolved			<0.050		ug/L		0.05	25-MAR-22
Molybdenum (Mo)-Dissolved			<0.050		ug/L		0.05	25-MAR-22
Nickel (Ni)-Dissolved			<0.50		ug/L		0.5	25-MAR-22
Selenium (Se)-Dissolved			<0.050		ug/L		0.05	25-MAR-22
Silver (Ag)-Dissolved			<0.050		ug/L		0.05	25-MAR-22
Sodium (Na)-Dissolved			<50		ug/L		50	25-MAR-22
Thallium (Tl)-Dissolved			<0.010		ug/L		0.01	25-MAR-22
Uranium (U)-Dissolved			<0.010		ug/L		0.01	25-MAR-22
Vanadium (V)-Dissolved			<0.50		ug/L		0.5	25-MAR-22
Zinc (Zn)-Dissolved			<1.0		ug/L		1	25-MAR-22
WG3710334-5	MS	WG3710334-6						
Antimony (Sb)-Dissolved			109.3		%		70-130	28-MAR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 6 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT								
	Water							
Batch	R5750893							
WG3710334-5 MS		WG3710334-6						
Arsenic (As)-Dissolved			118.3		%		70-130	28-MAR-22
Barium (Ba)-Dissolved			N/A	MS-B	%		-	28-MAR-22
Beryllium (Be)-Dissolved			94.2		%		70-130	28-MAR-22
Boron (B)-Dissolved			83.7		%		70-130	28-MAR-22
Cadmium (Cd)-Dissolved			104.6		%		70-130	28-MAR-22
Chromium (Cr)-Dissolved			101.3		%		70-130	28-MAR-22
Cobalt (Co)-Dissolved			94.8		%		70-130	28-MAR-22
Copper (Cu)-Dissolved			94.7		%		70-130	28-MAR-22
Lead (Pb)-Dissolved			99.4		%		70-130	28-MAR-22
Molybdenum (Mo)-Dissolved			106.2		%		70-130	28-MAR-22
Nickel (Ni)-Dissolved			95.0		%		70-130	28-MAR-22
Selenium (Se)-Dissolved			136.5	MES	%		70-130	28-MAR-22
Silver (Ag)-Dissolved			96.4		%		70-130	28-MAR-22
Sodium (Na)-Dissolved			N/A	MS-B	%		-	28-MAR-22
Thallium (Tl)-Dissolved			98.6		%		70-130	28-MAR-22
Uranium (U)-Dissolved			N/A	MS-B	%		-	28-MAR-22
Vanadium (V)-Dissolved			104.2		%		70-130	28-MAR-22
Zinc (Zn)-Dissolved			100.7		%		70-130	28-MAR-22
PAH-511-WT								
	Water							
Batch	R5751407							
WG3710908-2 LCS								
1-Methylnaphthalene			91.9		%		50-140	29-MAR-22
2-Methylnaphthalene			87.1		%		50-140	29-MAR-22
Acenaphthene			92.9		%		60-130	29-MAR-22
Acenaphthylene			89.2		%		60-130	29-MAR-22
Anthracene			86.7		%		50-140	29-MAR-22
Benzo(a)anthracene			107.1		%		60-140	29-MAR-22
Benzo(a)pyrene			82.2		%		50-140	29-MAR-22
Benzo(b&j)fluoranthene			81.8		%		60-130	29-MAR-22
Benzo(g,h,i)perylene			92.4		%		50-140	29-MAR-22
Benzo(k)fluoranthene			86.7		%		50-140	29-MAR-22
Chrysene			99.4		%		60-140	29-MAR-22
Dibenz(a,h)anthracene			94.4		%		50-140	29-MAR-22
Fluoranthene			97.8		%		60-140	29-MAR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 7 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT		Water						
Batch	R5751407							
WG3710908-2	LCS							
Fluoranthene			97.8		%		60-140	29-MAR-22
Fluorene			94.6		%		60-130	29-MAR-22
Indeno(1,2,3-cd)pyrene			106.8		%		50-140	29-MAR-22
Naphthalene			89.1		%		50-130	29-MAR-22
Phenanthrene			98.0		%		60-140	29-MAR-22
Pyrene			96.2		%		60-140	29-MAR-22
WG3710908-1	MB							
1-Methylnaphthalene			<0.020		ug/L		0.02	29-MAR-22
2-Methylnaphthalene			<0.020		ug/L		0.02	29-MAR-22
Acenaphthene			<0.020		ug/L		0.02	29-MAR-22
Acenaphthylene			<0.020		ug/L		0.02	29-MAR-22
Anthracene			<0.020		ug/L		0.02	29-MAR-22
Benzo(a)anthracene			<0.020		ug/L		0.02	29-MAR-22
Benzo(a)pyrene			<0.010		ug/L		0.01	29-MAR-22
Benzo(b&j)fluoranthene			<0.020		ug/L		0.02	29-MAR-22
Benzo(g,h,i)perylene			<0.020		ug/L		0.02	29-MAR-22
Benzo(k)fluoranthene			<0.020		ug/L		0.02	29-MAR-22
Chrysene			<0.020		ug/L		0.02	29-MAR-22
Dibenz(a,h)anthracene			<0.020		ug/L		0.02	29-MAR-22
Fluoranthene			<0.020		ug/L		0.02	29-MAR-22
Fluorene			<0.020		ug/L		0.02	29-MAR-22
Indeno(1,2,3-cd)pyrene			<0.020		ug/L		0.02	29-MAR-22
Naphthalene			<0.050		ug/L		0.05	29-MAR-22
Phenanthrene			<0.020		ug/L		0.02	29-MAR-22
Pyrene			<0.020		ug/L		0.02	29-MAR-22
Surrogate: Naphthalene d8			93.5		%		60-140	29-MAR-22
Surrogate: Phenanthrene d10			104.8		%		60-140	29-MAR-22
Surrogate: Chrysene d12			100.0		%		50-150	29-MAR-22
PCB-511-WT		Water						
Batch	R5751812							
WG3711126-2	LCS							
Aroclor 1242			117.9		%		60-140	30-MAR-22
Aroclor 1248			89.1		%		60-140	30-MAR-22
Aroclor 1254			117.0		%		60-140	30-MAR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 8 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-511-WT		Water						
Batch R5751812								
WG3711126-2	LCS							
Aroclor 1260			120.0		%		60-140	30-MAR-22
WG3711126-1	MB							
Aroclor 1242			<0.020		ug/L		0.02	30-MAR-22
Aroclor 1248			<0.020		ug/L		0.02	30-MAR-22
Aroclor 1254			<0.020		ug/L		0.02	30-MAR-22
Aroclor 1260			<0.020		ug/L		0.02	30-MAR-22
Surrogate: Decachlorobiphenyl			120.3		%		50-150	30-MAR-22
Surrogate: Tetrachloro-m-xylene			99.1		%		50-150	30-MAR-22
Batch R5752469								
WG3711129-2	LCS							
Aroclor 1242			118.6		%		60-140	01-APR-22
Aroclor 1248			124.6		%		60-140	01-APR-22
Aroclor 1254			113.3		%		60-140	01-APR-22
Aroclor 1260			120.0		%		60-140	01-APR-22
WG3711129-1	MB							
Aroclor 1242			<0.020		ug/L		0.02	01-APR-22
Aroclor 1248			<0.020		ug/L		0.02	01-APR-22
Aroclor 1254			<0.020		ug/L		0.02	01-APR-22
Aroclor 1260			<0.020		ug/L		0.02	01-APR-22
Surrogate: Decachlorobiphenyl			148.3		%		50-150	01-APR-22
Surrogate: Tetrachloro-m-xylene			82.9		%		50-150	01-APR-22
PH-WT		Water						
Batch R5751795								
WG3711195-4	DUP	WG3711195-3						
pH		7.78	7.63	J	pH units	0.15	0.2	29-MAR-22
WG3711195-2	LCS							
pH			6.98		pH units		6.9-7.1	29-MAR-22
Batch R5751802								
WG3711197-4	DUP	WG3711197-3						
pH		8.25	8.26	J	pH units	0.01	0.2	29-MAR-22
WG3711197-2	LCS							
pH			7.08		pH units		6.9-7.1	29-MAR-22
VOC-511-HS-WT		Water						



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 9 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Water							
Batch	R5752181							
WG3712037-4	DUP	WG3712037-3						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	01-APR-22
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	01-APR-22
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-APR-22
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	01-APR-22
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	01-APR-22
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	01-APR-22
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	01-APR-22
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-APR-22
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-APR-22
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	01-APR-22
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	01-APR-22
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	01-APR-22
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	01-APR-22
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-APR-22
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	01-APR-22
Styrene		N/A	1.52		ug/L			04-APR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 10 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Water						
Batch	R5752181							
WG3712037-4	DUP	WG3712037-3						
Styrene		N/A	1.52		ug/L	7.5	30	04-APR-22
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	01-APR-22
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	01-APR-22
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
WG3712037-1	LCS							
1,1,1,2-Tetrachloroethane			97.8		%		70-130	31-MAR-22
1,1,2,2-Tetrachloroethane			99.7		%		70-130	31-MAR-22
1,1,1-Trichloroethane			101.5		%		70-130	31-MAR-22
1,1,2-Trichloroethane			92.6		%		70-130	31-MAR-22
1,1-Dichloroethane			96.7		%		70-130	31-MAR-22
1,1-Dichloroethylene			103.5		%		70-130	31-MAR-22
1,2-Dibromoethane			89.8		%		70-130	31-MAR-22
1,2-Dichlorobenzene			102.6		%		70-130	31-MAR-22
1,2-Dichloroethane			94.4		%		70-130	31-MAR-22
1,2-Dichloropropane			99.5		%		70-130	31-MAR-22
1,3-Dichlorobenzene			111.2		%		70-130	31-MAR-22
1,4-Dichlorobenzene			107.6		%		70-130	31-MAR-22
Acetone			98.4		%		60-140	31-MAR-22
Benzene			98.2		%		70-130	31-MAR-22
Bromodichloromethane			103.8		%		70-130	31-MAR-22
Bromoform			93.7		%		70-130	31-MAR-22
Bromomethane			100.6		%		60-140	31-MAR-22
Carbon tetrachloride			103.2		%		70-130	31-MAR-22
Chlorobenzene			98.4		%		70-130	31-MAR-22
Chloroform			98.7		%		70-130	31-MAR-22
cis-1,2-Dichloroethylene			98.4		%		70-130	31-MAR-22
cis-1,3-Dichloropropene			95.5		%		70-130	31-MAR-22
Dibromochloromethane			94.1		%		70-130	31-MAR-22
Dichlorodifluoromethane			129.0		%		50-140	31-MAR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 11 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Water						
Batch	R5752181							
WG3712037-1	LCS							
Ethylbenzene			100.9		%		70-130	31-MAR-22
n-Hexane			102.0		%		70-130	31-MAR-22
m+p-Xylenes			102.1		%		70-130	31-MAR-22
Methyl Ethyl Ketone			92.4		%		60-140	31-MAR-22
Methyl Isobutyl Ketone			96.3		%		60-140	31-MAR-22
Methylene Chloride			98.5		%		70-130	31-MAR-22
MTBE			99.7		%		70-130	31-MAR-22
o-Xylene			103.3		%		70-130	31-MAR-22
Styrene			102.0		%		70-130	31-MAR-22
Tetrachloroethylene			97.3		%		70-130	31-MAR-22
Toluene			96.8		%		70-130	31-MAR-22
trans-1,2-Dichloroethylene			103.5		%		70-130	31-MAR-22
trans-1,3-Dichloropropene			93.4		%		70-130	31-MAR-22
Trichloroethylene			102.6		%		70-130	31-MAR-22
Trichlorofluoromethane			105.7		%		60-140	31-MAR-22
Vinyl chloride			109.0		%		60-140	31-MAR-22
WG3712037-2	MB							
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	31-MAR-22
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	31-MAR-22
1,1,1-Trichloroethane			<0.50		ug/L		0.5	31-MAR-22
1,1,2-Trichloroethane			<0.50		ug/L		0.5	31-MAR-22
1,1-Dichloroethane			<0.50		ug/L		0.5	31-MAR-22
1,1-Dichloroethylene			<0.50		ug/L		0.5	31-MAR-22
1,2-Dibromoethane			<0.20		ug/L		0.2	31-MAR-22
1,2-Dichlorobenzene			<0.50		ug/L		0.5	31-MAR-22
1,2-Dichloroethane			<0.50		ug/L		0.5	31-MAR-22
1,2-Dichloropropane			<0.50		ug/L		0.5	31-MAR-22
1,3-Dichlorobenzene			<0.50		ug/L		0.5	31-MAR-22
1,4-Dichlorobenzene			<0.50		ug/L		0.5	31-MAR-22
Acetone			<30		ug/L		30	31-MAR-22
Benzene			<0.50		ug/L		0.5	31-MAR-22
Bromodichloromethane			<2.0		ug/L		2	31-MAR-22
Bromoform			<5.0		ug/L		5	31-MAR-22
Bromomethane			<0.50		ug/L		0.5	31-MAR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 12 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Water							
Batch	R5752181							
WG3712037-2 MB								
Carbon tetrachloride			<0.20		ug/L		0.2	31-MAR-22
Chlorobenzene			<0.50		ug/L		0.5	31-MAR-22
Chloroform			<1.0		ug/L		1	31-MAR-22
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	31-MAR-22
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	31-MAR-22
Dibromochloromethane			<2.0		ug/L		2	31-MAR-22
Dichlorodifluoromethane			<2.0		ug/L		2	31-MAR-22
Ethylbenzene			<0.50		ug/L		0.5	31-MAR-22
n-Hexane			<0.50		ug/L		0.5	31-MAR-22
m+p-Xylenes			<0.40		ug/L		0.4	31-MAR-22
Methyl Ethyl Ketone			<20		ug/L		20	31-MAR-22
Methyl Isobutyl Ketone			<20		ug/L		20	31-MAR-22
Methylene Chloride			<5.0		ug/L		5	31-MAR-22
MTBE			<2.0		ug/L		2	31-MAR-22
o-Xylene			<0.30		ug/L		0.3	31-MAR-22
Styrene			<0.50		ug/L		0.5	31-MAR-22
Tetrachloroethylene			<0.50		ug/L		0.5	31-MAR-22
Toluene			<0.50		ug/L		0.5	31-MAR-22
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	31-MAR-22
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	31-MAR-22
Trichloroethylene			<0.50		ug/L		0.5	31-MAR-22
Trichlorofluoromethane			<5.0		ug/L		5	31-MAR-22
Vinyl chloride			<0.50		ug/L		0.5	31-MAR-22
Surrogate: 1,4-Difluorobenzene			100.7		%		70-130	31-MAR-22
Surrogate: 4-Bromofluorobenzene			97.1		%		70-130	31-MAR-22
WG3712037-5 MS		WG3712037-3						
1,1,1,2-Tetrachloroethane			93.8		%		50-140	01-APR-22
1,1,2,2-Tetrachloroethane			101.9		%		50-140	01-APR-22
1,1,1-Trichloroethane			95.6		%		50-140	01-APR-22
1,1,2-Trichloroethane			91.7		%		50-140	01-APR-22
1,1-Dichloroethane			92.0		%		50-140	01-APR-22
1,1-Dichloroethylene			92.0		%		50-140	01-APR-22
1,2-Dibromoethane			89.8		%		50-140	01-APR-22
1,2-Dichlorobenzene			100.4		%		50-140	01-APR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 13 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Water							
Batch	R5752181							
WG3712037-5 MS		WG3712037-3						
1,2-Dichloroethane			92.9		%		50-140	01-APR-22
1,2-Dichloropropane			96.9		%		50-140	01-APR-22
1,3-Dichlorobenzene			105.8		%		50-140	01-APR-22
1,4-Dichlorobenzene			103.0		%		50-140	01-APR-22
Acetone			97.5		%		50-140	01-APR-22
Benzene			94.1		%		50-140	01-APR-22
Bromodichloromethane			100.8		%		50-140	01-APR-22
Bromoform			91.7		%		50-140	01-APR-22
Bromomethane			86.6		%		50-140	01-APR-22
Carbon tetrachloride			97.0		%		50-140	01-APR-22
Chlorobenzene			95.9		%		50-140	01-APR-22
Chloroform			95.8		%		50-140	01-APR-22
cis-1,2-Dichloroethylene			102.3		%		50-140	01-APR-22
cis-1,3-Dichloropropene			93.9		%		50-140	01-APR-22
Dibromochloromethane			91.7		%		50-140	01-APR-22
Dichlorodifluoromethane			78.1		%		50-140	01-APR-22
Ethylbenzene			97.3		%		50-140	01-APR-22
n-Hexane			89.0		%		50-140	01-APR-22
m+p-Xylenes			98.3		%		50-140	01-APR-22
Methyl Ethyl Ketone			94.0		%		50-140	01-APR-22
Methyl Isobutyl Ketone			96.4		%		50-140	01-APR-22
Methylene Chloride			94.8		%		50-140	01-APR-22
MTBE			95.3		%		50-140	01-APR-22
o-Xylene			99.6		%		50-140	01-APR-22
Styrene			97.1		%		50-140	01-APR-22
Tetrachloroethylene			93.6		%		50-140	01-APR-22
Toluene			94.5		%		50-140	01-APR-22
trans-1,2-Dichloroethylene			96.3		%		50-140	01-APR-22
trans-1,3-Dichloropropene			93.0		%		50-140	01-APR-22
Trichloroethylene			97.9		%		50-140	01-APR-22
Trichlorofluoromethane			90.9		%		50-140	01-APR-22
Vinyl chloride			84.6		%		50-140	01-APR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 14 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Water						
Batch	R5752302							
WG3712004-4	DUP	WG3712004-3						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	31-MAR-22
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	31-MAR-22
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	31-MAR-22
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	31-MAR-22
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	31-MAR-22
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	31-MAR-22
cis-1,2-Dichloroethylene		65.1	63.8		ug/L	2.1	30	31-MAR-22
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	31-MAR-22
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	31-MAR-22
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	31-MAR-22
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	31-MAR-22
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	31-MAR-22
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	31-MAR-22
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	31-MAR-22
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	31-MAR-22
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	31-MAR-22
Styrene		<0.50	<0.50		ug/L			31-MAR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 15 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Water						
Batch	R5752302							
WG3712004-4	DUP	WG3712004-3						
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
trans-1,2-Dichloroethylene		4.38	4.13		ug/L	5.9	30	31-MAR-22
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	31-MAR-22
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	31-MAR-22
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	31-MAR-22
WG3712004-1	LCS							
1,1,1,2-Tetrachloroethane			108.5		%		70-130	31-MAR-22
1,1,2,2-Tetrachloroethane			107.7		%		70-130	31-MAR-22
1,1,1-Trichloroethane			111.1		%		70-130	31-MAR-22
1,1,2-Trichloroethane			110.0		%		70-130	31-MAR-22
1,1-Dichloroethane			111.3		%		70-130	31-MAR-22
1,1-Dichloroethylene			107.3		%		70-130	31-MAR-22
1,2-Dibromoethane			107.3		%		70-130	31-MAR-22
1,2-Dichlorobenzene			106.4		%		70-130	31-MAR-22
1,2-Dichloroethane			108.6		%		70-130	31-MAR-22
1,2-Dichloropropane			110.4		%		70-130	31-MAR-22
1,3-Dichlorobenzene			103.5		%		70-130	31-MAR-22
1,4-Dichlorobenzene			102.7		%		70-130	31-MAR-22
Acetone			108.9		%		60-140	31-MAR-22
Benzene			107.0		%		70-130	31-MAR-22
Bromodichloromethane			114.9		%		70-130	31-MAR-22
Bromoform			109.5		%		70-130	31-MAR-22
Bromomethane			111.1		%		60-140	31-MAR-22
Carbon tetrachloride			111.8		%		70-130	31-MAR-22
Chlorobenzene			109.5		%		70-130	31-MAR-22
Chloroform			111.2		%		70-130	31-MAR-22
cis-1,2-Dichloroethylene			112.0		%		70-130	31-MAR-22
cis-1,3-Dichloropropene			108.0		%		70-130	31-MAR-22
Dibromochloromethane			106.4		%		70-130	31-MAR-22
Dichlorodifluoromethane			117.3		%		50-140	31-MAR-22
Ethylbenzene			105.2		%		70-130	31-MAR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 16 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Water						
Batch	R5752302							
WG3712004-1	LCS							
n-Hexane			101.4		%		70-130	31-MAR-22
m+p-Xylenes			104.5		%		70-130	31-MAR-22
Methyl Ethyl Ketone			109.1		%		60-140	31-MAR-22
Methyl Isobutyl Ketone			102.0		%		60-140	31-MAR-22
Methylene Chloride			114.4		%		70-130	31-MAR-22
MTBE			99.95		%		70-130	31-MAR-22
o-Xylene			106.0		%		70-130	31-MAR-22
Styrene			99.5		%		70-130	31-MAR-22
Tetrachloroethylene			103.9		%		70-130	31-MAR-22
Toluene			104.5		%		70-130	31-MAR-22
trans-1,2-Dichloroethylene			105.9		%		70-130	31-MAR-22
trans-1,3-Dichloropropene			104.2		%		70-130	31-MAR-22
Trichlorofluoromethane			109.0		%		60-140	31-MAR-22
Vinyl chloride			101.0		%		60-140	31-MAR-22
WG3712004-2	MB							
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	31-MAR-22
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	31-MAR-22
1,1,1-Trichloroethane			<0.50		ug/L		0.5	31-MAR-22
1,1,2-Trichloroethane			<0.50		ug/L		0.5	31-MAR-22
1,1-Dichloroethane			<0.50		ug/L		0.5	31-MAR-22
1,1-Dichloroethylene			<0.50		ug/L		0.5	31-MAR-22
1,2-Dibromoethane			<0.20		ug/L		0.2	31-MAR-22
1,2-Dichlorobenzene			<0.50		ug/L		0.5	31-MAR-22
1,2-Dichloroethane			<0.50		ug/L		0.5	31-MAR-22
1,2-Dichloropropane			<0.50		ug/L		0.5	31-MAR-22
1,3-Dichlorobenzene			<0.50		ug/L		0.5	31-MAR-22
1,4-Dichlorobenzene			<0.50		ug/L		0.5	31-MAR-22
Acetone			<30		ug/L		30	31-MAR-22
Benzene			<0.50		ug/L		0.5	31-MAR-22
Bromodichloromethane			<2.0		ug/L		2	31-MAR-22
Bromoform			<5.0		ug/L		5	31-MAR-22
Bromomethane			<0.50		ug/L		0.5	31-MAR-22
Carbon tetrachloride			<0.20		ug/L		0.2	31-MAR-22
Chlorobenzene			<0.50		ug/L		0.5	31-MAR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 17 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Water						
Batch	R5752302							
WG3712004-2 MB								
Chloroform			<1.0		ug/L		1	31-MAR-22
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	31-MAR-22
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	31-MAR-22
Dibromochloromethane			<2.0		ug/L		2	31-MAR-22
Dichlorodifluoromethane			<2.0		ug/L		2	31-MAR-22
Ethylbenzene			<0.50		ug/L		0.5	31-MAR-22
n-Hexane			<0.50		ug/L		0.5	31-MAR-22
m+p-Xylenes			<0.40		ug/L		0.4	31-MAR-22
Methyl Ethyl Ketone			<20		ug/L		20	31-MAR-22
Methyl Isobutyl Ketone			<20		ug/L		20	31-MAR-22
Methylene Chloride			<5.0		ug/L		5	31-MAR-22
MTBE			<2.0		ug/L		2	31-MAR-22
o-Xylene			<0.30		ug/L		0.3	31-MAR-22
Styrene			<0.50		ug/L		0.5	31-MAR-22
Tetrachloroethylene			<0.50		ug/L		0.5	31-MAR-22
Toluene			<0.50		ug/L		0.5	31-MAR-22
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	31-MAR-22
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	31-MAR-22
Trichlorofluoromethane			<5.0		ug/L		5	31-MAR-22
Vinyl chloride			<0.50		ug/L		0.5	31-MAR-22
Surrogate: 1,4-Difluorobenzene			100.6		%		70-130	31-MAR-22
Surrogate: 4-Bromofluorobenzene			100.5		%		70-130	31-MAR-22
WG3712004-5 MS		WG3712004-3						
1,1,1,2-Tetrachloroethane			90.7		%		50-140	31-MAR-22
1,1,1,2,2-Tetrachloroethane			92.5		%		50-140	31-MAR-22
1,1,1-Trichloroethane			86.4		%		50-140	31-MAR-22
1,1,2-Trichloroethane			94.5		%		50-140	31-MAR-22
1,1-Dichloroethane			89.9		%		50-140	31-MAR-22
1,1-Dichloroethylene			84.7		%		50-140	31-MAR-22
1,2-Dibromoethane			92.9		%		50-140	31-MAR-22
1,2-Dichlorobenzene			91.4		%		50-140	31-MAR-22
1,2-Dichloroethane			90.2		%		50-140	31-MAR-22
1,2-Dichloropropane			90.2		%		50-140	31-MAR-22
1,3-Dichlorobenzene			87.0		%		50-140	31-MAR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 18 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Water							
Batch	R5752302							
WG3712004-5 MS		WG3712004-3						
1,4-Dichlorobenzene			86.4		%		50-140	31-MAR-22
Acetone			92.2		%		50-140	31-MAR-22
Benzene			86.0		%		50-140	31-MAR-22
Bromodichloromethane			93.5		%		50-140	31-MAR-22
Bromoform			94.4		%		50-140	31-MAR-22
Bromomethane			88.2		%		50-140	31-MAR-22
Carbon tetrachloride			87.7		%		50-140	31-MAR-22
Chlorobenzene			90.3		%		50-140	31-MAR-22
Chloroform			89.8		%		50-140	31-MAR-22
cis-1,2-Dichloroethylene			91.5		%		50-140	31-MAR-22
cis-1,3-Dichloropropene			84.6		%		50-140	31-MAR-22
Dibromochloromethane			90.5		%		50-140	31-MAR-22
Dichlorodifluoromethane			91.0		%		50-140	31-MAR-22
Ethylbenzene			85.1		%		50-140	31-MAR-22
n-Hexane			79.1		%		50-140	31-MAR-22
m+p-Xylenes			84.5		%		50-140	31-MAR-22
Methyl Ethyl Ketone			93.6		%		50-140	31-MAR-22
Methyl Isobutyl Ketone			85.5		%		50-140	31-MAR-22
Methylene Chloride			94.0		%		50-140	31-MAR-22
MTBE			88.7		%		50-140	31-MAR-22
o-Xylene			86.7		%		50-140	31-MAR-22
Styrene			82.0		%		50-140	31-MAR-22
Tetrachloroethylene			83.3		%		50-140	31-MAR-22
Toluene			85.9		%		50-140	31-MAR-22
trans-1,2-Dichloroethylene			82.7		%		50-140	31-MAR-22
trans-1,3-Dichloropropene			84.2		%		50-140	31-MAR-22
Trichlorofluoromethane			85.3		%		50-140	31-MAR-22
Vinyl chloride			79.9		%		50-140	31-MAR-22
Batch	R5752504							
WG3712471-4 DUP		WG3712471-3						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,1,2-Trichloroethane		<0.50	<0.50					



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 19 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Water						
Batch	R5752504							
WG3712471-4	DUP	WG3712471-3						
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	01-APR-22
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-APR-22
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	01-APR-22
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	01-APR-22
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
Chloroform		1.6	1.6		ug/L	0.6	30	01-APR-22
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	01-APR-22
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-APR-22
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-APR-22
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	01-APR-22
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	01-APR-22
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	01-APR-22
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	01-APR-22
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-APR-22
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	01-APR-22
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
trans-1,3-Dichloropropene		<0.30	<0.30		ug/L			01-APR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 20 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Water						
Batch	R5752504							
WG3712471-4	DUP	WG3712471-3						
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	01-APR-22
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	01-APR-22
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-APR-22
WG3712471-1	LCS							
1,1,1,2-Tetrachloroethane			96.9		%		70-130	01-APR-22
1,1,1,2,2-Tetrachloroethane			95.3		%		70-130	01-APR-22
1,1,1-Trichloroethane			95.3		%		70-130	01-APR-22
1,1,2-Trichloroethane			95.1		%		70-130	01-APR-22
1,1-Dichloroethane			95.1		%		70-130	01-APR-22
1,1-Dichloroethylene			93.0		%		70-130	01-APR-22
1,2-Dibromoethane			91.2		%		70-130	01-APR-22
1,2-Dichlorobenzene			96.7		%		70-130	01-APR-22
1,2-Dichloroethane			100.4		%		70-130	01-APR-22
1,2-Dichloropropane			102.5		%		70-130	01-APR-22
1,3-Dichlorobenzene			98.5		%		70-130	01-APR-22
1,4-Dichlorobenzene			99.4		%		70-130	01-APR-22
Acetone			97.8		%		60-140	01-APR-22
Benzene			92.8		%		70-130	01-APR-22
Bromodichloromethane			108.0		%		70-130	01-APR-22
Bromoform			100.5		%		70-130	01-APR-22
Bromomethane			89.6		%		60-140	01-APR-22
Carbon tetrachloride			106.2		%		70-130	01-APR-22
Chlorobenzene			93.8		%		70-130	01-APR-22
Chloroform			97.1		%		70-130	01-APR-22
cis-1,2-Dichloroethylene			91.5		%		70-130	01-APR-22
cis-1,3-Dichloropropene			96.2		%		70-130	01-APR-22
Dibromochloromethane			98.1		%		70-130	01-APR-22
Dichlorodifluoromethane			77.1		%		50-140	01-APR-22
Ethylbenzene			87.0		%		70-130	01-APR-22
n-Hexane			90.2		%		70-130	01-APR-22
m+p-Xylenes			92.0		%		70-130	01-APR-22
Methyl Ethyl Ketone			88.5		%		60-140	01-APR-22
Methyl Isobutyl Ketone			77.3				60-140	



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 21 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Water						
Batch	R5752504							
WG3712471-1	LCS							
Methyl Isobutyl Ketone			77.3		%		60-140	01-APR-22
Methylene Chloride			98.0		%		70-130	01-APR-22
MTBE			95.9		%		70-130	01-APR-22
o-Xylene			85.8		%		70-130	01-APR-22
Styrene			83.9		%		70-130	01-APR-22
Tetrachloroethylene			97.3		%		70-130	01-APR-22
Toluene			86.9		%		70-130	01-APR-22
trans-1,2-Dichloroethylene			97.6		%		70-130	01-APR-22
trans-1,3-Dichloropropene			88.6		%		70-130	01-APR-22
Trichloroethylene			106.1		%		70-130	01-APR-22
Trichlorofluoromethane			92.5		%		60-140	01-APR-22
Vinyl chloride			84.4		%		60-140	01-APR-22
WG3712471-2	MB							
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	01-APR-22
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	01-APR-22
1,1,1-Trichloroethane			<0.50		ug/L		0.5	01-APR-22
1,1,2-Trichloroethane			<0.50		ug/L		0.5	01-APR-22
1,1-Dichloroethane			<0.50		ug/L		0.5	01-APR-22
1,1-Dichloroethylene			<0.50		ug/L		0.5	01-APR-22
1,2-Dibromoethane			<0.20		ug/L		0.2	01-APR-22
1,2-Dichlorobenzene			<0.50		ug/L		0.5	01-APR-22
1,2-Dichloroethane			<0.50		ug/L		0.5	01-APR-22
1,2-Dichloropropane			<0.50		ug/L		0.5	01-APR-22
1,3-Dichlorobenzene			<0.50		ug/L		0.5	01-APR-22
1,4-Dichlorobenzene			<0.50		ug/L		0.5	01-APR-22
Acetone			<30		ug/L		30	01-APR-22
Benzene			<0.50		ug/L		0.5	01-APR-22
Bromodichloromethane			<2.0		ug/L		2	01-APR-22
Bromoform			<5.0		ug/L		5	01-APR-22
Bromomethane			<0.50		ug/L		0.5	01-APR-22
Carbon tetrachloride			<0.20		ug/L		0.2	01-APR-22
Chlorobenzene			<0.50		ug/L		0.5	01-APR-22
Chloroform			<1.0		ug/L		1	01-APR-22
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	01-APR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 22 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Water							
Batch	R5752504							
WG3712471-2 MB								
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	01-APR-22
Dibromochloromethane			<2.0		ug/L		2	01-APR-22
Dichlorodifluoromethane			<2.0		ug/L		2	01-APR-22
Ethylbenzene			<0.50		ug/L		0.5	01-APR-22
n-Hexane			<0.50		ug/L		0.5	01-APR-22
m+p-Xylenes			<0.40		ug/L		0.4	01-APR-22
Methyl Ethyl Ketone			<20		ug/L		20	01-APR-22
Methyl Isobutyl Ketone			<20		ug/L		20	01-APR-22
Methylene Chloride			<5.0		ug/L		5	01-APR-22
MTBE			<2.0		ug/L		2	01-APR-22
o-Xylene			<0.30		ug/L		0.3	01-APR-22
Styrene			<0.50		ug/L		0.5	01-APR-22
Tetrachloroethylene			<0.50		ug/L		0.5	01-APR-22
Toluene			<0.50		ug/L		0.5	01-APR-22
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	01-APR-22
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	01-APR-22
Trichloroethylene			<0.50		ug/L		0.5	01-APR-22
Trichlorofluoromethane			<5.0		ug/L		5	01-APR-22
Vinyl chloride			<0.50		ug/L		0.5	01-APR-22
Surrogate: 1,4-Difluorobenzene			101.5		%		70-130	01-APR-22
Surrogate: 4-Bromofluorobenzene			95.8		%		70-130	01-APR-22
WG3712471-5 MS		WG3712471-3						
1,1,1,2-Tetrachloroethane			95.6		%		50-140	01-APR-22
1,1,2,2-Tetrachloroethane			91.8		%		50-140	01-APR-22
1,1,1-Trichloroethane			91.8		%		50-140	01-APR-22
1,1,2-Trichloroethane			98.4		%		50-140	01-APR-22
1,1-Dichloroethane			94.4		%		50-140	01-APR-22
1,1-Dichloroethylene			86.0		%		50-140	01-APR-22
1,2-Dibromoethane			95.6		%		50-140	01-APR-22
1,2-Dichlorobenzene			94.7		%		50-140	01-APR-22
1,2-Dichloroethane			103.8		%		50-140	01-APR-22
1,2-Dichloropropane			103.1		%		50-140	01-APR-22
1,3-Dichlorobenzene			94.3		%		50-140	01-APR-22
1,4-Dichlorobenzene			95.2		%		50-140	01-APR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 23 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Water							
Batch	R5752504							
WG3712471-5	MS	WG3712471-3						
Acetone			N/A	MS-B	%		-	01-APR-22
Benzene			91.0		%		50-140	01-APR-22
Bromodichloromethane			112.0		%		50-140	01-APR-22
Bromoform			104.1		%		50-140	01-APR-22
Bromomethane			83.4		%		50-140	01-APR-22
Carbon tetrachloride			100.9		%		50-140	01-APR-22
Chlorobenzene			92.0		%		50-140	01-APR-22
Chloroform			96.5		%		50-140	01-APR-22
cis-1,2-Dichloroethylene			90.6		%		50-140	01-APR-22
cis-1,3-Dichloropropene			94.7		%		50-140	01-APR-22
Dibromochloromethane			99.9		%		50-140	01-APR-22
Dichlorodifluoromethane			65.8		%		50-140	01-APR-22
Ethylbenzene			83.1		%		50-140	01-APR-22
n-Hexane			84.1		%		50-140	01-APR-22
m+p-Xylenes			87.7		%		50-140	01-APR-22
Methyl Ethyl Ketone			92.7		%		50-140	01-APR-22
Methyl Isobutyl Ketone			85.4		%		50-140	01-APR-22
Methylene Chloride			98.8		%		50-140	01-APR-22
MTBE			94.1		%		50-140	01-APR-22
o-Xylene			82.7		%		50-140	01-APR-22
Styrene			80.0		%		50-140	01-APR-22
Tetrachloroethylene			91.3		%		50-140	01-APR-22
Toluene			83.8		%		50-140	01-APR-22
trans-1,2-Dichloroethylene			94.5		%		50-140	01-APR-22
trans-1,3-Dichloropropene			89.5		%		50-140	01-APR-22
Trichloroethylene			108.4		%		50-140	01-APR-22
Trichlorofluoromethane			84.6		%		50-140	01-APR-22
Vinyl chloride			76.7		%		50-140	01-APR-22
Batch	R5752811							
WG3712600-4	DUP	WG3712600-3						
Benzene			<0.50	RPD-NA	ug/L	N/A	30	04-APR-22
Chloroform			<1.0	RPD-NA	ug/L	N/A	30	04-APR-22
WG3712600-1	LCS							
Benzene			107.9		%		70-130	01-APR-22



Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

Page 24 of 26

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

Contact: Nicholas Piers

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Water							
Batch	R5752811							
WG3712600-1	LCS							
Chloroform			109.0		%		70-130	01-APR-22
WG3712600-2	MB							
Benzene			<0.50		ug/L		0.5	01-APR-22
Chloroform			<1.0		ug/L		1	01-APR-22
WG3712600-5	MS	L2696056-1						
Benzene			101.1		%		50-140	04-APR-22
Chloroform			104.6		%		50-140	04-APR-22

Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

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

Page 25 of 26

Contact: Nicholas Piers

Legend:

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

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2694751

Report Date: 04-APR-22

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

Page 26 of 26

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	24-MAR-22	29-MAR-22 00:00	4	5	days	EHT
	2	24-MAR-22	29-MAR-22 00:00	4	5	days	EHT
	3	22-MAR-22	29-MAR-22 00:00	4	7	days	EHT
	4	23-MAR-22	29-MAR-22 00:00	4	6	days	EHT
	5	23-MAR-22	29-MAR-22 00:00	4	6	days	EHT
	6	23-MAR-22	29-MAR-22 00:00	4	6	days	EHT
	7	23-MAR-22	29-MAR-22 00:00	4	6	days	EHT
	8	24-MAR-22	29-MAR-22 00:00	4	5	days	EHT
	9	24-MAR-22	29-MAR-22 00:00	4	5	days	EHT
	10	24-MAR-22	29-MAR-22 00:00	4	5	days	EHT
	11	23-MAR-22	29-MAR-22 00:00	4	6	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2694751 were received on 25-MAR-22 10:00.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

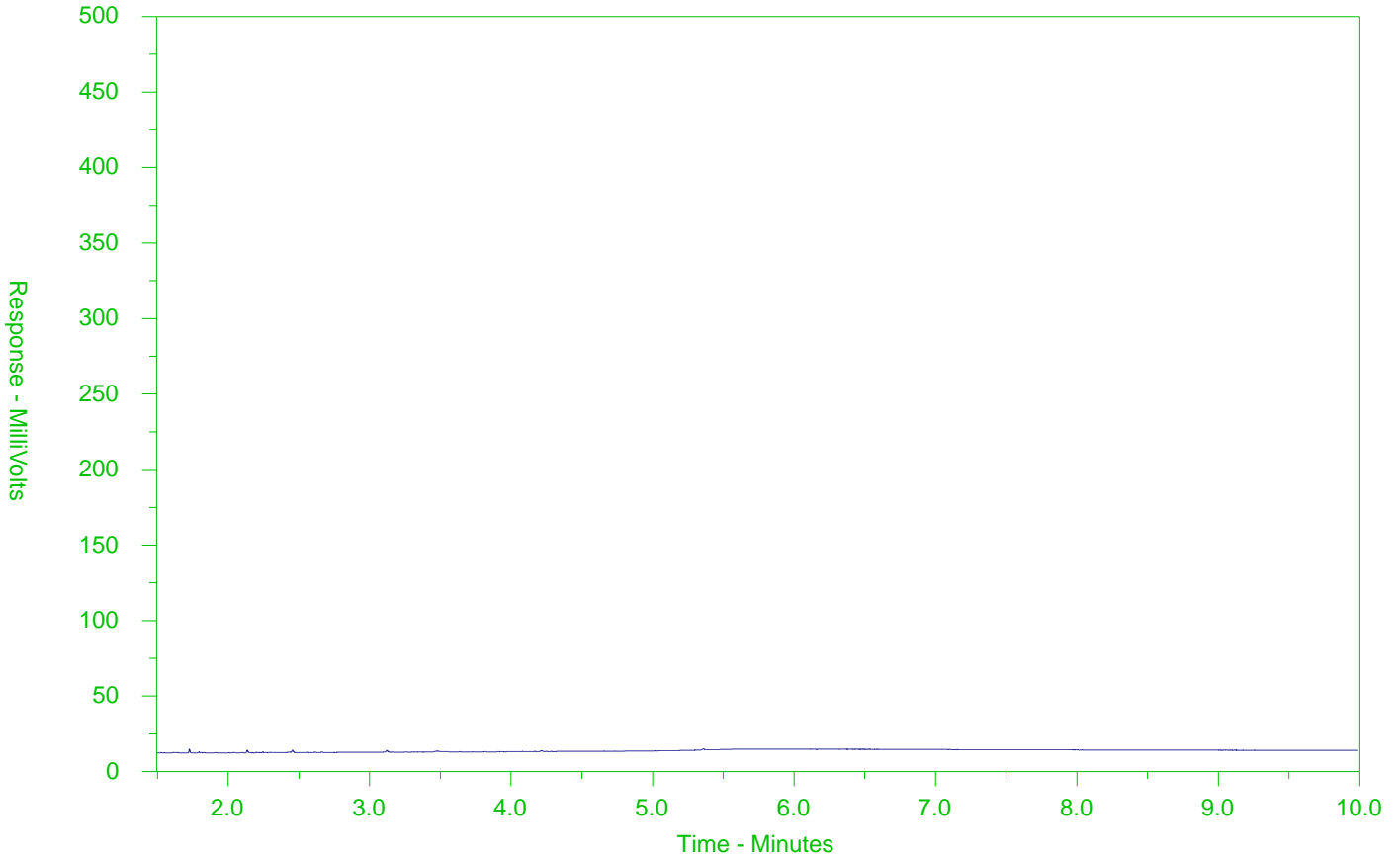
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2694751-1
 Client Sample ID: BH201



← 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.

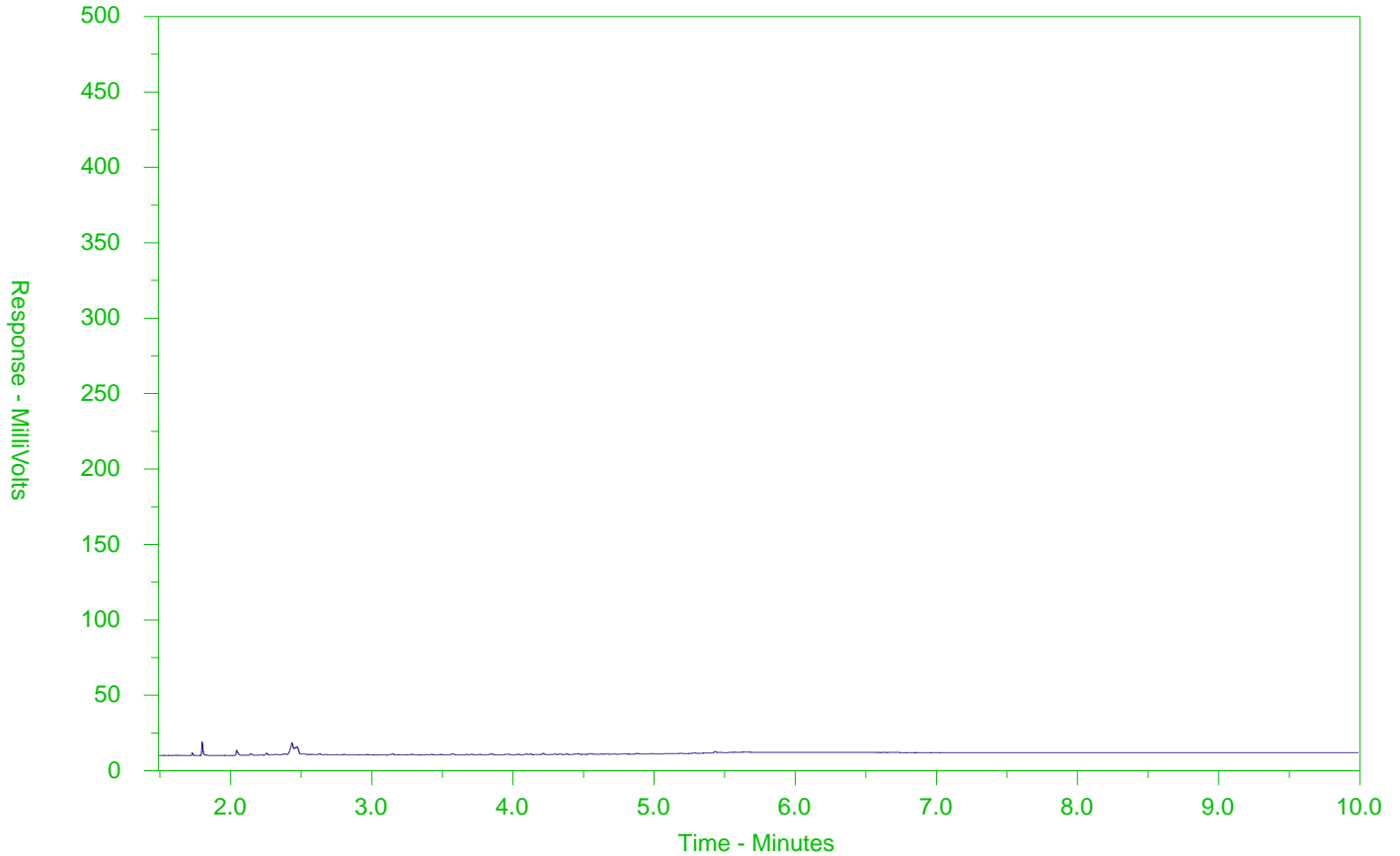
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2694751-2
 Client Sample ID: BH202



← 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.

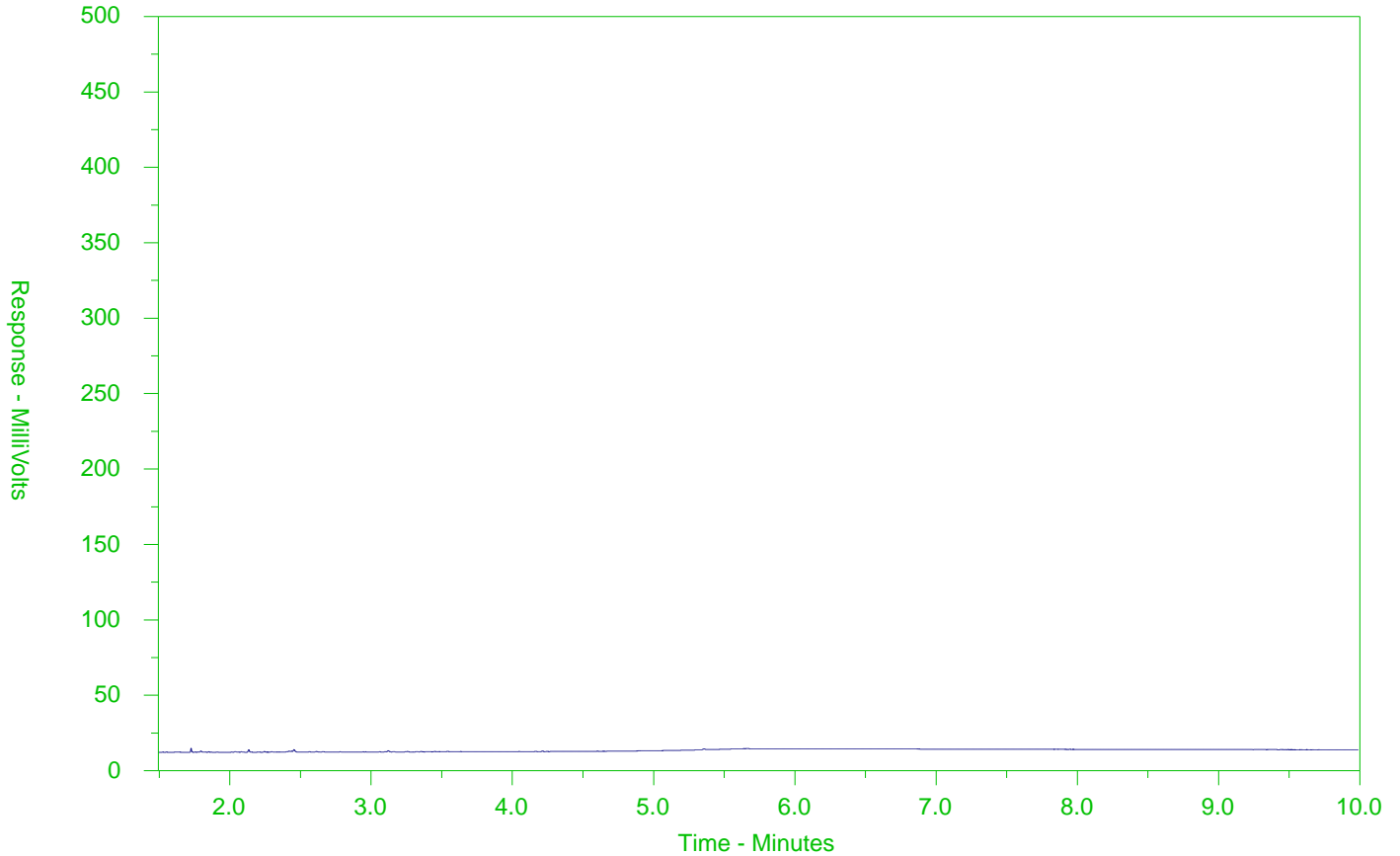
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2694751-3
 Client Sample ID: BH203



← 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.

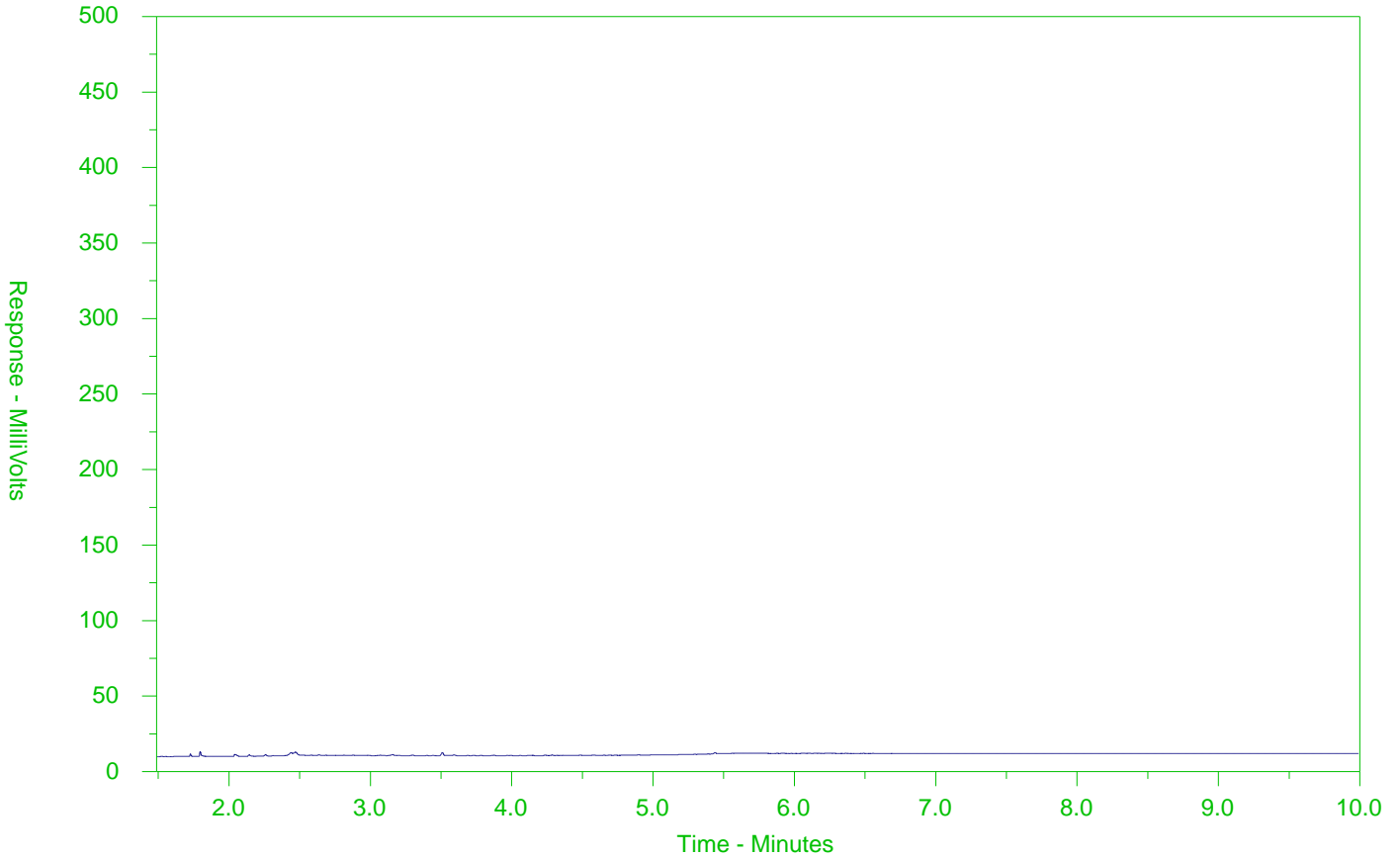
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2694751-4
 Client Sample ID: BH204



← 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.

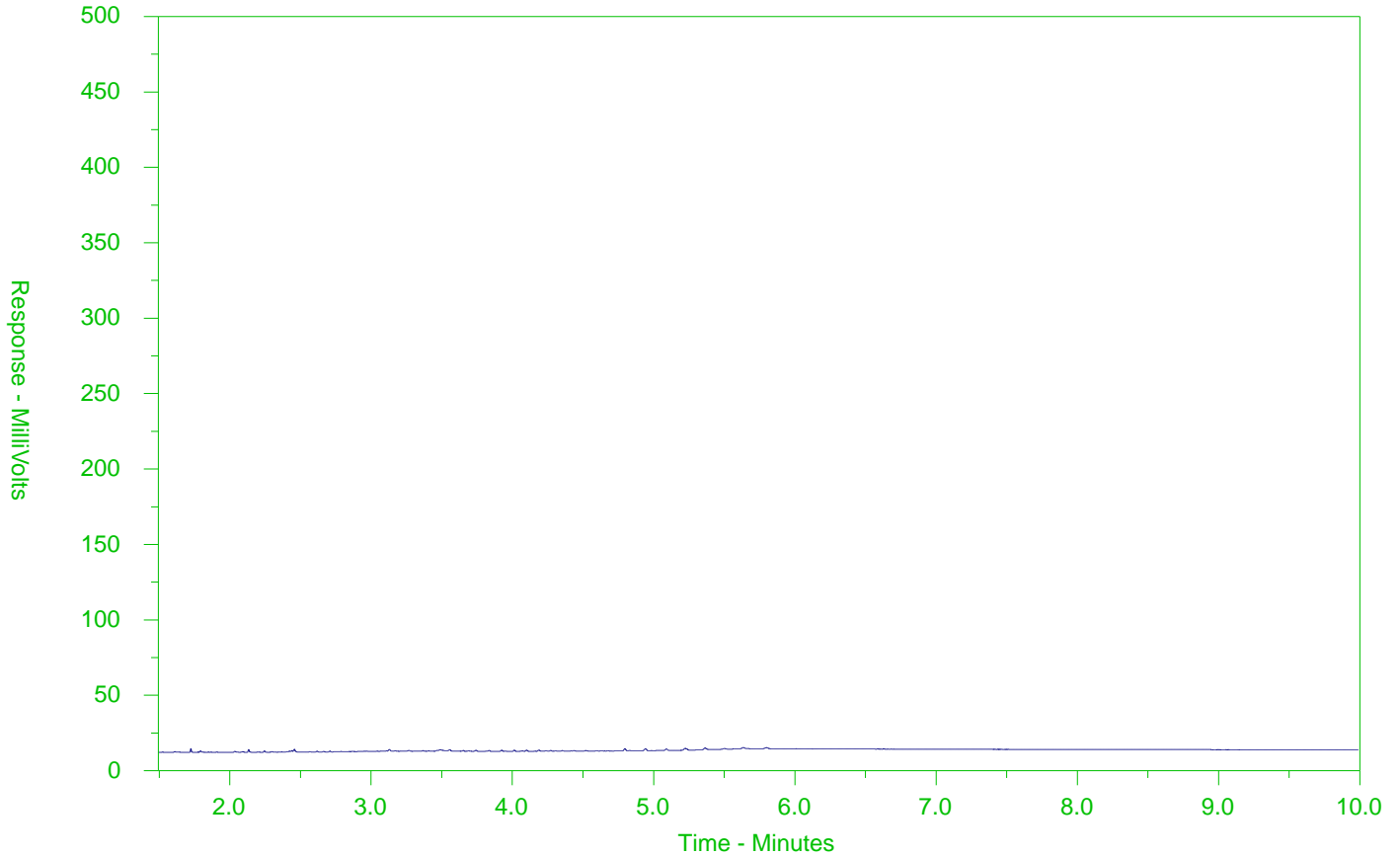
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2694751-5
 Client Sample ID: BH205



← 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.

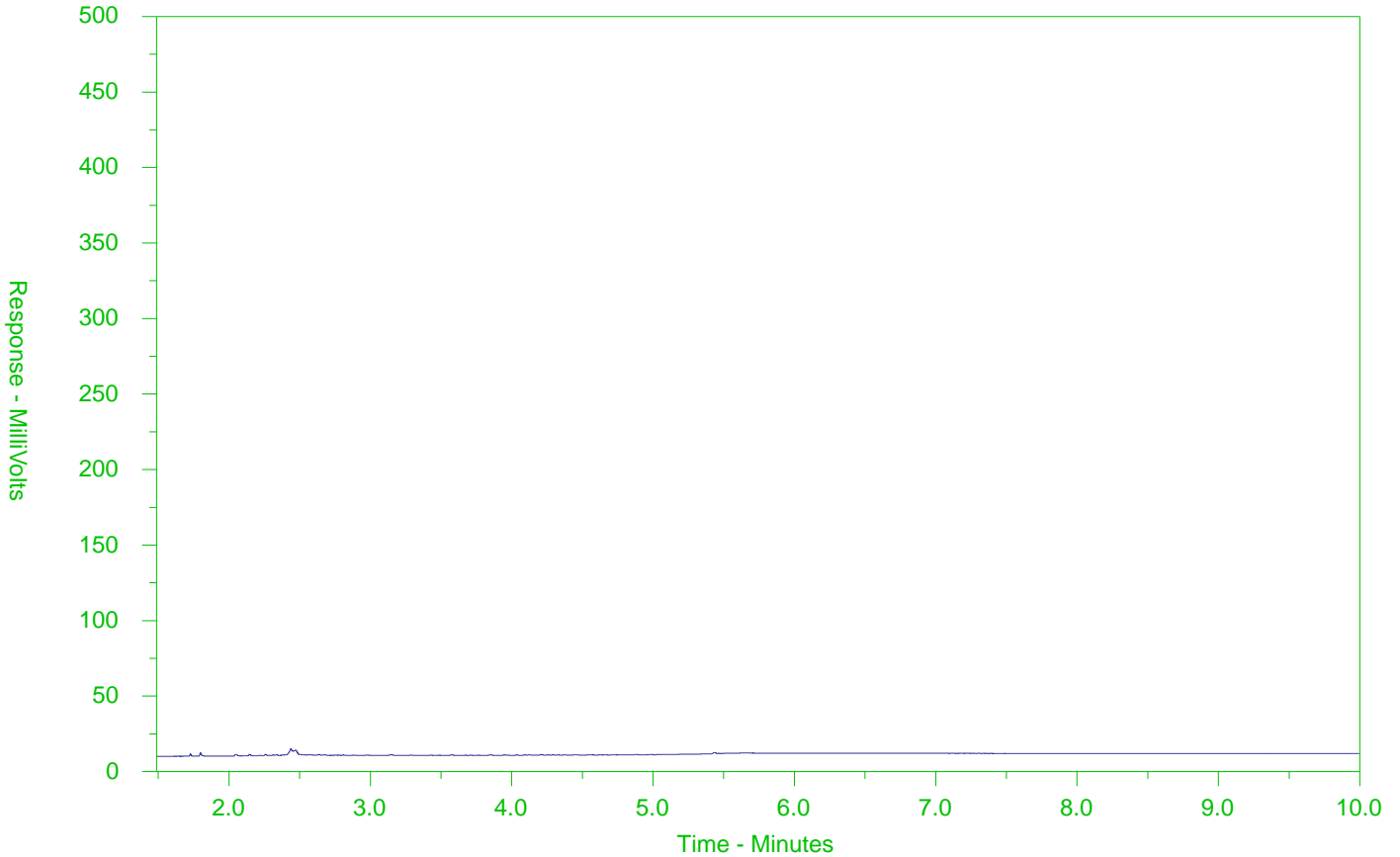
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2694751-6
 Client Sample ID: BH206



← 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.

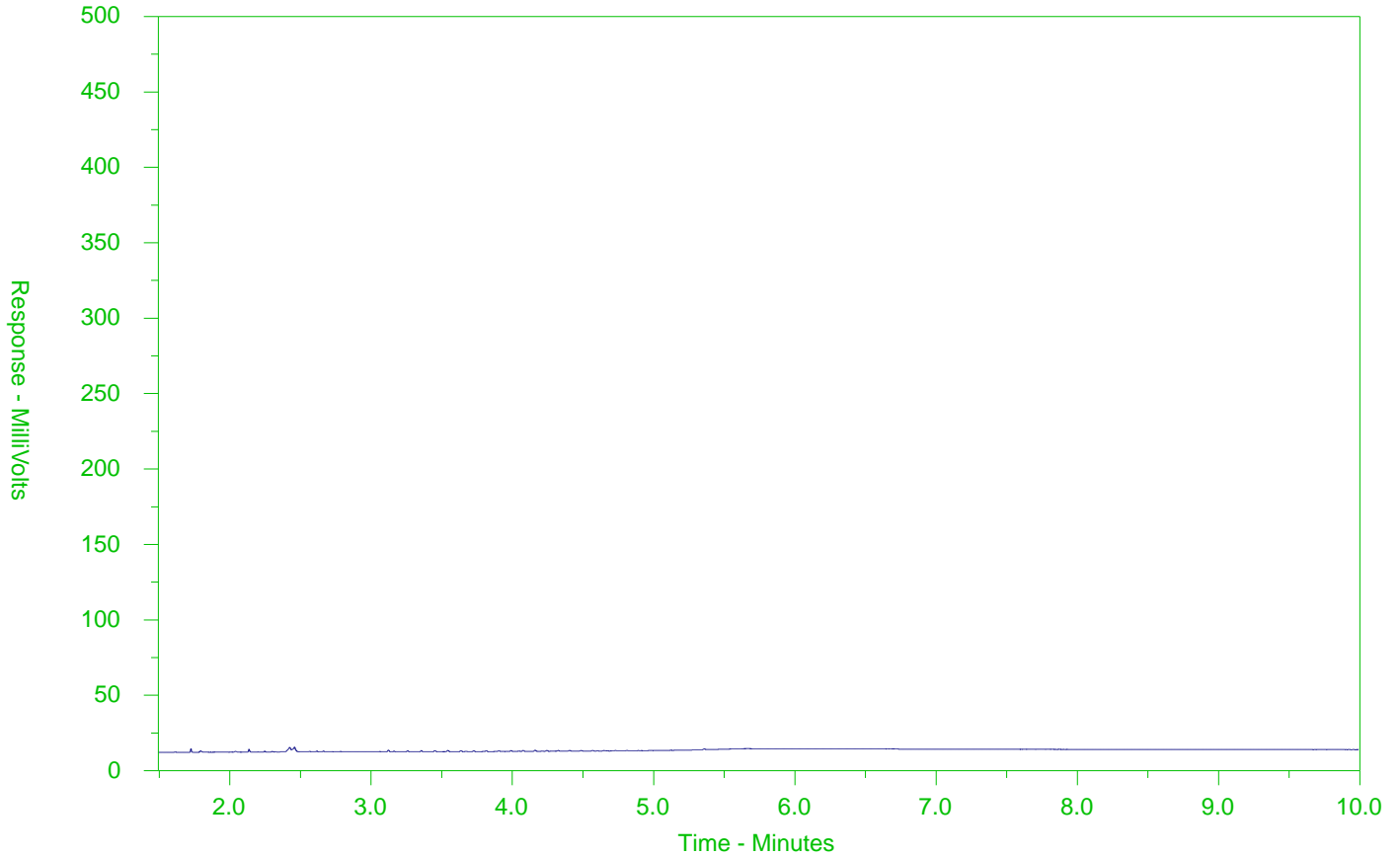
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2694751-7
 Client Sample ID: BH207



← 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.

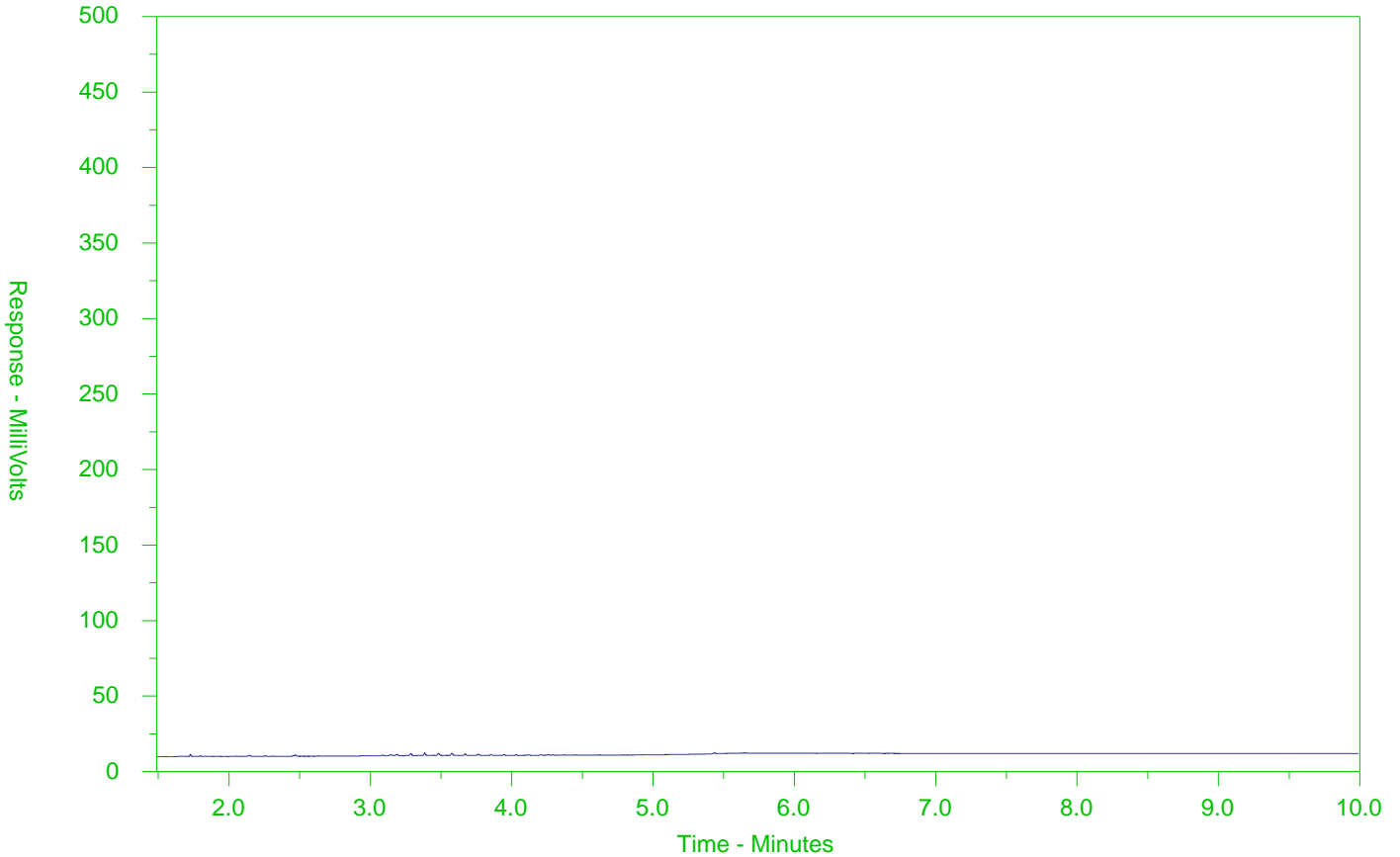
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2694751-8
 Client Sample ID: BH101



← 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.

