

**PHASE II ENVIRONMENTAL SITE ASSESSMENT**

OF

**1382 COUNTY ROAD 28  
FRASERVILLE, ONTARIO**

Prepared For:

**RIC (KDL) Inc.**

Attention: Richard Weldon

Prepared By:

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Trafalgar Project Number: KD

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## 1.0 EXECUTIVE SUMMARY

Trafalgar Environmental Consultants (TEC) was retained by RIC (KDL) Inc. to conduct a Phase II ESA of the property identified as 1382 County Road 28, Fraserville, Ontario (referred to hereafter as “the site”). The objective of the Phase II ESA was to ascertain the presence of any subsurface environmental impact at the site that may have resulted from use of the site as a race track.

The Phase II ESA was conducted in a manner consistent with the information contained in CSA standard Z769-00 *Phase II Environmental Site Assessment* and selected portions of *Ontario Regulation 153/04 – Records of Site Condition, Part XV.1 of the Environmental Protection Act*. The Phase II ESA was not conducted in support of a Record of Site Condition.

### Applicable Site Condition Standards

The applicable site condition standards selected for the subject property are contained within Table 2 of the Ontario Regulation 153/04 reference document *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act* (dated April 15, 2011). Table 2 is entitled “Full Depth Generic Site Condition Standards in a Potable Ground Water Condition.” The applicable standards are for a potable groundwater condition, industrial/commercial/community property use, and coarse textured soils.

### Phase II ESA Observations

The Phase II ESA consisted of advancing exterior boreholes at the subject property. Seven boreholes were advanced on August 9 between August 20, 2021. Five boreholes were implemented with a monitoring well upon completion. The borehole/monitoring well locations are presented on Figure 2. The boreholes penetrated the native soil. Field observations indicate that the native soils at the site consist primarily of silt.

All soil samples obtained from the borehole were inspected, using visual and olfactory senses, for any evidence of unusual staining and/or odours.

In addition to visual/olfactory observation, the soil samples were field tested for the presence of volatile organic vapours. The volatile vapour concentrations measured in the soil samples obtained from the boreholes ranged between 0 ppm (i.e. nondetectable) and 510 ppm.

Five of the advanced boreholes were implemented with a monitoring well for groundwater sampling. The installed wells were inspected for the presence of headspace volatile organic vapours, depth to groundwater, and the presence of free-phase liquid petroleum hydrocarbons.

## Soil & Groundwater Sampling

A total of 13 soil samples representative of the soil conditions encountered in the boreholes, and 6 groundwater samples representative of the conditions encountered in the monitoring wells, were submitted for accredited laboratory analysis of one or more of the following site condition standards:

- Volatile organic compounds ("VOC")
- petroleum hydrocarbons ("PHC") – fractions F1 through F4.
- Polycyclic aromatic hydrocarbons ("PAH")
- Polychlorinated biphenyls ("PCB")
- metals and inorganics

The results of these analyses were compared to the applicable O.Reg. 153/04 Table 2 site condition standards to confirm/refute regulatory compliance.

## Analytical Results

The analytical results for the soil samples were compared to the applicable O.Reg. 153/04 Table 2 site condition standards to verify regulatory compliance. This comparison indicated that the measured chemical concentrations in the soil samples submitted for laboratory analysis are **in compliance** with the applicable O.Reg. 153/04 Table 2 site condition standards for the chemical parameters analyzed, with the following exceptions:

- The Sodium Absorption Ratio (SAR) measured in soil samples 104 15-17.5 and 209 0-5 exceeded applicable Table 2 SCS.

The analytical results for the groundwater samples were compared to the applicable O.Reg. 153/04 Table 2 site condition standards to verify regulatory compliance. This comparison indicated that the measured chemical concentrations in the groundwater samples submitted for laboratory analysis are **in compliance** with the applicable O.Reg. 153/04 Table 2 site condition standards for the chemical parameters analyzed, with the following exceptions:

- The concentration of barium and sodium detected in groundwater sample BH103 exceeded the applicable Table 2 SCS (5530 ppb and 1 620 000 ppb vs. SCS of 1000 ppb and 490 000 ppb, respectively).
- The concentration of sodium detected in groundwater sample BH104 exceeds the applicable Table 2 SCS (1 570 000 ppb vs. SCS of 490 000 ppb).

## Conclusions

The observations and measurements made during the soil and groundwater sampling segments of the Phase II ESA, and the results of the laboratory analysis for the soil and groundwater samples indicate that the current site conditions are not in compliance with the applicable O.Reg. 153/04 Table 2 SCS for ICC use for the parameters analyzed.

Based on the results of this investigation, it appears that the historical activities on the property have resulted in minor environmental impact to the property at 1382 County Road 28 in Fraserville, Ontario.

## 2.0 INTRODUCTION

### 2.1 BACKGROUND

Trafalgar Environmental Consultants (TEC) was retained by RIC (KDL) Inc. to conduct a Phase II ESA of the property identified as 1382 County Road 28, Fraserville, Ontario (referred to hereafter as “the site”). A Site Location Map is presented on Figure 1.

### 2.2 OBJECTIVE & SCOPE OF WORK

The objective of the Phase II ESA was to ascertain the presence of any subsurface environmental impact at the site that may have resulted from the use of the property as a race track.

The project objective was achieved through implementation of the following scope of work:

- Provide a detailed description of the subject property in order to determine the applicable regulatory site condition standards for the site based on available information.
- Conduct a subsurface drilling program (i.e. Phase II ESA) in order to ascertain the current soil and groundwater conditions.
- Submit representative soil and groundwater samples for qualified laboratory analysis of selected parameters. Compare the analytical results with the applicable site condition standards to confirm/refute general regulatory compliance.

### 2.3 APPLICABLE REGULATIONS, STANDARDS, GUIDELINES

*Ontario Regulation 153/04 – Records of Site Condition, Part XV.1 of the Environmental Protection Act* (“O.Reg. 153/04”) defines the requirements for the completion of a Phase II ESA. Strict adherence to O.Reg. 153/04 is compulsory when a Record of Site Condition (“RSC”) is required for a property. Since there will be no change in property use at the site, and the current assessment is for environmental due diligence purposes only, a RSC is not required as part of the current site work and O.Reg. 153/04 is not stringently applicable. The Phase II ESA and this report were not conducted in support of a RSC.

The Phase II ESA was conducted in accordance with generally accepted professional practices, CSA standard *Z769-00 Phase II Environmental Site Assessment* (CSA, 2000), *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario* (MOE<sup>1</sup>, 1996) and selected portions of *Ontario Regulation 153/04 – Records of Site Condition, Part XV.1 of the Environmental Protection Act*. The work included analytical testing of representative soil and groundwater samples obtained from boreholes and monitoring wells advanced during the Phase II ESA. The analytical results were compared with applicable O.Reg. 153/04 site condition standards to confirm/refute regulatory compliance.

## 3.0 SITE DESCRIPTION

### 3.1 GENERAL DESCRIPTION

The subject property is located in Fraserville, Ontario on the west side of County Road 28, north of Syer Line. The municipal address of the site is 1382 County Road 28, Fraserville, Ontario. The property has been used for approximately 50 years as a horse racing facility. Portions of the property have also been used for auto racing and a casino for many years. The buildings on the site include, a horse racing track, auto racing track, grandstand, casino, maintenance buildings and stables.

### 3.2 SITE CHARACTERISTICS

#### 3.2.1 *Bedrock and Surficial Geology*

The bedrock in the area has been mapped as shale, limestone, dolostone, arkose and sandstone (Ontario Geological Survey, 1991).

The surficial geology in the immediate vicinity of the site has been mapped as predominantly silty clay and silt (Barnett et al., 1991). The native soil encountered at the site was sand.

#### 3.2.2 *Topography*

The ground surface at the site and vicinity is relatively flat. (Canada Centre for Mapping, 1996).

#### 3.2.3 *Surface Water and Groundwater*

No surface water was observed at the subject property. The nearest surface water to the subject property is an unnamed creek, which is located at the northwest corner of the subject property (Canada Centre for Mapping, 1996).

Six monitoring wells were installed at the site during this Phase II ESA. The depth to groundwater was measured to be between 1.06 and 1.83 metres grade in the installed monitoring wells.

The direction of groundwater flow at the site and vicinity is unknown.

## 4.0 APPLICABLE SITE CONDITION STANDARDS

O.Reg 153/04 provides two approaches for the assessment and restoration of sites in Ontario. These approaches consist of: 1) site condition standards comprised of background standards and effects-based standards (i.e. full depth generic and stratified), or 2) preparation of a risk assessment. The background and effects-based standards are set out in Tables 1 through 9 of the O.Reg. 153/04 reference document *Soil, Ground Water and*



*Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act* (MOE<sup>1</sup>, April 15, 2011). Selection of the appropriate background/effects-based site condition standards is dependent upon several of variables, including intended property use, soil type, soil depth, soil pH, location of areas of natural significance, proximity to nearby surface water, and groundwater use. These variables were considered when selecting the applicable site condition standards for the subject property.

The applicable site condition standards (“SCS”) selected for the site are contained within Table 2 of the O.Reg. 153/04 reference document *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act* (MOE<sup>1</sup>, April 15, 2011). Table 2 is entitled “Full Depth Generic Site Condition Standards in a Potable Ground Water Condition.” The applicable SCS are for a potable groundwater condition, industrial/commercial/community (“ICC”) property use, and coarse textured soils. These SCS were selected based on the following rationale:

- The current and intended property use is “commercial.” The intended property use is not “agricultural or other use”.
- A full depth generic restoration approach was selected for the site.
- The native soil encountered at the site is silt.
- With respect to environmental sensitivity as defined in Section 41 of Ontario Regulation 153/04:
  1. The soil pH is expected to fall within the specified pH ranges (subject to confirmation).
  2. The property is not located within “an area of natural significance” as defined in O.Reg. 153/04 (subject to confirmation).
- O.Reg. 153/04 specifies a “shallow soil property” as a property of which 1/3 or more of the area has soil at a depth of 2 m or less. The soil encountered at the site extends to a depth greater than 2 m.
- The site is not located within 30 m of a permanent water body.
- Drinking water is supplied by water trucks.

Based on the information provided above, the O.Reg. 153/04 Table 2 potable Site Condition Standards (SCS) for Industrial/Commercial/Community (ICC) property use and coarse textured soils were selected as the applicable SCS for the subject property.

## 5.0 PHASE II ESA METHODOLOGY

### 5.1 UTILITY/SERVICE LOCATES

The locations of all overhead and underground utilities/services were determined prior to commencing work at the site. Ontario One Call, local hydro, and all other applicable

underground utility/service providers were contacted in order to obtain the requisite utility/service clearances. Additionally, a private service locator (i.e. Davidson Locates Inc.) was retained by TEC to verify that all borehole locations were clear of buried utilities/services.

## **5.2 BOREHOLES, SOIL SAMPLING, FIELD SCREENING**

The Phase II ESA consisted of advancing exterior boreholes at the subject property. Seven boreholes were advanced between August 9 and August 20, 2021. Five boreholes were implemented with a monitoring well upon completion. The borehole/monitoring well locations are presented on Figure 2.

Strata Soil Sampling Inc. advanced the borehole using a Geoprobe 7822 direct push drill rig. The boreholes were advanced to maximum depths of approximately 7.62 metres (25 ft).

Soil samples were obtained from the boreholes commencing at ground surface, and typically thereafter at continuous intervals. The soil samples were collected using a dual tube sampler. A dedicated PVC liner was used to collect each soil sample. Soil sampling equipment was decontaminated between borehole locations to prevent cross-contamination. Equipment decontamination included removal of residual soil, a wash with Alconox soap solution, a rinse with water, and air dry. Dedicated nitrile gloves were worn by the TEC field representative when handling each soil sample.

Upon collection, the soil samples were split into two portions. One portion was placed in laboratory supplied sample containers and/or EnCore® samplers and immediately packed in a cooler with a maximum temperature of 10°C. This portion was reserved for potential submission to the laboratory for analysis. The second sample portion was placed in a resealable sample bag. The bagged portions of the soil samples were examined using visual and olfactory senses, logged according to physical attributes, and field screened for the presence of volatile organic vapours. Observations included soil type, colour, moisture content, consistency, staining, odours, and presence of liquid phase chemical, such as petroleum hydrocarbons. Following a minimum one hour equilibration period at room temperature, the soil samples were field screened for the presence of volatile organic vapours using a RKI Eagle hydrocarbon meter, calibrated with hexane and operated in methane elimination mode (RKI Instruments, 2012). The RKI unit is specific to the aromatic (volatile) components of petroleum hydrocarbons and other chemicals, and can detect vapour concentrations between 5 and 11,000 ppm. The visual/olfactory observations and volatile vapour headspace concentrations for each soil sample are presented in the Borehole Logs (refer to Appendix B).

Soil samples submitted for laboratory analysis were selected based on observations made in the field. For example, maximum volatile vapour concentrations were used to determine which soil samples would be submitted for petroleum hydrocarbons ("PHC") and volatile organic compounds ("VOC") analysis.

Three boreholes/monitoring wells (Boreholes BH208, BH209, and BH210) installed by TEC during the Phase II ESA were drilled for geotechnical purposes under the supervision of Fisher Engineering. The geotechnical borehole logs and site plan are presented in Appendix A. Two of the boreholes (BH208 and BH 210) were implemented with monitoring wells. Selected soil and groundwater samples from the geotechnical boreholes were submitted for laboratory analyses of O.Reg. 153/04 parameters.

### **5.3 MONITORING WELL CONSTRUCTION, DEVELOPMENT**

Five of the boreholes were implemented with a monitoring well upon completion. The monitoring wells were installed at depths between 3.96 and 7.62 metres (13 and 25 ft) below grade. Strata Soil Sampling Inc. is a licensed well contractor and completed installation of the monitoring wells according to O.Reg. 903 – *Water Wells*. The monitoring wells were constructed using 50 mm schedule 40 PVC solid riser and #10 slotted screen. A screen length of 3.05 metres (10 ft.) was used for the monitoring well. The screened portion of the monitoring well intersected the water table. Silica sand was placed around the screened portion of the monitoring wells. A bentonite seal was placed above the silica sand. The monitoring wells were capped with a J-plug and a flush-mounted, bolt-down casing set in concrete. The monitoring wells BH208 and BH210 were finished with monuments instead of flush-mount casings.

### **5.4 GROUNDWATER MONITORING, SAMPLING**

The installed monitoring wells were inspected on August 24, 2021. Upon removal of the well cap, the headspace volatile vapour concentration was measured in each monitoring well using a RKI Eagle hydrocarbon metre calibrated and operated as described in section 5.2. Elevated headspace volatile vapour concentrations may indicate the presence of subsurface PHC (i.e. gasoline) and/or VOC impacts.

A Heron Instruments water level meter and oil/water interface meter was used to measure the static water table depth at each monitoring well location and to ascertain the presence/absence of any free-phase liquid PHC.

Groundwater sampling was completed on August 24, 2021. Groundwater samples were obtained from the monitoring well using a low flow (minimal drawdown) groundwater sampling procedure (Puls and Barcelona, 1996). Implementation of this groundwater sample collection technique was intended to increase the representativeness of the data generated during the investigation. A Geotech Geopump II peristaltic pump equipped with dedicated LDPE tubing was used to extract the groundwater samples from each of the monitoring wells. The tubing was inserted in the well so that the bottom of the tubing was at least 0.3 m above the bottom of the well, taking care to minimize/prevent contact with settled solids at the bottom of the well. Groundwater was purged at a rate that minimized drawdown.

Immediately subsequent to purging/stabilization, groundwater was collected in laboratory supplied containers containing appropriate preservatives, where applicable. The containerised groundwater samples were placed in a cooler with a maximum temperature of 10°C.

All equipment placed into the monitoring wells was either dedicated to the wells, or thoroughly washed/rinsed prior to insertion. All equipment was handled with dedicated nitrile gloves.

## 5.5 ANALYTICAL LABORATORY

Soil and groundwater samples were submitted under chain of custody to ALS Environmental for analysis. ALS Environmental is accredited by the Standards Council of Canada ("SCC") and the Canadian Association for Laboratory Accreditation Inc. ("CALA") in accordance with O.Reg. 153/04 for all parameters analysed during the Phase II ESA and for which accreditation is available in Ontario. All soil and groundwater samples were analysed in accordance with O.Reg. 153/04 protocols (MOE<sup>3</sup>, 2011).

## 5.6 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

A quality assurance and quality control ("QA/QC") program was implemented as part of the Phase II ESA in an effort to ensure that the soil and groundwater samples collected from the site accurately represented actual site conditions. The QA/QC program meets the recommendations outlined in the MOE document *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario* (MOE<sup>1</sup>, 1996), and is summarized as follows:

- Sample collection was completed using appropriate containers and handling, preservation, storage practices.
- A SCC/CALA accredited laboratory was utilized to complete the soil and groundwater analysis.
- Analytical reports were reviewed to ensure that hold times, analytical methods, laboratory QC samples/recovery ranges (i.e. blanks, duplicates, spikes), and method detection limits ("MDL") meet the requirements set out in *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act* (MOE<sup>3</sup>, March 9, 2011).

## 5.7 PROJECT PERSONNEL

Mr. Robb Hudson, P.Eng., MBA, QP, President of TEC, completed all work related to planning and reporting the results of the Phase II ESA, including defining the scope of work, borehole layout at the site, data review/interpretation, evaluation of results/data with respect to O.Reg. 153/04, completion of field work associated with soil sampling and sample delivery

to the laboratory, and report preparation. A summary of Mr. Hudson's qualifications are presented in Appendix D.

Mr. Alexander Hudson, Field Project Manager for TEC, completed all field work associated with groundwater sampling and sample delivery to the laboratory.

## 6.0 RESULTS OF PHASE II ESA

### 6.1 SOIL SAMPLING

#### 6.1.1 *Geologic Conditions*

The Phase II ESA consisted of advancing exterior boreholes at the subject property. Seven boreholes were advanced between August 9 and August 20, 2021. The boreholes penetrated the native soil. Field observations indicate that the native soils at the site consist primarily of silt.

#### 6.1.2 *Field Observations and Measurements*

All soil samples obtained from the borehole were inspected, using visual and olfactory senses, for any evidence of unusual staining and/or odours.

In addition to visual/olfactory observations, the soil samples were field tested for the presence of volatile organic vapours. The volatile vapour concentrations measured in the soil samples obtained from the borehole ranged between 0 ppm (i.e. nondetectable) and 510 ppm. The volatile vapour headspace concentration for each soil sample is presented in the Borehole Logs (refer to Appendix B).

There was no evidence of liquid petroleum hydrocarbons observed in any of the soil samples obtained from the boreholes.

### 6.2 GROUNDWATER SAMPLING

#### 6.2.1 *Field Observations and Measurements*

The installed monitoring wells were inspected for the presence of headspace volatile organic vapours, depth to groundwater, and the presence of free-phase liquid petroleum hydrocarbons. The following table summarizes the field observations and measurements obtained from the monitoring wells:

Monitoring Well Identification	Headspace Volatile Organic Vapour Concentration (ppm)	Depth to Groundwater (m)	Liquid Petroleum Hydrocarbon Layer Thickness
BH101	0	1.746	None present
BH102	5	1.442	None present

BH103	260	1.385	None present
BH104	0	1.399	None present
BH208	45	1.831	None present
BH210	0	1.060	None present

## 6.3 LABORATORY ANALYSIS

### 6.3.1 Soil Samples

Based on the field observations and measurements, a total of 13 soil samples representative of the soil conditions encountered in the boreholes were submitted for accredited laboratory analysis of one or more of the following site condition standards:

- Volatile organic compounds ("VOC")
- petroleum hydrocarbons ("PHC") – fractions F1 through F4.
- Polycyclic aromatic hydrocarbons ("PAH")
- Polychlorinated biphenyls ("PCB")
- metals and inorganics

The results of these analyses were compared to the applicable O.Reg. 153/04 Table 2 site condition standards to confirm/refute regulatory compliance.

The Certificates of Laboratory Analysis for the soil samples are presented in Appendix C.

### 6.3.2 Groundwater Samples

Six groundwater samples representative of the conditions encountered in the installed monitoring wells were submitted under chain of custody to ALS Environmental for analysis of one or more of the following site condition standards:

- Volatile organic compounds ("VOC")
- petroleum hydrocarbons ("PHC") – fractions F1 through F4.
- Polycyclic aromatic hydrocarbons ("PAH")
- Polychlorinated biphenyls ("PCB")
- metals and inorganics

The Certificates of Laboratory Analysis for the groundwater samples are presented in Appendix C.

### 6.3.3 Analytical Results

The analytical results for the soil samples were compared to the applicable O.Reg. 153/04 Table 2 site condition standards to verify regulatory compliance. This comparison indicated that the measured chemical concentrations in the soil samples submitted for laboratory analysis are **in compliance** with the applicable O.Reg. 153/04 Table 2 site condition standards for the chemical parameters analyzed, with the following exceptions:

- The Sodium Absorption Ratio (SAR) measured in soil samples 104 15-17.5 and 209 0-5 exceeded applicable Table 2 SCS.

Figure 3 contains the analytical results for the soil samples and the applicable O.Reg. 153/04 Table 2 site condition standards.

The analytical results for the groundwater samples were compared to the applicable O.Reg. 153/04 Table 2 site condition standards to verify regulatory compliance. This comparison indicated that the measured chemical concentrations in the groundwater samples submitted for laboratory analysis are **in compliance** with the applicable O.Reg. 153/04 Table 2 site condition standards for the chemical parameters analyzed, with the following exceptions:

- The concentration of barium and sodium detected in groundwater sample BH103 exceeded the applicable Table 2 SCS (5530 ppb and 1 620 000 ppb vs. SCS of 1000 ppb and 490 000 ppb, respectively).
- The concentration of sodium detected in groundwater sample BH104 exceeds the applicable Table 2 SCS (1 570 000 ppb vs. SCS of 490 000 ppb).

Figure 4 contains the analytical results for the groundwater samples and the applicable O.Reg. 153/04 Table 2 site condition standards.

A thorough review of the analytical reports indicates that hold times, analytical methods, laboratory QC samples/recovery ranges (i.e. blanks, duplicates, spikes), and method detection limits ("MDL") meet the requirements set out in the MOE *Protocol for Analytical Methods* (MOE<sup>3</sup>, 2011).

## 7.0 INTERPRETATION & EVALUATION OF INFORMATION

The observations and measurements made during the soil and groundwater sampling segments of the Phase II ESA, and the results of the laboratory analysis for the soil and groundwater samples indicate that there are several exceedences of applicable O.Reg. 153/04 Table 2 SCS for ICC use in soil and groundwater samples obtained during the investigation.



## 8.0 CONCLUSIONS AND RECOMMENDATIONS

Trafalgar Environmental Consultants (TEC) was retained by RIC (KDL) Inc. to conduct a Phase II ESA of the property identified as 1382 County Road 28, Fraserville, Ontario (referred to hereafter as “the site”). The objective of the Phase II ESA was to ascertain the presence of any subsurface environmental impact at the site that may have resulted from use of the property as a race track.

The Phase II ESA was conducted in a manner consistent with the information contained in CSA standard Z769-00 *Phase II Environmental Site Assessment* and selected portions of *Ontario Regulation 153/04 – Records of Site Condition, Part XV.1 of the Environmental Protection Act*. The Phase II ESA was not conducted in support of a Record of Site Condition.

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The Phase II ESA consisted of advancing exterior boreholes at the subject property. Seven boreholes were advanced on August 9 and August 10, 2021. Five boreholes were implemented with a monitoring well upon completion. The borehole/monitoring well locations are presented on Figure 2. The boreholes penetrated the native soil. Field observations indicate that the native soils at the site consist primarily of silt.

All soil samples obtained from the borehole were inspected, using visual and olfactory senses, for any evidence of unusual staining and/or odours.

In addition to visual/olfactory observation, the soil samples were field tested for the presence of volatile organic vapours. The volatile vapour concentrations measured in the soil samples obtained from the boreholes ranged between 0 ppm (i.e. nondetectable) and 510 ppm.

Five of the advanced boreholes were implemented with a monitoring well for groundwater sampling. The installed wells were inspected for the presence of headspace volatile organic vapours, depth to groundwater, and the presence of free-phase liquid petroleum hydrocarbons.

A total of 13 soil samples representative of the soil conditions encountered in the boreholes, and 6 groundwater samples representative of the conditions encountered in the monitoring



wells, were submitted for accredited laboratory analysis of one or more of the following site condition standards:

- Volatile organic compounds (“VOC”)
- petroleum hydrocarbons (“PHC”) – fractions F1 through F4.
- Polycyclic aromatic hydrocarbons (“PAH”)
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The results of these analyses were compared to the applicable O.Reg. 153/04 Table 2 site condition standards to confirm/refute regulatory compliance.

The analytical results for the soil samples were compared to the applicable O.Reg. 153/04 Table 2 site condition standards to verify regulatory compliance. This comparison indicated that the measured chemical concentrations in the soil samples submitted for laboratory analysis are **in compliance** with the applicable O.Reg. 153/04 Table 2 site condition standards for the chemical parameters analyzed, with the following exceptions:

- The Sodium Absorption Ratio (SAR) measured in soil samples 104 15-17.5 and 209 0-5 exceeded applicable Table 2 SCS.

The analytical results for the groundwater samples were compared to the applicable O.Reg. 153/04 Table 2 site condition standards to verify regulatory compliance. This comparison indicated that the measured chemical concentrations in the groundwater samples submitted for laboratory analysis are **in compliance** with the applicable O.Reg. 153/04 Table 2 site condition standards for the chemical parameters analyzed, with the following exceptions:

- The concentration of barium and sodium detected in groundwater sample BH103 exceeded the applicable Table 2 SCS (5530 ppb and 1 620 000 ppb vs. SCS of 1000 ppb and 490 000 ppb, respectively).
- The concentration of sodium detected in groundwater sample BH104 exceeds the applicable Table 2 SCS (1 570 000 ppb vs. SCS of 490 000 ppb).

The observations and measurements made during the soil and groundwater sampling segments of the Phase II ESA, and the results of the laboratory analysis for the soil and groundwater samples indicate that the current site conditions are not in compliance with the O.Reg. 153/04 Table 2 SCS for ICC use for the parameters analyzed.

Based on the results of this investigation, it appears that the historical activities at the industrial property have resulted in minor environmental impact to the property at 1382 County Road 28 in Fraserville, Ontario.

If you have any questions, or if any additional information is required, please do not hesitate to contact the undersigned.

Respectfully submitted,

**T**RAFALGAR **E**NVIRONMENTAL **C**ONSULTANTS

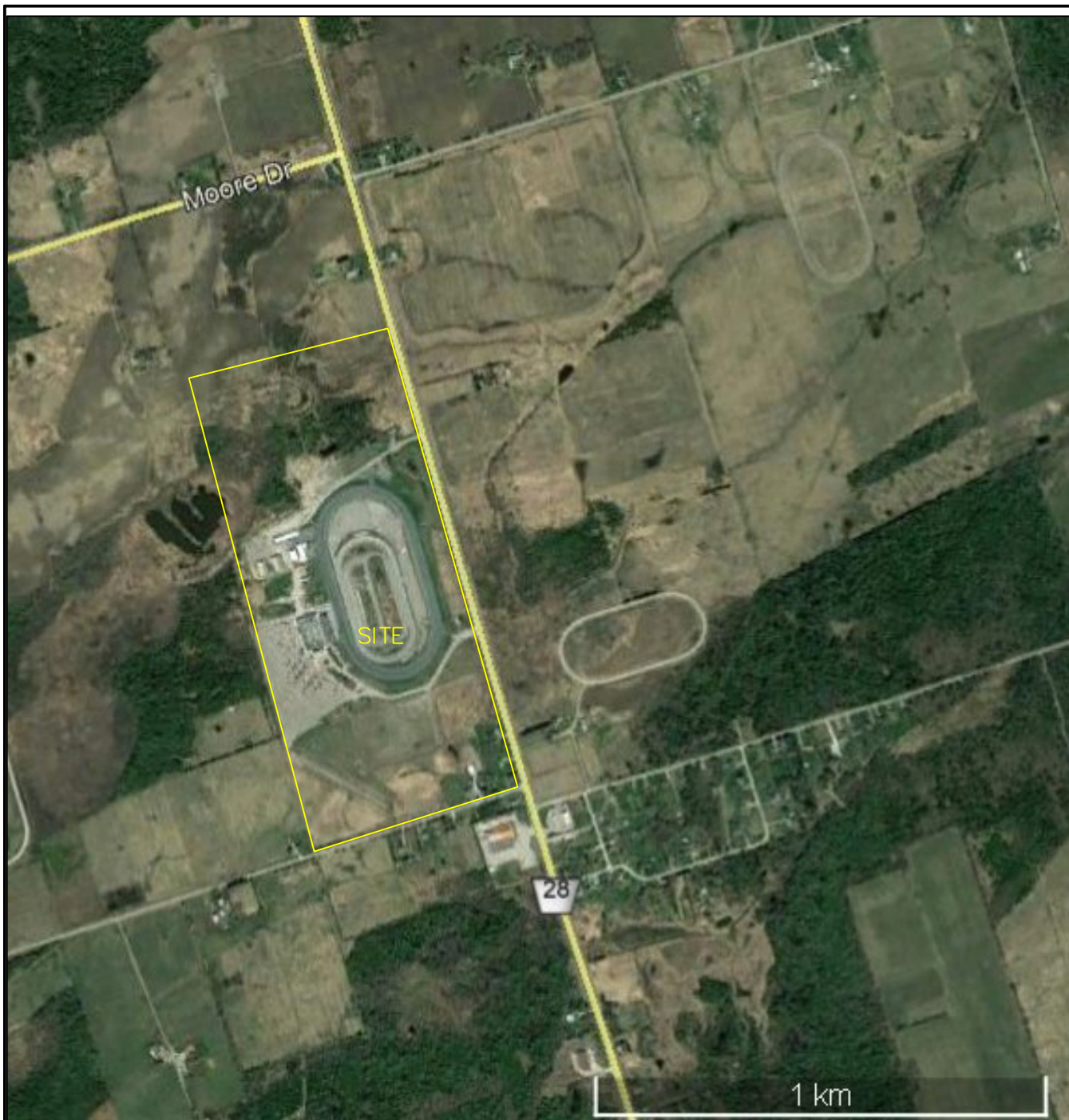
A handwritten signature in black ink, appearing to read 'Robb Hudson', with a large, stylized flourish extending upwards and to the right.