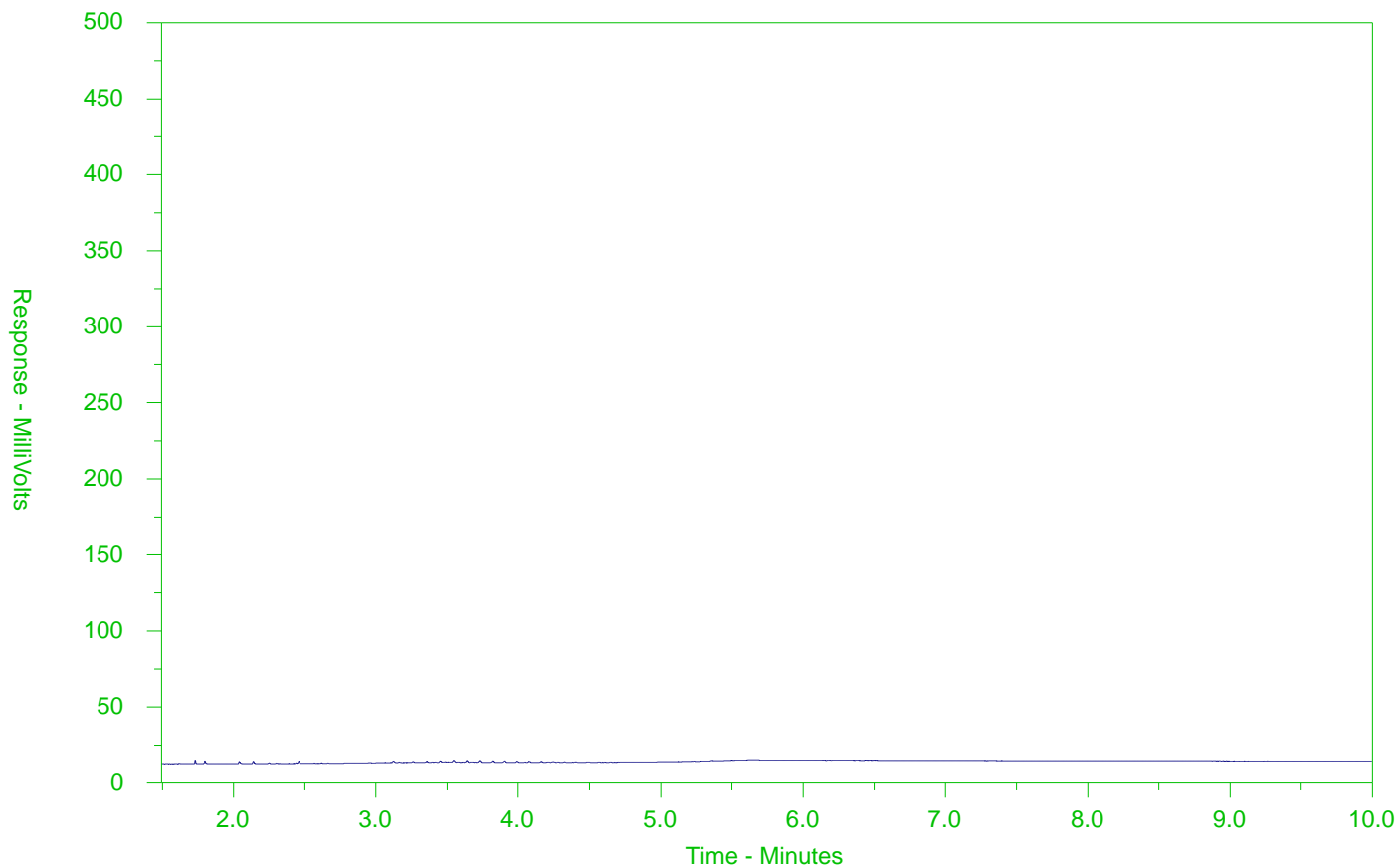
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2694751-9
 Client Sample ID: BH102



← 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.

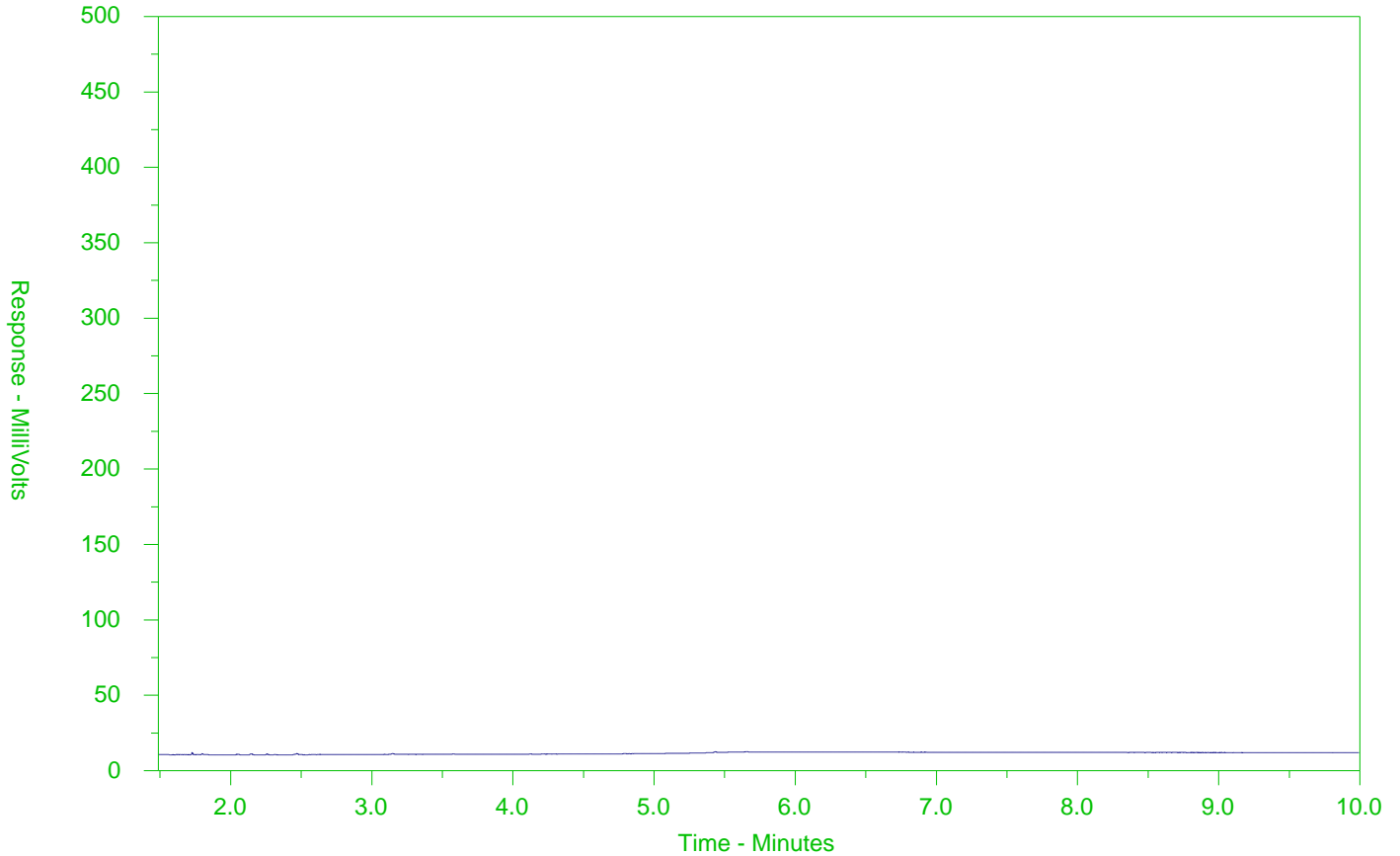
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2694751-10
 Client Sample ID: BH103



← 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.

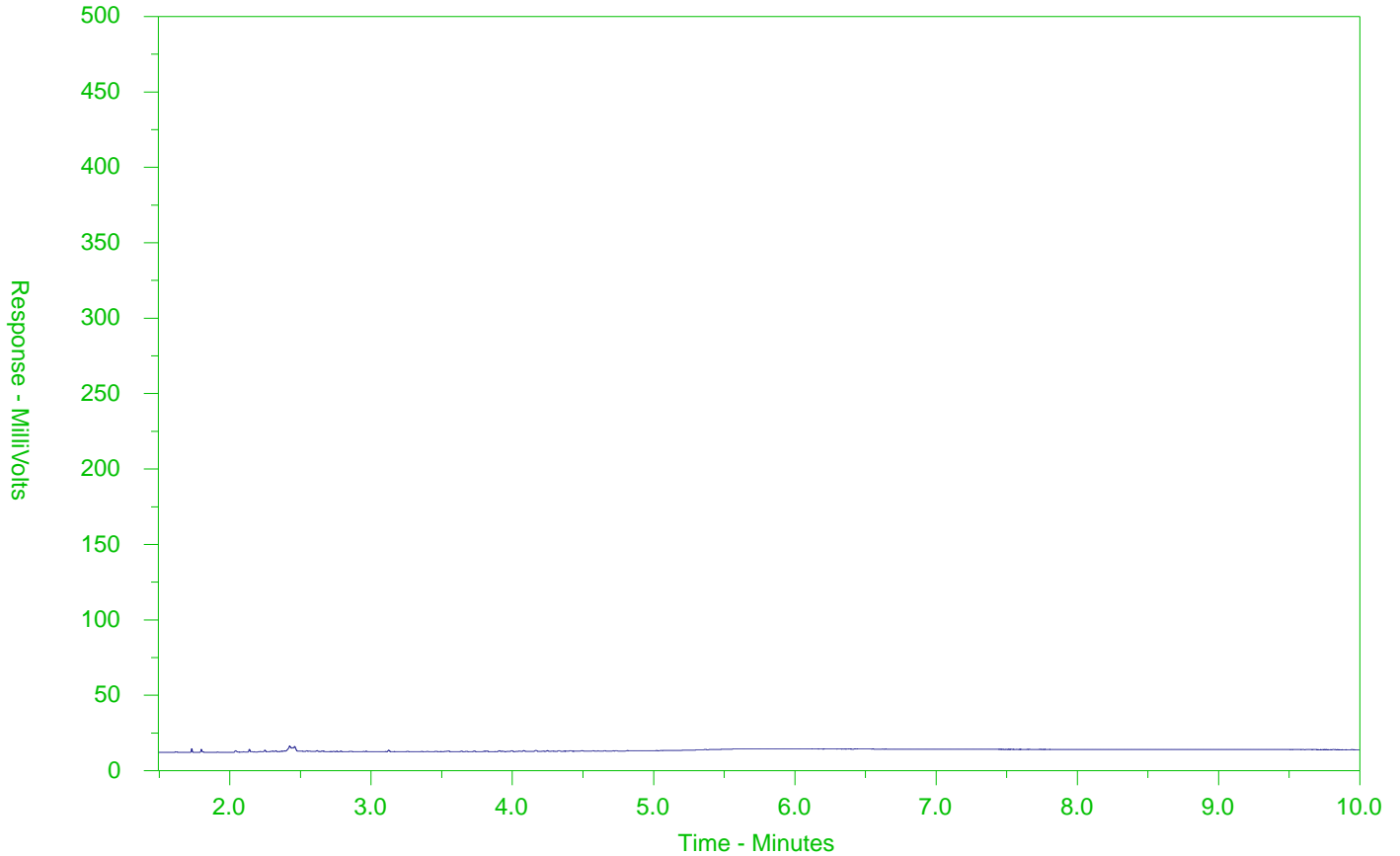
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2694751-11
 Client Sample ID: DUP 1



← 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

Cha



L2694751-COFC

COC Number: 20 - 954703

Page 1 of 1

16

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Company: GROUNDING ENGINEERING		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> BDD (DIGITAL)			<input checked="" type="checkbox"/> Routine [R] if received by 3pm M-F - no surcharges apply <input type="checkbox"/> 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum <input type="checkbox"/> 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum <input type="checkbox"/> 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum <input type="checkbox"/> 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum <input type="checkbox"/> 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																																																																									
Contact: NICHOLAS PIERS		Merge QC/QCI Reports with COA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A			<input checked="" type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX																																																																									
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Street: 1 KANIGAN DR		Email 2:			Analysis Request																																																																									
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		BH201			24-MAR-22				GW																																																																					
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		BH101			24-MAR-22				GW																																																																					
		BH102			24-MAR-22				GW																																																																					
		BH103			24-MAR-22				GW																																																																					
		DUP 1			23-MAR-22				GW																																																																					
		Trip blank																																																																												
Drinking Water (DW) Samples (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? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Compare to OREG 153/04 for both Table 3, RPI, Coarse Textured Soils Regular TAT, RSC = Yes			Cooling Method: <input type="checkbox"/> NONE <input type="checkbox"/> ICE <input checked="" type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED																																																																									
Are samples for human consumption use? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> YES <input type="checkbox"/> NO																																																																									
		Cooler Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A Sample Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A																																																																												
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Released by: <i>Alexander Johnson</i>		Date: 24-MAR-22		Time: 19:30		Received by:		Date:		Time:		Received by:		Date:		Time:																																																														

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

ALS 2022 FORM

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.

APPENDIX F





PHASE TWO CONCEPTUAL SITE MODEL

**60 Dundas Street East
Mississauga, Ontario**

PREPARED FOR:

ACLP – Dundas St E
25 Watline Ave. Suite 501
Mississauga ON, L4Z 2Z1

ATTENTION:

Spencer Shafran

Grounded Engineering Inc.

File No. 21-067

Issued December 6, 2022



TABLE OF CONTENTS

1	INTRODUCTION	1
1.1	SITE DESCRIPTION	1
1.2	PROPERTY OWNERSHIP.....	1
1.3	SUMMARY OF PREVIOUS INVESTIGATIONS.....	1
2	INFORMATION FROM THE PHASE ONE ENVIRONMENTAL SITE ASSESSMENT	5
2.1	AREAS WHERE POTENTIAL CONTAMINATING ACTIVITY HAS OCCURRED.....	5
2.2	AREAS OF POTENTIAL ENVIRONMENTAL CONCERN.....	12
2.3	SUBSURFACE STRUCTURES AND UTILITIES	13
3	PHYSICAL SETTING OF THE PHASE TWO PROPERTY	14
3.1	STRATIGRAPHY	14
3.1.1	Geological Unit Thickness.....	14
3.1.2	Elevations of Geological Units.....	14
3.1.3	Material in Geological Units.....	15
3.2	APPROXIMATE DEPTH TO WATER TABLE.....	15
3.3	SITE HYDROGEOLOGICAL CHARACTERISTICS	16
3.4	APPROXIMATE DEPTH TO BEDROCK	17
3.5	O.REG. 153/04 SECTION 35	17
3.6	O.REG. 153/04 SECTION 41	18
3.7	O.REG. 153/04 SECTION 43.1	18
3.8	SOILS PLACED ON, IN OR UNDER THE PHASE TWO PROPERTY.....	18
3.9	PROPOSED BUILDINGS	18
4	CONTAMINATION IN OR UNDER THE PHASE TWO PROPERTY	19
4.1	APPLICABLE SITE CONDITION STANDARD.....	19
4.2	MEDIA INVESTIGATED	19
4.3	SAMPLING RATIONALE AND AREAS WHERE CONTAMINANTS ARE PRESENT	20
4.3.1	Location and Depth of Soil Samples	22
4.3.2	Location and Depth of Groundwater Samples.....	26
4.4	EXEMPTION OF EXCEEDANCES (O.REG. 153/04 SEC 49.1).....	27
4.4.1	Exemption of Salt-Related Exceedances (Sec 49.1 (1))	27
4.5	CONTAMINANTS ASSOCIATED WITH EACH AREA	27
4.6	MEDIUM IN WHICH CONTAMINANTS ARE ASSOCIATED	28
4.7	INFORMATION KNOWN ABOUT EACH CONTAMINATED AREA	28
4.8	DISTRIBUTION OF CONTAMINANT	28
4.9	REASONS FOR DISCHARGE OF CONTAMINANT.....	29
4.10	MIGRATION OF CONTAMINANT.....	29
4.11	CLIMATIC OR METEOROLOGICAL INFLUENCES ON MIGRATION	29
4.12	SOIL VAPOUR INTRUSION INTO BUILDINGS	29
4.13	RELEVANT CONSTRUCTION FEATURES OF BUILDINGS	29



4.14	BUILDING HVAC	29
4.15	SUBSURFACE STRUCTURES AND UTILITIES	30
5	POTENTIAL EXPOSURES PATHWAYS AND RECEPTORS.....	30
5.1	DESCRIPTION OF ALL COMPONENTS.....	30
5.2	RECEPTOR HUMAN HEALTH	31
5.3	RECEPTOR TERRESTRIAL ENVIRONMENT	32
5.4	RECEPTOR AQUATIC ENVIRONMENT	32
5.5	SUMMARY OF POTENTIAL RECEPTOR RISKS.....	33

FIGURES

- Figure 1 – Site Location
- Figure 2 – PCA Locations
- Figure 3 – PCA and APEC Locations
- Figure 4 – Boreholes and Monitoring Wells Location
- Figure 5 – Groundwater Contours – Overburden
- Figure 6 – Groundwater Contours - Bedrock
- Figure 7 – ORP Exceedances in Soil – Plan View
- Figure 8 – ORP Exceedances in Soil – Section A – A’
- Figure 9 – ORP Exceedances in Soil – Section B – B’
- Figure 10 – PAH Exceedances in Soil – Plan View
- Figure 11 – PAH Exceedances in Soil – Section A – A’
- Figure 12 – PAH Exceedances in Soil – Section B – B’
- Figure 13 – PHC Exceedances in Soil – Plan View
- Figure 14 – PHC Exceedances in Soil – Section A – A’
- Figure 15 – PHC Exceedances in Soil – Section B – B’
- Figure 16 – PHC Exceedances in Soil – Section C – C’
- Figure 17 – PHC Exceedances in Soil – Section D – D’
- Figure 18 – PHC Exceedances in Soil – Section E – E’
- Figure 19 – Human Health Conceptual Site Model
- Figure 20 – Ecological Conceptual Site Model

TABLES

- Table 1 – Water Levels



1 Introduction

1.1 Site Description

The Phase Two Property is located at the municipal address of 60 Dundas Street East, Mississauga, Ontario (the Property). The site location is presented in Figure 1.

The Property is approximately rectangular in shape, with an approximate area of 1.07 ha. The site is currently developed with a one-storey commercial plaza with associated asphalt surface parking and landscape areas. The Property is considered to be in commercial land use by the Ontario Ministry of the Environment, Conservation and Parks (MECP). It is understood that the Phase Two Property will be developed with three new 29-36± storey buildings, with a common P5 underground parking structure beneath the entire site. Under Ontario Regulation 153/04 (O.Reg. 153/04), the future land use of the Property would be considered residential.

1.2 Property Ownership

The Property information is provided below:

Municipal Address	60 Dundas Street East, Mississauga, Ontario
Legal Description	Part Shepard Ave Plan E19 Part Lots 1 & 20 Plan E19 Parts 1 & 2 43R-16703
PIN(s)	13350-0021 (LT)
Assessment Roll Number	05-01-0-068-27600-0000
Zoning	C4 – Mainstreet Commercial
Area	1.07 hectares
Zone Northing Easting	17T 4826302 m N, 611895 m E
Property Owner Information	Gold Star Plaza Ltd.

1.3 Summary of Previous Investigations

The following environmental report(s) was/were provided for review for the Property. The findings of the report(s) is/are summarized below:

Title and File No.	Due Diligence Phase I Environmental Assessment – 60 Dundas Street East, Mississauga, Ontario.
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	File No.: GOR-00212908-AO
Report Date	May 31, 2013
Prepared By	exp Services Inc. (exp)
Prepared for	Gold Star Plaza Ltd.
Description of Data, Analysis or Findings	<ul style="list-style-type: none"> • exp conducted a Phase I ESA for the site located at 60 Dundas Street East, Mississauga, ON for due diligence purposes. The Phase I ESA was completed to the CSA Z768 Guideline. • The Property was developed for mixed commercial and residential use since 1939, which two (2) residential buildings and one (1) commercial building used as an inn (Crovton Villa). The Property was developed into a commercial plaza from primarily residential use in 1978 and has remained in commercial use since then. • A previous Phase I ESA prepared by Barenco Inc. was prepared on August 21, 2008. No PCAs were identified on the Property or in the surrounding properties in the report. • Potentially Contaminating Activities (PCAs) that were identified include: <ul style="list-style-type: none"> ○ A former dry cleaner was located at 131 Dundas St. E., 180 m northeast of the Property. ○ A retail fuel storage tank with a capacity of 41,927 L was present at 86 Dundas St. E., 35 m northeast of the Property. ○ A retail fuel storage tank with a capacity of 99,800 L was present at 8 Dundas St. E., 140 m southwest of the Property. ○ A spill of 100 L of hydraulic oil was present at 55 Dundas St. E., 130 m northeast of the Property. ○ An above ground storage tank containing oil from a restaurant operating on-site was present. Staining of 2 m² of asphalt was noted. <ul style="list-style-type: none"> ▪ Based on the current investigation, it was noted that the contents were composed of waste food oil and were not further considered as a potentially contaminating activity. • No PCAs that would result in an APEC were identified in the report. • Potential asbestos material was identified in the vinyl floor and ceiling tiles located in the units that may be of concern during demolition or renovation.

Title and File No.	Phase I Environmental Site Assessment – 60 Dundas Street East, Mississauga, Ontario File No.: 21-067
Report Date	June 3, 2021
Prepared By	Grounded Engineering Inc.
Prepared for	Almega Asset Management



Description of Data, Analysis or Findings	<ul style="list-style-type: none"> • The Phase I ESA was completed for the purposes of due diligence for financing the Property. • The Phase I ESA was generally completed in accordance with CSA Standard Z768-01. • At the time of the site inspection at that time, the Property was occupied by a commercial strip plaza with multiple stores and an asphalt parking lot. The Property was reportedly heated by a natural gas-fired HVAC unit. Two (2) above ground storage tanks containing waste food oil were located on site. One present at the southeast property boundary and one outside the southeast corner of the building. • The report identified the following APEC causing PCAs: <ul style="list-style-type: none"> ○ Importation of fill material of unknown quality on the Phase I Property. ○ De-icing activities with salt products on the Phase I Property. ○ Presence of a historical dry-cleaning facility on the Phase I Property between 1984 and 2000. ○ An auto garage and dry-cleaning facility were historically located at 40 Dundas St. E., 15 m southwest of the Property. ○ An underground fuel oil tank and historical PCB use were recorded at 47 Dundas St. E., 59 m northwest of the Property. ○ A historical dry-cleaning facility was located at 55 Dundas St. E., 61 m northwest of the Property. ○ A historical commercial auto garage was located at 23 Dundas St. E., 70 m northwest of the Property. ○ A historical gas station and subsequent underground fuel storage tanks were located at 21 Dundas St., 94 m west of the Property. ○ A spill of 450 L of oil from an underground storage tank was recorded at 17 Dundas St. E., 101 m west of the Property. ○ An auto service station, car rental business and auto centre were historically located at 8 Dundas St. E., 140 m southwest of the Property.
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Title and File No.	Phase II Environmental Site Assessment – 60 Dundas Street East, Mississauga, Ontario File No.: 21-067
Report Date	June 30, 2021
Prepared By	Grounded Engineering Inc.
Prepared for	Almega Asset Management
	<ul style="list-style-type: none"> • Purpose of study was to investigate Areas of Potential Environmental Concern (APECs) and for due diligence purposes. • Property use at that time was a one-storey commercial plaza with associated asphalt surface parking and landscape area. • Three (3) boreholes advanced to depths of 5.1 to 7.4 m below ground surface (mbgs)



	<ul style="list-style-type: none"> • Installation of three (3) monitoring wells • Soil tested for: <ul style="list-style-type: none"> ○ Metals ○ Hydride-forming Metals <ul style="list-style-type: none"> ▪ Antimony (Sb), Arsenic (As), Selenium (Se) ○ Selected Other Regulated Parameters (ORPs) <ul style="list-style-type: none"> ▪ Electrical Conductivity (EC), Sodium Adsorption Ratio (SAR), Boron-hot water soluble (B-HWS), Cyanide (CN-), Mercury (Hg), Hexavalent Chromium (Cr(VI)) ○ Polycyclic Aromatic Hydrocarbons (PAHs) ○ Petroleum Hydrocarbons (PHCs) ○ Volatile Organic Compounds I (VOCs) ○ Volatile Organic Compounds II (BTEX) ○ Polychlorinated Biphenyls (PCBs) • Groundwater tested for: <ul style="list-style-type: none"> ○ Metals ○ Hydride-forming Metals <ul style="list-style-type: none"> ▪ Sb, As, Se ○ Selected ORPs <ul style="list-style-type: none"> ▪ CN-, Chloride (Cl), Hg, Cr(VI), pH ○ Sodium (Na) ○ PAHs ○ PHCs ○ VOCs ○ BTEX ○ PCBs • Exceedances were detected for PHC F2 in native soil • Based upon the nature of the exceedance and the current land use, no additional environmental investigation was recommended for continued commercial use.
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Title and File No.	Phase One Environmental Site Assessment – 60 Dundas Street East, Mississauga, Ontario File No.: 21-067
Report Date	July 8, 2022
Prepared By	Grounded Engineering Inc.
Prepared for	Almega Asset Management
Description of Data, Analysis or Findings	<ul style="list-style-type: none"> • The Phase One ESA was prepared to support the filing of a Record of Site Condition for the Property. • The Phase One ESA was prepared in accordance with Ontario Regulation 153/04. • At the time of the site inspection at that time, the Property was occupied by a commercial strip plaza with multiple stores and an asphalt parking lot. The Property was reportedly heated by a natural gas-fired HVAC unit. Two (2) above ground storage tanks containing waste food oil were located on site. One present at the southeast property boundary and one outside the southeast corner of the building. • The report identified the following APEC causing PCAs:



	<ul style="list-style-type: none"> ○ Importation of fill material of unknown quality on the Phase I Property. ○ De-icing activities with salt products on the Phase I Property. ○ Presence of a historical dry-cleaning facility on the Phase I Property between 1984 and 2000. ○ An auto garage and dry-cleaning facility were historically located at 40 Dundas St. E., 15 m southwest of the Property. ○ An underground fuel oil tank and historical PCB use were recorded at 47 Dundas St. E., 59 m northwest of the Property. ○ A historical dry-cleaning facility was located at 55 Dundas St. E., 61 m northwest of the Property. ○ A historical commercial auto garage was located at 23 Dundas St. E., 70 m northwest of the Property. ○ A historical gas station and subsequent underground fuel storage tanks were located at 21 Dundas St., 94 m west of the Property. ○ A spill of 450 L of oil from an underground storage tank was recorded at 17 Dundas St. E., 101 m west of the Property. ○ An auto service station, car rental business and auto centre were historically located at 8 Dundas St. E., 140 m southwest of the Property.
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The PCAs and APEC locations are provided in Figure 3.

2 Information from the Phase One Environmental Site Assessment

2.1 Areas Where Potential Contaminating Activity Has Occurred

Potential Contaminating Activity (PCAs) were identified in the Phase One ESA for the Property. The information regarding whether the PCAs have the potential to cause Areas of Potential Environmental Concerns (APECs) is provided below.

Location of PCA	PCA	APEC (Yes/No)	Rationalization
Phase One Property	#30 – Importation of Fill Material of Unknown Quality	Yes (APEC 1)	Historical redevelopment of the Property for a commercial plaza between 1969 to 1971. Grading operations were present during this time. The elevation difference between Cooksville Creek and the Property indicated that fill material was likely used to level the Property for development. The PCA has the potential to cause an APEC on the Property.
Phase One Property	#01 – De-icing Activities	Yes (APEC 2)	The Property consists of a paved asphalt parking lot and is bound by Dundas St. E. to the northwest and Shepard Ave to the southwest. During winter months, a



Location of PCA	PCA	APEC (Yes/No)	Rationalization
			substance (salt) is applied to the parking lot on the Property and adjacent roads and sidewalks for safety purposes. The PCA has a potential to cause an APEC on the Property.
Phase One Property	#37(i) – Operation of Dry Cleaning Equipment (where chemicals are used)	Yes (APEC 3)	A dry cleaner was present on site between 1984 and 2000. The PCA has a potential to cause an APEC on the Property.
40 Dundas St. E. 15 m Southwest	#10(i) – Commercial Autobody Shops	Yes (APEC 4)	An auto garage was observed in 1939. Historical records indicate the presence of an autobody shop between 1969 to 1970. The PCA is upgradient from the Property and has a potential to cause an APEC on the Property.
	#37(ii) – Operation of Dry Cleaning Equipment (where chemicals are used)	Yes (APEC 4)	A dry cleaner was present on site between 1965 and 1970, and between 1994 to 1996. The PCA is upgradient from the Property and has a potential to cause an APEC on the Property.
8 Dundas St. E. 140 m Southwest	#10(iii) – Commercial Autobody Shops	Yes (APEC 4)	A service station was present on site between 1965 and 1966. A rental for cars and trucks was present on site in 1974. An auto centre was present on site in 2000. The PCA is upgradient from the Property and has a potential to cause an APEC on the Property.
47 Dundas St. E. 59 m Northwest	#28(i) – Gasoline and Associated Products Storage in Fixed Tanks	Yes (APEC 5)	The site was occupied by an underground fuel oil tank from 1996 to 2013. A capacity of up to 10066 L was recorded. The tank was a double wall UST made of fiberglass. The PCA is trans-gradient from the Property but is adjacent northwest of the Property and has a potential to cause an APEC on the Property.
	#02 – PCB Use	Yes (APEC 5)	PCB use was present at the site. Waste generation occurred between 1995 and 2001. The PCA is trans-gradient from the Property but is adjacent northwest of the Property and has a potential to cause an APEC on the Property.



Location of PCA	PCA	APEC (Yes/No)	Rationalization
55 Dundas St. E. 61 m Northwest	#37(iii) – Operation of Dry Cleaning Equipment (where chemicals are used)	Yes (APEC 5)	A dry cleaner was present on site between 1965 and 1966, and between 1984 to 1991. The PCA is trans-gradient from the Property but is adjacent northwest of the Property and has a potential to cause an APEC on the Property.
23 Dundas St. E. 70 m Northwest	#10(ii) – Commercial Autobody Shops	Yes (APEC 5)	An auto garage was observed in 1939. A firetruck was also identified at the garage. The PCA is upgradient from the Property and has a potential to cause an APEC on the Property.
21 Dundas St. 94 m West	#28(ii) – Gasoline and Associated Products Storage in Fixed Tanks	Yes (APEC 6)	A gas station was present on site from 1965 to 1966. The PCA is upgradient from the Property and has a potential to cause an APEC on the Property.
17 Dundas St. E. 101 m West	#03(i) – Ontario Spills	Yes (APEC 6)	450 L of oil was spilled into the ground from an underground tank in 1990. The PCA is upgradient from the Property and has a potential to cause an APEC on the Property.
86 Dundas St. E. 35 m Northeast	#28 – Gasoline and Associated Products Storage in Fixed Tanks	No	The site was occupied by a retail liquid fuel storage tank from 1977 to 2012. A capacity of up to 41927 L was recorded. The tank was a single wall UST made of steel. Cooksville Creek lies between the site and the Property. Due to the location of the site from the Property and the large grade separation, the QP does not anticipate this PCA will cause an APEC on the Property.
55 Dundas St. E. 61 m Northwest	#03 – Ontario Spills	No	100 L of hydraulic oil was spilled onto the ground in 1992. No environmental impacts are anticipated. The PCA is cross-gradient from the Property and is adjacent northwest of the Property. However, due to the limited scale of impact and the nature of the spill, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.
100 Dundas St. E. 71 m Northeast	#03 – Ontario Spills	No	Unknown liquid was spilled into Cooksville Creek causing a fuel sheen in 1994. Possible impacts are anticipated.



Location of PCA	PCA	APEC (Yes/No)	Rationalization
			Cooksville Creek lies in between the site and the Property. Due to the location of the site from the Property and the large grade separation, the QP does not anticipate this PCA will cause an APEC on the Property.
120 Dundas St. E. 130 m Northeast	#03 – Ontario Spills	No	A spill of 100 L of diesel fuel occurred in October 2007. Due to no impacts being noted and the position of Cooksville Creek between the site and the Property with a large grade separation, the QP does not anticipate this PCA will cause an APEC on the Property.
8 Dundas St. E. 140 m Southwest	#28 – Gasoline and Associated Products Storage in Fixed Tanks	No	The site was occupied by a retail liquid fuel storage tank from 1983 to 1999. A capacity of up to 99800 L was recorded. The tank was a single wall UST made of fiberglass. 50 L of gasoline was spilled into the ground from an underground tank in 1990. No environmental impacts are anticipated. The PCA is cross gradient from the Property. However, due to the distance from the Property, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.
5 Dundas St. E. 145 m Southwest	#28 – Gasoline and Associated Products Storage in Fixed Tanks	No	The site was potentially occupied by a gas station in 1969 to 1970. The PCA is cross-gradient from the Property. However, due to the distance from the Property, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.
2515 Hurontario St. 161 m South	#28 – Gasoline and Associated Products Storage in Fixed Tanks	No	A gas station was potentially present on site from 1965 to 1966. The PCA is downgradient from the Property. Due to the distance and gradient from the Property, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.
	#37 – Operation of Dry Cleaning Equipment (where chemicals are used)	No	The site was occupied by a laundry cleaner using halogenated solvents between 1986 to 2004.