Robb Hudson, P.Eng., MBA, QP<sub>ESA</sub>

## 9.0 REFERENCES

1. Canadian Standards Association, Z769-00, *Phase II Environmental Site Assessment* (CSA International, March 2000).
2. Ontario Ministry of Environment (MOE<sup>1</sup>). *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*. MOE (December 1996).
3. Ontario Ministry of Environment (MOE<sup>2</sup>). *Soil, Ground Water and Sediment Standards for Use Under Part VX.1 of the Environmental Protection Act*. MOE (April 15, 2011).
4. Ontario Ministry of Environment (MOE<sup>3</sup>). *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act*. MOE (March 9, 2004, amended as of July 1, 2011).
5. Ontario Geological Survey 1991. *Bedrock geology of Ontario, southern sheet; Ontario Geological Survey, Map 2544, scale 1:1000000*.
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9. Puls, R.W. and Barcelona, M.J. *Groundwater Issue: Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures*. United States Environmental Protection Agency (April 1996).

## **FIGURES**



LEGEND

SCALE

AS SHOWN

DRAWN BY

SH

AUG 26/21

CHECKED BY

REVISIONS

REVISIONS



**TRAFALGAR ENVIRONMENTAL CONSULTANTS**

P.O. Box 93316 Yonge Street, Newmarket, Ontario L3X 1A3  
Phone (416) 801-4631 Fax (905) 841-5494  
[www.trafalgarenvironmental.com](http://www.trafalgarenvironmental.com)

TITLE

SITE LOCATION MAP

SITE

3812 COUNTY ROAD 28  
FRASERVILLE, ONTARIO

FIGURE

1




TRAFALGAR PROJ. No.

KD

NOTE: SERVICE/UTILITY LOCATIONS ARE APPROXIMATE ONLY





LEGEND		SCALE			AS SHOWN					
BH###		MONITORING WELL LOCATION		DRAWN BY	SH	AUG 27/21				
BH###		BOREHOLE LOCATION		CHECKED BY						
				REVISIONS						
				REVISIONS						
<div>TRAFALGAR ENVIRONMENTAL CONSULTANTS</div> <p>P.O. Box 93316 Yonge Street, Newmarket, Ontario L3X 1A3 Phone (416) 801-4631 Fax (905) 841-5494 www.trafalgarenvironmental.com</p>				TITLE			SITE PLAN			
				SITE					FIGURE	
				1382 COUNTY ROAD 28 FRASERVILLE, ONTARIO					2	
				TRAFALGAR PROJ. No.					KD	
				NOTE: SERVICE/UTILITY LOCATIONS ARE APPROXIMATE ONLY						

**FIGURE 3 SOIL CHEMICAL ANALYSIS**  
**BTEX, PHC, VOC**

**Site** Kawartha Downs  
1382 County Road 28  
Fraserville, Ontario  
**Trafalgar Project No.** KD  
**Analytical Laboratory** ALS Environmental

O.Reg. 153/04 Site Condition Standards* Table 2 - Potable Groundwater Condition Industrial/Commercial/Community Property Use  Coarse Textured Soil	Sample Location Trafalgar Sample ID Sample Depth (m, BGS) Field Vapour Conc. (ppm) Sample Collection Date Laboratory Report Ref. No. Laboratory Sample ID Sample Analysis Date(s)	BOREHOLE 101 <b>101 0-5</b> 0-1.52 0 August 9, 2021 L2625638 L2625638-1 August 13-18, 2021	BOREHOLE 101 <b>101 10-15</b> 3.05-4.57 220 August 9, 2021 L2625638 L2625638-2 August 13-18, 2021	BOREHOLE 102 <b>102 0-5</b> 0-1.52 0 August 9, 2021 L2625638 L2625638-3 August 13-18, 2021	BOREHOLE 102 <b>102 15-20</b> 4.57-6.10 510 August 9, 2021 L2625638 L2625638-4 August 13-18, 2021	BOREHOLE 103 <b>103 0-5</b> 0-1.52 0 August 9, 2021 L2625638 L2625638-5 August 13-18, 2021
	Contaminant Names and Site Condition Standards					
Benzene	0.32	nd	nd	nd	nd	nd
Toluene	6.4	nd	nd	nd	nd	nd
Ethylbenzene	1.1	nd	nd	nd	nd	nd
Xylene Mixture	26	nd	nd	nd	nd	nd
Petroleum Hydrocarbons F1 (C6 to C10 - BTEX)**	55	nd	nd	nd	nd	nd
Petroleum Hydrocarbons F2 (>C10 to C16)	230	nd	nd	nd	nd	nd
Petroleum Hydrocarbons F3 (>C16 to C34)	1700	nd	nd	nd	nd	nd
Petroleum Hydrocarbons F4 (>C34)	3300	nd	nd	nd	nd	nd
Acetone	16	nd	nd	nd	nd	nd
Bromodichloromethane	1.5	nd	nd	nd	nd	nd
Bromoform	0.61	nd	nd	nd	nd	nd
Bromomethane	0.05	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.21	nd	nd	nd	nd	nd
Chlorobenzene	2.4	nd	nd	nd	nd	nd
Chloroform	0.47	nd	nd	nd	nd	nd
Dibromochloromethane	2.3	nd	nd	nd	nd	nd
1,2-Dichlorobenzene (o-DCB)	1.2	nd	nd	nd	nd	nd
1,3-Dichlorobenzene (m-DCB)	9.6	nd	nd	nd	nd	nd
1,4-Dichlorobenzene (p-DCB)	0.2	nd	nd	nd	nd	nd
Dichlorodifluoromethane	16	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.47	nd	nd	nd	nd	nd
1,2-Dichloroethane	0.05	nd	nd	nd	nd	nd
1,1-Dichloroethylene	0.064	nd	nd	nd	nd	nd
cis-1,2-Dichloroethylene	1.9	nd	nd	nd	nd	nd
trans-1,2-Dichloroethylene	1.3	nd	nd	nd	nd	nd
1,2-Dichloropropane	0.16	nd	nd	nd	nd	nd
1,3-Dichloropropene	0.059	nd	nd	nd	nd	nd
Ethylene Dibromide	0.05	nd	nd	nd	nd	nd
Hexane (n)	46	nd	nd	nd	nd	nd
Methyl Ethyl Ketone	70	nd	nd	nd	nd	nd
Methyl Isobutyl Ketone	31	nd	nd	nd	nd	nd
Methyl Tert Butyl Ether (MTBE)	1.6	nd	nd	nd	nd	nd
Methylene Chloride	1.6	nd	nd	nd	nd	nd
Styrene	34	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.087	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.05	nd	nd	nd	nd	nd
Tetrachloroethylene (PCE)	1.9	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	6.1	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.05	nd	nd	nd	nd	nd
Trichloroethylene (TCE)	0.55	nd	nd	nd	nd	nd
Trichlorofluoromethane	4	nd	nd	nd	nd	nd
Vinyl Chloride	0.032	nd	nd	nd	nd	nd

Notes:  
Reported concentrations are in ug/g (ppm-parts per million) dry weight basis unless otherwise specified.  
"nd" - non-detectable with respect to the laboratory detection limit (includes diluted samples, refer to Certificates of Laboratory Analysis for detection limits), "-" - sample was not analysed for the chemical parameter.  
"NGV" - a site condition standard is not specified in O.Reg. 153/04, "BGS" - below ground surface, "NA" - not applicable, "NM" - not measured.  
\*Site condition standards are from Table 2 of "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" (MOE, April 15, 2011).  
\*\*The Petroleum Hydrocarbons F1 standard does not include BTEX concentrations; the BTEX concentrations have been subtracted from the Petroleum Hydrocarbons F1 analytical results to yield the concentrations reported above.  
**BOLD/Shaded** values are not in compliance with the Table 2 potable site condition standards for industrial/commercial/community property use and coarse textured soils.

**FIGURE 3 SOIL CHEMICAL ANALYSIS**  
**BTEX, PHC, VOC**

**Site** Kawartha Downs  
1382 County Road 28  
Fraserville, Ontario  
**Trafalgar Project No.** KD  
**Analytical Laboratory** ALS Environmental

O.Reg. 153/04 Site Condition Standards* Table 2 - Potable Groundwater Condition Industrial/Commercial/Community Property Use  Coarse Textured Soil	Sample Location Trafalgar Sample ID Sample Depth (m, BGS) Field Vapour Conc. (ppm) Sample Collection Date Laboratory Report Ref. No. Laboratory Sample ID Sample Analysis Date(s)	BOREHOLE 103 <b>103 20-25</b> 6.10-7.62 65 August 9, 2021 L2625638 L2625638-6 August 13-18, 2021	BOREHOLE 104 <b>104 0-5</b> 0-1.52 0 August 9, 2021 L2625638 L2625638-7 August 13-18, 2021	BOREHOLE 104 <b>104 15-17.5</b> 4.57-5.33 55 August 9, 2021 L2625638 L2625638-8 August 13-18, 2021	BOREHOLE 210 <b>210 0-5</b> 0-1.52 0 August 10, 2021 L2625638 L2625638-9 August 13-18, 2021	BOREHOLE 210 <b>210 20-21.5</b> 6.1-6.25 0 August 10, 2021 L2625638 L2625638-10 August 13-18, 2021
	Contaminant Names and Site Condition Standards					
Benzene	0.32	nd	nd	nd	nd	nd
Toluene	6.4	nd	nd	nd	nd	nd
Ethylbenzene	1.1	nd	nd	nd	nd	nd
Xylene Mixture	26	nd	nd	nd	nd	nd
Petroleum Hydrocarbons F1 (C6 to C10 - BTEX)**	55	nd	nd	nd	nd	nd
Petroleum Hydrocarbons F2 (>C10 to C16)	230	nd	nd	nd	nd	nd
Petroleum Hydrocarbons F3 (>C16 to C34)	1700	nd	nd	nd	276	72
Petroleum Hydrocarbons F4 (>C34)	3300	nd	nd	53	61	nd
Acetone	16	nd	nd	nd	nd	nd
Bromodichloromethane	1.5	nd	nd	nd	nd	nd
Bromoform	0.61	nd	nd	nd	nd	nd
Bromomethane	0.05	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.21	nd	nd	nd	nd	nd
Chlorobenzene	2.4	nd	nd	nd	nd	nd
Chloroform	0.47	nd	nd	nd	nd	nd
Dibromochloromethane	2.3	nd	nd	nd	nd	nd
1,2-Dichlorobenzene (o-DCB)	1.2	nd	nd	nd	nd	nd
1,3-Dichlorobenzene (m-DCB)	9.6	nd	nd	nd	nd	nd
1,4-Dichlorobenzene (p-DCB)	0.2	nd	nd	nd	nd	nd
Dichlorodifluoromethane	16	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.47	nd	nd	nd	nd	nd
1,2-Dichloroethane	0.05	nd	nd	nd	nd	nd
1,1-Dichloroethylene	0.064	nd	nd	nd	nd	nd
cis-1,2-Dichloroethylene	1.9	nd	nd	nd	nd	nd
trans-1,2-Dichloroethylene	1.3	nd	nd	nd	nd	nd
1,2-Dichloropropane	0.16	nd	nd	nd	nd	nd
1,3-Dichloropropene	0.059	nd	nd	nd	nd	nd
Ethylene Dibromide	0.05	nd	nd	nd	nd	nd
Hexane (n)	46	nd	nd	nd	nd	nd
Methyl Ethyl Ketone	70	nd	nd	nd	nd	nd
Methyl Isobutyl Ketone	31	nd	nd	nd	nd	nd
Methyl Tert Butyl Ether (MTBE)	1.6	nd	nd	nd	nd	nd
Methylene Chloride	1.6	nd	nd	nd	nd	nd
Styrene	34	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.087	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.05	nd	nd	nd	nd	nd
Tetrachloroethylene (PCE)	1.9	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	6.1	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.05	nd	nd	nd	nd	nd
Trichloroethylene (TCE)	0.55	nd	nd	nd	nd	nd
Trichlorofluoromethane	4	nd	nd	nd	nd	nd
Vinyl Chloride	0.032	nd	nd	nd	nd	nd

Notes:  
Reported concentrations are in ug/g (ppm-parts per million) dry weight basis unless otherwise specified.  
"nd" - non-detectable with respect to the laboratory detection limit (includes diluted samples, refer to Certificates of Laboratory Analysis for detection limits), "-" - sample was not analysed for the chemical parameter.  
"NGV" - a site condition standard is not specified in O.Reg. 153/04, "BGS" - below ground surface, "NA" - not applicable, "NM" - not measured.  
\*Site condition standards are from Table 2 of "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" (MOE, April 15, 2011).  
\*\*The Petroleum Hydrocarbons F1 standard does not include BTEX concentrations; the BTEX concentrations have been subtracted from the Petroleum Hydrocarbons F1 analytical results to yield the concentrations reported above.  
**BOLD/Shaded** values are not in compliance with the Table 2 potable site condition standards for industrial/commercial/community property use and coarse textured soils.



**FIGURE 3 SOIL CHEMICAL ANALYSIS**  
**BTEX, PHC, VOC**

**Site** Kawartha Downs  
1382 County Road 28  
Fraserville, Ontario  
**Trafalgar Project No.** KD  
**Analytical Laboratory** ALS Environmental

O.Reg. 153/04 Site Condition Standards* Table 2 - Potable Groundwater Condition Industrial/Commercial/Community Property Use  Coarse Textured Soil	Sample Location	BOREHOLE 209	BOREHOLE 208	BOREHOLE 208	-	-
	Trafalgar Sample ID	<b>209 0-5</b>	<b>208 0-5</b>	<b>208 15-17.5</b>	-	-
	Sample Depth (m, BGS)	0-1.52	0-1.52	4.57-5.33	-	-
	Field Vapour Conc. (ppm)	0	0	0	-	-
	Sample Collection Date	August 10, 2021	August 20, 2021	August 20, 2021	-	-
	Laboratory Report Ref. No.	L2625638	L2629752	L2629752	-	-
Contaminant Names and Site Condition Standards	Laboratory Sample ID	L2625638-11	L2629752-1	L2629752-2	-	-
	Sample Analysis Date(s)	August 13-18, 2021	August 23-25, 2021	August 23-25, 2021	-	-
Benzene	0.32	nd	nd	nd	-	-
Toluene	6.4	nd	nd	nd	-	-
Ethylbenzene	1.1	nd	nd	nd	-	-
Xylene Mixture	26	nd	nd	nd	-	-
Petroleum Hydrocarbons F1 (C6 to C10 - BTEX)**	55	nd	nd	nd	-	-
Petroleum Hydrocarbons F2 (>C10 to C16)	230	nd	nd	nd	-	-
Petroleum Hydrocarbons F3 (>C16 to C34)	1700	63	nd	nd	-	-
Petroleum Hydrocarbons F4 (>C34)	3300	680	nd	nd	-	-
Acetone	16	nd	nd	nd	-	-
Bromodichloromethane	1.5	nd	nd	nd	-	-
Bromoform	0.61	nd	nd	nd	-	-
Bromomethane	0.05	nd	nd	nd	-	-
Carbon Tetrachloride	0.21	nd	nd	nd	-	-
Chlorobenzene	2.4	nd	nd	nd	-	-
Chloroform	0.47	nd	nd	nd	-	-
Dibromochloromethane	2.3	nd	nd	nd	-	-
1,2-Dichlorobenzene (o-DCB)	1.2	nd	nd	nd	-	-
1,3-Dichlorobenzene (m-DCB)	9.6	nd	nd	nd	-	-
1,4-Dichlorobenzene (p-DCB)	0.2	nd	nd	nd	-	-
Dichlorodifluoromethane	16	nd	nd	nd	-	-
1,1-Dichloroethane	0.47	nd	nd	nd	-	-
1,2-Dichloroethane	0.05	nd	nd	nd	-	-
1,1-Dichloroethylene	0.064	nd	nd	nd	-	-
cis-1,2-Dichloroethylene	1.9	nd	nd	nd	-	-
trans-1,2-Dichloroethylene	1.3	nd	nd	nd	-	-
1,2-Dichloropropane	0.16	nd	nd	nd	-	-
1,3-Dichloropropane	0.059	nd	nd	nd	-	-
Ethylene Dibromide	0.05	nd	nd	nd	-	-
Hexane (n)	46	nd	nd	nd	-	-
Methyl Ethyl Ketone	70	nd	nd	nd	-	-
Methyl Isobutyl Ketone	31	nd	nd	nd	-	-
Methyl Tert Butyl Ether (MTBE)	1.6	nd	nd	nd	-	-
Methylene Chloride	1.6	nd	nd	nd	-	-
Styrene	34	nd	nd	nd	-	-
1,1,1,2-Tetrachloroethane	0.087	nd	nd	nd	-	-
1,1,2,2-Tetrachloroethane	0.05	nd	nd	nd	-	-
Tetrachloroethylene (PCE)	1.9	nd	nd	nd	-	-
1,1,1-Trichloroethane	6.1	nd	nd	nd	-	-
1,1,2-Trichloroethane	0.05	nd	nd	nd	-	-
Trichloroethylene (TCE)	0.55	nd	nd	nd	-	-
Trichlorofluoromethane	4	nd	nd	nd	-	-
Vinyl Chloride	0.032	nd	nd	nd	-	-

Notes:

Reported concentrations are in ug/g (ppm-parts per million) dry weight basis unless otherwise specified.

"nd" - non-detectable with respect to the laboratory detection limit (includes diluted samples, refer to Certificates of Laboratory Analysis for detection limits), "-" - sample was not analysed for the chemical parameter.

"NGV" - a site condition standard is not specified in O.Reg. 153/04, "BGS" - below ground surface, "NA" - not applicable, "NM" - not measured.

\*Site condition standards are from Table 2 of "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" (MOE, April 15, 2011).

\*\*The Petroleum Hydrocarbons F1 standard does not include BTEX concentrations; the BTEX concentrations have been subtracted from the Petroleum Hydrocarbons F1 analytical results to yield the concentrations reported above.

**BOLD/Shaded** values are not in compliance with the Table 2 potable site condition standards for industrial/commercial/community property use and coarse textured soils.

**FIGURE 3 SOIL CHEMICAL ANALYSIS**  
Metals, PAH, PCB, SAR, EC

**Site** Kawartha Downs  
1382 County Road 28  
Fraserville, Ontario

**Trafalgar Project No.** KD  
**Analytical Laboratory** ALS Environmental

O.Reg. 153/04 Site Condition Standards* Table 2 - Potable Groundwater Condition Industrial/Commercial/Community Property Use Coarse Textured Soil	Sample Location Trafalgar Sample ID	BOREHOLE 101 <b>101 0-5</b>	BOREHOLE 101 <b>101 10-15</b>	BOREHOLE 102 <b>102 0-5</b>	BOREHOLE 102 <b>102 15-20</b>	BOREHOLE 103 <b>103 0-5</b>
	Sample Depth (m, BGS)	0-1.52	3.05-4.57	0-1.52	4.57-6.10	0-1.52
	Field Vapour Conc. (ppm)	0	220	0	510	0
	Sample Collection Date	August 9, 2021	August 9, 2021	August 9, 2021	August 9, 2021	August 9, 2021
	Laboratory Report Ref. No.	L2625638	L2625638	L2625638	L2625638	L2625638
	Laboratory Sample ID	L2625638-1	L2625638-2	L2625638-3	L2625638-4	L2625638-5
	Sample Analysis Date(s)	August 13-18, 2021	August 13-18, 2021	August 13-18, 2021	August 13-18, 2021	August 13-18, 2021
Contaminant Names and Site Condition Standards						
Antimony	40	nd	-	nd	-	nd
Arsenic	18	1.7	-	2.6	-	2
Barium	670	52.2	-	123	-	56.2
Beryllium	8	nd	-	0.58	-	nd
Boron (Hot Water Soluble)**	2	nd	-	nd	-	nd
Boron (Total)**	120	6.2	-	10	-	7.4
Cadmium	1.9	nd	-	nd	-	nd
Chromium (Total)	160	10.8	-	22.9	-	11.2
Chromium VI	8	nd	-	nd	-	nd
Cobalt	80	3.7	-	7	-	3.9
Copper	230	5.8	-	13.1	-	7
Lead	120	3.2	-	5.1	-	3.9
Mercury	3.9	nd	-	0.0052	-	nd
Molybdenum	40	nd	-	nd	-	nd
Nickel	270	7	-	14.3	-	7.2
Selenium	5.5	nd	-	nd	-	nd
Silver	40	nd	-	nd	-	nd
Thallium	3.3	nd	-	nd	-	nd
Uranium	33	nd	-	nd	-	nd
Vanadium	86	20.1	-	37.5	-	20.5
Zinc	340	16.9	-	33.2	-	19.2
Acenaphthene	21	nd	nd	nd	nd	nd
Acenaphthylene	0.15	nd	nd	nd	nd	nd
Anthracene	0.67	nd	nd	nd	nd	nd
Benzo(a)anthracene	0.96	nd	nd	nd	nd	nd
Benzo(a)pyrene	0.3	nd	nd	nd	nd	nd
Benzo(b)fluoranthene	0.96	nd	nd	nd	nd	nd
Benzo(ghi)perylene	9.6	nd	nd	nd	nd	nd
Benzo(k)fluoranthene	0.96	nd	nd	nd	nd	nd
Chrysene	9.6	nd	nd	nd	nd	nd
Dibenz(ah)anthracene	0.1	nd	nd	nd	nd	nd
Fluoranthene	9.6	nd	nd	nd	nd	nd
Fluorene	62	nd	nd	nd	nd	nd
Indeno(123-cd)pyrene	0.76	nd	nd	nd	nd	nd
1-Methylnaphthalene	30	nd	nd	nd	nd	nd
2-Methylnaphthalene	30	nd	nd	nd	nd	nd
Naphthalene	9.6	nd	nd	nd	nd	nd
Phenanthrene	12	nd	nd	nd	nd	nd
Pyrene	96	nd	nd	nd	nd	nd
Polychlorinated Biphenyls (PCB)	1.1	-	-	nd	nd	nd
Sodium Absorption Ratio (SAR, unitless)	12	0.6	-	11.1	-	2.1
Electrical Conductivity (EC, mS/cm)	1.4	0.159	-	0.956	-	0.238

**Notes:**

Reported concentrations are in ug/g (ppm-parts per million) dry weight basis unless otherwise specified.

"nd" - non-detectable with respect to the laboratory detection limit (includes diluted samples, refer to Certificates of Laboratory Analysis for detection limits), "-" - sample was not analysed for the chemical parameter.

"NGV" - a site condition standard is not specified in O.Reg. 153/04, "BGS" - below ground surface, "NA" - not applicable, "NM" - not measured.

\*Site condition standards are from Table 2 of "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" (MOE, April 15, 2011).

\*\*The Boron (Hot Water Soluble) standard applies to surface soil samples (0-1.5m BGS), the Boron (Total) standard applies to subsurface soil samples (>1.5m BGS).

**BOLD/Shaded** values are not in compliance with the Table 2 potable site condition standards for industrial/commercial/community property use and coarse textured soils.

**FIGURE 3 SOIL CHEMICAL ANALYSIS**  
Metals, PAH, PCB, SAR, EC

**Site** Kawartha Downs  
1382 County Road 28  
Fraserville, Ontario

**Trafalgar Project No.** KD  
**Analytical Laboratory** ALS Environmental

O.Reg. 153/04 Site Condition Standards* Table 2 - Potable Groundwater Condition Industrial/Commercial/Community Property Use Coarse Textured Soil	Sample Location Trafalgar Sample ID	BOREHOLE 103	BOREHOLE 104	BOREHOLE 104	BOREHOLE 210	BOREHOLE 210
	Sample Depth (m, BGS)	103 20-25	104 0-5	104 15-17.5	210 0-5	210 20-21.5
	Field Vapour Conc. (ppm)	6.10-7.62	0-1.52	4.57-5.33	0-1.52	6.1-6.25
	Sample Collection Date	65	0	55	0	0
	Laboratory Report Ref. No.	August 9, 2021	August 9, 2021	August 9, 2021	August 10, 2021	August 10, 2021
	Laboratory Sample ID	L2625638	L2625638	L2625638	L2625638	L2625638
	Sample Analysis Date(s)	L2625638-6	L2625638-7	L2625638-8	L2625638-9	L2625638-10
		August 13-18, 2021	August 13-18, 2021	August 13-18, 2021	August 13-18, 2021	August 13-18, 2021
Contaminant Names and Site Condition Standards						
Antimony	40	-	-	nd	nd	-
Arsenic	18	-	-	2.6	1.4	-
Barium	670	-	-	44.6	37.5	-
Beryllium	8	-	-	nd	nd	-
Boron (Hot Water Soluble)**	2	-	-	nd	nd	-
Boron (Total)**	120	-	-	6.8	nd	-
Cadmium	1.9	-	-	nd	nd	-
Chromium (Total)	160	-	-	14.2	14.4	-
Chromium VI	8	-	-	0.29	nd	-
Cobalt	80	-	-	3.6	2.8	-
Copper	230	-	-	6.1	6.5	-
Lead	120	-	-	4.2	2.2	-
Mercury	3.9	-	-	nd	nd	-
Molybdenum	40	-	-	1.2	1.8	-
Nickel	270	-	-	6.9	7	-
Selenium	5.5	-	-	nd	nd	-
Silver	40	-	-	nd	nd	-
Thallium	3.3	-	-	nd	nd	-
Uranium	33	-	-	nd	nd	-
Vanadium	86	-	-	18.6	17.9	-
Zinc	340	-	-	31.5	23.3	-
Acenaphthene	21	-	-	nd	nd	nd
Acenaphthylene	0.15	-	-	nd	nd	nd
Anthracene	0.67	-	-	nd	nd	nd
Benzo(a)anthracene	0.96	-	-	nd	nd	nd
Benzo(a)pyrene	0.3	-	-	nd	nd	nd
Benzo(b)fluoranthene	0.96	-	-	nd	nd	nd
Benzo(ghi)perylene	9.6	-	-	nd	nd	nd
Benzo(k)fluoranthene	0.96	-	-	nd	nd	nd
Chrysene	9.6	-	-	nd	nd	nd
Dibenz(ah)anthracene	0.1	-	-	nd	nd	nd
Fluoranthene	9.6	-	-	nd	nd	nd
Fluorene	62	-	-	nd	nd	nd
Indeno(123-cd)pyrene	0.76	-	-	nd	nd	nd
1-Methylnaphthalene	30	-	-	nd	nd	nd
2-Methylnaphthalene	30	-	-	nd	nd	nd
Naphthalene	9.6	-	-	nd	nd	nd
Phenanthrene	12	-	-	nd	nd	nd
Pyrene	96	-	-	nd	nd	nd
Polychlorinated Biphenyls (PCB)	1.1	nd	nd	-	-	nd
Sodium Absorption Ratio (SAR, unitless)	12	-	-	25.8	0.37	-
Electrical Conductivity (EC, mS/cm)	1.4	-	-	0.663	0.137	-

**Notes:**

Reported concentrations are in ug/g (ppm-parts per million) dry weight basis unless otherwise specified.

"nd" - non-detectable with respect to the laboratory detection limit (includes diluted samples, refer to Certificates of Laboratory Analysis for detection limits), "-" - sample was not analysed for the chemical parameter.

"NGV" - a site condition standard is not specified in O.Reg. 153/04, "BGS" - below ground surface, "NA" - not applicable, "NM" - not measured.

\*Site condition standards are from Table 2 of "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" (MOE, April 15, 2011).

\*\*The Boron (Hot Water Soluble) standard applies to surface soil samples (0-1.5m BGS), the Boron (Total) standard applies to subsurface soil samples (>1.5m BGS).

**BOLD/Shaded** values are not in compliance with the Table 2 potable site condition standards for industrial/commercial/community property use and coarse textured soils.