Location of PCA	PCA	APEC (Yes/No)	Rationalization
			<p>The PCA is downgradient from the Property. Due to the distance and gradient from the Property, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.</p>
<p>121 Dundas St. E. 163 m North</p>	<p>#43 – Plastics (including Fibreglass) Manufacturing and Processing</p>	<p>No</p>	<p>The site was occupied by a medical equipment and supplies manufacturer in 1989 with a plant size of 800 ft². Cooksville Creek lies in between the site and the Property. Due to the location of the site, the large grade separation, and the distance from the Property, the QP does not anticipate this PCA will cause an APEC on the Property.</p>
<p>3041 Hurontario St. 172 m West</p>	<p>#37 – Operation of Dry Cleaning Equipment (where chemicals are used)</p>	<p>No</p>	<p>A dry cleaner was present on site in 2000. The PCA is upgradient from the Property. However, due to the distance from the Property, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.</p>
	<p>#10 – Commercial Autobody Shops</p>	<p>No</p>	<p>An auto service and sales centre was present on site from 1965 to 1985. The PCA is cross-gradient from the Property. However, due to the distance from the Property, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.</p>
<p>2596 Hurontario St. 180 m Southwest</p>	<p>#28 – Gasoline and Associated Products Storage in Fixed Tanks</p>	<p>No</p>	<p>The site was occupied by a retail gasoline bar from 1989 to 2010. A capacity was not recorded. The tank details were not recorded. Records indicate a gas station was present between 1974 and 1991. Multiple spills of gasoline were recorded on the site between 1989 and 1990 with volumes between 30 and over 50L. The PCA is cross-gradient from the Property. However, due to the distance from the Property, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.</p>



Location of PCA	PCA	APEC (Yes/No)	Rationalization
	#49 – Salvage Yard, including automobile wrecking	No	<p>A salvage site was present on site from 1969 to 1970 where vehicles were sold.</p> <p>The PCA is cross-gradient from the Property. However, due to the distance from the Property, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.</p>
3024 Hurontario St. 180 m West	#28 – Gasoline and Associated Products Storage in Fixed Tanks	No	<p>A potential gas station was present on site in 1974.</p> <p>The PCA is cross-gradient from the Property. However, due to the distance from the Property, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.</p>
131 Dundas St. E. 180 m Northeast	#37 – Operation of Dry Cleaning Equipment (where chemicals are used)	No	<p>The site was occupied by a laundry cleaner using halogenated solvents between 1986 to 2021. A dry cleaner was present on site between 1974 and 2000.</p> <p>Cooksville Creek lies in between the site and the Property. Due to the location of the site, the large grade separation, and the distance from the Property, the QP does not anticipate this PCA will cause an APEC on the Property.</p>
2 Dundas St. W. 184 m Southwest	#28 – Gasoline and Associated Products Storage in Fixed Tanks	No	<p>A service station was penciled in 1910. It is noted that no tanks or buildings were marked on the report. A bank building was present at this location in 1939 and no tanks were noted.</p> <p>The PCA is down gradient from the Property. Due to the distance from the Property, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.</p>
135 Dundas St. E. 191 m Northeast	#10 – Commercial Autobody Shops	No	<p>The site was occupied by an autobody shop in operation based on the site visit.</p> <p>Cooksville Creek lies in between the site and the Property. Due to the location of the site, the large grade separation, and the distance from the Property, the QP does not anticipate this PCA will cause an APEC on the Property.</p>



Location of PCA	PCA	APEC (Yes/No)	Rationalization
	#28 – Gasoline and Associated Products Storage in Fixed Tanks	No	<p>The site was occupied by a retail liquid fuel storage tank from 1974 to 2013. A capacity of up to 22730 L was recorded. The tank was a single wall UST made of steel. Records indicate a gas station was present at the site between 1969 and 1991.</p> <p>Cooksville Creek lies in between the site and the Property. Due to the location of the site, the large grade separation, and the distance from the Property, the QP does not anticipate this PCA will cause an APEC on the Property.</p>
2580 Hurontario St. 196 m Southwest	#37 – Operation of Dry Cleaning Equipment (where chemicals are used)	No	<p>A potential dry cleaner was present on site from 1994 to 1996.</p> <p>The PCA is downgradient from the Property. Due to the distance and gradient from the Property, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.</p>
2503 Hurontario St. 209 m South	#03 – Ontario Spills	No	<p>36 L of hydraulic oil was spilled onto the ground in 1991. No environmental impacts were anticipated.</p> <p>The PCA is downgradient from the Property. Due to the distance and gradient from the Property, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.</p>
2500 Hurontario St. 250 m South	#37 – Operation of Dry Cleaning Equipment (where chemicals are used)	No	<p>A dry cleaner was present on site from 1974 to 2000.</p> <p>The PCA is downgradient from the Property. Due to the distance and gradient from the Property, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.</p>
2550 Hurontario St. 250 m Southwest	#37 – Operation of Dry Cleaning Equipment (where chemicals are used)	No	<p>A dry cleaner was present on site from 1994 to 2000.</p> <p>The PCA is downgradient from the Property. Due to the distance and gradient from the Property, groundwater impacts, if present, are unlikely to cause contamination on the Property. The QP does not anticipate this PCA will cause an APEC on the Property.</p>



The locations of the PCAs and APECs are shown on Figure 3. The PCAs that were deemed to cause APECs are listed in Section 2.2 below.

2.2 Areas of Potential Environmental Concern

The following APECs resulting from PCAs were identified below and shown on Figure 3.

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or sediment)
APEC 1	Entire Phase One Property	#30 - Importation of Fill Material of Unknown Quality	On-site	Metals As, Sb, Se B-HWS CN- Hg Cr(VI) Low or High pH PAHs PHCs VOCs BTEX	Soil & Groundwater Soil & Groundwater Soil Soil & Groundwater Soil & Groundwater Soil & Groundwater Soil & Groundwater Soil & Groundwater Soil & Groundwater Soil & Groundwater Soil & Groundwater
APEC 2	Phase One Property Excluding Building Footprint	#01 - De-icing Activities	On-site	EC SAR Na Cl	Soil Soil Groundwater Groundwater
APEC 3	Southern Portion of Phase One Property	#37 – Operation of Dry Cleaning Equipment (where chemicals are used)	On-site	VOCs	Soil & Groundwater
APEC 4	Western Portion of Phase One Property	#10 – Commercial Autobody Shops #37 – Operation of Dry Cleaning Equipment (where chemicals are used)	Off-site	PHCs BTEX VOCs	Groundwater Groundwater Groundwater
APEC 5	Northern Portion of Phase One Property	#10 – Commercial Autobody Shops #28 – Gasoline and Associated Products Storage in Fixed Tanks #37 – Operation of Dry Cleaning	Off-site	PHCs BTEX VOCs PCBs	Groundwater Groundwater Groundwater Groundwater



		Equipment (where chemicals are used) #02 – PCB Use			
APEC 6	Northwestern Corner of Phase One Property	#10 – Commercial Autobody Shops #03 – Ontario Spills	Off-site	PHCs BTEX VOCs	Groundwater Groundwater Groundwater

2.3 Subsurface Structures and Utilities

The site inspection of the Property and utility locates conducted as part of the Phase One ESA found the following information regarding utilities and services at the Property:

- Gas
- Communications
- Hydro
- Water
- Sewer (storm and sanitary)

Based on highest groundwater level observed on the Property at 2.4 mbgs, there is the potential that the utilities will intersect the water table and affect the distribution and transportation of contaminants underneath the Property.



3 Physical Setting of the Phase Two Property

3.1 Stratigraphy

Detailed geological information for the Property is presented on the geologic cross sections shown in Figure 8, 9, 11, 12, 14 to 18. The geology at the Property is summarized below.

3.1.1 Geological Unit Thickness

Geological Unit Thickness (Estimate)	
Borehole	BH101 to BH103 BH201 to BH207 BH301 to BH305 (2022)
	Thickness Range (m)
Earth Fill	1.6 to 3.9 m
Clayey Silt (Glacial Till)	2.1 to 4.3 m
Sandy Silt	0.6 to 1.5
Bedrock	Encountered between 5.2 to 6.3 m bgs

3.1.2 Elevations of Geological Units

Geological Unit Elevations		
Borehole	BH101 to BH103 BH201 to BH207 BH301 to BH305 (2022)	
	Elev. Top Range (masl)	Elev. Bottom Range (masl)
Earth Fill	110.8 to 107.9	108.9 to 106.0
Clayey Silt (Glacial Till)	108.9 to 106.0	104.6 to 102.7
Sandy Silt	106.8 to 106.4	105.8 to 105.3
Bedrock	104.6 to 102.7	Bottom of bedrock not encountered. Investigation terminated from 87.3 masl to 85.0 masl.



3.1.3 Material in Geological Units

Geological Units	Description
Pavement Structure/Topsoil	BH101, BH103, BH201 to BH207 encountered a pavement structure consisting of 25 to 50 mm asphaltic concrete underlain by 100 mm of aggregate. BH102 encountered 100 mm of topsoil.
Earth Fill	Earth fill was encountered at all borehole locations underlying the surficial materials. The Earth Fill extended to a depth of 1.7 to 4.0 mbgs (Elev. 108.9 to 106.0 m). The Earth Fill generally consisted of sand with some silt to silty sand with trace amounts of clay, gravel, and organics.
Clayey Silt (Glacial Till)	Clayey Silt till with trace amounts of gravel and sand was encountered at all borehole locations underlying the Earth Fill except boreholes BH301 to BH305. The till was found between Elev. 108.9 to 102.7 m.
Sandy Silt	Sandy Silt with some clay and trace amounts of gravel encountered at boreholes BH301 to BH305 underlying the Earth Fill. The sandy silt was found between Elev. 106.8 to 105.3 m.
Bedrock	Inferred bedrock was encountered at boreholes BH101, BH102 and BH201 to BH207 underlying the Native Glacial Till at depths of 4.4 to 7.2 m below grade (Elev. 104.6 to 102.7 m). Bedrock was confirmed by rock cores recovered in Boreholes 201, 203, 205 and 206 to depths of 23.1 to 23.7 m below grade (Elev. 87.3 to 85.0 m). The bedrock beneath the site is the Georgian Bay Formation, which comprises thin to medium bedded grey shale and limestone of Ordovician age. The shale is interbedded with calcareous shale, limestone, dolostone, and calcareous sandstone (conventionally grouped together as "limestone") which are typically laterally discontinuous.

3.2 Approximate Depth to Water Table

A total of 10 monitoring wells have been installed by Grounded Engineering Inc. The monitoring wells were located within the APECs identified in the Phase One ESA (July 8, 2022, Grounded) for the Property. Screened intervals of the monitoring wells were selected for the collection of groundwater samples within the desired stratum.

Eighteen (18) groundwater level measurements were conducted by Grounded Engineering Inc. in the monitoring wells using a Solinst interface probe on the following dates:

- May 4, 2022
- May 6, 2022
- May 7, 2022
- May 10, 2022
- May 21, 2022
- June 8, 2022
- June 14, 2022



- March 16, 2022
- March 22, 2022
- March 25, 2022
- March 30, 2022
- March 31, 2022
- April 4, 2022
- April 17, 2022
- April 29, 2022
- May 13, 2022
- July 5, 2022
- September 26, 2022

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

- *Geodetic Ground Elevation (masl) – Measured Depth to Water Table (m) + Stick up of Well (m) = 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 5 and 6. The shallowest groundwater depth was measured at 2.4 mbgs (108.1 masl) and was observed at BH201 located at the northern portion of the Property on March 21, 2022.

Based on the groundwater elevations measured on the Property, there are two aquifers at the Property: an upper aquifer in native till soils with a maximum groundwater level of 2.8 m bgs, and a lower aquifer in the bedrock with a maximum groundwater level of 2.4 m bgs. The groundwater in the upper and lower aquifers were determined to flow locally to the southeast. Regional groundwater flow is expected to flow northeast towards Cooksville Creek and ultimately southeast towards Lake Ontario. Groundwater contours are presented in Figures 5 and 6.

Based on the measured groundwater levels, limited seasonal variability in the groundwater quantity and flow direction was observed.

Based on the highest groundwater level of 2.4 mbgs observed at the Property, there is the potential that the buried utilities could influence the groundwater flow.

3.3 Site Hydrogeological Characteristics

Horizontal Hydraulic Gradients	The horizontal hydraulic gradient at the Property in the upper aquifer was determined to be approximately 0.0067 m/m based on the groundwater levels from May 13, 2022, in BH101 to BH103, BH202, BH204, BH206 and BH207.
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	The horizontal hydraulic gradient for the lower aquifer (within the bedrock) was determined to be approximately 0.0077 m/m based on the groundwater levels from May 13, 2022, in BH201, BH203 and BH205.										
Vertical Hydraulic Gradients	Based on the location and depths of the installed monitoring wells, the vertical gradient could not be calculated.										
Hydraulic Conductivity	<p>As noted in the Grounded hydrogeological report for the site, the hydraulic conductivities were:</p> <table border="1"> <thead> <tr> <th>Stratum/Formation</th> <th>Hydraulic Conductivity (m/s)</th> </tr> </thead> <tbody> <tr> <td>Earth Fill</td> <td>$1.0 \times 10^{-5**}$</td> </tr> <tr> <td>Clayey Silt Glacial Till</td> <td>$6.8 \times 10^{-8*}$</td> </tr> <tr> <td>Weathered Bedrock</td> <td>$1.0 \times 10^{-7**}$</td> </tr> <tr> <td>Sound Bedrock</td> <td>$1.1 \times 10^{-8*}$</td> </tr> </tbody> </table> <p>*Indicates conductivity was calculated by Slug Test **Indicates conductivity was estimated using typical published values from Freeze and Cherry (1979)</p>	Stratum/Formation	Hydraulic Conductivity (m/s)	Earth Fill	$1.0 \times 10^{-5**}$	Clayey Silt Glacial Till	$6.8 \times 10^{-8*}$	Weathered Bedrock	$1.0 \times 10^{-7**}$	Sound Bedrock	$1.1 \times 10^{-8*}$
Stratum/Formation	Hydraulic Conductivity (m/s)										
Earth Fill	$1.0 \times 10^{-5**}$										
Clayey Silt Glacial Till	$6.8 \times 10^{-8*}$										
Weathered Bedrock	$1.0 \times 10^{-7**}$										
Sound Bedrock	$1.1 \times 10^{-8*}$										

3.4 Approximate Depth to Bedrock

Inferred bedrock was encountered at boreholes BH101, BH102 and BH201 to BH207 underlying the Native Glacial Till at depths of 4.4 to 7.2 m below grade (Elev. 104.6 to 102.7 m). Bedrock was confirmed by rock cores recovered in Boreholes 201, 203, 205 and 206 to depths of 23.1 to 23.7 m below grade (Elev. 87.3 to 85.0 m).

3.5 O.Reg. 153/04 Section 35

Section 35(2) of the Regulation does not apply to the Phase Two Property based on the following rationale:

- The Property, and all other properties located, in whole or in part, within 250 metres of the boundaries of the property, are supplied by a municipal drinking water system, as defined in the Safe Drinking Water Act, 2002.
- The record of site condition does not specify agricultural or other use as the type of property use for which the record of site condition is filed.
- The Phase One Property is not located within an area designated in the official plan of the municipality as a well-head protection area; however, the Property is located within a Source Water Protection Area by the Credit Valley Conservation Authority. The Property is located within a designated area listed as Lakeview Intake (IPZ2), an Intake Protection Zone for Peel Intakes. The Property is also located within the well-head protection area for surface vulnerability zone (WHPA-E), where it is considered an area in which the groundwater is under direct influence of surface water (GUDI Well).



- Neither the Property nor any of the properties in the Phase One study area has a well used or intended for use as a source of water for human consumption or agriculture.
- The owner has given the clerk of the Region of Peel written notice of intention to apply the standards in preparing a record of site condition for the property, and the municipality has given written notice to the owner that it does not object to the application of the standards.

3.6 O.Reg. 153/04 Section 41

Section 41 of the Regulation does not apply to the Phase Two Property based on the following rationale:

- The Property is not located within an area of natural significance.
- The Property does not include or is not adjacent to an area of natural significance or part of such an area.
- The Property does not include land that is within 30 m of an area of natural significance or part of such an area.
- The surface soil at the Property has a pH value that is not less than 5 or greater than 9; and
- The sub-surface soil at the Property has a pH value that is not less than 5 or greater than 11.

3.7 O.Reg. 153/04 Section 43.1

Section 43.1 of the Regulation does not apply to the Phase Two Property based on the following rationale:

- The Property is not considered a shallow soil property; or
- The Property does not include all or part of a water body and is not adjacent to a water body and does not include land that is within 30 m of a water body.

3.8 Soils Placed On, In or Under the Phase Two Property

No soils have been imported or placed on, in or under the Phase Two Property since the site reconnaissance completed for the Phase One ESA on May 10, 2022.

3.9 Proposed Buildings

It is understood that the Phase Two Property will be developed with three new 29-36± storey buildings, with a common P5 underground parking structure beneath the entire site.



4 Contamination In or Under the Phase Two Property

4.1 Applicable Site Condition Standard

The applicable site condition standard for the Phase Two Property is determined to be Table 9 Site Condition Standard for Residential/Parkland/Institutional in a non-potable groundwater condition for medium to fine textured soil due to the following reasons:

Current Land Use	Commercial
Future Land Use	Residential
Soil Texture	Medium to fine. Based on grain size analysis performed on the soil (Appendix B)
Potable Water Source	Lake Ontario
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)	Yes
Property located in or adjacent to a provincial park or an Area of Natural Significance (Yes/No)	No

Grounded Engineering Inc. notified the Region of Peel of the intention to use non-potable groundwater standards on August 11, 2022. On August 29, 2022, the Region of Peel responded, indicating they have no objections to the use of non-potable groundwater standards.

4.2 Media Investigated

Grounded Engineering Inc. conducted the following specific subsurface work at the Property:

Boreholes and Monitoring Wells	<ul style="list-style-type: none"> • Advancing of 15 boreholes to depths of 5.1 to 23.7 m below ground surface (m bgs) • Installation of 10 of monitoring wells
Parameters Investigated for Soil	<ul style="list-style-type: none"> • Metals (M) • Hydride-forming Metals (H-M) <ul style="list-style-type: none"> ○ Antimony (Sb), Arsenic (As), Selenium (Se) • Other Regulated Parameters (ORPs) <ul style="list-style-type: none"> ○ B-HWS, CN-, EC, SAR, Cr(VI), Hg • Polycyclic Aromatic Hydrocarbons (PAH) • Petroleum Hydrocarbons (PHCs)



	<ul style="list-style-type: none"> • Volatile Organic Compounds II - Benzene, Toluene, Ethylbenzene, Xylene (BTEX) • Volatile Organic Compounds I (VOCs) • Polychlorinated Biphenyls (PCBs)
Parameters Investigated for Groundwater	<ul style="list-style-type: none"> • Metals • Hydride-forming Metals <ul style="list-style-type: none"> ○ Sb, As, Se • Other Regulated Parameters <ul style="list-style-type: none"> ○ Cr(VI), CN-, Hg, Cl- • Sodium (Na) • PAHs • PHCs • BTEX • VOC • THMs • PCBs
<ul style="list-style-type: none"> • 1 soil samples were submitted for grain size analysis and soil classification. • Boreholes and monitoring wells were surveyed to a geodetic benchmark. • Shallow monitoring wells were developed and sampled. • Groundwater level measurements were conducted in all monitoring wells to determine groundwater elevation on the Property. 	

4.3 Sampling Rationale and Areas Where Contaminants are Present

The table below identified APECs listed in the Phase One ESA as well as the boreholes that were used to evaluate each APEC. The findings with respect to any contaminant noted are also presented.



Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or sediment)	Borehole or Monitoring Well Associated	Exceedances
APEC 1	Entire Phase One Property	#30 – Importation of Fill Material of Unknown Quality	Metals Sb, As, Se CN- Cr(VI) Hg Low or high pH PAHs PHCs BTEX VOC	Soil & Groundwater	BH101-103 BH201-207 BH301-305	Soil: ORP (Boron (HWS)) PHCs (F2, F3, F4) PAHs
			B-HWS	Soil		
APEC 2	Phase One Property Excluding Building Footprint	#01 - De-icing Activities	EC SAR	Soil	BH101-103 BH201-207 BH301-305	Soil: ORP (Boron (HWS)) PHCs (F2, F3, F4) PAHs
			Na Cl	Groundwater		
APEC 3	Southern Portion of Phase One Property	#37 – Operation of Dry Cleaning Equipment (where chemicals are used)	VOCs	Soil & Groundwater	BH103 BH204-207 BH301-305	Soil: ORP (Boron (HWS)) PHCs (F2, F3, F4) PAHs
APEC 4	Western Portion of Phase One Property	#10 – Commercial Autobody Shops	PHCs BTEX VOCs	Groundwater	BH101 BH103 BH203	Soil: PHCs (F2, F3, F4)
		#37 – Operation of Dry Cleaning Equipment (where chemicals are used)				
APEC 5	Northern Portion of Phase One Property	#10 – Commercial Autobody Shops	PHCs BTEX VOCs PCBs	Groundwater	BH101 & 102 BH201-203	Soil: PHCs (F2, F3, F4)



		#28 – Gasoline and Associated Products Storage in Fixed Tanks				
		#37 – Operation of Dry Cleaning Equipment (where chemicals are used)				
		#02 – PCB Use				
APEC 6	Northwestern Corner of Phase One Property	#10 – Commercial Autobody Shops	PHCs BTEX VOCs	Groundwater	BH101 BH201 BH203	Soil: PHCs (F2, F3, F4)
		#03 – Ontario Spills				

Exceedances in the soil are presented in Figures 6, 9 and 12. The cross sections of the soil are found in Figures 8, 9, 11, 12, 14 to 18. No exceedances were identified in the groundwater.

4.3.1 Location and Depth of Soil Samples

Sample ID	Depth		Strata	Metals	H-Metals	ORPs	PAHs	VOCs	PHCs	PCBs	BTEX
	mbgs	masl									
BH101 SS1	0.1 - 0.7	110.8 - 110.2	Fill				✓				
BH101 SS2	0.8 - 1.4	110.1 - 109.5	Fill	✓	✓	✓					
DUP 1											
BH101 SS3B	2.0 - 2.1	108.9 - 108.8	Clayey Silt Till							✓	
DUP 2											
BH101 SS4	2.3 - 2.9	108.6 - 108.0	Clayey Silt Till						✓		✓
DUP 3											
BH101 SS7	4.6 - 5.0	106.3 - 106.0	Clayey Silt Till					✓			✓



Sample ID	Depth		Strata	Metals	H-Metals	ORPs	PAHs	VOCs	PHCs	PCBs	BTEX
	mbgs	masl									
BH102 SS3	1.5 - 2.1	108.5 - 107.9	Fill	✓	✓	✓					
BH102 SS5	3.0 - 3.7	106.9 - 106.3	Fill				✓				
BH102 SS6B	4.0 - 4.4	106.0 - 105.6	Clayey Silt Till						✓	✓	✓
BH102 SS7	4.6 - 5.2	105.4 - 104.8	Clayey Silt Till					✓			✓
DUP 4											
BH103 SS1	0.2 - 0.8	109.2 - 108.6	Fill	✓	✓	✓					
BH103 SS2	0.8 - 1.4	108.6 - 108.0	Fill				✓				
DUP 5											
BH103 SS3B	1.7 - 2.1	107.6 - 107.2	Clayey Silt Till						✓		✓
BH103 SS5	3.0 - 3.7	106.3 - 105.7	Clayey Silt Till					✓			✓
BH101 SS1	0.1 - 0.7	110.8 - 110.2	Fill				✓				
BH101 SS2	0.8 - 1.4	110.1 - 109.5	Fill	✓	✓	✓					
BH101 SS3B	2.0 - 2.1	108.9 - 108.8	Clayey Silt Till							✓	
BH101 SS4	2.3 - 2.9	108.6 - 108.0	Clayey Silt Till						✓		✓
BH101 SS7	4.6 - 5.0	106.3 - 106.0	Clayey Silt Till					✓			✓
BH102 SS3	1.5 - 2.1	108.5 - 107.9	Fill	✓	✓	✓					
BH102 SS5	3.0 - 3.7	106.9 - 106.3	Fill				✓				
BH102 SS6B	4.0 - 4.4	106.0 - 105.6	Clayey Silt Till						✓	✓	✓
BH102 SS7	4.6 - 5.2	105.4 - 104.8	Clayey Silt Till					✓			✓
BH103 SS1	0.2 - 0.8	109.2 - 108.6	Fill	✓	✓	✓					



Sample ID	Depth		Strata	Metals	H-Metals	ORPs	PAHs	VOCs	PHCs	PCBs	BTEX
	mbgs	masl									
BH103 SS2	0.8 - 1.4	108.6 - 108.0	Fill				✓				
BH103 SS3B	1.7 - 2.1	107.6 - 107.2	Clayey Silt Till						✓		✓
BH103 SS5	3.0 - 3.7	106.3 - 105.7	Clayey Silt Till					✓			✓
BH201 SS1A	0.2 - 0.6	110.4 - 109.9	Fill				✓			✓	
BH201 SS1B	0.6 - 0.8	109.9 - 109.7	Fill	✓	✓	✓					
BH201 SS3	1.5 - 2.1	109.0 - 108.4	Fill					✓	✓		✓
BH201 SS4	2.3 - 2.9	108.2 - 107.6	Clayey Silt Till	✓	✓	✓	✓				
BH201 SS6	4.6 - 5.2	105.9 - 105.3	Clayey Silt Till					✓	✓		✓
BH202 SS1B	0.6 - 0.8	108.9 - 108.7	Fill							✓	
BH202 SS2	0.8 - 1.4	108.7 - 108.0	Fill	✓		✓	✓				
BH202 SS3B	1.9 - 2.1	107.5 - 107.3	Fill					✓	✓		✓
BH202 SS5	3.0 - 3.7	106.4 - 105.8	Clayey Silt Till	✓	✓	✓	✓				
BH202 SS6	4.6 - 5.2	104.8 - 104.2	Clayey Silt Till					✓	✓		✓
BH203 SS1	0.2 - 0.8	110.1 - 109.5	Fill	✓	✓	✓	✓			✓	
BH203 SS2	0.8 - 1.4	109.5 - 108.9	Fill					✓	✓		✓
BH203 SS4	2.3 - 2.9	108.0 - 107.4	Clayey Silt Till	✓	✓	✓	✓				
BH203 SS6	4.6 - 5.2	105.7 - 105.1	Clayey Silt Till					✓	✓		✓
BH204 SS4	2.3 - 2.9	107.6 - 107.0	Fill	✓	✓	✓	✓	✓	✓	✓	✓
BH204 5B	3.3 - 3.7	106.6 - 106.2	Clayey Silt Till	✓	✓	✓	✓				



Sample ID	Depth		Strata	Metals	H-Metals	ORPs	PAHs	VOCs	PHCs	PCBs	BTEX
	mbgs	masl									
BH204 SS6	4.6 - 5.0	105.3 - 104.9	Clayey Silt Till					✓	✓		✓
BH205 SS2	0.8 - 1.4	109.1 - 108.5	Fill	✓	✓	✓	✓			✓	
BH205 SS3	1.5 - 2.1	108.3 - 107.7	Fill					✓	✓		✓
BH205 6A	3.8 - 4.4	106.0 - 105.5	Clayey Silt Till					✓	✓		✓
BH205 SS7	4.6 - 5.2	105.3 - 104.7	Clayey Silt Till	✓	✓	✓	✓				
BH206 SS1	0.2 - 0.8	108.0 - 107.4	Fill							✓	
BH206 SS2	0.8 - 1.4	107.4 - 106.8	Fill	✓	✓	✓	✓				
BH206 3A	1.5 - 1.8	106.6 - 106.3	Fill					✓	✓		✓
BH206 3B	1.8 - 2.1	106.3 - 106.0	Clayey Silt Till	✓	✓	✓	✓				
BH206 SS5	3.0 - 3.7	105.1 - 104.5	Clayey Silt Till					✓	✓		✓
BH207 SS1	0.2 - 0.8	108.6 - 108.0	Fill							✓	
BH207 SS2	0.8 - 1.4	108.0 - 107.4	Fill					✓	✓		✓
BH207 SS3	1.5 - 2.1	107.3 - 106.7	Fill	✓	✓	✓	✓				
BH207 SS4	2.3 - 2.9	106.5 - 105.9	Clayey Silt Till	✓	✓	✓	✓				
BH207 SS7	5.2 - 5.8	103.6 - 103.0	Clayey Silt Till					✓	✓		✓
BH301 SS2	1.1 - 1.5	107.7 - 107.3	Fill						✓		✓
BH301 SS4	2.3 - 3.0	106.5 - 105.8	Sandy silt						✓		✓
BH302 SS2	1.1 - 1.5	107.7 - 107.3	Fill						✓		✓
BH303 SS2	1.1 - 1.5	107.7 - 107.2	Fill						✓		✓



Sample ID	Depth		Strata	Metals	H-Metals	ORPs	PAHs	VOCs	PHCs	PCBs	BTEX
	mbgs	masl									
BH303 SS4	2.4 - 3.0	106.4 - 105.7	Sandy silt						✓		✓
BH304 SS1	0.8 - 1.2	108.1 - 107.6	Fill						✓		✓
DUP 1 (Dup of BH304 SS1)	0.8 - 1.2	108.1 - 107.6	Fill						✓		✓
BH304 SS5	2.4 - 3.0	106.4 - 105.8	Sandy silt						✓		✓
BH305 SS2	0.8 - 1.5	107.5 - 106.8	Fill						✓		✓
BH305 SS4	2.3 - 3.0	106.0 - 105.3	Sandy silt						✓		✓

4.3.2 Location and Depth of Groundwater Samples

Sample ID	Screen Depth		Screen Strata	Metals	H-Metals	ORPs	PAHs	VOCs	PHCs	PCBs	BTEX
	mbgs	masl									
BH101	4.6 - 6.1	106.3 - 104.8	Clayey Silt Till	✓	✓	✓	✓	✓		✓	✓
BH102	4.6 - 6.1	105.4 - 103.9	Clayey Silt Till	✓	✓	✓	✓	✓		✓	✓
BH103	3.4 - 4.9	106.0 - 104.5	Clayey Silt Till	✓	✓	✓	✓	✓			✓
BH204	3.7 - 6.8	106.2 - 103.1	Bedrock					✓			✓
BH206	3.0 - 6.1	105.1 - 102.0	Bedrock					✓			✓
BH207	3.0 - 6.1	105.8 - 102.7	Bedrock	✓	✓	✓	✓	✓	✓		✓



4.4 Exemption of Exceedances (O.Reg. 153/04 Sec 49.1)

4.4.1 Exemption of Salt-Related Exceedances (Sec 49.1 (1))

Chemical analysis of the soil indicates that there are exceedances of the MECP Table 9 RPIICC Standards for Electrical Conductivity and Sodium Adsorption Ratio (salt related compound) within the upper soils.

The Property is bound by a municipal roadway to the north (Dundas Street East) and to the west (Shepard Avenue). The roadway has public sidewalks between the road and the Property boundary. The entire Property features car parking. The roadways, sidewalks, and parking area are all salted during the winter months for safety purposes.

The Qualified Person has determined, based on the Phase One Environmental Site Assessment and the Phase Two Environmental Site Assessment, that a substance (salt) has been applied to surfaces of the roadway, sidewalks, driveway, and parking area 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.

4.5 Contaminants Associated with Each Area

The Contaminants of Concern (CoCs) identified in the fill above the applicable Site Condition Standards at the following APECs are listed below.

APEC	FILL	NATIVE SOIL	GROUNDWATER
1	ORPs (Boron (HWS)) PHCs (F2, F3, F4) PAHs	PHCs (F2, F3, F4)	
2	ORPs (Boron (HWS)) PHCs (F2, F3, F4) PAHs	PHCs (F2, F3, F4)	
3	ORPs (Boron (HWS)) PHCs (F2, F3, F4) PAHs	PHCs (F2)	
4		PHCs (F2, F3, F4)	
5	PHCs (F3, F4)	PHCs (F2, F3, F4)	
6	PHCs (F3, F4)	PHCs (F2, F3, F4)	



Based upon the soil and groundwater sampling conducted as part of the Phase Two investigation, there are CoCs above the MECP Table 9 RPIICC Standards at the locations of APECs 1 to 6.

4.6 Medium in Which Contaminants are Associated

Fill, native soil, and groundwater were investigated as part of the Phase Two ESA investigation. CoCs were identified in the following media for the contaminants listed.

Metals	H-Metals	ORPs	PAHs	PHCs	BTEX	VOCs	PCBs
None	None	Fill	Fill	Fill, Native	None	None	None

Based upon the soil and groundwater sampling conducted as part of the Phase Two investigation, there are CoCs above the MECP Table 9 RPIICC Standards within the fill and native material identified on the Property.

4.7 Information Known about Each Contaminated Area

The origin of the ORP and PAH impacts in soil are most likely associated with the importation of fill material of unknown quality. The PAH and PHC impacts in soil may be related to the fill material of unknown quality or the biproduct of incomplete combustion of fuel and related to the former service garages on-site.

4.8 Distribution of Contaminant

The soil was found to be impacted by ORPs, PAHs and PHCs. The distribution of each contaminant are as follows.

Contaminants	Distribution
ORPs	The extent of the ORP have not been defined. However, the impacts appear to be related to the fill material across the site.
PAHs	The extent of the PAH have not been defined. However, the impacts appear to be related to the fill material across the site.
PHCs	The extent of the PHCs have not been defined. However, the impacts appear to be related to the fill material across the site.