**FIGURE 3 SOIL CHEMICAL ANALYSIS**  
Metals, PAH, PCB, SAR, EC

**Site** Kawartha Downs  
1382 County Road 28  
Fraserville, Ontario

**Trafalgar Project No.** KD  
**Analytical Laboratory** ALS Environmental

O.Reg. 153/04 Site Condition Standards* Table 2 - Potable Groundwater Condition Industrial/Commercial/Community Property Use Coarse Textured Soil	Sample Location	BOREHOLE 209	BOREHOLE 208	-	-	-
	Trafalgar Sample ID	209 0-5	208 0-5	-	-	-
	Sample Depth (m, BGS)	0-1.52	0-1.52	-	-	-
	Field Vapour Conc. (ppm)	0	0	-	-	-
	Sample Collection Date	August 10, 2021	August 20, 2021	-	-	-
	Laboratory Report Ref. No.	L2625638	L2629752	-	-	-
	Laboratory Sample ID	L2625638-11	L2629752-1	-	-	-
	Sample Analysis Date(s)	August 13-18, 2021	August 23-25, 2021	-	-	-
Contaminant Names and Site Condition Standards						
Antimony	40	nd	nd	-	-	-
Arsenic	18	2.1	1.7	-	-	-
Barium	670	51.5	18.9	-	-	-
Beryllium	8	nd	nd	-	-	-
Boron (Hot Water Soluble)**	2	nd	nd	-	-	-
Boron (Total)**	120	5.8	nd	-	-	-
Cadmium	1.9	nd	nd	-	-	-
Chromium (Total)	160	12.7	8.5	-	-	-
Chromium VI	8	nd	0.24	-	-	-
Cobalt	80	3.9	2.2	-	-	-
Copper	230	6.5	2.9	-	-	-
Lead	120	3.4	2.5	-	-	-
Mercury	3.9	nd	0.0143	-	-	-
Molybdenum	40	nd	nd	-	-	-
Nickel	270	7.8	3.8	-	-	-
Selenium	5.5	nd	nd	-	-	-
Silver	40	nd	nd	-	-	-
Thallium	3.3	nd	nd	-	-	-
Uranium	33	nd	nd	-	-	-
Vanadium	86	22.7	19.2	-	-	-
Zinc	340	20.8	10.1	-	-	-
Acenaphthene	21	nd	nd	-	-	-
Acenaphthylene	0.15	nd	nd	-	-	-
Anthracene	0.67	nd	nd	-	-	-
Benzo(a)anthracene	0.96	nd	nd	-	-	-
Benzo(a)pyrene	0.3	nd	nd	-	-	-
Benzo(b)fluoranthene	0.96	nd	nd	-	-	-
Benzo(ghi)perylene	9.6	nd	nd	-	-	-
Benzo(k)fluoranthene	0.96	nd	nd	-	-	-
Chrysene	9.6	nd	nd	-	-	-
Dibenz(ah)anthracene	0.1	nd	nd	-	-	-
Fluoranthene	9.6	nd	nd	-	-	-
Fluorene	62	nd	nd	-	-	-
Indeno(123-cd)pyrene	0.76	nd	nd	-	-	-
1-Methylnaphthalene	30	nd	nd	-	-	-
2-Methylnaphthalene	30	nd	nd	-	-	-
Naphthalene	9.6	nd	nd	-	-	-
Phenanthrene	12	nd	nd	-	-	-
Pyrene	96	nd	nd	-	-	-
Polychlorinated Biphenyls (PCB)	1.1	-	-	-	-	-
Sodium Absorption Ratio (SAR, unitless)	12	28.9	0.38	-	-	-
Electrical Conductivity (EC, mS/cm)	1.4	0.352	0.173	-	-	-

**Notes:**

Reported concentrations are in ug/g (ppm-parts per million) dry weight basis unless otherwise specified.

"nd" - non-detectable with respect to the laboratory detection limit (includes diluted samples, refer to Certificates of Laboratory Analysis for detection limits), "-" - sample was not analysed for the chemical parameter.

"NGV" - a site condition standard is not specified in O.Reg. 153/04, "BGS" - below ground surface, "NA" - not applicable, "NM" - not measured.

\*Site condition standards are from Table 2 of "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" (MOE, April 15, 2011).

\*\*The Boron (Hot Water Soluble) standard applies to surface soil samples (0-1.5m BGS), the Boron (Total) standard applies to subsurface soil samples (>1.5m BGS).

**BOLD/Shaded** values are not in compliance with the Table 2 potable site condition standards for industrial/commercial/community property use and coarse textured soils.

**FIGURE 4 GROUNDWATER CHEMICAL ANALYSIS**  
**BTEX, PHC, VOC**

**Site** Kawartha Downs  
1382 County Road 28  
Fraserville, Ontario  
**Trafalgar Project No.** KD  
**Analytical Laboratory** ALS Environmental

O.Reg. 153/04 Site Condition Standards* Table 2 - Potable Groundwater Condition All Property Use Categories Coarse Textured Soil	Sample Location Trafalgar Sample ID	BOREHOLE 101 <b>BH101</b>	BOREHOLE 102 <b>BH102</b>	BOREHOLE 103 <b>BH103</b>	BOREHOLE 104 <b>BH104</b>	BOREHOLE 208 <b>BH208</b>
	Sample Depth (m, BGS)	1.746	1.442	1.385	1.399	1.831
	Field Vapour Conc. (ppm)	0	5	260	0	45
	Sample Collection Date	August 24, 2021	August 24, 2021	August 24, 2021	August 24, 2021	August 24, 2021
	Laboratory Report Ref. No.	L2630993	L2630993	L2630993	L2630993	L2630993
	Laboratory Sample ID	L2630993-1	L2630993-2	L2630993-3	L2630993-4	L2630993-5
Sample Analysis Date(s)		August 25-27, 2021	August 25-27, 2021	August 25-27, 2021	August 25-27, 2021	August 25-27, 2021
Contaminant Names and Site Condition Standards						
Benzene	5	nd	nd	nd	nd	0.83
Toluene	24	nd	nd	nd	nd	1.55
Ethylbenzene	2.4	nd	nd	nd	nd	nd
Xylene Mixture	300	nd	nd	nd	nd	1.17
Petroleum Hydrocarbons F1 (C6 to C10 - BTEX)**	750	nd	nd	nd	nd	nd
Petroleum Hydrocarbons F2 (>C10 to C16)	150	nd	nd	nd	nd	nd
Petroleum Hydrocarbons F3 (>C16 to C34)	500	nd	nd	nd	nd	nd
Petroleum Hydrocarbons F4 (>C34)	500	nd	nd	nd	nd	nd
Acetone	2700	nd	nd	nd	nd	nd
Bromodichloromethane	16	nd	nd	nd	nd	nd
Bromoform	25	nd	nd	nd	nd	nd
Bromomethane	0.89	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.79	nd	nd	nd	nd	nd
Chlorobenzene	30	nd	nd	nd	nd	nd
Chloroform	2.4	nd	nd	nd	nd	nd
Dibromochloromethane	25	nd	nd	nd	nd	nd
1,2-Dichlorobenzene (o-DCB)	3	nd	nd	nd	nd	nd
1,3-Dichlorobenzene (m-DCB)	59	nd	nd	nd	nd	nd
1,4-Dichlorobenzene (p-DCB)	1	nd	nd	nd	nd	nd
Dichlorodifluoromethane	590	nd	nd	nd	nd	nd
1,1-Dichloroethane	5	nd	nd	nd	nd	nd
1,2-Dichloroethane	1.6	nd	nd	nd	nd	nd
1,1-Dichloroethylene	1.6	nd	nd	nd	nd	nd
cis-1,2-Dichloroethylene	1.6	nd	nd	nd	nd	nd
trans-1,2-Dichloroethylene	1.6	nd	nd	nd	nd	nd
1,2-Dichloropropane	5	nd	nd	nd	nd	nd
1,3-Dichloropropene	0.5	nd	nd	nd	nd	nd
Ethylene Dibromide	0.2	nd	nd	nd	nd	nd
Hexane (n)	51	nd	nd	nd	nd	0.62
Methyl Ethyl Ketone	1800	nd	nd	nd	nd	nd
Methyl Isobutyl Ketone	640	nd	nd	nd	nd	nd
Methyl Tert Butyl Ether (MTBE)	15	nd	nd	nd	nd	nd
Methylene Chloride	50	nd	nd	nd	nd	nd
Styrene	5.4	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1.1	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
Tetrachloroethylene (PCE)	1.6	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	200	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	4.7	nd	nd	nd	nd	nd
Trichloroethylene (TCE)	1.6	nd	nd	nd	nd	nd
Trichlorofluoromethane	150	nd	nd	nd	nd	nd
Vinyl Chloride	0.5	nd	nd	nd	nd	nd

Notes:

Reported concentrations are in ug/L (ppb-parts per billion) unless otherwise specified.

"nd" - non-detectable with respect to the laboratory detection limit (includes diluted samples, refer to Certificates of Laboratory Analysis for detection limits), "-" - sample was not analysed for the chemical parameter.

"NGV" - a site condition standard is not specified in O.Reg. 153/04, "BGS" - below ground surface, "NA" - not applicable, "NM" - not measured.

\*Site condition standards are from Table 2 of "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" (MOE, April 15, 2011).

\*\*The Petroleum Hydrocarbons F1 standard does not include BTEX concentrations; the BTEX concentrations have been subtracted from the Petroleum Hydrocarbons F1 analytical results to yield the concentrations reported above.

**BOLD/Shaded** values are not in compliance with the Table 2 potable site condition standards for all property use categories and coarse textured soils.

**FIGURE 4 GROUNDWATER CHEMICAL ANALYSIS**  
**BTEX, PHC, VOC**

**Site** Kawartha Downs  
1382 County Road 28  
Fraserville, Ontario  
**Trafalgar Project No.** KD  
**Analytical Laboratory** ALS Environmental

<b>O.Reg. 153/04 Site Condition Standards*</b> <b>Table 2 - Potable Groundwater Condition</b> <b>All Property Use Categories</b> <b>Coarse Textured Soil</b>	Sample Location	BOREHOLE 210	-	-	-	-
	Trafalgar Sample ID	<b>BH210</b>	-	-	-	-
	Sample Depth (m, BGS)	1.06	-	-	-	-
	Field Vapour Conc. (ppm)	0	-	-	-	-
	Sample Collection Date	August 24, 2021	-	-	-	-
	Laboratory Report Ref. No.	L2630993	-	-	-	-
	Laboratory Sample ID	L2630993-6	-	-	-	-
<b>Contaminant Names and Site Condition Standards</b>		Sample Analysis Date(s)	August 25-27, 2021	-	-	-
Benzene	5	nd	-	-	-	-
Toluene	24	nd	-	-	-	-
Ethylbenzene	2.4	nd	-	-	-	-
Xylene Mixture	300	nd	-	-	-	-
Petroleum Hydrocarbons F1 (C6 to C10 - BTEX)**	750	nd	-	-	-	-
Petroleum Hydrocarbons F2 (>C10 to C16)	150	nd	-	-	-	-
Petroleum Hydrocarbons F3 (>C16 to C34)	500	nd	-	-	-	-
Petroleum Hydrocarbons F4 (>C34)	500	nd	-	-	-	-
Acetone	2700	nd	-	-	-	-
Bromodichloromethane	16	nd	-	-	-	-
Bromoform	25	nd	-	-	-	-
Bromomethane	0.89	nd	-	-	-	-
Carbon Tetrachloride	0.79	nd	-	-	-	-
Chlorobenzene	30	nd	-	-	-	-
Chloroform	2.4	nd	-	-	-	-
Dibromochloromethane	25	nd	-	-	-	-
1,2-Dichlorobenzene (o-DCB)	3	nd	-	-	-	-
1,3-Dichlorobenzene (m-DCB)	59	nd	-	-	-	-
1,4-Dichlorobenzene (p-DCB)	1	nd	-	-	-	-
Dichlorodifluoromethane	590	nd	-	-	-	-
1,1-Dichloroethane	5	nd	-	-	-	-
1,2-Dichloroethane	1.6	nd	-	-	-	-
1,1-Dichloroethylene	1.6	nd	-	-	-	-
cis-1,2-Dichloroethylene	1.6	nd	-	-	-	-
trans-1,2-Dichloroethylene	1.6	nd	-	-	-	-
1,2-Dichloropropane	5	nd	-	-	-	-
1,3-Dichloropropane	0.5	nd	-	-	-	-
Ethylene Dibromide	0.2	nd	-	-	-	-
Hexane (n)	51	nd	-	-	-	-
Methyl Ethyl Ketone	1800	nd	-	-	-	-
Methyl Isobutyl Ketone	640	nd	-	-	-	-
Methyl Tert Butyl Ether (MTBE)	15	nd	-	-	-	-
Methylene Chloride	50	nd	-	-	-	-
Styrene	5.4	nd	-	-	-	-
1,1,1,2-Tetrachloroethane	1.1	nd	-	-	-	-
1,1,2,2-Tetrachloroethane	1	nd	-	-	-	-
Tetrachloroethylene (PCE)	1.6	nd	-	-	-	-
1,1,1-Trichloroethane	200	nd	-	-	-	-
1,1,2-Trichloroethane	4.7	nd	-	-	-	-
Trichloroethylene (TCE)	1.6	nd	-	-	-	-
Trichlorofluoromethane	150	nd	-	-	-	-
Vinyl Chloride	0.5	nd	-	-	-	-

**Notes:**

Reported concentrations are in ug/L (ppb-parts per billion) unless otherwise specified.

"nd" - non-detectable with respect to the laboratory detection limit (includes diluted samples, refer to Certificates of Laboratory Analysis for detection limits), "-" - sample was not analysed for the chemical parameter.

"NGV" - a site condition standard is not specified in O.Reg. 153/04, "BGS" - below ground surface, "NA" - not applicable, "NM" - not measured.

\*Site condition standards are from Table 2 of "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" (MOE, April 15, 2011).

\*\*The Petroleum Hydrocarbons F1 standard does not include BTEX concentrations; the BTEX concentrations have been subtracted from the Petroleum Hydrocarbons F1 analytical results to yield the concentrations reported above.

**BOLD/Shaded** values are not in compliance with the Table 2 potable site condition standards for all property use categories and coarse textured soils.

**FIGURE 4 GROUNDWATER CHEMICAL ANALYSIS**  
Metals, PAH, PCB

**Site** Kawartha Downs  
1382 County Road 28  
Fraserville, Ontario  
**Trafalgar Project No.** KD  
**Analytical Laboratory** ALS Environmental

O.Reg. 153/04 Site Condition Standards* Table 2 - Potable Groundwater Condition All Property Use Categories Coarse Textured Soil	Sample Location	BOREHOLE 101	BOREHOLE 102	BOREHOLE 103	BOREHOLE 104	BOREHOLE 208
	Trafalgar Sample ID	<b>BH101</b>	<b>BH102</b>	<b>BH103</b>	<b>BH104</b>	<b>BH208</b>
	Sample Depth (m, BGS)	1.746	1.442	1.385	1.399	1.831
	Field Vapour Conc. (ppm)	0	5	260	0	45
	Sample Collection Date	August 24, 2021	August 24, 2021	August 24, 2021	August 24, 2021	August 24, 2021
	Laboratory Report Ref. No.	L2630993	L2630993	L2630993	L2630993	L2630993
Laboratory Sample ID		L2630993-1	L2630993-2	L2630993-3	L2630993-4	L2630993-5
Sample Analysis Date(s)		August 25-27, 2021	August 25-27, 2021	August 25-27, 2021	August 25-27, 2021	August 25-27, 2021
Contaminant Names and Site Condition Standards						
Antimony	6	nd	0.13	nd	nd	0.12
Arsenic	25	nd	0.42	nd	nd	0.36
Barium	1000	110	265	<b>5530</b>	354	147
Beryllium	4	nd	nd	nd	nd	nd
Boron (Total)	5000	nd	26	nd	nd	29
Cadmium	2.7	nd	nd	nd	nd	nd
Chloride	790000	808	223	5970	3500	51.9
Chromium (Total)	50	nd	nd	nd	nd	nd
Chromium VI	25	nd	nd	nd	nd	nd
Cobalt	3.8	nd	nd	1.6	nd	nd
Copper	87	4.7	1.15	nd	2.1	1.3
Lead	10	nd	nd	nd	nd	nd
Mercury	0.29	nd	nd	nd	nd	nd
Molybdenum	70	4.47	11.6	11.1	32.2	2.34
Nickel	100	nd	nd	nd	nd	1.07
Selenium	10	nd	1.72	nd	0.68	0.323
Silver	1.5	nd	nd	nd	nd	nd
Sodium	490000	370000	102000	<b>1620000</b>	<b>1570000</b>	72900
Thallium	2	0.11	0.067	nd	0.11	0.029
Uranium	20	4.56	3.3	1.74	4.72	1.6
Vanadium	6.2	nd	0.52	nd	nd	0.57
Zinc	1100	nd	nd	nd	nd	1
Acenaphthene	4.1	nd	0.053	0.021	0.061	nd
Acenaphthylene	1	nd	nd	nd	nd	nd
Anthracene	2.4	nd	nd	nd	nd	nd
Benzo(a)anthracene	1	nd	nd	nd	nd	nd
Benzo(a)pyrene	0.01	nd	nd	nd	nd	nd
Benzo(b)fluoranthene	0.1	nd	nd	nd	nd	nd
Benzo(ghi)perylene	0.2	nd	nd	nd	nd	nd
Benzo(k)fluoranthene	0.1	nd	nd	nd	nd	nd
Chrysene	0.1	nd	nd	nd	nd	nd
Dibenz(ah)anthracene	0.2	nd	nd	nd	nd	nd
Fluoranthene	0.41	0.043	nd	nd	0.026	nd
Fluorene	120	nd	nd	nd	nd	nd
Indeno(123-cd)pyrene	0.2	nd	nd	nd	nd	nd
1-Methylnaphthalene	3.2	nd	nd	nd	0.026	0.051
2-Methylnaphthalene	3.2	nd	nd	nd	nd	0.049
Naphthalene	11	nd	nd	nd	nd	nd
Phenanthrene	1	nd	0.02	nd	nd	nd
Pyrene	4.1	nd	nd	nd	nd	nd
Polychlorinated Biphenyls (PCB)	3	-	-	nd	nd	-

Notes:  
Reported concentrations are in ug/L (ppb-parts per billion) unless otherwise specified.  
"nd" - non-detectable with respect to the laboratory detection limit (includes diluted samples, refer to Certificates of Laboratory Analysis for detection limits), "-" - sample was not analysed for the chemical parameter.  
"NGV" - a site condition standard is not specified in O.Reg. 153/04, "BGS" - below ground surface, "NA" - not applicable, "NM" - not measured.  
\*Site condition standards are from Table 2 of "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" (MOE, April 15, 2011).  
**BOLD/Shaded** values are not in compliance with the Table 2 potable site condition standards for all property use categories and coarse textured soils.

# FIGURE 4 GROUNDWATER CHEMICAL ANALYSIS

Metals, PAH, PCB

**Site** Kawartha Downs  
1382 County Road 28  
Fraserville, Ontario

**Trafalgar Project No.** KD

**Analytical Laboratory** ALS Environmental

O.Reg. 153/04 Site Condition Standards* Table 2 - Potable Groundwater Condition All Property Use Categories Coarse Textured Soil	Sample Location	BOREHOLE 101	-	-	-	-
	Trafalgar Sample ID	<b>BH101</b>	-	-	-	-
	Sample Depth (m, BGS)	1.746	-	-	-	-
	Field Vapour Conc. (ppm)	0	-	-	-	-
	Sample Collection Date	August 24, 2021	-	-	-	-
	Laboratory Report Ref. No.	L2630993	-	-	-	-
	Laboratory Sample ID	L2630993-1	-	-	-	-
	Sample Analysis Date(s)	August 25-27, 2021	-	-	-	-
Contaminant Names and Site Condition Standards						
Antimony	6	0.19	-	-	-	-
Arsenic	25	0.61	-	-	-	-
Barium	1000	113	-	-	-	-
Beryllium	4	nd	-	-	-	-
Boron (Total)	5000	53	-	-	-	-
Cadmium	2.7	nd	-	-	-	-
Chloride	790000	23.5	-	-	-	-
Chromium (Total)	50	nd	-	-	-	-
Chromium VI	25	nd	-	-	-	-
Cobalt	3.8	nd	-	-	-	-
Copper	87	1.97	-	-	-	-
Lead	10	nd	-	-	-	-
Mercury	0.29	nd	-	-	-	-
Molybdenum	70	25.5	-	-	-	-
Nickel	100	nd	-	-	-	-
Selenium	10	0.73	-	-	-	-
Silver	1.5	nd	-	-	-	-
Sodium	490000	113000	-	-	-	-
Thallium	2	0.013	-	-	-	-
Uranium	20	1.79	-	-	-	-
Vanadium	6.2	0.93	-	-	-	-
Zinc	1100	1.2	-	-	-	-
Acenaphthene	4.1	0.025	-	-	-	-
Acenaphthylene	1	nd	-	-	-	-
Anthracene	2.4	nd	-	-	-	-
Benzo(a)anthracene	1	nd	-	-	-	-
Benzo(a)pyrene	0.01	nd	-	-	-	-
Benzo(b)fluoranthene	0.1	nd	-	-	-	-
Benzo(ghi)perylene	0.2	nd	-	-	-	-
Benzo(k)fluoranthene	0.1	nd	-	-	-	-
Chrysene	0.1	nd	-	-	-	-
Dibenz(ah)anthracene	0.2	nd	-	-	-	-
Fluoranthene	0.41	nd	-	-	-	-
Fluorene	120	nd	-	-	-	-
Indeno(123-cd)pyrene	0.2	nd	-	-	-	-
1-Methylnaphthalene	3.2	nd	-	-	-	-
2-Methylnaphthalene	3.2	nd	-	-	-	-
Naphthalene	11	nd	-	-	-	-
Phenanthrene	1	nd	-	-	-	-
Pyrene	4.1	nd	-	-	-	-
Polychlorinated Biphenyls (PCB)	3	nd	-	-	-	-

## Notes:

Reported concentrations are in ug/L (ppb-parts per billion) unless otherwise specified.

"nd" - non-detectable with respect to the laboratory detection limit (includes diluted samples, refer to Certificates of Laboratory Analysis for detection limits), "-" - sample was not analysed for the chemical parameter.

"NGV" - a site condition standard is not specified in O.Reg. 153/04, "BGS" - below ground surface, "NA" - not applicable, "NM" - not measured.

\*Site condition standards are from Table 2 of "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" (MOE, April 15, 2011).

**BOLD/Shaded** values are not in compliance with the Table 2 potable site condition standards for all property use categories and coarse textured soils.



**APPENDIX A**

**GEOTECHNICAL BOREHOLE LOGS & SITE PLAN**

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LOG OF BOREHOLE No. BH208(MW) SHEET. 1 of 1

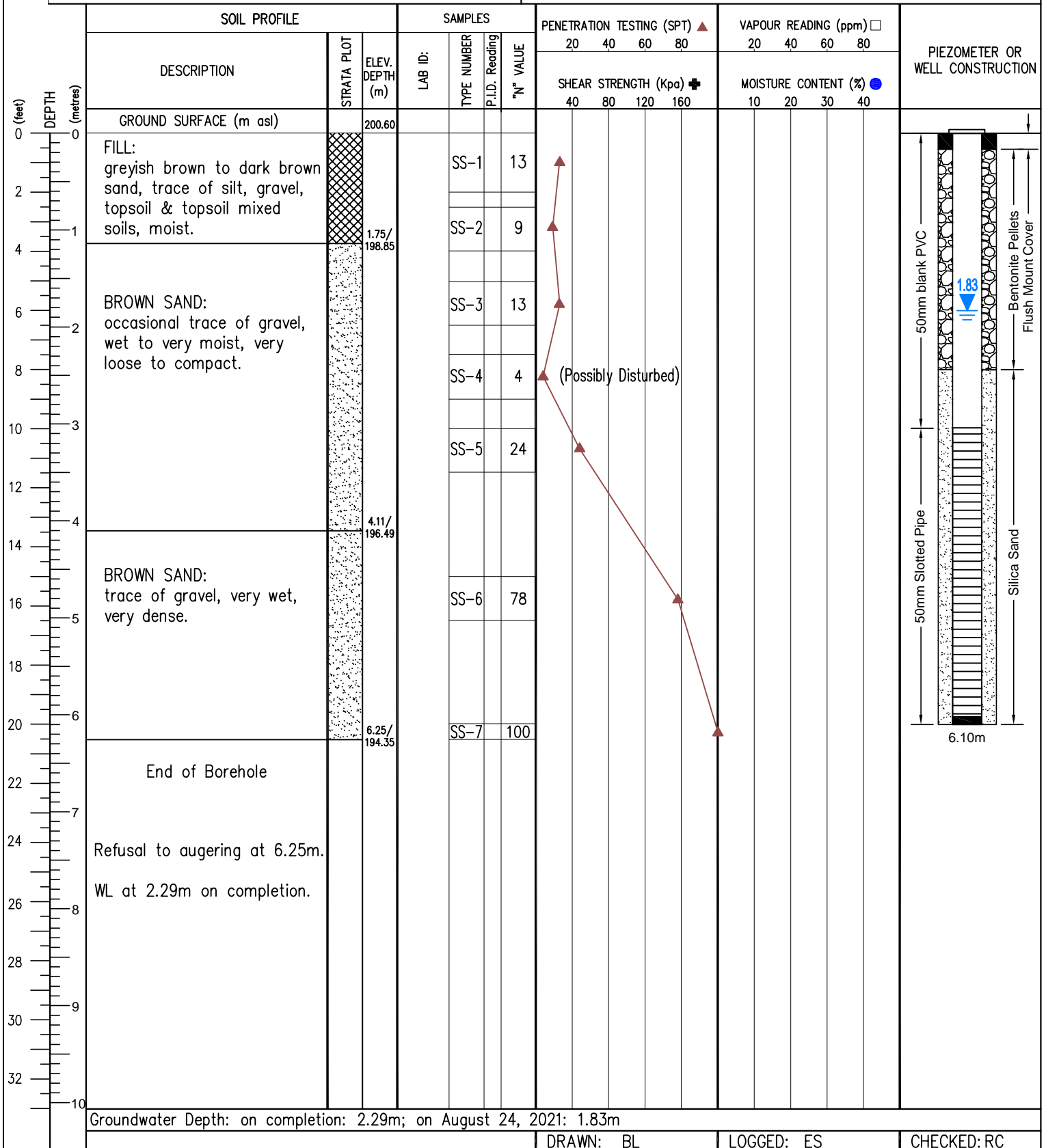
PROJECT NO.: FE-P 21-11454

PROJECT NAME: Geotechnical Investigation

LOCATION: Kawartha Downs, Moore Dr. & County Rd.  
28, Peterborough, ON.

DRILLING METHOD: Geo-Probe, Hollow Stem

DRILLING DATE: August 20, 2021





LOG OF BOREHOLE No. BH209 SHEET. 1 of 1

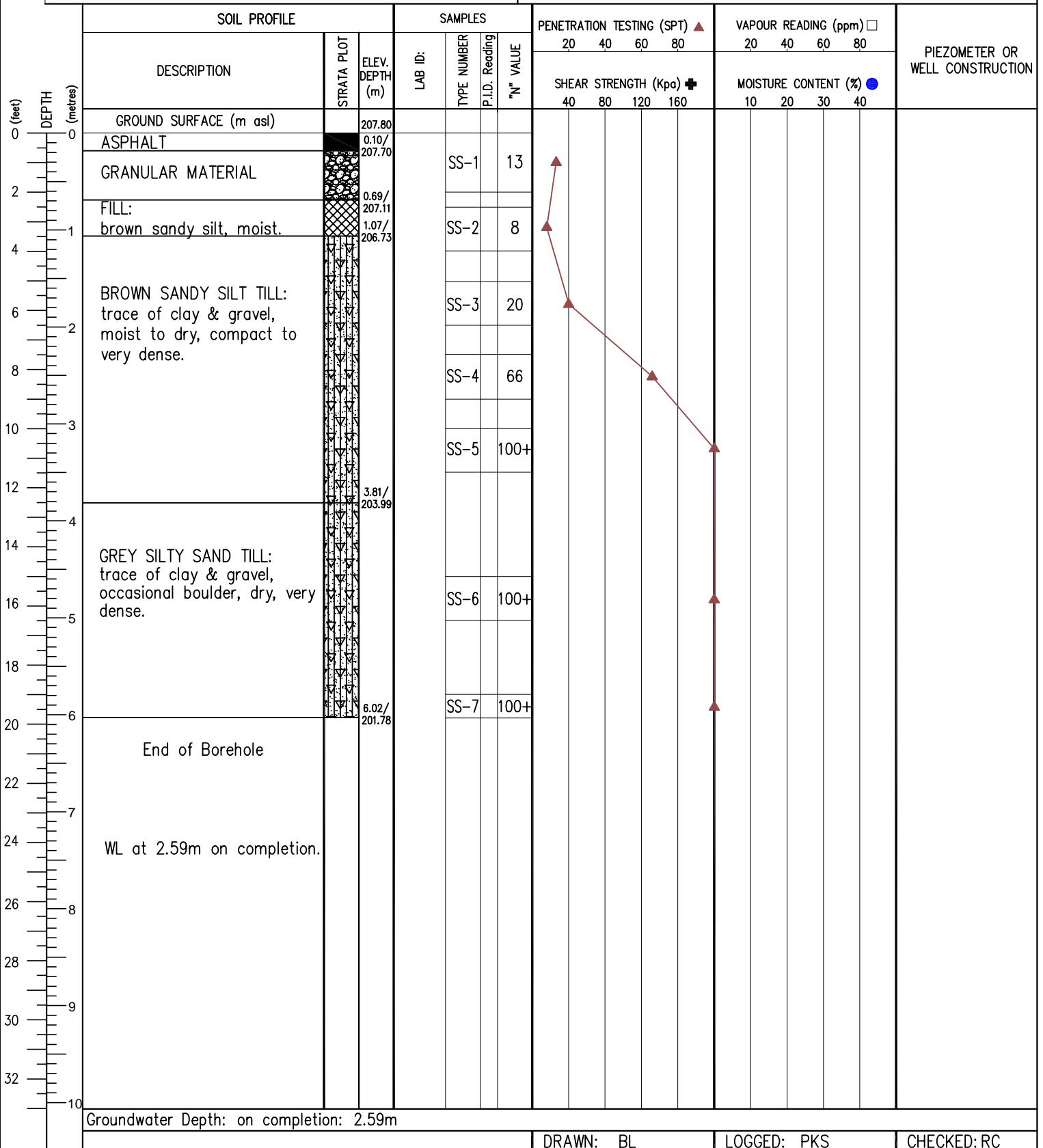
PROJECT NO.: FE-P 21-11454

PROJECT NAME: Geotechnical Investigation

LOCATION: Kawartha Downs, Moore Dr. & County Rd. 28, Peterborough, ON.