4.9 Reasons for Discharge of Contaminant

The origin of the ORP and PAH impacts in soil are most likely associated with the importation of fill material of unknown quality. The PAH and PHC impacts in soil may be related to the fill material of unknown quality or the biproduct of incomplete combustion of fuel and related to the former service garages on-site.

4.10 Migration of Contaminant

The contaminants could potentially migrate from the fill material into the native soil and groundwater via diffusion. The ORP, PAH and PHC impacts were identified in the fill and PHC impacts were also identified in the native soil.

4.11 Climatic or Meteorological Influences on Migration

Climatic or meteorological influence on migration of potential contamination of the Property was possible. Meteorological influences are likely the cause for the CoCs in the soil to have migrated from fill material to the upper native soils.

4.12 Soil Vapour Intrusion into Buildings

Volatile contaminants (PAHs and PHCs) were identified in the soil during the investigation. As such, there is a possibility for soil vapour intrusion of contaminants into on-site buildings.

4.13 Relevant Construction Features of Buildings

At the time of the investigation the Property was occupied by a single-story commercial building. The remainder of the Property surrounding the building was covered with asphalt and landscaped areas.

Building #	Above Grade Levels	Below Grade Levels	Use
1	1	None	Commercial

4.14 Building HVAC

Current HVAC systems present in the building on the Property may affect the distribution and transport of contaminants because volatile CoCs were identified.



4.15 Subsurface Structures and Utilities

The site inspection of the Property and utility locates conducted as part of the Phase One ESA found the following information regarding utilities and services at the Property:

- Gas
- Communications
- Hydro
- Water
- Sewer (storm and sanitary)

Based on highest groundwater level observed on the Property at 2.4 mbgs, there is the potential that the utilities will intersect the water table and affect the distribution and transportation of contaminants underneath the Property.

5 Potential Exposures Pathways and Receptors

5.1 Description of All Components

A list of the risk-based components of potential exposure pathways and receptors are presented below and presented on Figures 19 and 20.

Potential Pathway	Description
GW1	Groundwater for drinking water purposes
GW2	Groundwater for protection from movement to indoor air
GW3	Groundwater for protection of aquatic life
S1	Soil for protection of a residential receptor from direct contact with surface soil
S2	Soil for protection from direct soil contact for a lower frequency and intensity exposure than residential surface soil, such as commercial or industrial scenarios
S3	Soil for direct soil contact for a low-frequency, high-intensity, human health exposure scenario without children present that is protective of a worker digging in the soil
S-IA	Soil for protection of movement to indoor air and human exposure
S-OA	Soil for protection of movement to outdoor air and human exposure



Potential Pathway	Description
S-Odour	Soil for protection of movement to outdoor air and human exposure
S-GW1	Soil for protection from movement to groundwater for drinking water purposes
S-GW3	Soil for protection from movement to groundwater and then to aquatic life
Plants and Soil Organisms	Soil for protection against adverse effects to plants and soil dwelling organisms
Mammals and Birds	Soil for protection against adverse effects through direct soil and food ingestion to mammals and birds

5.2 Receptor Human Health

Potential Pathway	Sources	CoCs from Phase Two ESA	Potential Risks (Yes/No)			
			Source	Pathway	Receptor	Risk
GW1	Contamination not present in groundwater	None	No	No	Non	Low
GW2	Contamination not present in groundwater	None	No	No	Non	Low
GW3	Contamination not present in groundwater	None	No	No	Non	Low
S1	Contamination present in fill material and native soils	ORPs PAHs PHCs	Yes	Yes	Yes	Risk Present
S2	Contamination present in fill material and native soils	ORPs PAHs PHCs	Yes	Yes	Yes	Risk Present
S3	Contamination present in fill material and native soils	ORPs PAHs PHCs	Yes	Yes	Yes	Risk Present
S-IA	Contamination present in fill material and native soils	ORPs PAHs PHCs	Yes	Yes	Yes	Risk Present
S-OA	Contamination present in fill material and native soils	ORPs PAHs	Yes	Yes	Yes	Risk Present



Potential Pathway	Sources	CoCs from Phase Two ESA	Potential Risks (Yes/No)			
			Source	Pathway	Receptor	Risk
		PHCs				
S-Odour	Contamination present in fill material and native soils	ORPs PAHs PHCs	Yes	Yes	Yes	Risk Present
S-GW1	Contamination present in fill material and native soils	ORPs PAHs PHCs	Yes	No	Yes	Low
S-GW3	Contamination present in fill material and native soils	ORPs PAHs PHCs	Yes	No	No	Low

5.3 Receptor Terrestrial Environment

Potential Pathway	Sources	CoCs from Phase Two ESA	Potential Risks (Yes/No)			
			Source	Pathway	Receptor	Risk
Plants and Soil Organisms	Contamination present in fill material and native soils	ORPs PAHs PHCs	Yes	Yes	Yes	Risk Present
Mammals and Birds	Contamination present in fill material and native soils	ORPs PAHs PHCs	Yes	Yes	Yes	Risk Present

5.4 Receptor Aquatic Environment

Potential Pathway	Sources	CoCs from Phase Two ESA	Potential Risks (Yes/No)			
			Source	Pathway	Receptor	Risk
GW3	Contamination not present in groundwater	None	No	No	No	Low
S-GW3	Contamination present in fill material and native soils	ORPs PAHs PHCs	Yes	No	No	Low

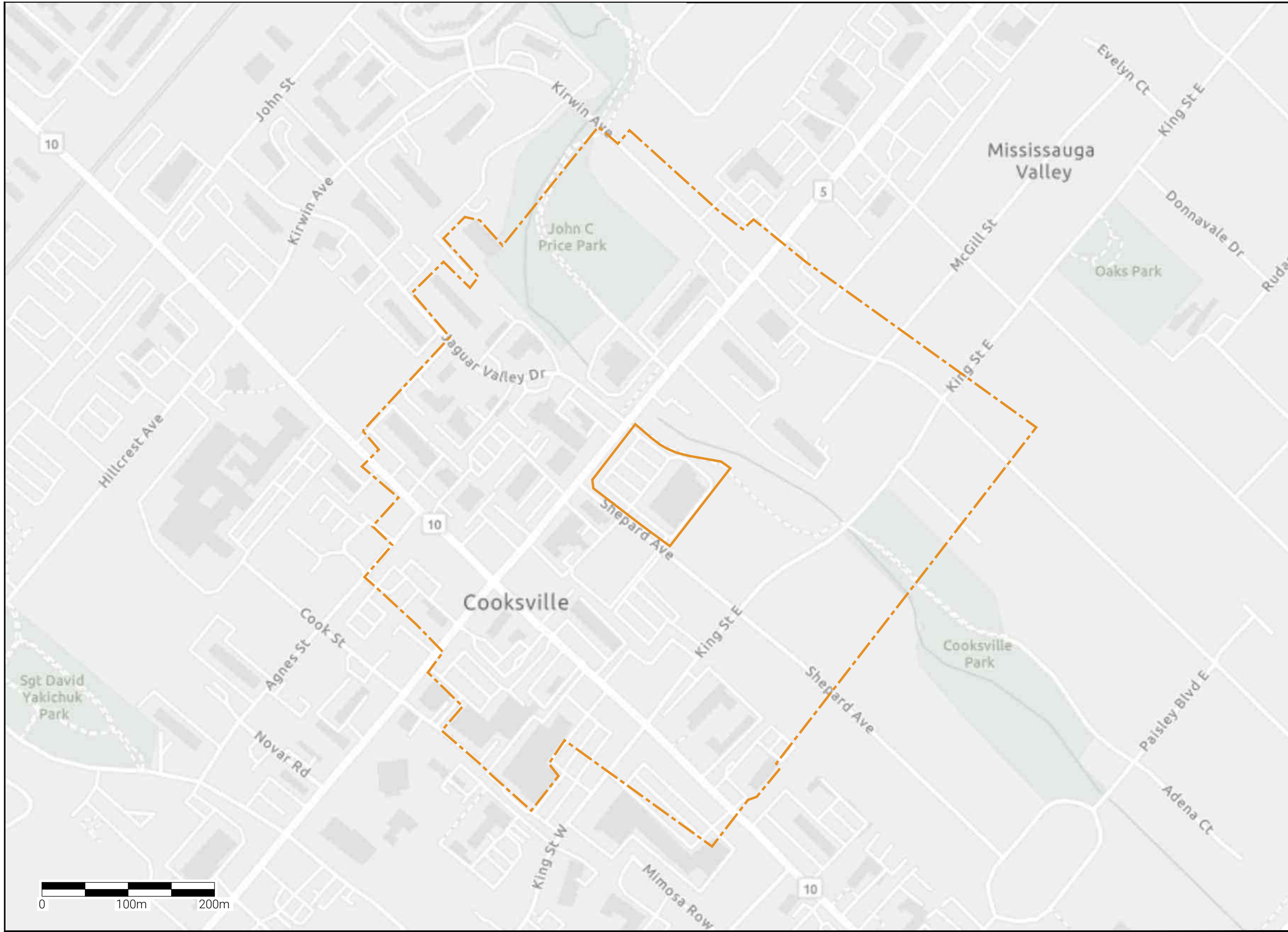


5.5 Summary of Potential Receptor Risks

The Contaminants of Potential Concern identified in the Phase One ESA were found to be present on the Property above the applicable Site Condition Standards within the fill material, native soils, and groundwater. The lateral and vertical distribution of soil and groundwater impacts is presented on Figures 8, 9, 11, 12, 14 to 18. As such a remediation or risk assessment (RA) of the impacted soil and groundwater will be required to assess and mitigate any potential risk to the Human Receptor, the Terrestrial or the Aquatic Environment.

FIGURES





1 Banigan Drive, Toronto, Ont., M4H 1E9
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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- STUDY AREA (250 m)

Note

Reference

ArcGIS Map 2021

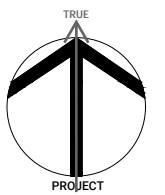
Project

**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title

SITE LOCATION PLAN

North



Date

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21-067

Figure No

FIGURE 1



GROUND
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1 Banigan Drive, Toronto, Ont., M4H 1E9
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LEGEND

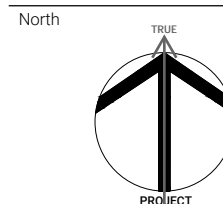
- APPROXIMATE PROPERTY BOUNDARY
- STUDY AREA (250 m)
- LOCAL GROUNDWATER FLOW DIRECTION
- APPROXIMATE CREEK LOCATION
- #10 COMMERCIAL AUTOBODY SHOPS
- #28 GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS
- #30 IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY
- #37 OPERATION OF DRY CLEANING EQUIPMENT (WHERE CHEMICALS ARE USED)
- #43 PLASTICS (INCLUDING FIBREGLASS) MANUFACTURING AND PROCESSING SALVAGE YARD, INCLUDING AUTOMOBILE WRECKING
- #49 WRECKING
- #01 DE-ICING ACTIVITY USING SALT
- #02 PCB USAGE
- #03 ONTARIO SPILLS

Note
 GREEN - PCA NOT CAUSING APEC
 RED - PCA CAUSING APEC

Reference
 ArcGIS Map 2021

Project
**60 DUNDAS ST E,
 MISSISSAUGA, ONTARIO**

Figure Title
PCA LOCATION PLAN

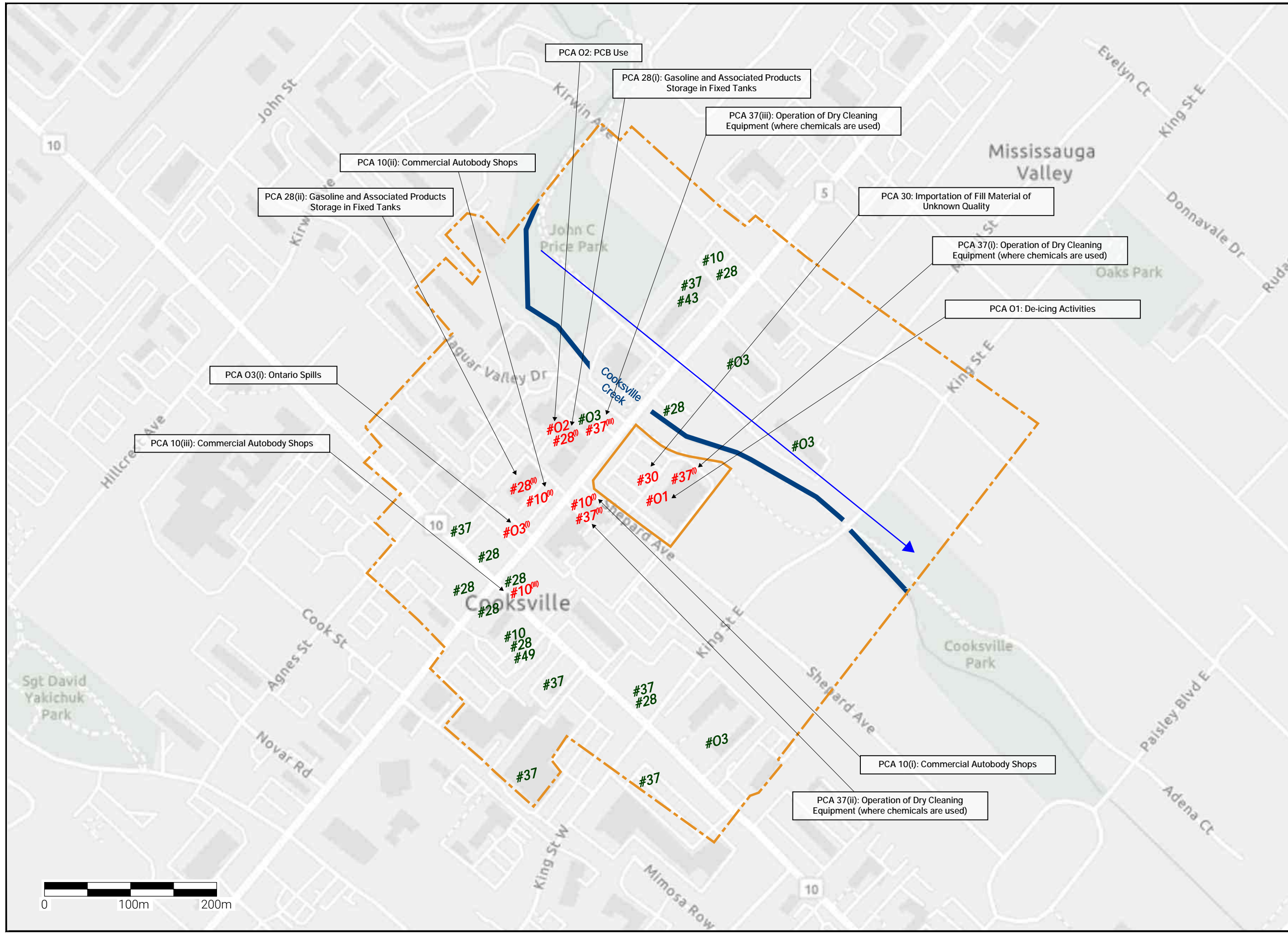


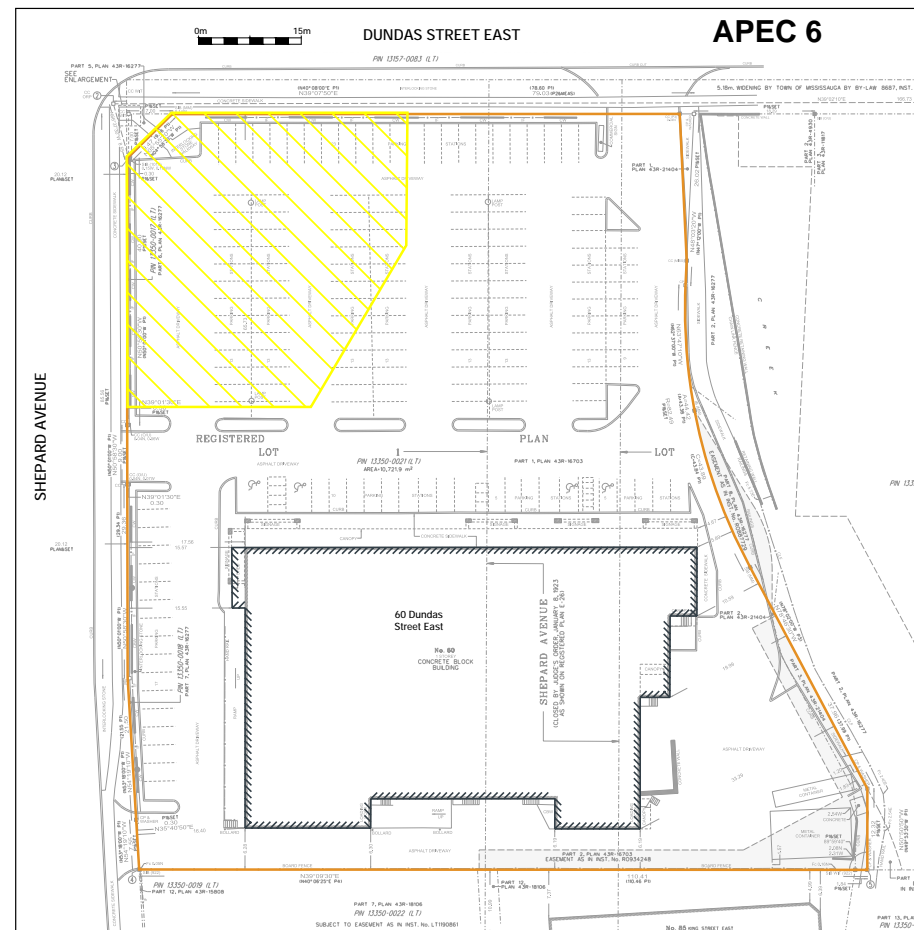
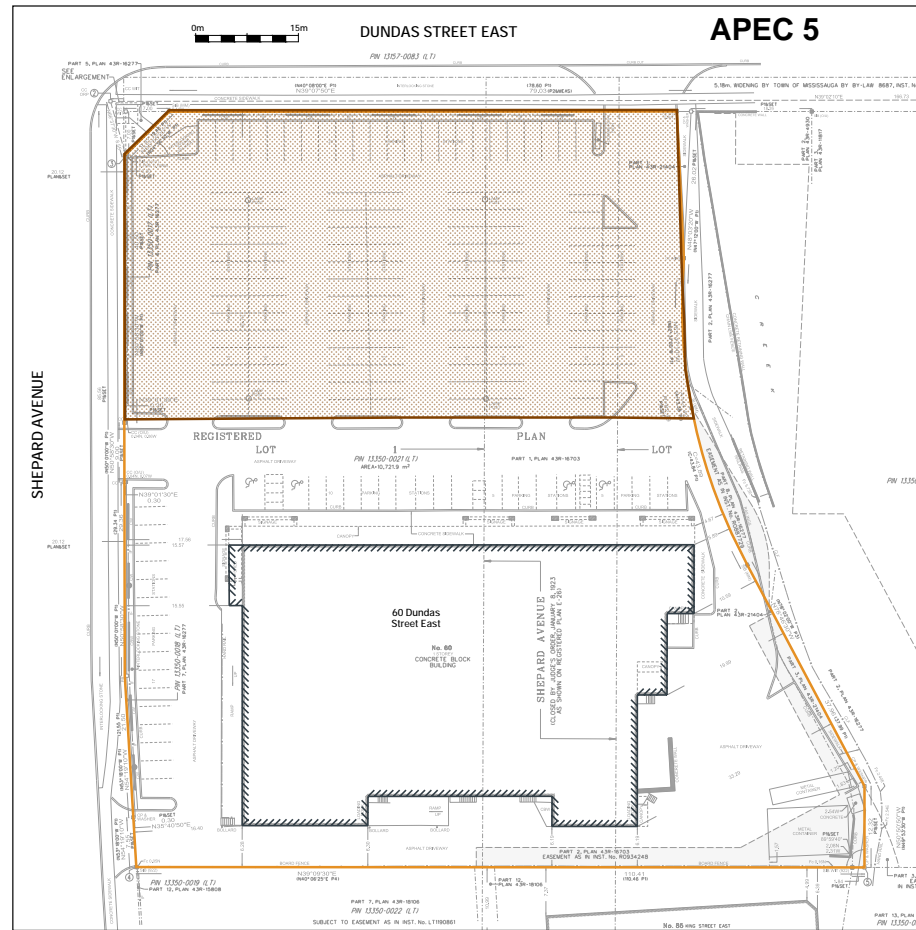
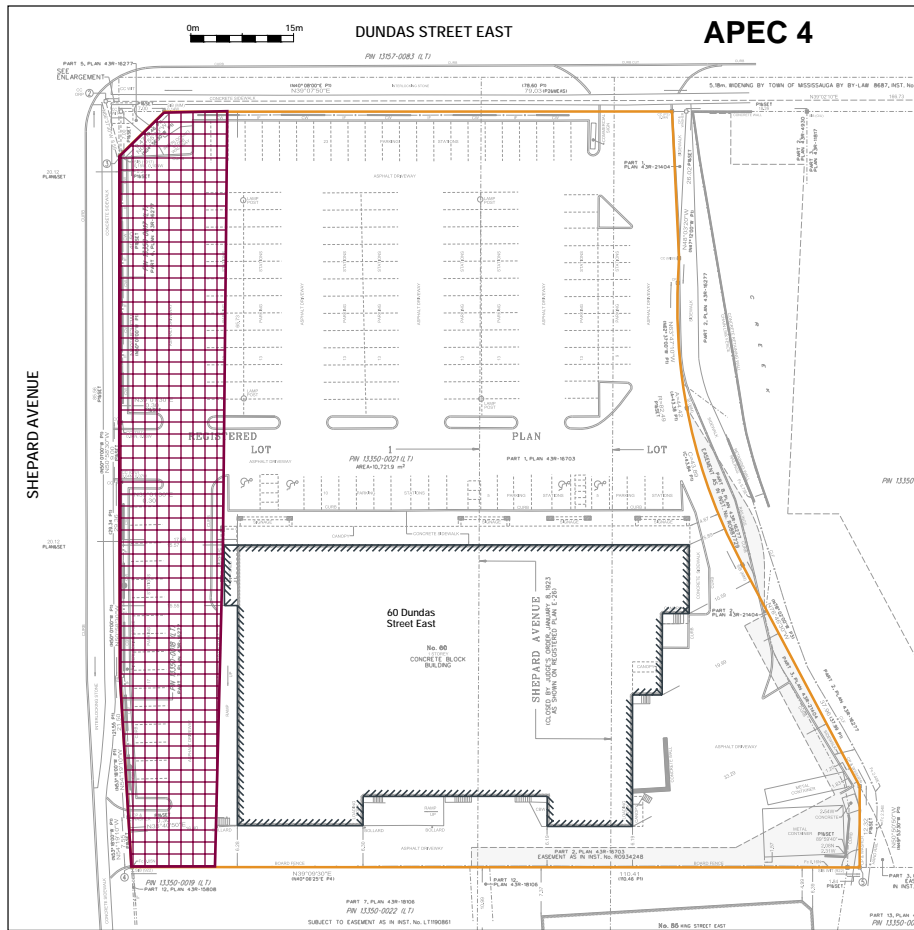
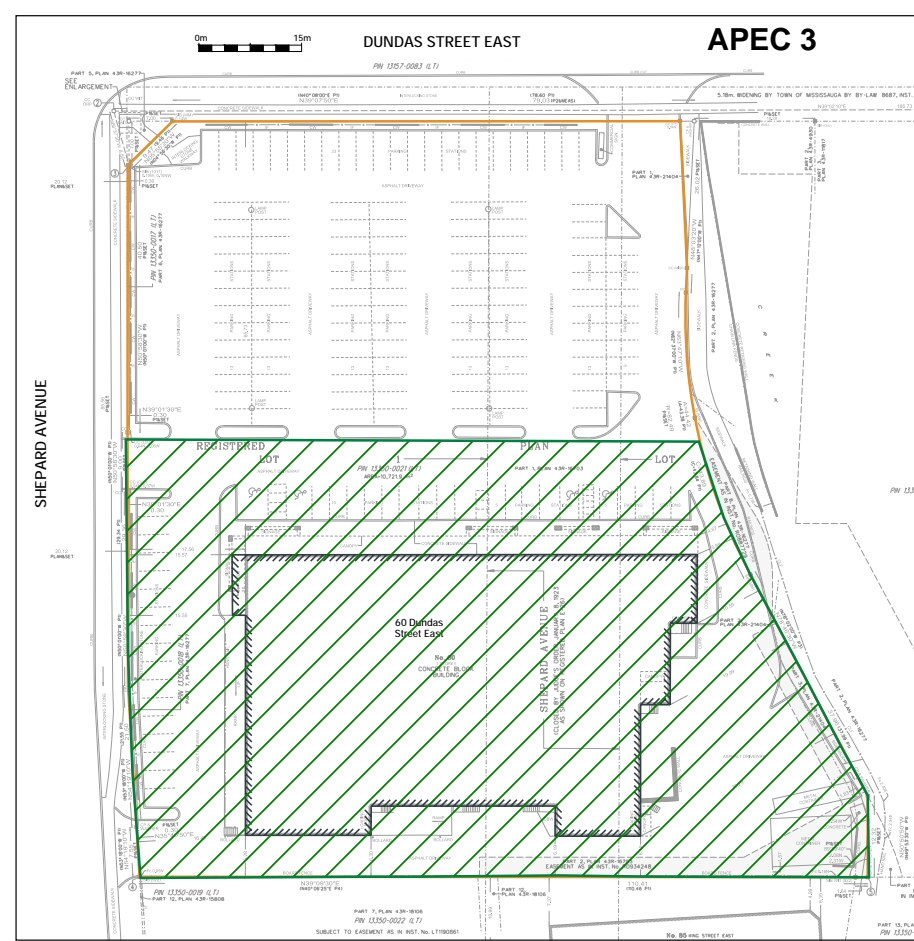
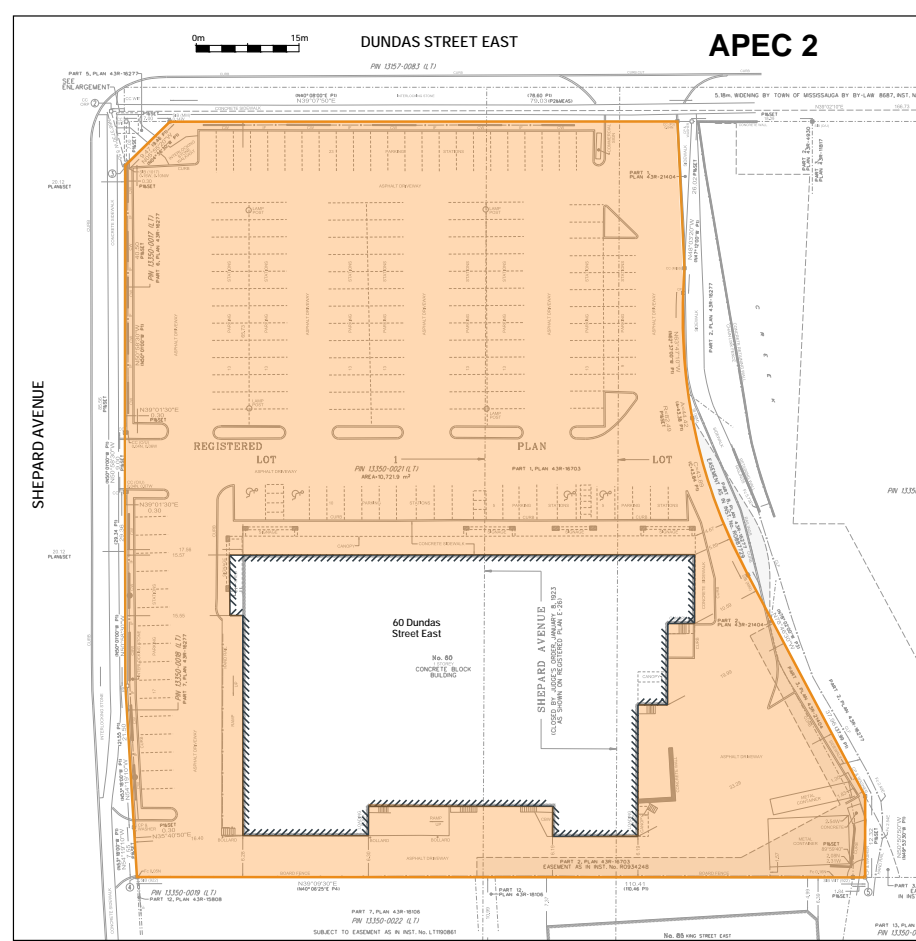
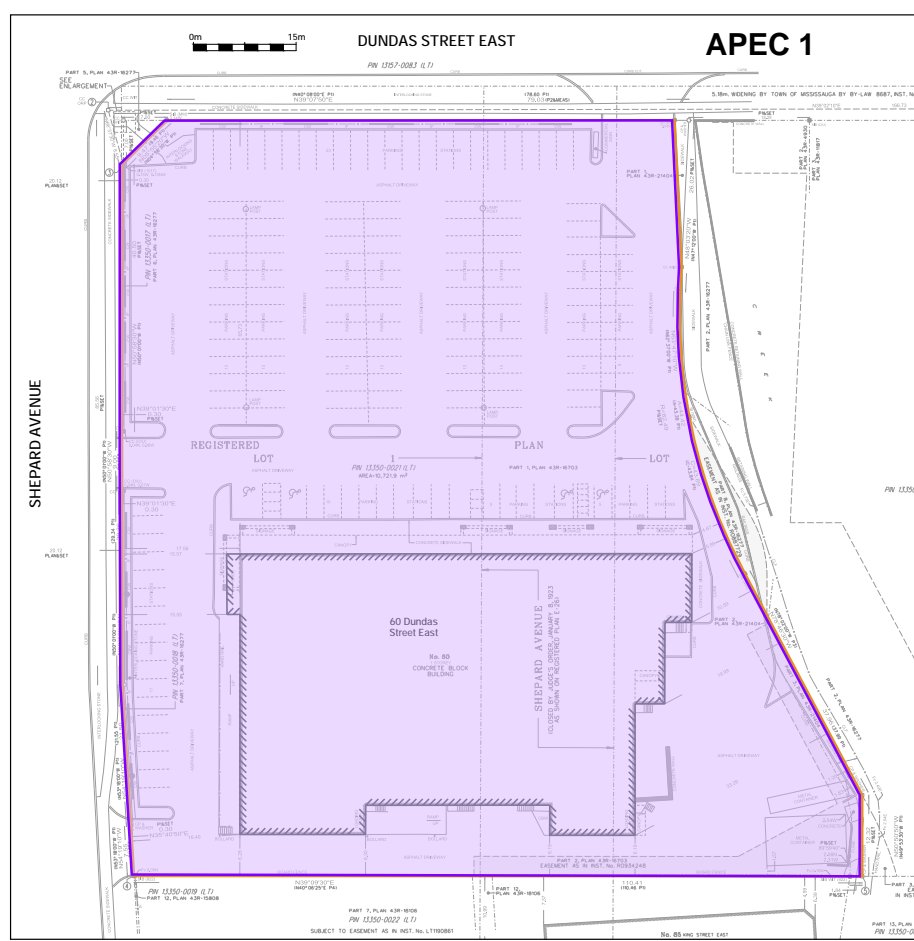
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Job No
 21-067

Figure No
FIGURE 2





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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING STRUCTURE
- APEC 1
- APEC 2
- APEC 3
- APEC 4
- APEC 5
- APEC 6

Note

Reference

Survey Drawing no. 20-21-14108-00.
Prepared by Aksan Piller Corporation Ltd.
Dated April 5, 2021.