DRILLING METHOD: Geo-Probe, Hollow Stem

DRILLING DATE: August 10, 2021





LOG OF BOREHOLE No. BH210(MW) SHEET. 1 of 1

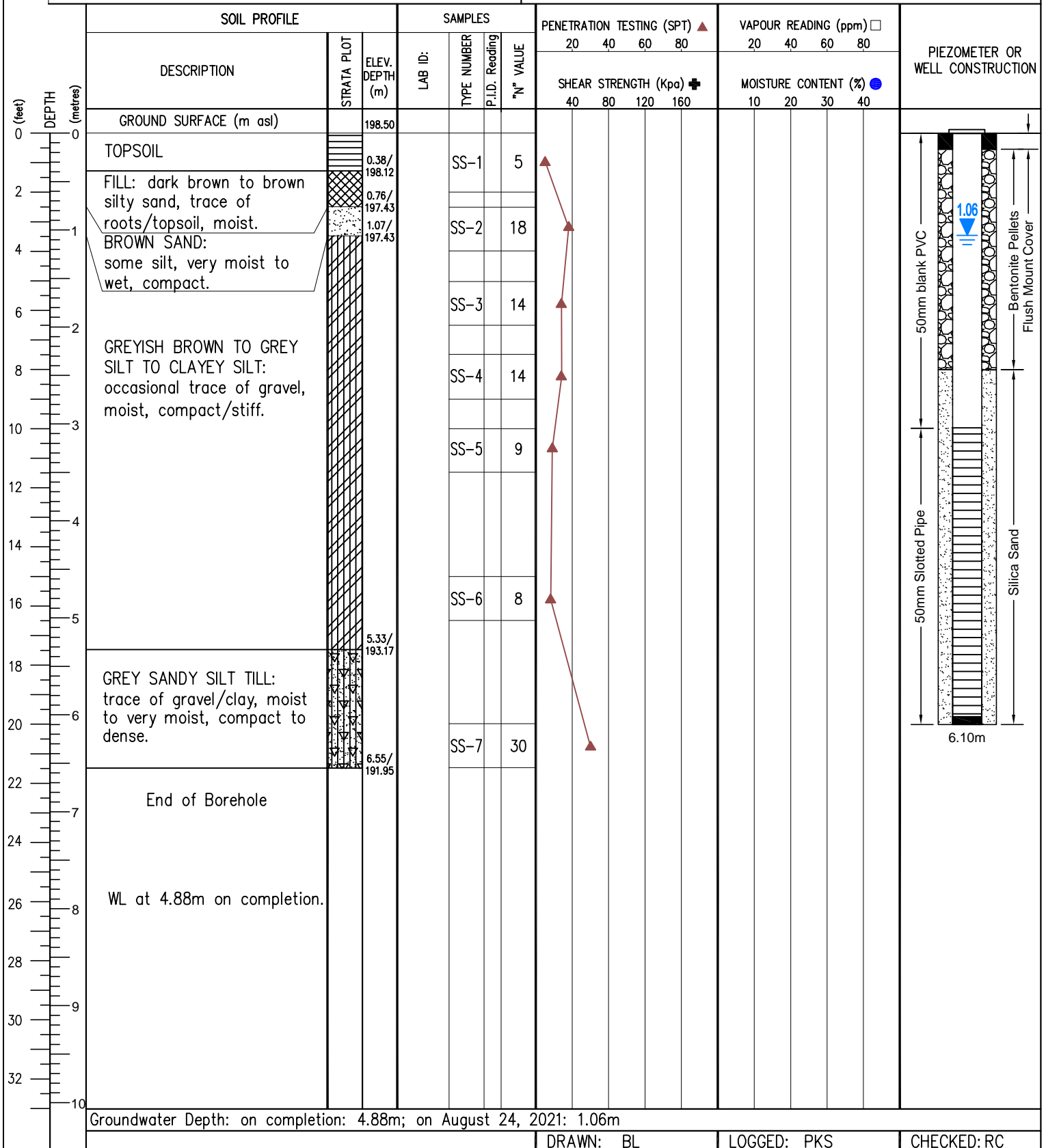
PROJECT NO.: FE-P 21-11454

PROJECT NAME: Geotechnical Investigation

LOCATION: Kawartha Downs, Moore Dr. & County Rd.  
28, Peterborough, ON.

DRILLING METHOD: Geo-Probe, Hollow Stem

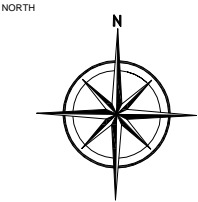
DRILLING DATE: August 10, 2021








400 Esna Park Dr., #15 Tel: 905 475-7755  
Markham, Ontario Fax: 905 475-7718  
L3R 3K2



LEGEND

 Borehole/  
Monitoring Well

PROJECT NAME AND ADDRESS

GEOTECHNICAL INVESTIGATION

KAWARTHA DOWNS,  
MOORE DRIVE & COUNTY ROAD 28,  
PETERBOROUGH, ONTARIO

FIGURE 1:  
SITE PLAN WITH BOREHOLE LOCATIONS


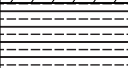
PROJECT NO. FE-P 21-11454	SHEET NO. <b>1</b>
DATE SEPTEMBER 2021	
SCALE AS SHOWN	

**APPENDIX B**  
**BOREHOLE LOGS**

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<b>PROJECT NUMBER</b> KD	<b>DRILLING DATE</b> August 9, 2021
<b>PROJECT NAME</b> Kawartha Downs	<b>TOTAL DEPTH</b> 20 ft
<b>CLIENT</b> RIC (KDL) Inc	<b>DIAMETER</b> 2"
<b>ADDRESS</b> 1382 Country Road 28	<b>CASING</b> Flush-Mount
	<b>SCREEN</b> 50 mm PVC Riser/Screen

<b>COMMENTS</b> Installed beside an existing monitoring well.	<b>LOGGED BY</b> Sandy Hudson <b>CHECKED BY</b> Robb Hudson
---	--

Depth (ft)	Symbol	Soil Description	Sample No.	Method	VVC (ppm)	Volatile Vapour Concentration (ppm)	Well Diagram	Well Description
1		Topsoil						
2		Native Brown Clayey Silt West, soft No staining, no odour	1	DP	0			
3								
4								
5								
6								
7								
8			2	DP	0			
9								
10		Native Brown Silt Moist, stiff No staining, no odour Wet sand and gravel seams						
11								
12			3	DP	220			
13								
14								
15								
16								
17								
18			4	DP	200			
19								

<b>PROJECT NUMBER</b> KD	<b>DRILLING DATE</b> August 9, 2021
<b>PROJECT NAME</b> Kawartha Downs	<b>TOTAL DEPTH</b> 20 ft
<b>CLIENT</b> RIC (KDL) Inc	<b>DIAMETER</b> 2"
<b>ADDRESS</b> 1382 Country Road 28	<b>CASING</b> Flush-Mount
	<b>SCREEN</b> 50 mm PVC Riser/Screen

<b>COMMENTS</b> Vapour reading of 5 ppm on August 24, 2021	<b>LOGGED BY</b> Sandy Hudson
	<b>CHECKED BY</b> Robb Hudson

Depth (ft)	Symbol	Soil Description	Sample No.	Method	VVC (ppm)	Volatile Vapour Concentration (ppm)	Well Diagram	Well Description
						0 600		
1		Brown Granular Fill						Flush-Mount Casing Set in Concrete, J-Plug
2			1	DP	0			Bentonite Seal
3		Native Brown Silt Moist/wet No staining, no odour Wet sand and gravel seams						Water Level (1.442 m)
4								
5								
6								
7			2	DP	0			
8								
9								50 mm PVC Riser/Screen
10								
11								
12			3	DP	510			Silica Sand Packing Around Screened Interval
13								
14								
15								
16								
17			4	DP	510			
18								
19								



<b>PROJECT NUMBER</b> KD	<b>DRILLING DATE</b> August 9, 2021
<b>PROJECT NAME</b> Kawartha Downs	<b>TOTAL DEPTH</b> 25 ft
<b>CLIENT</b> RIC (KDL) Inc	<b>DIAMETER</b> 2"
<b>ADDRESS</b> 1382 Country Road 28	<b>CASING</b> Flush-Mount
	<b>SCREEN</b> 50 mm PVC Riser/Screen

<b>COMMENTS</b> Vapour reading of 260 ppm on August 24, 2021.	<b>LOGGED BY</b> Sandy Hudson
	<b>CHECKED BY</b> Robb Hudson

Depth (ft)	Symbol	Soil Description	Sample No.	Method	VVC (ppm)	Volatile Vapour Concentration (ppm)	Well Diagram	Well Description
						0 200		
1		Brown Granular Fill	1	DP	0			Flush-Mount Casing Set in Concrete, J-Plug
2		Native Brown Silt Moist/wet, stiff No staining, no odour						Bentonite Seal  Water Level (1.385 m)
3								
4								
5			2	DP	0			Bentonite Seal  Water Level (1.385 m)
6								
7								
8								
9			3	DP	5			Bentonite Seal  Water Level (1.385 m)
10		Native Grey Silt Dry/moist, very stiff No staining, no odour						
11								
12								
13			4	DP	0			Bentonite Seal  Water Level (1.385 m)
14								
15								
16								
17			5	DP	65			50 mm PVC Riser/Screen  Silica Sand Packing Around Screened Interval
18								
19								
20								
21			5	DP	65			50 mm PVC Riser/Screen  Silica Sand Packing Around Screened Interval
22								
23								
24								

<b>PROJECT NUMBER</b> KD	<b>DRILLING DATE</b> August 9, 2021
<b>PROJECT NAME</b> Kawartha Downs	<b>TOTAL DEPTH</b> 17.5 ft
<b>CLIENT</b> RIC (KDL) Inc	<b>DIAMETER</b> 2"
<b>ADDRESS</b> 1382 Country Road 28	<b>CASING</b> Flush-Mount
	<b>SCREEN</b> 50 mm PVC Riser/Screen

<b>COMMENTS</b> Vapour reading of 0 ppm on August 24, 2021.	<b>LOGGED BY</b> Sandy Hudson
	<b>CHECKED BY</b> Robb Hudson

Depth (ft)	Symbol	Soil Description	Sample No.	Method	VVC (ppm)	Volatile Vapour Concentration (ppm)	Well Diagram	Well Description
						0 200		
1		Asphalt	1	DP	0	0		Flush-Mount Casing Set in Concrete, J-Plug
2		Granular Fill						Bentonite Seal
3		Native Brown Silt						
4		Dry	2	DP	0	0		Water Level (1.399 m)
5		No staining, no odour						50 mm PVC Riser/Screen
6								
7			3	DP	0	0		Silica Sand Packing Around Screened Interval
8								
9								
10			4	DP	55	55		
11								
12								
13		Native Grey Silt						
14		Dry/moist						
15		No staining, no odour						
16		Wet seams						
17								
18								
19								

<b>PROJECT NUMBER</b> KD	<b>DRILLING DATE</b> August 20, 2021
<b>PROJECT NAME</b> Kawartha Downs	<b>TOTAL DEPTH</b> 17 ft
<b>CLIENT</b> RIC (KDL) Inc	<b>DIAMETER</b> 2"
<b>ADDRESS</b> 1382 Country Road 28	<b>CASING</b> Flush-Mount
	<b>SCREEN</b> 50 mm PVC Riser/Screen

**COMMENTS** Vapour reading of 45 ppm on August 24, 2021.  
Refer to Appendix A for soil description.

**LOGGED BY** Sandy Hudson  
**CHECKED BY** Robb Hudson

Depth (ft)	Symbol	Soil Description	Sample No.	Method	VVC (ppm)	Volatile Vapour Concentration (ppm)	Well Diagram	Well Description
						0 200		
1								Flush-Mount Casing Set in Concrete, J-Plug
2								Bentonite Seal
3			1	DP	0			
4								50 mm PVC Riser/Screen
5								
6								Water Level (1.831 m)
7								
8								
9								Silica Sand Packing Around Screened Interval
10								
11								
12								
13								
14								
15								
16			2	DP	0			
17								
18								
19								

<b>PROJECT NUMBER</b> KD	<b>DRILLING DATE</b> August 10, 2021
<b>PROJECT NAME</b> Kawartha Downs	<b>TOTAL DEPTH</b> 21.5 ft
<b>CLIENT</b> RIC (KDL) Inc	<b>DIAMETER</b> 2"
<b>ADDRESS</b> 1382 Country Road 28	<b>CASING</b> Flush-Mount
	<b>SCREEN</b> 50 mm PVC Riser/Screen

<b>COMMENTS</b> Vapour reading of 0 ppm on August 24, 2021. Refer to Appendix A for soil description.	<b>LOGGED BY</b> Sandy Hudson <b>CHECKED BY</b> Robb Hudson
--	--

Depth (ft)	Symbol	Soil Description	Sample No.	Method	VVC (ppm)	Volatile Vapour Concentration (ppm)	Well Diagram	Well Description
						0 200		
1								Flush-Mount Casing Set in Concrete, J-Plug
2								Bentonite Seal
3			1	DP	0			Water Level (1.060 m)
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								50 mm PVC Riser/Screen
16								
17								
18								
19								Silica Sand Packing Around Screened Interval
20								
21			2	DP	0			

**APPENDIX C**

**CERTIFICATES OF LABORATORY ANALYSIS**

---



Trafalgar Environmental Consultants  
(Newmarket)  
ATTN: Robb Hudson  
P.O. Box 93316  
Newmarket On L3X1A3

Date Received: 11-AUG-21  
Report Date: 20-AUG-21 09:42 (MT)  
Version: FINAL

Client Phone: 416-919-4960

## Certificate of Analysis

Lab Work Order #: L2625638

Project P.O. #: KD

Job Reference: KD

C of C Numbers:

Legal Site Desc:

Amanda Overholster  
Account Manager

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

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



# ANALYTICAL REPORT

## Summary of Guideline Exceedances

Guideline						
ALS ID	Client ID	Grouping	Analyte	Result	Guideline Limit	Unit
Ontario Regulation 153/04 - April 15, 2011 Standards - T2-Ground Water (Coarse Soil)-All Types of Property Use						
(No parameter exceedances)						

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



ANALYTICAL REPORT

Physical Tests - SOIL

				Lab ID	L2625638-1	L2625638-2	L2625638-3	L2625638-4	L2625638-5	L2625638-6	L2625638-7	L2625638-8	L2625638-9
				Sample Date	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	10-AUG-21
				Sample ID	101 0-5	101 10-15	102 0-5	102 15-20	103 0-5	103 20-25	104 0-5	104 15-17.5	210 0-5
Analyte	Unit	Guide Limits											
		#1	#2										
Conductivity	mS/cm	-	-	0.159		0.956		0.238				0.663	0.137
% Moisture	%	-	-	8.37	11.1	8.03	12.9	12.0	7.49	14.8		15.6	14.0
pH	pH units	-	-	7.71	7.71	7.74	7.83	7.86	7.96	7.90		7.92	7.89

Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of 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.