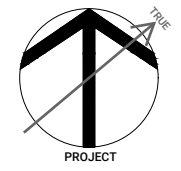
Project

**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title

APEC LOCATION PLAN

North



Date

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Job No

21-067

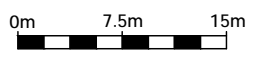
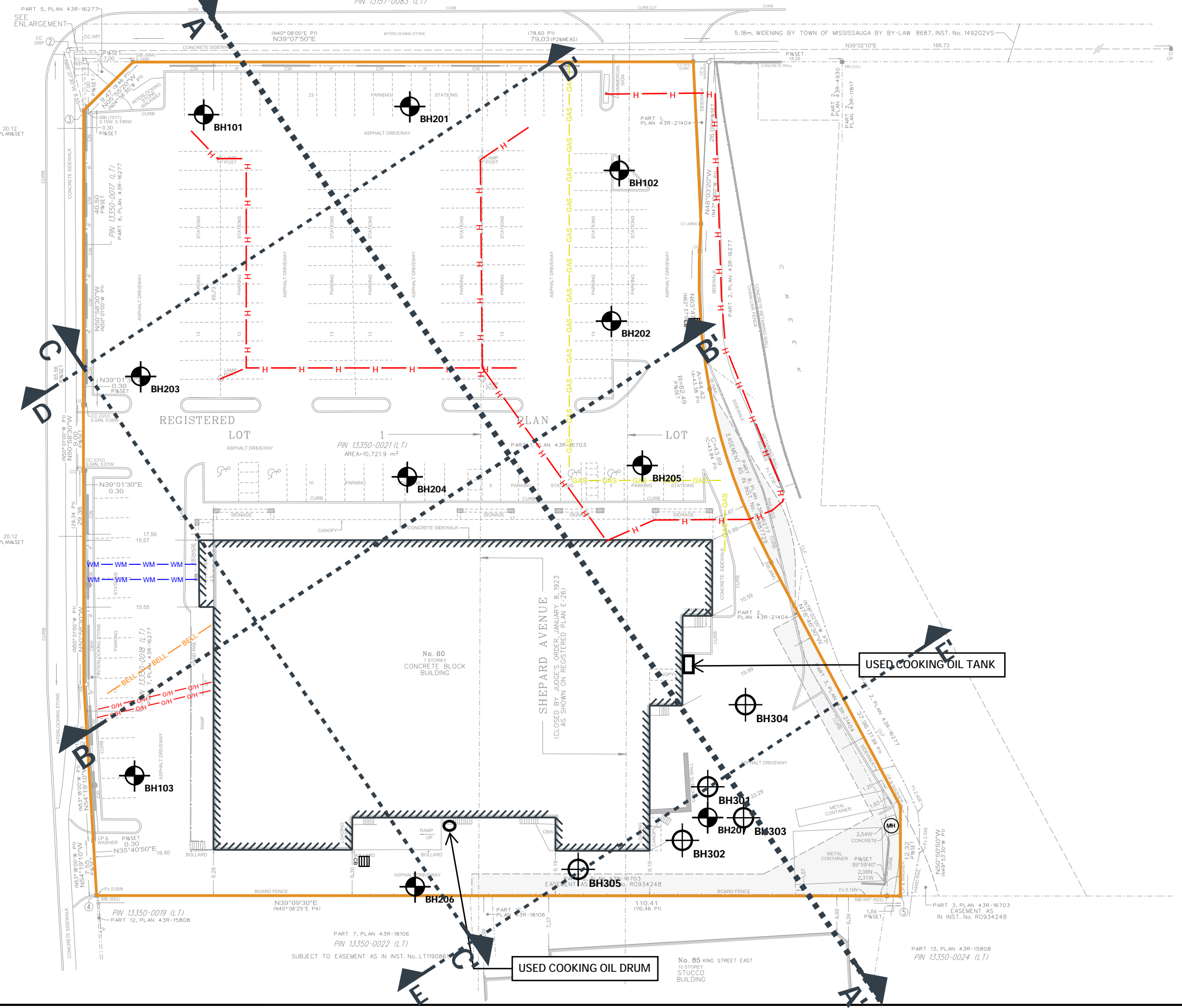
Figure No

FIGURE 3

DUNDAS STREET EAST

PIN 13157-0083 (LT)

SHEPARD AVENUE



**GROUND
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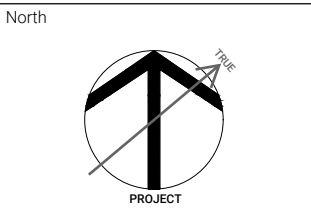
LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING STRUCTURE
- MONITORING WELL BY GROUND
- BOREHOLE BY GROUND
- GAS
- ELECTRICAL
- BURIED HYDRO
- OVERHEAD HYDRO
- WATER
- COMMUNICATION
- SANITARY
- STORM
- MANHOLE
- CATCH BASIN

Reference
Survey Drawing no. 20-21-14108-00.
Prepared by Aksan Piller Corporation Ltd.
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Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**BOREHOLE LOCATION
PLAN**



Date
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Job No
21-067

Figure No
FIGURE 4



**GROUND
ENGINEERING**

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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING STRUCTURE
- MONITORING WELL BY GROUNDIED
- BOREHOLE BY GROUNDIED
- GAS
- ELECTRICAL
- BURIED HYDRO
- OVERHEAD HYDRO
- WATER
- COMMUNICATION
- SANITARY
- STORM
- MANHOLE
- CATCH BASIN
- GROUNDWATER ELEVATIONS (masl)
- GROUNDWATER CONTOURS (masl)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

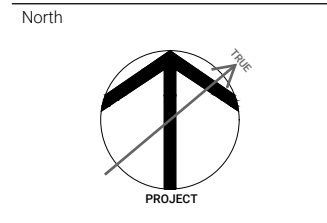
**BH201, BH203 and BH205 excluded from contours

Reference
Survey Drawing no. 20-21-14108-00.
Prepared by Aksan Piller Corporation Ltd.
Dated April 5, 2021.

Project

**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**GROUNDWATER
CONTOURS - OVERBURDEN**

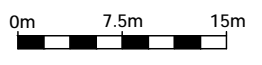
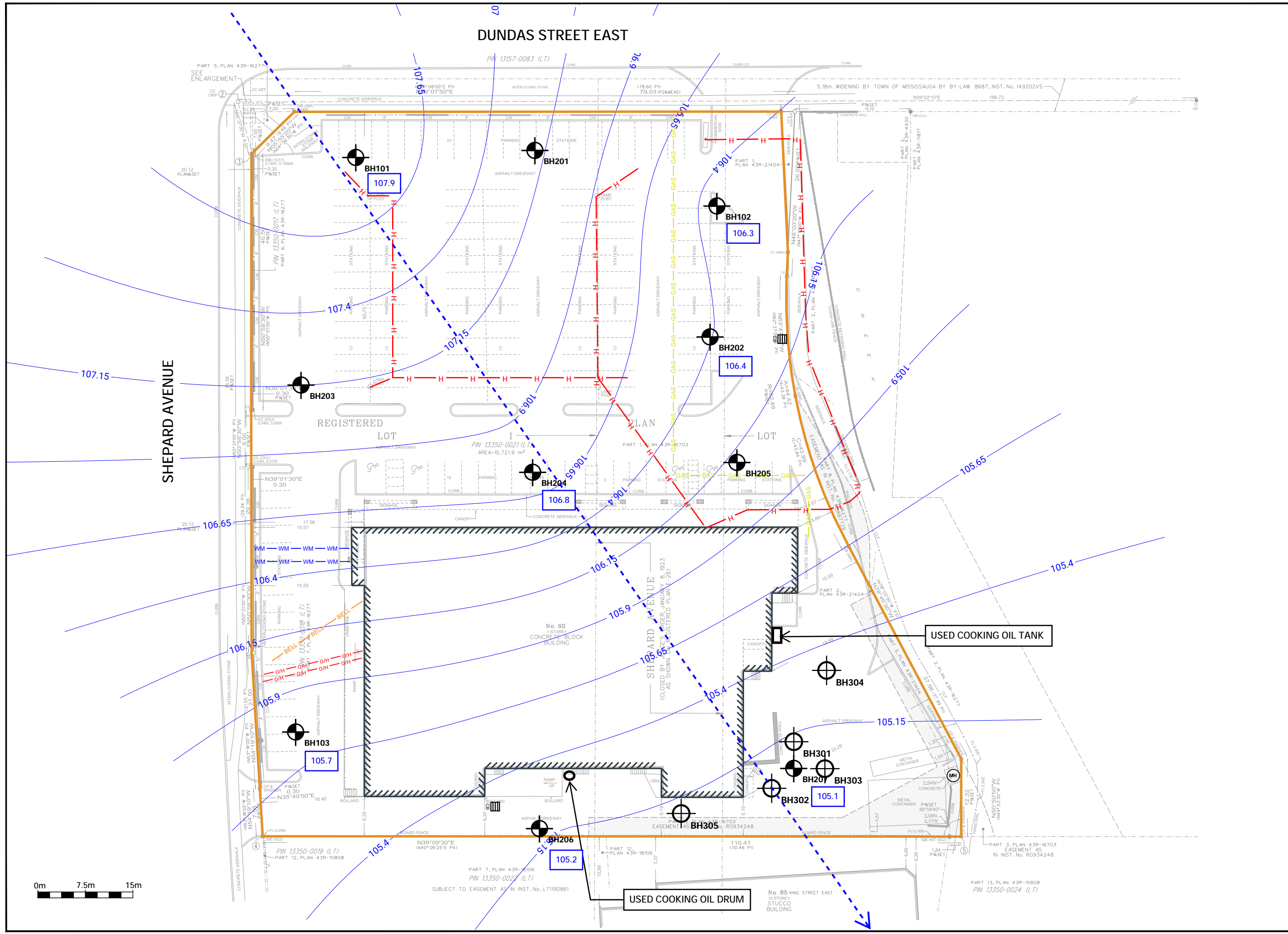


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Job No
21-067

Figure No
FIGURE 5





**GROUND
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LEGEND

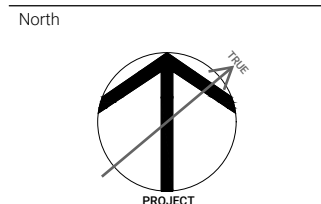
- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING STRUCTURE
- MONITORING WELL BY GROUNDLED
- BOREHOLE BY GROUNDLED
- GAS
- ELECTRICAL
- BURIED HYDRO
- OVERHEAD HYDRO
- WATER
- COMMUNICATION
- SANITARY
- STORM
- MANHOLE
- CATCH BASIN
- GROUNDWATER ELEVATIONS (masl)
- GROUNDWATER CONTOURS (masl)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

**BH101 to BH103, BH202, BH204, BH206 and BH207 excluded from contours

Reference
Survey Drawing no. 20-21-14108-00.
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**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**GROUNDWATER
CONTOURS - BEDROCK**

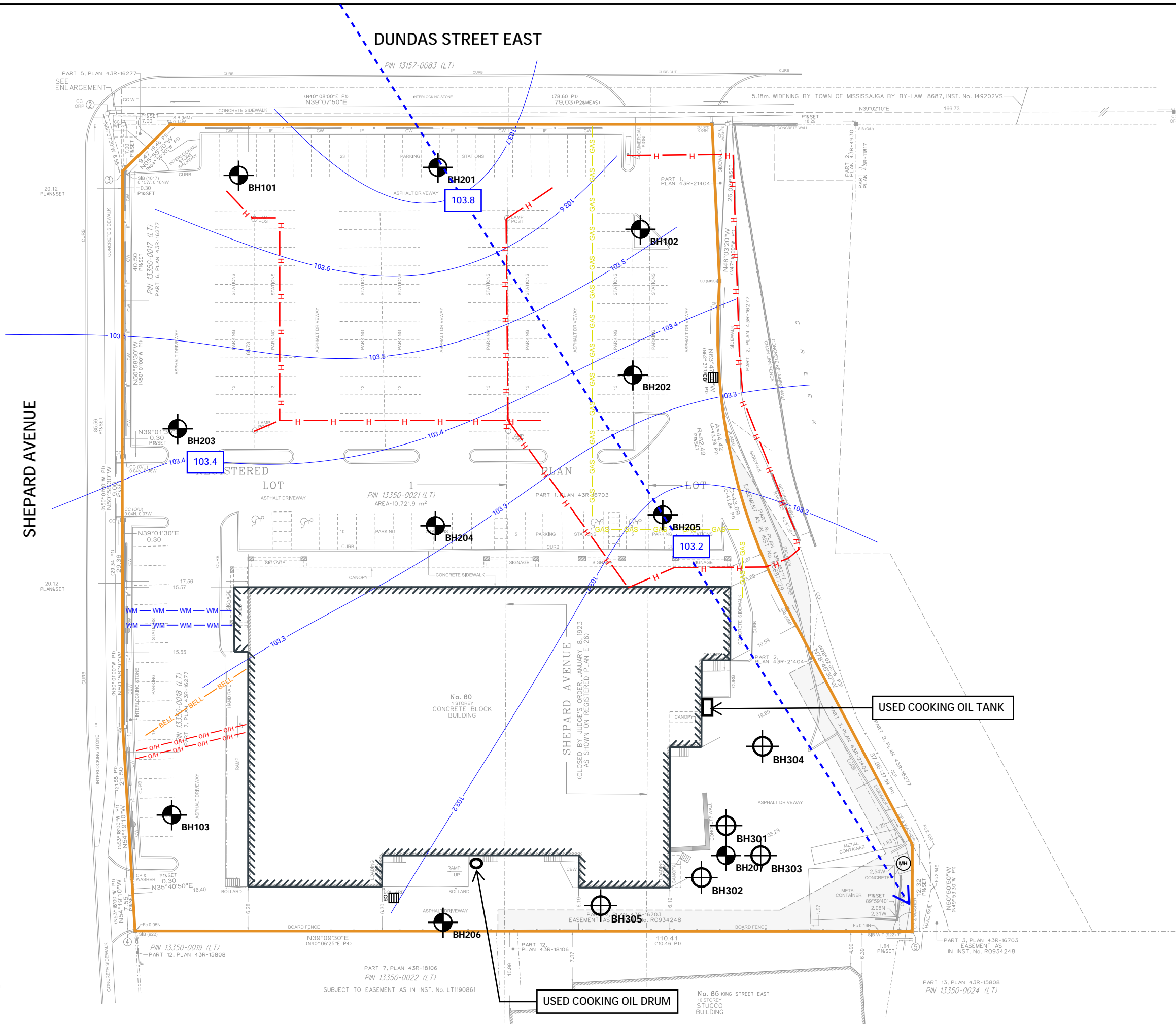


Date
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Job No
21-067

Figure No
FIGURE 6



Sample Name	BH 101 SS2	DUP 1 (BH 101 SS2)		
COC ID #	L2583177-2	L2583177-14		
Date	03-May-2021	03-May-2021		
Depth of Sample (m)	0.8 - 1.4	0.8 - 1.4		
Elev of Sample (masl)	110.1 - 109.5	110.1 - 109.5		
Parameter				
Other Regulated Parameters (ORPs)				
Boron (hot water soluble)	µg/g	1.5	0.14	0.14

Sample Name	BH203 SS1	BH203 SS4		
COC ID #	L2691773	L2691773		
Date	3/7/2022	3/7/2022		
Depth of Sample (m)	0.2 - 0.8	2.3 - 2.9		
Elev of Sample (masl)	109.8	108.0 - 107.4		
Parameter				
Other Regulated Parameters (ORPs)				
Boron (hot water soluble)	µg/g	1.5	0.17	0.27

Sample Name	BH 103 SS1		
COC ID #	L2583177-10		
Date	03-May-2021		
Depth of Sample (m)	0.2 - 0.8		
Elev of Sample (masl)	109.2 - 108.6		
Parameter			
Other Regulated Parameters (ORPs)			
Boron (hot water soluble)	µg/g	1.5	0.23

Sample Name	BH206 SS2	BH206 SS3B		
COC ID #	L2693469	L2693469		
Date	3/16/2022	3/16/2022		
Depth of Sample (m)	0.8 - 1.4	1.8 - 2.1		
Elev of Sample (masl)	107.4 - 106.8	106.3 - 106.0		
Parameter				
Other Regulated Parameters (ORPs)				
Boron (hot water soluble)	µg/g	1.5	0.17	0.21

Sample Name	BH201 SS1B	BH201 SS4		
COC ID #	L2693469	L2693469		
Date	3/15/2022	3/15/2022		
Depth of Sample (m)	0.6 - 0.8	2.3 - 2.9		
Elev of Sample (masl)	109.9 - 109.7	108.2 - 107.6		
Parameter				
Other Regulated Parameters (ORPs)				
Boron (hot water soluble)	µg/g	1.5	0.35	0.46

Sample Name	BH 102 SS3		
COC ID #	L2583177-6		
Date	03-May-2021		
Depth of Sample (m)	1.5 - 2.1		
Elev of Sample (masl)	108.5 - 107.9		
Parameter			
Other Regulated Parameters (ORPs)			
Boron (hot water soluble)	µg/g	1.5	0.14

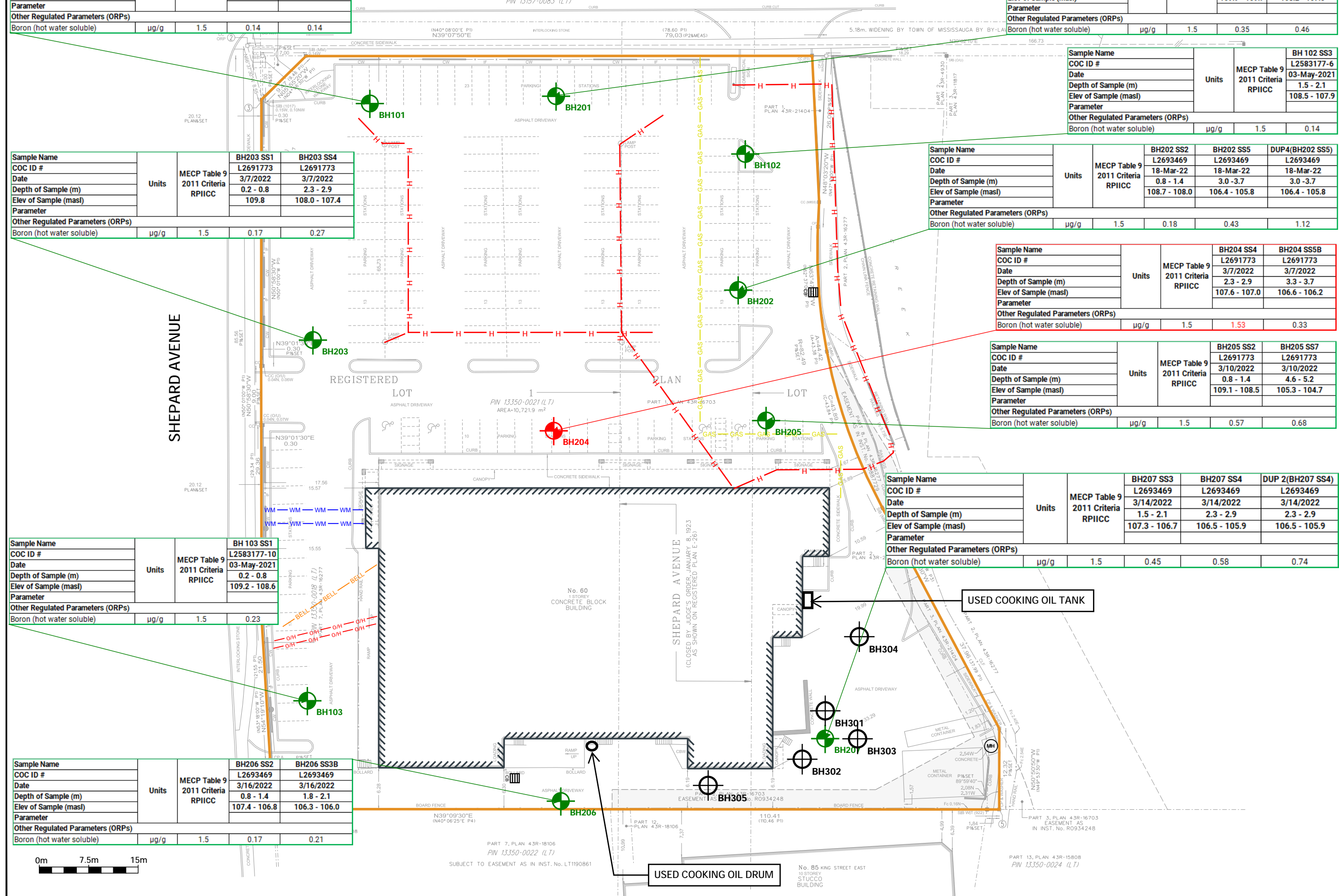
Sample Name	BH202 SS2	BH202 SS5	DUP4(BH202 SS5)		
COC ID #	L2693469	L2693469	L2693469		
Date	18-Mar-22	18-Mar-22	18-Mar-22		
Depth of Sample (m)	0.8 - 1.4	3.0 - 3.7	3.0 - 3.7		
Elev of Sample (masl)	108.7 - 108.0	106.4 - 105.8	106.4 - 105.8		
Parameter					
Other Regulated Parameters (ORPs)					
Boron (hot water soluble)	µg/g	1.5	0.18	0.43	1.12

Sample Name	BH204 SS4	BH204 SS5B		
COC ID #	L2691773	L2691773		
Date	3/7/2022	3/7/2022		
Depth of Sample (m)	2.3 - 2.9	3.3 - 3.7		
Elev of Sample (masl)	107.6 - 107.0	106.6 - 106.2		
Parameter				
Other Regulated Parameters (ORPs)				
Boron (hot water soluble)	µg/g	1.5	1.53	0.33

Sample Name	BH205 SS2	BH205 SS7		
COC ID #	L2691773	L2691773		
Date	3/10/2022	3/10/2022		
Depth of Sample (m)	0.8 - 1.4	4.6 - 5.2		
Elev of Sample (masl)	109.1 - 108.5	105.3 - 104.7		
Parameter				
Other Regulated Parameters (ORPs)				
Boron (hot water soluble)	µg/g	1.5	0.57	0.68

Sample Name	BH207 SS3	BH207 SS4	DUP 2(BH207 SS4)		
COC ID #	L2693469	L2693469	L2693469		
Date	3/14/2022	3/14/2022	3/14/2022		
Depth of Sample (m)	1.5 - 2.1	2.3 - 2.9	2.3 - 2.9		
Elev of Sample (masl)	107.3 - 106.7	106.5 - 105.9	106.5 - 105.9		
Parameter					
Other Regulated Parameters (ORPs)					
Boron (hot water soluble)	µg/g	1.5	0.45	0.58	0.74

DUNDAS STREET EAST



GROUND
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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING STRUCTURE
- MONITORING WELL BY GROUNDED
- BOREHOLE BY GROUNDED
- GAS
- ELECTRICAL
- BURIED HYDRO
- OVERHEAD HYDRO
- WATER
- COMMUNICATION
- SANITARY
- STORM
- MANHOLE
- CATCH BASIN

Note

Other Regulated Parameters (ORPs)	Units	MECP Table 9 2011 Criteria RPIICC
Boron (hot water soluble)	µg/g	1.5

Reference

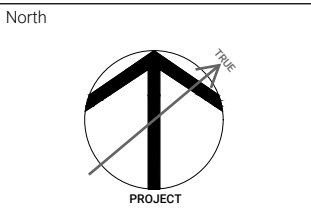
Survey Drawing no. 20-21-14108-00.
Prepared by Aksan Piller Corporation Ltd.
Dated April 5, 2021.

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**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title

**ORP EXCEEDANCES IN
SOIL - PLAN VIEW**



Date

OCTOBER 2022

Scale

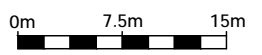
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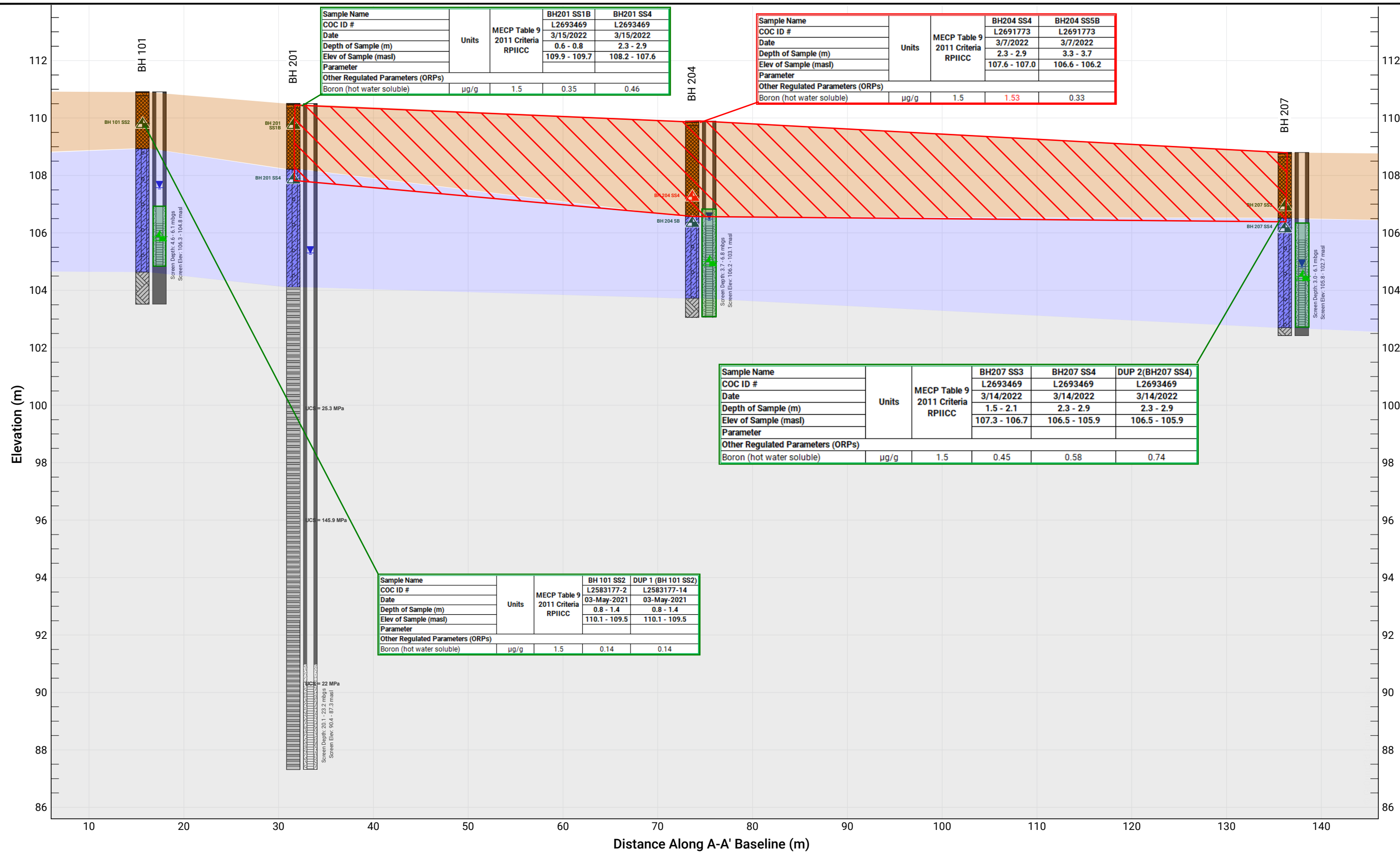
Job No

21-067

Figure No

FIGURE 7





Sample Name	BH201 SS1B	BH201 SS4
COC ID #	L2693469	L2693469
Date	3/15/2022	3/15/2022
Depth of Sample (m)	0.6 - 0.8	2.3 - 2.9
Elev of Sample (masl)	109.9 - 109.7	108.2 - 107.6
Parameter		
Other Regulated Parameters (ORPs)		
Boron (hot water soluble)	µg/g 1.5	0.35 0.46

Sample Name	BH204 SS4	BH204 SS5B
COC ID #	L2691773	L2691773
Date	3/7/2022	3/7/2022
Depth of Sample (m)	2.3 - 2.9	3.3 - 3.7
Elev of Sample (masl)	107.6 - 107.0	106.6 - 106.2
Parameter		
Other Regulated Parameters (ORPs)		
Boron (hot water soluble)	µg/g 1.5	1.53 0.33

Sample Name	BH207 SS3	BH207 SS4	DUP 2(BH207 SS4)
COC ID #	L2693469	L2693469	L2693469
Date	3/14/2022	3/14/2022	3/14/2022
Depth of Sample (m)	1.5 - 2.1	2.3 - 2.9	2.3 - 2.9
Elev of Sample (masl)	107.3 - 106.7	106.5 - 105.9	106.5 - 105.9
Parameter			
Other Regulated Parameters (ORPs)			
Boron (hot water soluble)	µg/g 1.5	0.45 0.58	0.74

Sample Name	BH 101 SS2	DUP 1 (BH 101 SS2)
COC ID #	L2583177-2	L2583177-14
Date	03-May-2021	03-May-2021
Depth of Sample (m)	0.8 - 1.4	0.8 - 1.4
Elev of Sample (masl)	110.1 - 109.5	110.1 - 109.5
Parameter		
Other Regulated Parameters (ORPs)		
Boron (hot water soluble)	µg/g 1.5	0.14 0.14

LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS TILLS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SS2 SOIL SAMPLE LOCATION MEETS STANDARD
- SS1 SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Other Regulated Parameters (ORPs)	Units	MECP Table 9 2011 Criteria RPIICC
Boron (hot water soluble)	µg/g	1.5

Reference

Project

**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
SECTION A-A' ORP EXCEEDANCES

North

Date
OCTOBER 2022

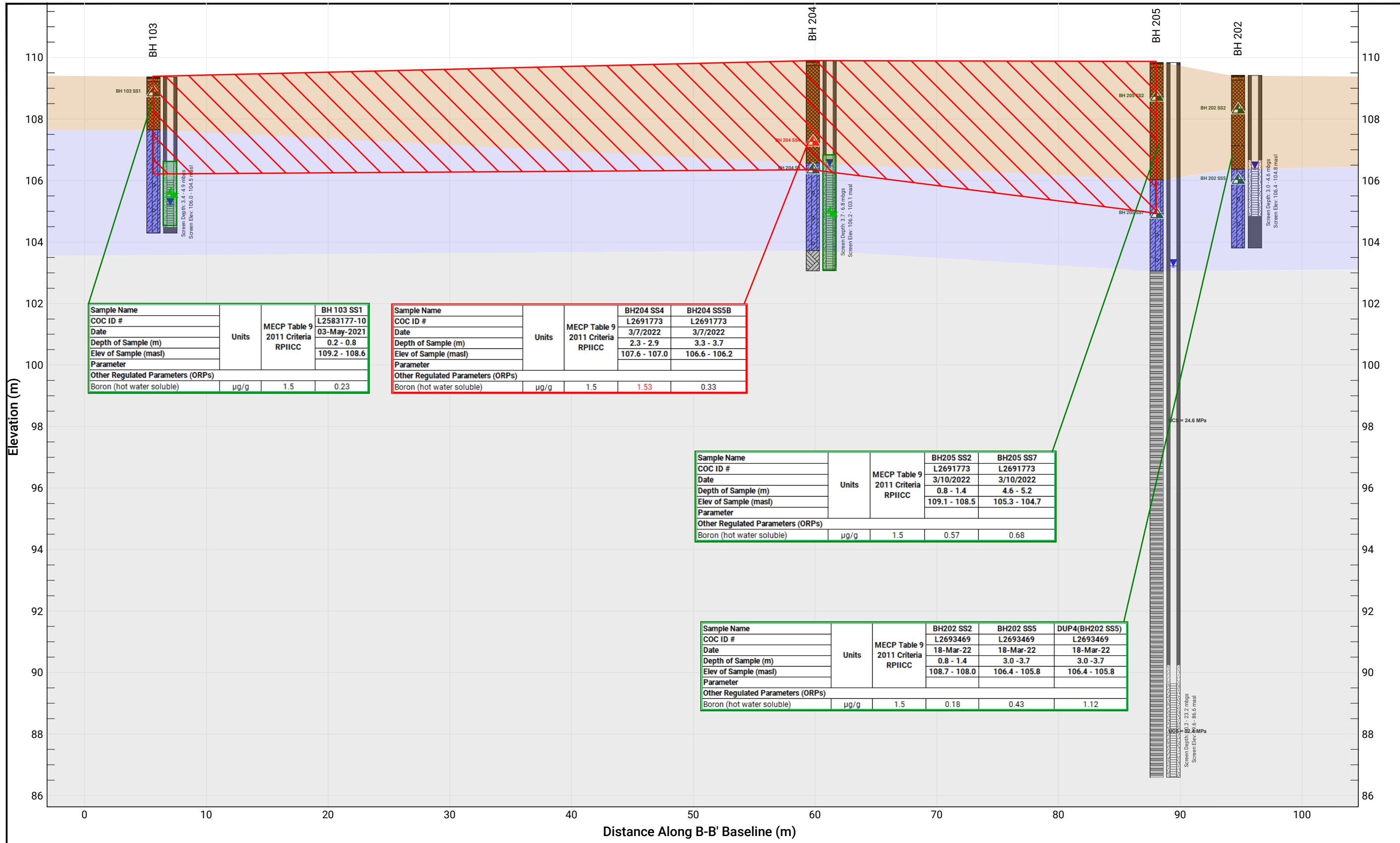
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21-067

Figure No
FIGURE 8

BOREHOLE STRATIGRAPHY LEGEND

Asphalt	Bedrock (inferred)
Aggregate	Shale
Fill	Clayey Silt Till



LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS TILLS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SS2▲ SOIL SAMPLE LOCATION MEETS STANDARD
- SS1▲ SOIL SAMPLE LOCATION EXCEEDS STANDARD
- ▲ GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- ▽ water level, unstabilized
- ▽ water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Other Regulated Parameters (ORPs)	Units	MECP Table 9 2011 Criteria RPIICC
Boron (hot water soluble)	µg/g	1.5

Reference

Project

**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
SECTION B-B' ORP EXCEEDANCES

North

Date
OCTOBER 2022

Scale
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Job No
21-067

Figure No
FIGURE 9

BOREHOLE STRATIGRAPHY LEGEND

 Asphalt	 Bedrock (inferred)
 Aggregate	 Shale
 Fill	 Clayey Silt
	 Till

LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS TILLS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SS2 SOIL SAMPLE LOCATION MEETS STANDARD
- SS1 SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Polycyclic Aromatic Hydrocarbons (PAHs)	Units	MECP Table 9 2011 Criteria RPIICC
Acenaphthene	µg/g	0.072

Reference

Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**SECTION A-A' PAH
EXCEEDANCES**

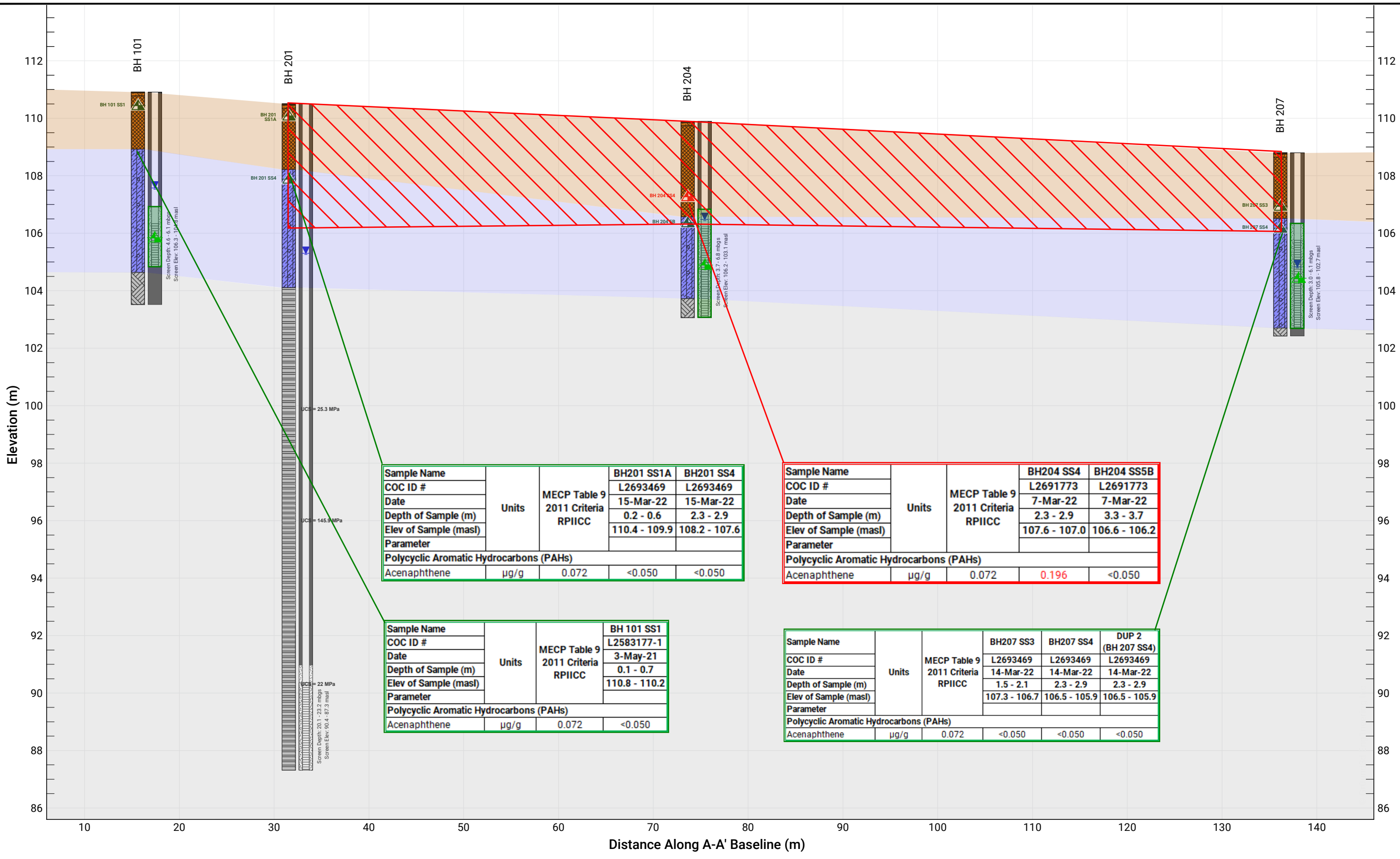
North

Date
OCTOBER 2022

Scale
AS INDICATED

Job No
21-067

Figure No
FIGURE 11



Sample Name			BH201 SS1A	BH201 SS4
COC ID #			L2693469	L2693469
Date			15-Mar-22	15-Mar-22
Depth of Sample (m)	Units	MECP Table 9 2011 Criteria RPIICC	0.2 - 0.6	2.3 - 2.9
Elev of Sample (masl)			110.4 - 109.9	108.2 - 107.6
Parameter				
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	µg/g	0.072	<0.050	<0.050

Sample Name			BH204 SS4	BH204 SS5B
COC ID #			L2691773	L2691773
Date			7-Mar-22	7-Mar-22
Depth of Sample (m)	Units	MECP Table 9 2011 Criteria RPIICC	2.3 - 2.9	3.3 - 3.7
Elev of Sample (masl)			107.6 - 107.0	106.6 - 106.2
Parameter				
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	µg/g	0.072	0.196	<0.050

Sample Name			BH 101 SS1
COC ID #			L2583177-1
Date			3-May-21
Depth of Sample (m)	Units	MECP Table 9 2011 Criteria RPIICC	0.1 - 0.7
Elev of Sample (masl)			110.8 - 110.2
Parameter			
Polycyclic Aromatic Hydrocarbons (PAHs)			
Acenaphthene	µg/g	0.072	<0.050

Sample Name			BH207 SS3	BH207 SS4	DUP 2 (BH 207 SS4)
COC ID #			L2693469	L2693469	L2693469
Date			14-Mar-22	14-Mar-22	14-Mar-22
Depth of Sample (m)	Units	MECP Table 9 2011 Criteria RPIICC	1.5 - 2.1	2.3 - 2.9	2.3 - 2.9
Elev of Sample (masl)			107.3 - 106.7	106.5 - 105.9	106.5 - 105.9
Parameter					
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	µg/g	0.072	<0.050	<0.050	<0.050

BOREHOLE STRATIGRAPHY LEGEND

- Asphalt
- Aggregate
- Fill
- Clayey Silt Till
- Bedrock (inferred)
- Shale

LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS TILLS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SS2 SOIL SAMPLE LOCATION MEETS STANDARD
- SS1 SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Polycyclic Aromatic Hydrocarbons (PAHs)	Units	MECP Table 9 2011 Criteria RPIICC
Acenaphthene	µg/g	0.072

Reference

Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**SECTION B-B' PAH
EXCEEDANCES**

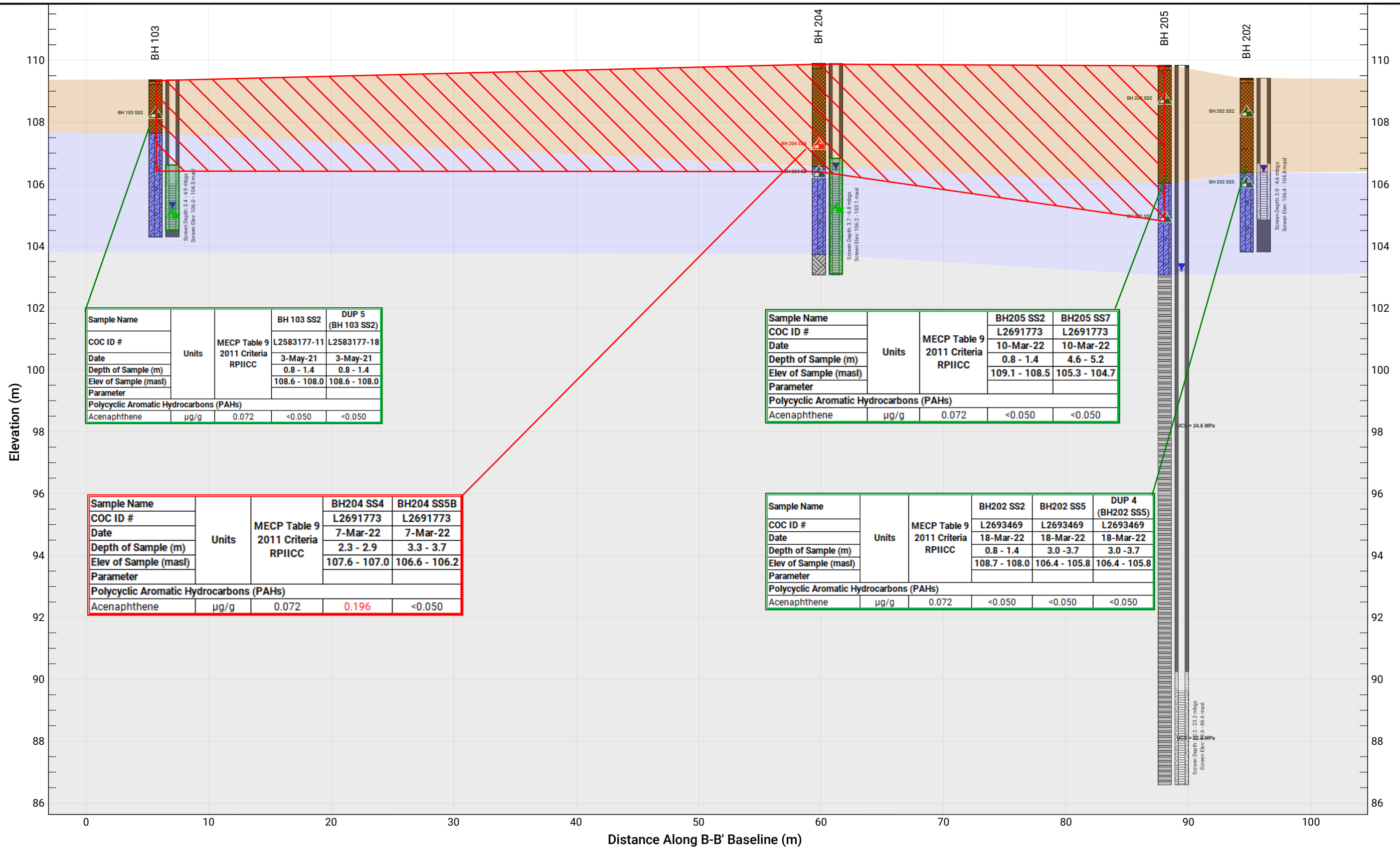
North

Date
OCTOBER 2022

Scale
AS INDICATED

Job No
21-067

Figure No
FIGURE 12



Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH 103 SS2	DUP 5 (BH 103 SS2)
COC ID #			L2583177-11	L2583177-18
Date			3-May-21	3-May-21
Depth of Sample (m)			0.8 - 1.4	0.8 - 1.4
Elev of Sample (masl)			108.6 - 108.0	108.6 - 108.0
Parameter				
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	µg/g	0.072	<0.050	<0.050

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH205 SS2	BH205 SS7
COC ID #			L2691773	L2691773
Date			10-Mar-22	10-Mar-22
Depth of Sample (m)			0.8 - 1.4	4.6 - 5.2
Elev of Sample (masl)			109.1 - 108.5	105.3 - 104.7
Parameter				
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	µg/g	0.072	<0.050	<0.050

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH204 SS4	BH204 SS5B
COC ID #			L2691773	L2691773
Date			7-Mar-22	7-Mar-22
Depth of Sample (m)			2.3 - 2.9	3.3 - 3.7
Elev of Sample (masl)			107.6 - 107.0	106.6 - 106.2
Parameter				
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	µg/g	0.072	0.196	<0.050

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH202 SS2	BH202 SS5	DUP 4 (BH202 SS5)
COC ID #			L2693469	L2693469	L2693469
Date			18-Mar-22	18-Mar-22	18-Mar-22
Depth of Sample (m)			0.8 - 1.4	3.0 - 3.7	3.0 - 3.7
Elev of Sample (masl)			108.7 - 108.0	106.4 - 105.8	106.4 - 105.8
Parameter					
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	µg/g	0.072	<0.050	<0.050	<0.050

BOREHOLE STRATIGRAPHY LEGEND

- Asphalt
- Aggregate
- Fill
- Clayey Silt Till
- Bedrock (inferred)
- Shale

DUNDAS STREET EAST

PIN 13157-0083 (LT)

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH101 SS4 (BH101 SS4)	DUP 3 (BH101 SS4)
COC ID #			L2583177-4	L2583177-16
Date			3-May-21	3-May-21
Depth of Sample (m)			2.3 - 2.9	2.3 - 2.9
Elev of Sample (mast)			108.6 - 108.0	108.6 - 108.0
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	13	14
Petroleum Hydrocarbons F3	µg/g	240	50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH203 SS2	BH203 SS6
COC ID #			L2691773	L2691773
Date			7-Mar-22	7-Mar-22
Depth of Sample (m)			0.8 - 1.4	4.6 - 5.2
Elev of Sample (mast)			109.5 - 108.9	105.7 - 105.1
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	496
Petroleum Hydrocarbons F3	µg/g	240	<50	939
Petroleum Hydrocarbons F4	µg/g	120	<50	880
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	2310
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	<250
Chromatogram returned to baseline at nC50	Yes / No		YES	NO

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH102 SS6B
COC ID #			L2583177-8
Date			3-May-21
Depth of Sample (m)			4.0 - 4.4
Elev of Sample (mast)			106.0 - 105.6
Parameter			
Petroleum Hydrocarbons (PHCs)			
Petroleum Hydrocarbons F1	µg/g	25	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50
Petroleum Hydrocarbons F4	µg/g	120	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA
Chromatogram returned to baseline at nC50	Yes / No		YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH204 SS4	BH204 SS6
COC ID #			L2691773	L2691773
Date			7-Mar-22	7-Mar-22
Depth of Sample (m)			2.3 - 2.9	4.6 - 5.0
Elev of Sample (mast)			107.6 - 107.0	105.3 - 104.9
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	7.4	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	7.4	<5.0
Petroleum Hydrocarbons F2	µg/g	10	579	<10
Petroleum Hydrocarbons F3	µg/g	240	437	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	1020	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH205 SS3	BH205 SS6A
COC ID #			L2691773	L2691773
Date			10-Mar-22	10-Mar-22
Depth of Sample (m)			1.5 - 2.1	3.8 - 4.4
Elev of Sample (mast)			108.3 - 107.7	106.0 - 105.5
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH103 SS3B
COC ID #			L2583177-12
Date			3-May-21
Depth of Sample (m)			1.7 - 2.1
Elev of Sample (mast)			107.6 - 107.2
Parameter			
Petroleum Hydrocarbons (PHCs)			
Petroleum Hydrocarbons F1	µg/g	25	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0
Petroleum Hydrocarbons F2	µg/g	10	21
Petroleum Hydrocarbons F3	µg/g	240	67
Petroleum Hydrocarbons F4	µg/g	120	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	88
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA
Chromatogram returned to baseline at nC50	Yes / No		YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH305 SS2	BH305 SS4
COC ID #			C2R8361	C2R8361
Date			26-Sep-22	26-Sep-22
Depth of Sample (m)			0.8 - 1.5	2.3 - 3.0
Elev of Sample (mast)			107.5 - 106.8	106.0 - 105.3
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<10	<10
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10	<10
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH206 SS3A	BH206 SS5
COC ID #			L2693469	L2693469
Date			16-Mar-22	16-Mar-22
Depth of Sample (m)			1.5 - 1.8	3.0 - 3.7
Elev of Sample (mast)			106.6 - 106.3	105.1 - 104.5
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH201 SS3	BH201 SS6
COC ID #			L2693469	L2693469
Date			15-Mar-22	15-Mar-22
Depth of Sample (m)			1.5 - 2.1	4.6 - 5.2
Elev of Sample (mast)			109.0 - 108.4	105.9 - 105.3
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	372	<50
Petroleum Hydrocarbons F4	µg/g	120	797	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	1170	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	2130	NA
Chromatogram returned to baseline at nC50	Yes / No		NO	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH202 SS3B	BH202 SS6	DUP 5 (BH202 SS6)
COC ID #			L2693469	L2693469	L2693469
Date			18-Mar-22	18-Mar-22	18-Mar-22
Depth of Sample (m)			1.9 - 2.1	4.6 - 5.2	4.6 - 5.2
Elev of Sample (mast)			107.5 - 107.3	104.8 - 104.2	104.8 - 104.2
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH304 SS1	DUP 1 (Dup of BH304 SS1)	BH304 SS5
COC ID #			C2R8361	C2R8361	C2R8361
Date			26-Sep-22	26-Sep-22	26-Sep-22
Depth of Sample (m)			0.8 - 1.2	0.8 - 1.2	2.4 - 3.0
Elev of Sample (mast)			108.1 - 107.6	108.1 - 107.6	106.4 - 105.8
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<10	<10	<10
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10	<10	<10
Petroleum Hydrocarbons F2	µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	210	140	<50
Petroleum Hydrocarbons F4	µg/g	120	270	110	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	1600	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		NO	YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH301 SS2	BH301 SS4
COC ID #			C2R8361	C2R8361
Date			26-Sep-22	26-Sep-22
Depth of Sample (m)			1.1 - 1.5	2.3 - 3.0
Elev of Sample (mast)			107.7 - 107.3	106.5 - 105.8
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<10	<10
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10	<10
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	80	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH207 SS2	DUP 1 (BH207 SS2)	BH207 SS7
COC ID #			L2693469	L2693469	L2693469
Date			14-Mar-22	14-Mar-22	14-Mar-22
Depth of Sample (m)			0.8 - 1.4	0.8 - 1.4	5.2 - 5.8
Elev of Sample (mast)			108.0 - 107.4	108.0 - 107.4	103.6 - 103.0
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	156	97	<50
Petroleum Hydrocarbons F4	µg/g	120	211	150	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	367	247	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	1110	<250	NA
Chromatogram returned to baseline at nC50	Yes / No		NO	NO	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH303 SS2	BH303 SS4
COC ID #			C2R8361	C2R8361
Date			26-Sep-22	26-Sep-22
Depth of Sample (m)			1.1 - 1.5	2.4 - 3.0
Elev of Sample (mast)			107.7 - 107.2	106.4 - 105.7
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<10	13
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10	<10
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	270	<50
Petroleum Hydrocarbons F4	µg/g	120	420	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	2500	NA
Chromatogram returned to baseline at nC50	Yes / No		NO	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH302 SS2
COC ID #			C2R8361
Date			26-Sep-22
Depth of Sample (m)			1.1 - 1.5
Elev of Sample (mast)			1

LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS SILTS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SOIL SAMPLE LOCATION MEETS STANDARD
- SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Petroleum Hydrocarbons (PHCs)	Units	MECP Table 9 2011 Criteria RPIICC
Petroleum Hydrocarbons F1	µg/g	25
Petroleum Hydrocarbons F1-BTEX	µg/g	NV
Petroleum Hydrocarbons F2	µg/g	10
Petroleum Hydrocarbons F3	µg/g	240
Petroleum Hydrocarbons F4	µg/g	120
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV
Chromatogram returned to baseline at nC50	Yes / No	YES

Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**SECTION A-A' PHC
EXCEEDANCES**

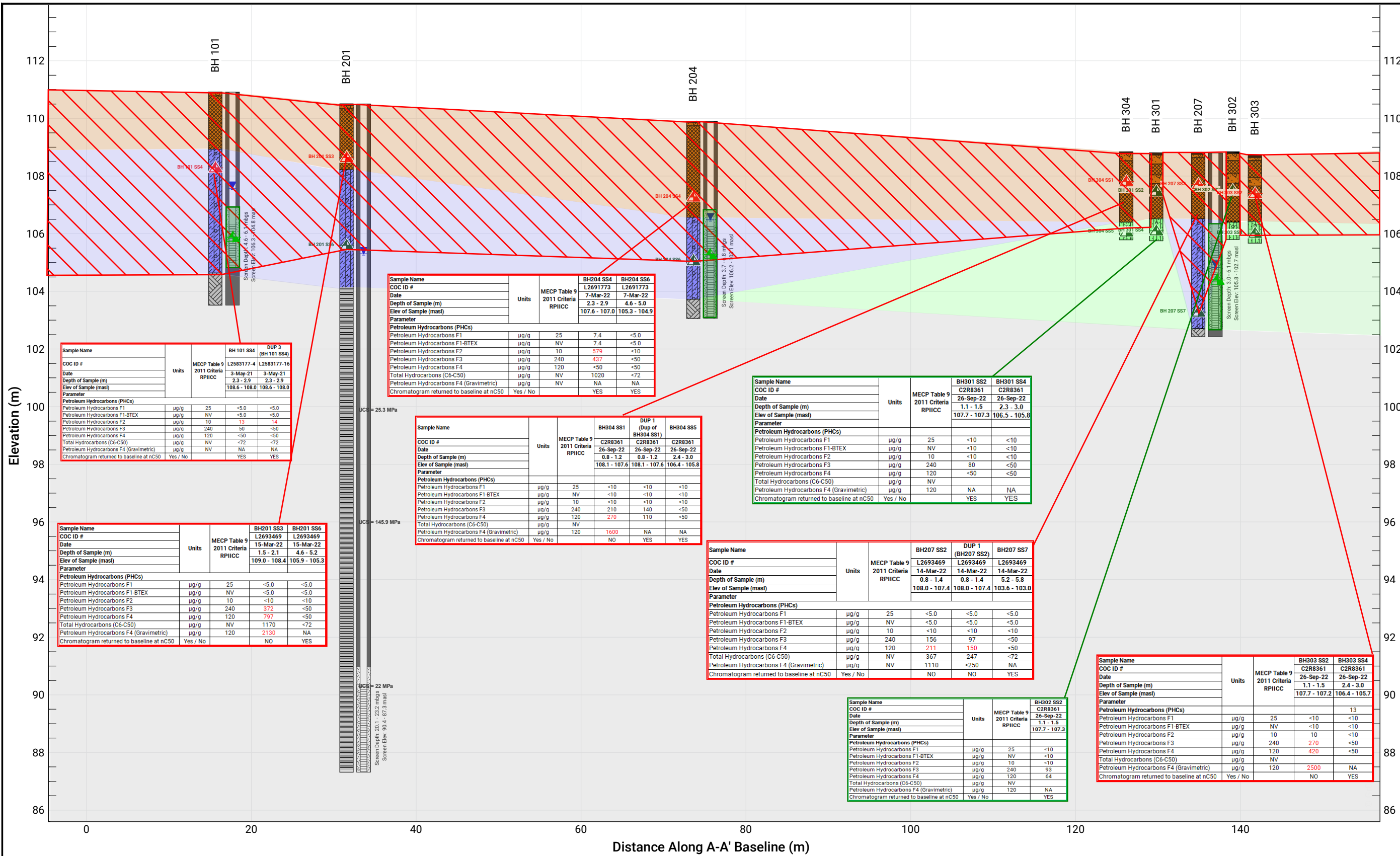
North

Date
OCTOBER 2022

Scale
AS INDICATED

Job No
21-067

Figure No
FIGURE 14



Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH204 SS4 L2691773	BH204 SS6 L2691773
Date				7-Mar-22	7-Mar-22
Depth of Sample (m)				2.3 - 2.9	4.6 - 5.0
Elev of Sample (masl)				107.6 - 107.0	105.3 - 104.9
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1		µg/g	25	7.4	<5.0
Petroleum Hydrocarbons F1-BTEX		µg/g	NV	7.4	<5.0
Petroleum Hydrocarbons F2		µg/g	10	579	<10
Petroleum Hydrocarbons F3		µg/g	240	437	<50
Petroleum Hydrocarbons F4		µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)		µg/g	NV	1020	<72
Petroleum Hydrocarbons F4 (Gravimetric)		µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50		Yes / No		YES	YES

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH301 SS2 C2R8361	BH301 SS4 C2R8361
Date				26-Sep-22	26-Sep-22
Depth of Sample (m)				1.1 - 1.5	2.3 - 3.0
Elev of Sample (masl)				107.7 - 107.3	106.5 - 105.8
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1		µg/g	25	<10	<10
Petroleum Hydrocarbons F1-BTEX		µg/g	NV	<10	<10
Petroleum Hydrocarbons F2		µg/g	10	<10	<10
Petroleum Hydrocarbons F3		µg/g	240	80	<50
Petroleum Hydrocarbons F4		µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)		µg/g	NV	<50	<50
Petroleum Hydrocarbons F4 (Gravimetric)		µg/g	120	NA	NA
Chromatogram returned to baseline at nC50		Yes / No		YES	YES

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH304 SS1 C2R8361	DUP 1 (Dup of BH304 SS1) C2R8361	BH304 SS5 C2R8361
Date				26-Sep-22	26-Sep-22	26-Sep-22
Depth of Sample (m)				0.8 - 1.2	0.8 - 1.2	2.4 - 3.0
Elev of Sample (masl)				108.1 - 107.6	108.1 - 107.6	106.4 - 105.8
Parameter						
Petroleum Hydrocarbons (PHCs)						
Petroleum Hydrocarbons F1		µg/g	25	<10	<10	<10
Petroleum Hydrocarbons F1-BTEX		µg/g	NV	<10	<10	<10
Petroleum Hydrocarbons F2		µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3		µg/g	240	210	140	<50
Petroleum Hydrocarbons F4		µg/g	120	270	110	<50
Total Hydrocarbons (C6-C50)		µg/g	NV	<50	<50	<50
Petroleum Hydrocarbons F4 (Gravimetric)		µg/g	120	1600	NA	NA
Chromatogram returned to baseline at nC50		Yes / No		NO	YES	YES

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH207 SS2 L2693469	DUP 1 (BH207 SS2) L2693469	BH207 SS7 L2693469
Date				14-Mar-22	14-Mar-22	14-Mar-22
Depth of Sample (m)				0.8 - 1.4	0.8 - 1.4	5.2 - 5.8
Elev of Sample (masl)				108.0 - 107.4	108.0 - 107.4	103.6 - 103.0
Parameter						
Petroleum Hydrocarbons (PHCs)						
Petroleum Hydrocarbons F1		µg/g	25	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX		µg/g	NV	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F2		µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3		µg/g	240	156	97	<50
Petroleum Hydrocarbons F4		µg/g	120	211	150	<50
Total Hydrocarbons (C6-C50)		µg/g	NV	367	247	<72
Petroleum Hydrocarbons F4 (Gravimetric)		µg/g	NV	1110	<250	NA
Chromatogram returned to baseline at nC50		Yes / No		NO	NO	YES

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH302 SS2 C2R8361
Date				26-Sep-22
Depth of Sample (m)				1.1 - 1.5
Elev of Sample (masl)				107.7 - 107.3
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1		µg/g	25	<10
Petroleum Hydrocarbons F1-BTEX		µg/g	NV	<10
Petroleum Hydrocarbons F2		µg/g	10	<10
Petroleum Hydrocarbons F3		µg/g	240	93
Petroleum Hydrocarbons F4		µg/g	120	64
Total Hydrocarbons (C6-C50)		µg/g	NV	<50
Petroleum Hydrocarbons F4 (Gravimetric)		µg/g	120	NA
Chromatogram returned to baseline at nC50		Yes / No		YES

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH303 SS2 C2R8361	BH303 SS4 C2R8361
Date				26-Sep-22	26-Sep-22
Depth of Sample (m)				1.1 - 1.5	2.4 - 3.0
Elev of Sample (masl)				107.7 - 107.2	106.4 - 105.7
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1		µg/g	25	<10	<10
Petroleum Hydrocarbons F1-BTEX		µg/g	NV	<10	<10
Petroleum Hydrocarbons F2		µg/g	10	<10	<10
Petroleum Hydrocarbons F3		µg/g	240	270	<50
Petroleum Hydrocarbons F4		µg/g	120	420	<50
Total Hydrocarbons (C6-C50)		µg/g	NV	<50	<50
Petroleum Hydrocarbons F4 (Gravimetric)		µg/g	120	2500	NA
Chromatogram returned to baseline at nC50		Yes / No		NO	YES

BOREHOLE STRATIGRAPHY LEGEND

- Asphalt
- Bedrock (inferred)
- Aggregate
- Shale
- Fill
- Sandy Silt Till
- Clayey Silt Till

LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS TILLS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SS2 SOIL SAMPLE LOCATION MEETS STANDARD
- SS1 SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Petroleum Hydrocarbons (PHCs)	Units	MECP Table 9 2011 Criteria RPIICC
Petroleum Hydrocarbons F1	µg/g	25
Petroleum Hydrocarbons F1-BTEX	µg/g	NV
Petroleum Hydrocarbons F2	µg/g	10
Petroleum Hydrocarbons F3	µg/g	240
Petroleum Hydrocarbons F4	µg/g	120
Total Hydrocarbons (C6-C50)	µg/g	NV
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV
Chromatogram returned to baseline at nC50	Yes / No	

Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
SECTION B-B' PHC EXCEEDANCES

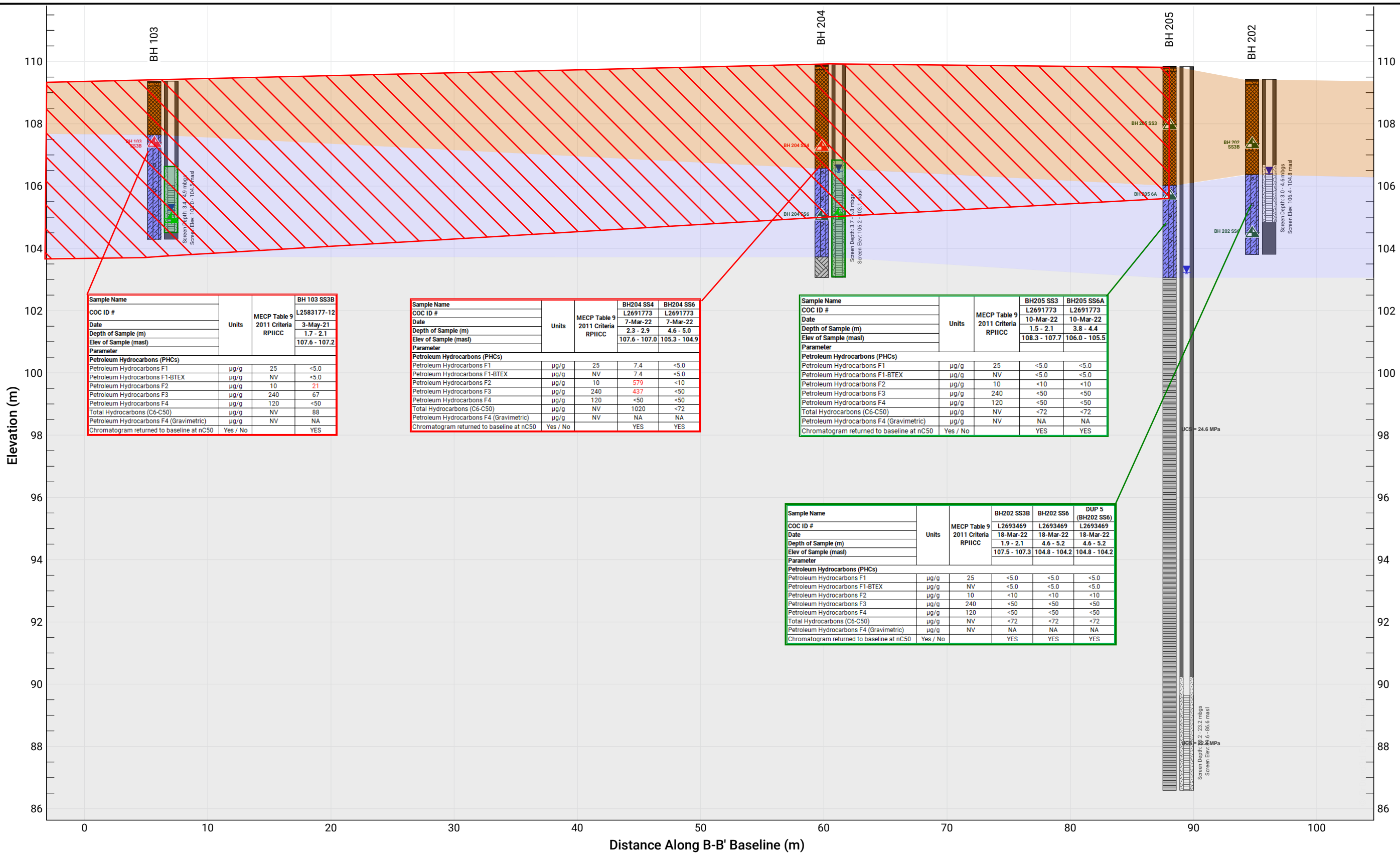
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OCTOBER 2022

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AS INDICATED

Job No
21-067

Figure No
FIGURE 15



Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH 103 SS3B
COC ID #			L2583177-12
Date			3-May-21
Depth of Sample (m)			1.7 - 2.1
Elev of Sample (masl)			107.6 - 107.2
Parameter			
Petroleum Hydrocarbons (PHCs)			
Petroleum Hydrocarbons F1	µg/g	25	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0
Petroleum Hydrocarbons F2	µg/g	10	21
Petroleum Hydrocarbons F3	µg/g	240	67
Petroleum Hydrocarbons F4	µg/g	120	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	88
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA
Chromatogram returned to baseline at nC50	Yes / No		YES

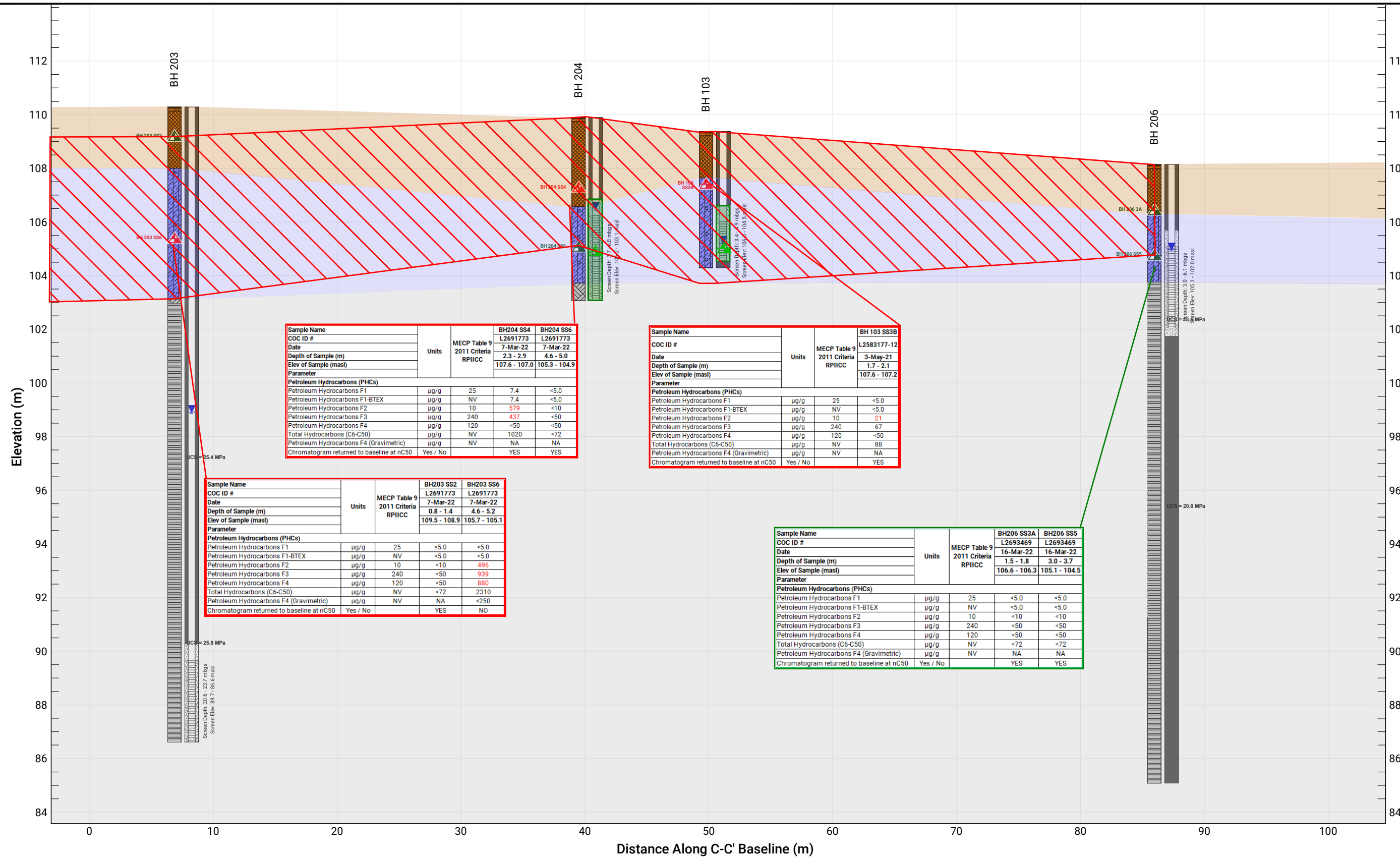
Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH204 SS4	BH204 SS6
COC ID #			L2691773	L2691773
Date			7-Mar-22	7-Mar-22
Depth of Sample (m)			2.3 - 2.9	4.6 - 5.0
Elev of Sample (masl)			107.6 - 107.0	105.3 - 104.9
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	7.4	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	7.4	<5.0
Petroleum Hydrocarbons F2	µg/g	10	579	<10
Petroleum Hydrocarbons F3	µg/g	240	437	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	1020	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH205 SS3	BH205 SS6A
COC ID #			L2691773	L2691773
Date			10-Mar-22	10-Mar-22
Depth of Sample (m)			1.5 - 2.1	3.8 - 4.4
Elev of Sample (masl)			108.3 - 107.7	106.0 - 105.5
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH202 SS3B	BH202 SS6	DUP 5 (BH202 SS6)
COC ID #			L2693469	L2693469	L2693469
Date			18-Mar-22	18-Mar-22	18-Mar-22
Depth of Sample (m)			1.9 - 2.1	4.6 - 5.2	4.6 - 5.2
Elev of Sample (masl)			107.5 - 107.3	104.8 - 104.2	104.8 - 104.2
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES	YES

BOREHOLE STRATIGRAPHY LEGEND

- Asphalt
- Bedrock (inferred)
- Aggregate
- Shale
- Fill
- Clayey Silt Till



Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH204 SS4 L2691773 7-Mar-22	BH204 SS6 L2691773 7-Mar-22
Depth of Sample (m)					
Elev of Sample (masl)					
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<5.0	7.4	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	7.4	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	579	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	437	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	1020	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA	NA
Chromatogram returned to baseline at nC50	Yes / No			YES	YES

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH 103 SS3B L2583177-12 3-May-21
Depth of Sample (m)				
Elev of Sample (masl)				
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	21
Petroleum Hydrocarbons F3	µg/g	240	<50	67
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	88
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA
Chromatogram returned to baseline at nC50	Yes / No			YES

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH203 SS2 L2691773 7-Mar-22	BH203 SS6 L2691773 7-Mar-22
Depth of Sample (m)					
Elev of Sample (masl)					
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	496	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	939	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	880	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	2310	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	<250	NA
Chromatogram returned to baseline at nC50	Yes / No			YES	NO

Sample Name	COC ID #	Units	MECP Table 9 2011 Criteria RPIICC	BH206 SS3A L2693469 16-Mar-22	BH206 SS5 L2693469 16-Mar-22
Depth of Sample (m)					
Elev of Sample (masl)					
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72	<72	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA	NA	NA
Chromatogram returned to baseline at nC50	Yes / No			YES	YES

LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS TILLS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SS2 SOIL SAMPLE LOCATION MEETS STANDARD
- SS1 SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Petroleum Hydrocarbons (PHCs)	Units	MECP Table 9 2011 Criteria RPIICC
Petroleum Hydrocarbons F1	µg/g	25
Petroleum Hydrocarbons F1-BTEX	µg/g	NV
Petroleum Hydrocarbons F2	µg/g	10
Petroleum Hydrocarbons F3	µg/g	240
Petroleum Hydrocarbons F4	µg/g	120
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV
Chromatogram returned to baseline at nC50	Yes / No	

Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**SECTION C-C' PHC
EXCEEDANCES**

North

BOREHOLE STRATIGRAPHY LEGEND

- Asphalt
- Bedrock (inferred)
- Aggregate
- Shale
- Fill
- Clayey Silt Till

Date
OCTOBER 2022

Scale
AS INDICATED

Job No
21-067

Figure No
FIGURE 16

LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS SILTS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SOIL SAMPLE LOCATION MEETS STANDARD
- SOIL SAMPLE LOCATION EXCEEDS STANDARD
- GROUNDWATER SAMPLE LOCATION MEETS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Petroleum Hydrocarbons (PHCs)	Units	MECP Table 9 2011 Criteria RPIICC
Petroleum Hydrocarbons F1	µg/g	25
Petroleum Hydrocarbons F1-BTEX	µg/g	NV
Petroleum Hydrocarbons F2	µg/g	10
Petroleum Hydrocarbons F3	µg/g	240
Petroleum Hydrocarbons F4	µg/g	120
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV
Chromatogram returned to baseline at nC50	Yes / No	

Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**SECTION D-D' PHC
EXCEEDANCES**

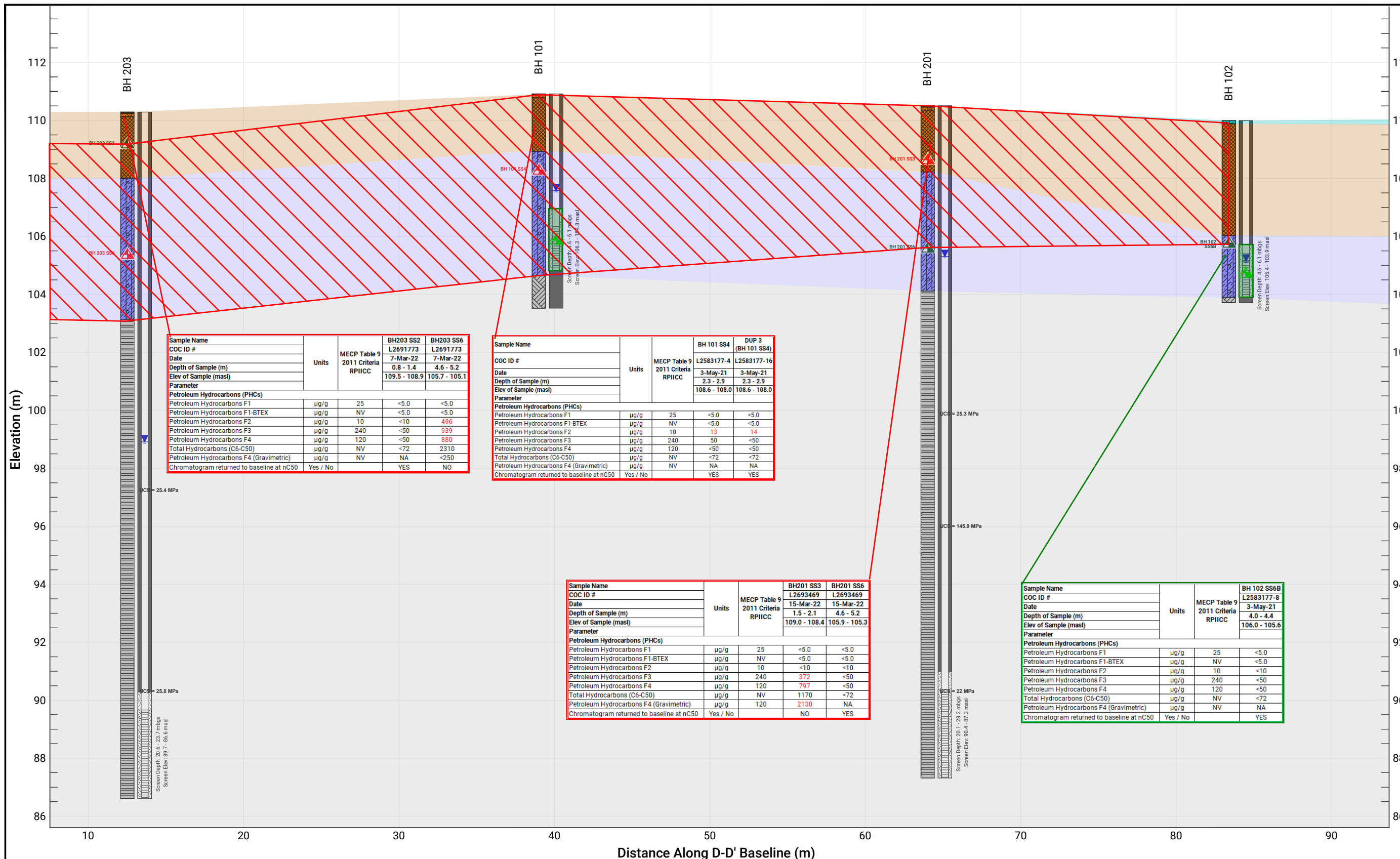
North

Date
OCTOBER 2022

Scale
AS INDICATED

Job No
21-067

Figure No
FIGURE 17



Sample Name		BH203 SS2	BH203 SS6
COC ID #		L2691773	L2691773
Date		7-Mar-22	7-Mar-22
Depth of Sample (m)	Units	0.8 - 1.4	4.6 - 5.2
Elev of Sample (mast)	MECP Table 9 2011 Criteria RPIICC	109.5 - 108.9	105.7 - 105.1
Parameter			
Petroleum Hydrocarbons (PHCs)			
Petroleum Hydrocarbons F1	µg/g	25	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50
Petroleum Hydrocarbons F4	µg/g	120	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	<250
Chromatogram returned to baseline at nC50	Yes / No	YES	NO

Sample Name		BH 101 SS4	DUP 3 (BH 101 SS4)
COC ID #		L2583177-4	L2583177-16
Date		3-May-21	3-May-21
Depth of Sample (m)	Units	2.3 - 2.9	2.3 - 2.9
Elev of Sample (mast)	MECP Table 9 2011 Criteria RPIICC	108.6 - 108.0	108.6 - 108.0
Parameter			
Petroleum Hydrocarbons (PHCs)			
Petroleum Hydrocarbons F1	µg/g	25	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0
Petroleum Hydrocarbons F2	µg/g	10	13
Petroleum Hydrocarbons F3	µg/g	240	50
Petroleum Hydrocarbons F4	µg/g	120	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	NA
Chromatogram returned to baseline at nC50	Yes / No	YES	YES

Sample Name		BH201 SS3	BH201 SS6
COC ID #		L2693469	L2693469
Date		15-Mar-22	15-Mar-22
Depth of Sample (m)	Units	1.5 - 2.1	4.6 - 5.2
Elev of Sample (mast)	MECP Table 9 2011 Criteria RPIICC	109.0 - 108.4	105.9 - 105.3
Parameter			
Petroleum Hydrocarbons (PHCs)			
Petroleum Hydrocarbons F1	µg/g	25	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50
Petroleum Hydrocarbons F4	µg/g	120	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	2130
Chromatogram returned to baseline at nC50	Yes / No	NO	YES

Sample Name		BH 102 SS6B
COC ID #		L2583177-8
Date		3-May-21
Depth of Sample (m)	Units	4.0 - 4.4
Elev of Sample (mast)	MECP Table 9 2011 Criteria RPIICC	106.0 - 105.6
Parameter		
Petroleum Hydrocarbons (PHCs)		
Petroleum Hydrocarbons F1	µg/g	25
Petroleum Hydrocarbons F1-BTEX	µg/g	NV
Petroleum Hydrocarbons F2	µg/g	10
Petroleum Hydrocarbons F3	µg/g	240
Petroleum Hydrocarbons F4	µg/g	120
Total Hydrocarbons (C6-C50)	µg/g	NV
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV
Chromatogram returned to baseline at nC50	Yes / No	YES

BOREHOLE STRATIGRAPHY LEGEND

- Asphalt
- Bedrock (inferred)
- Aggregate
- Topsoil
- Fill
- Shale
- Clayey Silt Till

LEGEND

- FILL
- GRAVELS (gravel to gravely sand)
- SILT TO SAND (not till)
- COHESIONLESS TILLS
- COHESIVE SOILS (clayey silt to clay, incl. tills)
- DISTURBED/REWORKED/ORGANIC
- SS2 SOIL SAMPLE LOCATION MEETS STANDARD
- SS1 SOIL SAMPLE LOCATION EXCEEDS STANDARD
- water level, unstabilized
- water level, stabilized
- APPROXIMATE EXTENT OF CONTAMINATION

Note

Petroleum Hydrocarbons (PHCs)	Units	MECP Table 9 2011 Criteria RPIICC
Petroleum Hydrocarbons F1	µg/g	25
Petroleum Hydrocarbons F1-BTEX	µg/g	NV
Petroleum Hydrocarbons F2	µg/g	10
Petroleum Hydrocarbons F3	µg/g	240
Petroleum Hydrocarbons F4	µg/g	120
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV
Chromatogram returned to baseline at nC50	Yes / No	YES

Project
**60 DUNDAS ST E,
MISSISSAUGA, ONTARIO**

Figure Title
**SECTION E-E' PHC
EXCEEDANCES**

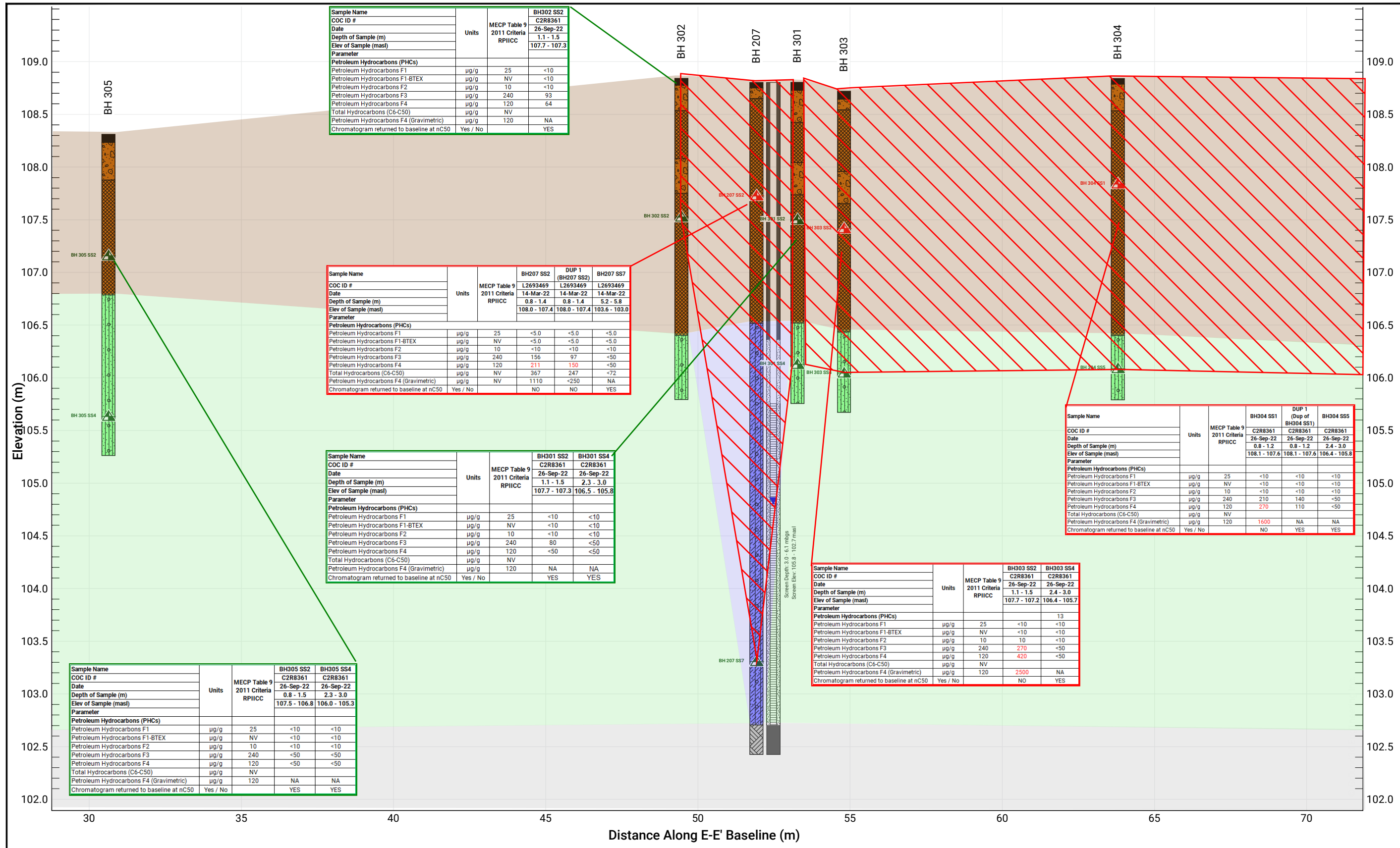
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Date
OCTOBER 2022

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AS INDICATED

Job No
21-067

Figure No
FIGURE 18



Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH302 SS2
COC ID #			C2R8361
Date			26-Sep-22
Depth of Sample (m)			1.1 - 1.5
Elev of Sample (masl)			107.7 - 107.3
Parameter			
Petroleum Hydrocarbons (PHCs)			
Petroleum Hydrocarbons F1	µg/g	25	<10
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10
Petroleum Hydrocarbons F2	µg/g	10	<10
Petroleum Hydrocarbons F3	µg/g	240	93
Petroleum Hydrocarbons F4	µg/g	120	64
Total Hydrocarbons (C6-C50)	µg/g	NV	NA
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	NA
Chromatogram returned to baseline at nC50	Yes / No		YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH207 SS2	DUP 1 (BH207 SS2)	BH207 SS7
COC ID #			L2693469	L2693469	L2693469
Date			14-Mar-22	14-Mar-22	14-Mar-22
Depth of Sample (m)			0.8 - 1.4	0.8 - 1.4	5.2 - 5.8
Elev of Sample (masl)			108.0 - 107.4	108.0 - 107.4	103.6 - 103.0
Parameter					
Petroleum Hydrocarbons (PHCs)					
Petroleum Hydrocarbons F1	µg/g	25	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<5.0	<5.0	<5.0
Petroleum Hydrocarbons F2	µg/g	10	<10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	156	97	<50
Petroleum Hydrocarbons F4	µg/g	120	211	150	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	367	247	<72
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	NV	1110	<250	NA
Chromatogram returned to baseline at nC50	Yes / No		NO	NO	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH301 SS2	BH301 SS4
COC ID #			C2R8361	C2R8361
Date			26-Sep-22	26-Sep-22
Depth of Sample (m)			1.1 - 1.5	2.3 - 3.0
Elev of Sample (masl)			107.7 - 107.3	106.5 - 105.8
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<10	<10
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10	<10
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	80	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	NA	NA
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH305 SS2	BH305 SS4
COC ID #			C2R8361	C2R8361
Date			26-Sep-22	26-Sep-22
Depth of Sample (m)			0.8 - 1.5	2.3 - 3.0
Elev of Sample (masl)			107.5 - 106.8	106.0 - 105.3
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<10	<10
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10	<10
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	<50	<50
Petroleum Hydrocarbons F4	µg/g	120	<50	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	NA	NA
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	NA	NA
Chromatogram returned to baseline at nC50	Yes / No		YES	YES

Sample Name	Units	MECP Table 9 2011 Criteria RPIICC	BH303 SS2	BH303 SS4
COC ID #			C2R8361	C2R8361
Date			26-Sep-22	26-Sep-22
Depth of Sample (m)			1.1 - 1.5	2.4 - 3.0
Elev of Sample (masl)			107.7 - 107.2	106.4 - 105.7
Parameter				
Petroleum Hydrocarbons (PHCs)				
Petroleum Hydrocarbons F1	µg/g	25	<10	<10
Petroleum Hydrocarbons F1-BTEX	µg/g	NV	<10	<10
Petroleum Hydrocarbons F2	µg/g	10	<10	<10
Petroleum Hydrocarbons F3	µg/g	240	270	<50
Petroleum Hydrocarbons F4	µg/g	120	420	<50
Total Hydrocarbons (C6-C50)	µg/g	NV	NA	NA
Petroleum Hydrocarbons F4 (Gravimetric)	µg/g	120	2500	NA
Chromatogram returned to baseline at nC50	Yes / No		NO	YES

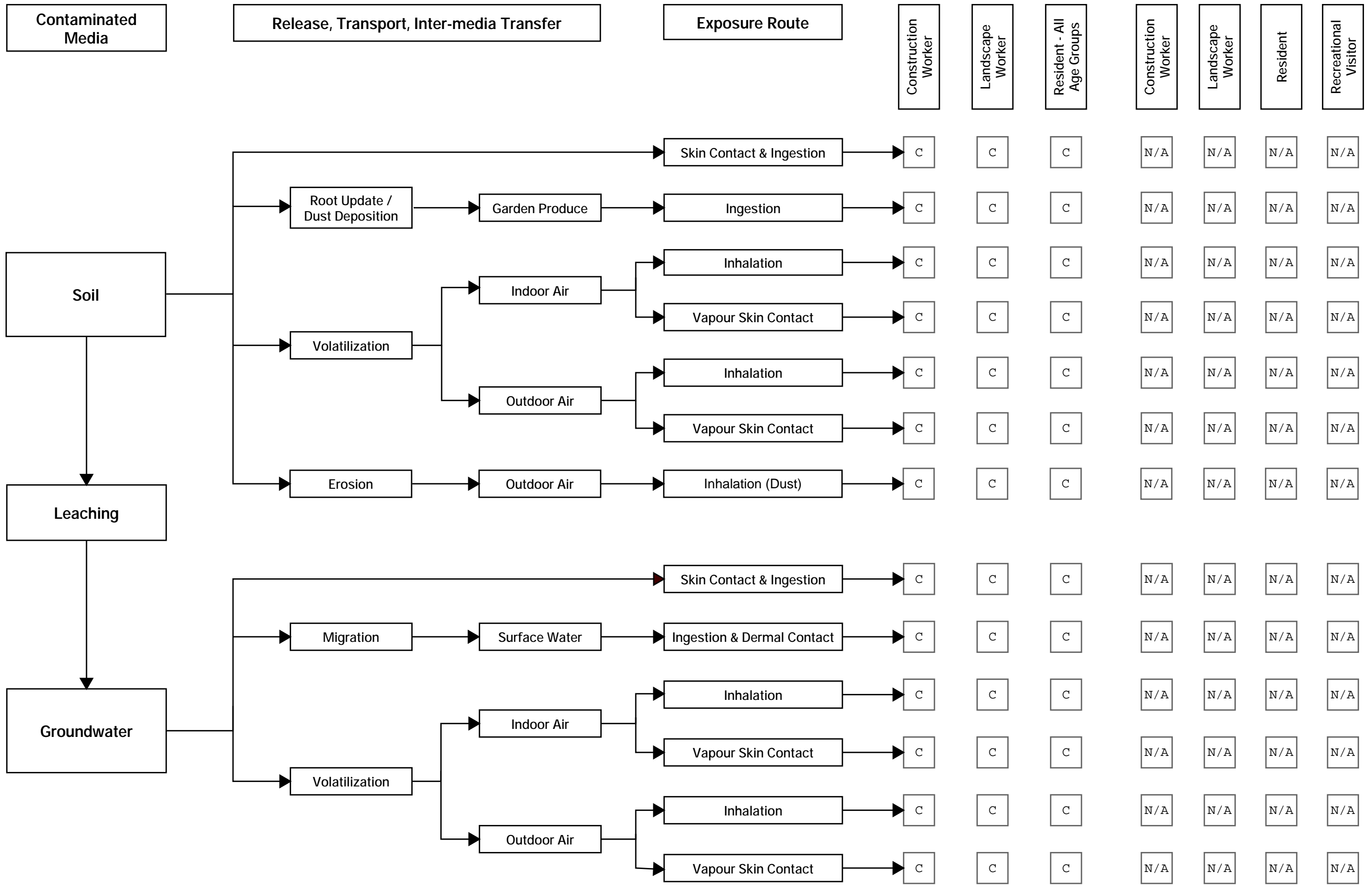
BOREHOLE STRATIGRAPHY LEGEND

- Asphalt
- Bedrock (inferred)
- Aggregate
- Sandy Silt Till
- Fill
- Clayey Silt Till



GROUND
ENGINEERING

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LEGEND

- C Pathway Complete
- I Pathway Incomplete
- X Pathway Blocked
- N/A Pathway Not Applicable for Receptor
- Pathway Completed
- - - → Pathway Incompleted

Note
 1. Construction Workers are considered protective of Utility Workers
 2. Landscape Workers are considered protective of Trespassers
 3. Residents are considered protective of Long Term Workers, Short Term Works and Site Visitors

Project
**60 DUNDAS ST E,
 MISSISSAUGA, ONTARIO**

Figure Title
**HUMAN HEALTH
 CSM**

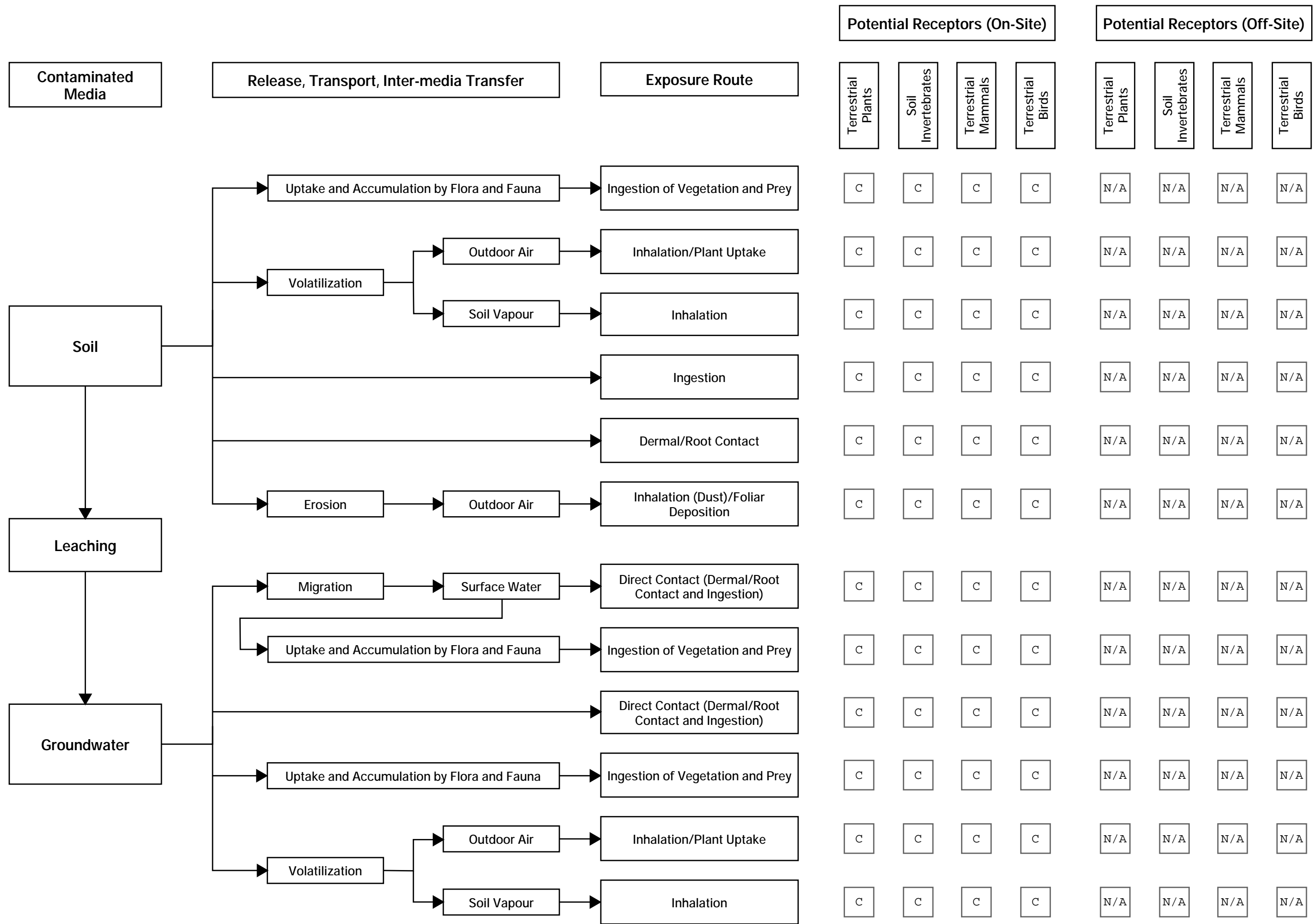
Reference

Date
 OCTOBER, 2022

Scale
 N/A

Job No
 21-067

Figure No
FIGURE 19



LEGEND

C Pathway Complete
 I Pathway Incomplete
 X Pathway Blocked
 N/A Pathway Not Applicable for Receptor

→ Pathway Completed
 - - - → Pathway Incompleted

Note
 1. Construction Workers are considered protective of Utility Workers
 2. Landscape Workers are considered protective of Trespassers
 3. Residents are considered protective of Long Term Workers, Short Term Works and Site Visitors

Project
**60 DUNDAS ST E,
 MISSISSAUGA, ONTARIO**

Figure Title
**ECOLOGICAL
 CSM**

Reference

Date
 OCTOBER, 2022

Scale
 N/A

Job No
 21-067

Figure No
FIGURE 20

TABLES



TABLE 1
GROUNDWATER LEVEL MONITORING SUMMARY
60 DUNDAS STREET EAST
MISSISSAUGA, ON
PROJECT #21-067

Well ID	Ground Surface Elevation (masl)	Screen Interval (mbgs)	Screen Interval (masl)	Soil Strata	Grounded Engineering																																Minimum Elev. (Lowest)		Maximum Elev. (Highest)		Seasonal Fluctuation (±m)									
					May 4, 2022		May 6, 2022		May 7, 2022		May 10, 2022		May 21, 2022		June 8, 2022		June 14, 2022		March 16, 2022		March 21, 2022		March 22, 2022		March 25, 2022		March 30, 2022		March 31, 2022		April 4, 2022		April 17, 2022		April 29, 2022		May 13, 2022		July 5, 2022			September 26, 2022								
					(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)	(mbgs)	(masl)		(mbgs)	(masl)							
BH101	110.9	4.6 - 6.1	106.3 - 104.8	Till	3.6	107.3	3.5	107.4	3.4	107.5	3.3	107.7	3.2	107.7	3.0	107.9	3.0	107.9	NA	NA	NA	NA	NA	NA	3.0	107.9	3.2	107.8	NA	NA	NA	NA	3.4	107.5	2.8	108.1	3.3	107.6	2.9	108.0	3.0	107.9	3.6	107.3	2.8	108.1	0.4			
BH102	110.0	4.6 - 6.1	105.4 - 103.9	Till	5.7	104.3	4.0	106.0	4.4	105.6	3.8	106.2	3.8	106.2	3.7	106.3	3.6	106.4	NA	NA	NA	NA	NA	NA	3.6	106.4	NA	NA	NA	NA	4.9	105.1	4.9	105.1	4.9	105.1	3.5	106.5	3.7	106.3	5.7	104.3	3.5	106.5	1.1					
BH103	109.4	3.4 - 4.9	106.0 - 104.5	Till	4.7	104.7	4.1	105.3	4.3	105.1	4.1	105.4	4.0	105.4	3.8	105.6	3.7	105.7	NA	NA	NA	NA	NA	NA	4.3	105.1	NA	NA	NA	NA	4.2	105.2	4.1	105.3	4.1	105.4	3.6	105.8	3.7	105.7	4.7	104.7	3.6	105.8	0.6					
BH201	110.5	20.1 - 23.2	90.4 - 87.3	Bedrock	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.4	108.1	8.4	102.2	6.6	103.9	5.5	105.0	NA	NA	NA	NA	5.3	105.3	5.1	105.4	5.1	105.4	4.8	105.8	6.7	103.8	8.4	102.2	2.4	108.1	3.0			
BH202	109.4	3.0 - 4.6	106.4 - 104.8	Fill / Till	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.3	105.1	NA	NA	3.6	105.8	NA	NA	NA	NA	3.1	106.4	3.1	106.3	3.7	105.7	3.1	106.4	NA	NA	3.1	106.4	4.3	105.1	3.1	106.4	0.6			
BH203	110.3	20.6 - 23.7	89.7 - 86.6	Bedrock	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.8	107.5	NA	NA	20.8	89.5	20.8	89.5	17.6	92.7	NA	NA	NA	NA	11.4	98.9	9.1	101.2	7.7	102.6	7.1	103.2	6.9	103.4	20.8	89.5	2.8	107.5	9.0		
BH204	109.9	3.7 - 6.8	106.2 - 103.1	Fill / Till / Bedrock	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.7	106.2	NA	NA	3.6	106.3	3.6	106.3	NA	NA	3.5	106.5	NA	NA	3.5	106.4	3.8	106.1	3.3	106.6	2.9	107.1	3.1	106.8	3.8	106.1	2.9	107.1	0.5		
BH205	109.8	20.2 - 23.2	89.6 - 86.6	Bedrock	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.6	105.2	8.6	101.2	7.2	102.6	NA	NA	6.7	103.1	NA	NA	6.7	103.2	6.5	103.3	6.7	103.1	6.7	103.2	6.6	103.2	8.6	101.2	4.6	105.2	2.0
BH206	108.1	3.0 - 6.1	105.1 - 102.0	Till / Bedrock	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.2	104.9	3.3	104.8	3.2	104.9	NA	NA	3.0	105.1	NA	NA	3.2	104.9	3.2	104.9	3.1	105.0	2.9	105.2	2.9	105.2	3.3	104.8	2.9	105.2	0.2
BH207	108.8	3.0 - 6.1	105.8 - 102.7	Till	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.9	104.9	4.3	104.5	4.0	104.8	NA	NA	3.8	105.0	NA	NA	4.0	104.8	3.9	104.9	3.9	104.9	3.7	105.1	3.7	105.1	4.3	104.5	3.7	105.1	0.3	

mbgs = metres below existing ground surface

masl = metres above sea level

* = unstabilized groundwater level

NA = not available: unable to access monitoring well