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





ANALYTICAL REPORT

Physical Tests - SOIL

		Lab ID	L2625638-10	L2625638-11
		Sample Date	10-AUG-21	10-AUG-21
		Sample ID	210 20-21.5	209 0-5
		Guide Limits		
Analyte	Unit	#1	#2	
Conductivity	mS/cm	-	-	0.352
% Moisture	%	-	-	15.4 8.03
pH	pH units	-	-	7.84 7.99

Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of 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.

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



ANALYTICAL REPORT

Cyanides - SOIL

		Lab ID	L2625638-1	L2625638-3	L2625638-5	L2625638-8	L2625638-9	L2625638-11
		Sample Date	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	10-AUG-21	10-AUG-21
		Sample ID	101 0-5	102 0-5	103 0-5	104 15-17.5	210 0-5	209 0-5
Analyte	Unit	Guide Limits						
		#1	#2					
Cyanide, Weak Acid Diss	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050

Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of 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.

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



ANALYTICAL REPORT

Saturated Paste Extractables - SOIL

		Lab ID		L2625638-1	L2625638-3	L2625638-5	L2625638-8	L2625638-9	L2625638-11
		Sample Date		09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	10-AUG-21	10-AUG-21
		Sample ID		101 0-5	102 0-5	103 0-5	104 15-17.5	210 0-5	209 0-5
Analyte	Unit	Guide Limits							
		#1	#2						
SAR	SAR	-	-	0.60	11.1 <sup>SAR:M</sup>	2.10	25.8 <sup>SAR:M</sup>	0.37	28.9 <sup>SAR:M</sup>
Calcium (Ca)	mg/L	-	-	46.7	18.3	18.0	2.07	20.8	0.56
Magnesium (Mg)	mg/L	-	-	3.61	<0.50	0.80	<0.50	2.61	<0.50
Sodium (Na)	mg/L	490	-	15.8	172	33.5	135	6.71	78.1

Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of 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.

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

# ANALYTICAL REPORT

## Metals - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2625638-1	L2625638-3	L2625638-5	L2625638-8	L2625638-9	L2625638-11
		#1	#2				09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	10-AUG-21	10-AUG-21
							101 0-5	102 0-5	103 0-5	104 15-17.5	210 0-5	209 0-5
Antimony (Sb)	ug/g	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic (As)	ug/g	-	-	1.7	2.6	2.0	2.6	1.4	2.1			
Barium (Ba)	ug/g	-	-	52.2	123	56.2	44.6	37.5	51.5			
Beryllium (Be)	ug/g	-	-	<0.50	0.58	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Boron (B)	ug/g	-	-	6.2	10.0	7.4	6.8	<5.0	5.8			
Boron (B), Hot Water Ext.	ug/g	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium (Cd)	ug/g	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium (Cr)	ug/g	-	-	10.8	22.9	11.2	14.2	14.4	12.7			
Cobalt (Co)	ug/g	-	-	3.7	7.0	3.9	3.6	2.8	3.9			
Copper (Cu)	ug/g	-	-	5.8	13.1	7.0	6.1	6.5	6.5			
Lead (Pb)	ug/g	-	-	3.2	5.1	3.9	4.2	2.2	3.4			
Mercury (Hg)	ug/g	-	-	<0.0050	0.0052	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Molybdenum (Mo)	ug/g	-	-	<1.0	<1.0	<1.0	1.2	1.8	<1.0			
Nickel (Ni)	ug/g	-	-	7.0	14.3	7.2	6.9	7.0	7.8			
Selenium (Se)	ug/g	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver (Ag)	ug/g	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium (Tl)	ug/g	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U)	ug/g	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium (V)	ug/g	-	-	20.1	37.5	20.5	18.6	17.9	22.7			
Zinc (Zn)	ug/g	-	-	16.9	33.2	19.2	31.5	23.3	20.8			

### Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of 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.

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



ANALYTICAL REPORT

Speciated Metals - SOIL

		Lab ID	L2625638-1	L2625638-3	L2625638-5	L2625638-8	L2625638-9	L2625638-11
		Sample Date	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	10-AUG-21	10-AUG-21
		Sample ID	101 0-5	102 0-5	103 0-5	104 15-17.5	210 0-5	209 0-5
Analyte	Unit	Guide Limits						
		#1	#2					
Chromium, Hexavalent	ug/g	-	-	<0.20	<0.20	<0.20	0.29	<0.20
				<0.20				<0.20

Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of 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.

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

# ANALYTICAL REPORT

## Volatile Organic Compounds - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2625638-1	L2625638-2	L2625638-3	L2625638-4	L2625638-5	L2625638-6	L2625638-7	L2625638-8	L2625638-9
		#1	#2	Sample Date	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	10-AUG-21
				Sample ID	101 0-5	101 10-15	102 0-5	102 15-20	103 0-5	103 20-25	104 0-5	104 15-17.5	210 0-5
Acetone	ug/g	-	-		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	ug/g	-	-		<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon tetrachloride	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dibromoethane	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
trans-1,2-Dichloroethylene	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylene Chloride	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	ug/g	-	-		<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
trans-1,3-Dichloropropene	ug/g	-	-		<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	-	-		<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
Ethylbenzene	ug/g	-	-		<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
n-Hexane	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Ethyl Ketone	ug/g	-	-		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	ug/g	-	-		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MTBE	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of Property Use

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

# ANALYTICAL REPORT

## Volatile Organic Compounds - SOIL

Analyte	Unit	Guide Limits			
		#1	#2		
Acetone	ug/g	-	-	<0.50	<0.50
Benzene	ug/g	-	-	<0.0068	<0.0068
Bromodichloromethane	ug/g	-	-	<0.050	<0.050
Bromoform	ug/g	-	-	<0.050	<0.050
Bromomethane	ug/g	-	-	<0.050	<0.050
Carbon tetrachloride	ug/g	-	-	<0.050	<0.050
Chlorobenzene	ug/g	-	-	<0.050	<0.050
Dibromochloromethane	ug/g	-	-	<0.050	<0.050
Chloroform	ug/g	-	-	<0.050	<0.050
1,2-Dibromoethane	ug/g	-	-	<0.050	<0.050
1,2-Dichlorobenzene	ug/g	-	-	<0.050	<0.050
1,3-Dichlorobenzene	ug/g	-	-	<0.050	<0.050
1,4-Dichlorobenzene	ug/g	-	-	<0.050	<0.050
Dichlorodifluoromethane	ug/g	-	-	<0.050	<0.050
1,1-Dichloroethane	ug/g	-	-	<0.050	<0.050
1,2-Dichloroethane	ug/g	-	-	<0.050	<0.050
1,1-Dichloroethylene	ug/g	-	-	<0.050	<0.050
cis-1,2-Dichloroethylene	ug/g	-	-	<0.050	<0.050
trans-1,2-Dichloroethylene	ug/g	-	-	<0.050	<0.050
Methylene Chloride	ug/g	-	-	<0.050	<0.050
1,2-Dichloropropane	ug/g	-	-	<0.050	<0.050
cis-1,3-Dichloropropene	ug/g	-	-	<0.030	<0.030
trans-1,3-Dichloropropene	ug/g	-	-	<0.030	<0.030
1,3-Dichloropropene (cis & trans)	ug/g	-	-	<0.042	<0.042
Ethylbenzene	ug/g	-	-	<0.018	<0.018
n-Hexane	ug/g	-	-	<0.050	<0.050
Methyl Ethyl Ketone	ug/g	-	-	<0.50	<0.50
Methyl Isobutyl Ketone	ug/g	-	-	<0.50	<0.50
MTBE	ug/g	-	-	<0.050	<0.050
Styrene	ug/g	-	-	<0.050	<0.050

**Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of Property Use**

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



# ANALYTICAL REPORT

## Volatile Organic Compounds - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2625638-1	L2625638-2	L2625638-3	L2625638-4	L2625638-5	L2625638-6	L2625638-7	L2625638-8	L2625638-9
		#1	#2	Sample Date	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	10-AUG-21
				Sample ID	101 0-5	101 10-15	102 0-5	102 15-20	103 0-5	103 20-25	104 0-5	104 15-17.5	210 0-5
1,1,1,2-Tetrachloroethane	ug/g	-	-		<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	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	ug/g	-	-		<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	ug/g	-	-		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Trichlorofluoromethane	ug/g	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	ug/g	-	-		<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
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	-	-		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Surrogate: 4-Bromofluorobenzene	%	-	-		110.7	107.4	99.2	99.0	103.3	103.8	100.8	97.8	137.0
Surrogate: 1,4-Difluorobenzene	%	-	-		108.3	102.9	97.4	98.9	102.0	105.0	101.0	98.0	138.9

### Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of 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.

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





ANALYTICAL REPORT

Volatile Organic Compounds - SOIL

		Lab ID		L2625638-10	L2625638-11
		Sample Date		10-AUG-21	10-AUG-21
		Sample ID		210 20-21.5	209 0-5
		Guide Limits			
Analyte	Unit	#1	#2		
1,1,1,2-Tetrachloroethane	ug/g	-	-	<0.050	<0.050
1,1,2,2-Tetrachloroethane	ug/g	-	-	<0.050	<0.050
Tetrachloroethylene	ug/g	-	-	<0.050	<0.050
Toluene	ug/g	-	-	<0.080	<0.080
1,1,1-Trichloroethane	ug/g	-	-	<0.050	<0.050
1,1,2-Trichloroethane	ug/g	-	-	<0.050	<0.050
Trichloroethylene	ug/g	-	-	<0.010	<0.010
Trichlorofluoromethane	ug/g	-	-	<0.050	<0.050
Vinyl chloride	ug/g	-	-	<0.020	<0.020
o-Xylene	ug/g	-	-	<0.020	<0.020
m+p-Xylenes	ug/g	-	-	<0.030	<0.030
Xylenes (Total)	ug/g	-	-	<0.050	<0.050
Surrogate: 4-Bromofluorobenzene	%	-	-	93.3	101.6
Surrogate: 1,4-Difluorobenzene	%	-	-	95.5	103.8

Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of 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.

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



# ANALYTICAL REPORT

## Hydrocarbons - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2625638-1	L2625638-2	L2625638-3	L2625638-4	L2625638-5	L2625638-6	L2625638-7	L2625638-8	L2625638-9
		#1	#2												
F1 (C6-C10)	ug/g	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F1-BTEX	ug/g	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	ug/g	-	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F2-Naphth	ug/g	-	-	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10
F3 (C16-C34)	ug/g	-	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	276
F3-PAH	ug/g	-	-	<50	<50	<50	<50	<50	<50	<50				<50	276
F4 (C34-C50)	ug/g	-	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	53	61
F4G-SG (GHH-Silica)	ug/g	-	-												
Total Hydrocarbons (C6-C50)	ug/g	-	-	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72	336
Chrom. to baseline at nC50		-	-	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Surrogate: 2-Bromobenzotrifluoride	%	-	-	97.6	90.0	95.3	90.9	93.3	93.0	94.3	93.3	93.3	93.3	93.3	92.9
Surrogate: 3,4-Dichlorotoluene	%	-	-	96.8	89.5	90.0	83.5	89.1	84.4	86.0	87.8	88.1	88.1	88.1	88.1

### Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of 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.

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



ANALYTICAL REPORT

Hydrocarbons - SOIL

		Lab ID	L2625638-10	L2625638-11
		Sample Date	10-AUG-21	10-AUG-21
		Sample ID	210 20-21.5	209 0-5
		Guide Limits		
Analyte	Unit	#1	#2	
F1 (C6-C10)	ug/g	-	-	<5.0
F1-BTEX	ug/g	-	-	<5.0
F2 (C10-C16)	ug/g	-	-	<10
F2-Naphth	ug/g	-	-	<10
F3 (C16-C34)	ug/g	-	-	72
F3-PAH	ug/g	-	-	63
F4 (C34-C50)	ug/g	-	-	<50
F4G-SG (GHH-Silica)	ug/g	-	-	680
Total Hydrocarbons (C6-C50)	ug/g	-	-	<72
Chrom. to baseline at nC50		-	-	YES
Surrogate: 2-Bromobenzotrifluoride	%	-	-	95.4
Surrogate: 3,4-Dichlorotoluene	%	-	-	82.4

Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of 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.

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



Environmental

## ANALYTICAL REPORT

## Polycyclic Aromatic Hydrocarbons - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2625638-1	L2625638-2	L2625638-3	L2625638-4	L2625638-5	L2625638-8	L2625638-9	L2625638-10	L2625638-11
		#1	#2				09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	10-AUG-21	10-AUG-21	10-AUG-21
							101 0-5	101 10-15	102 0-5	102 15-20	103 0-5	104 15-17.5	210 0-5	210 20-21.5	209 0-5
Acenaphthene	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)anthracene	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b&j)fluoranthene	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1+2-Methylnaphthalenes	ug/g	-	-	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
1-Methylnaphthalene	ug/g	-	-	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
2-Methylnaphthalene	ug/g	-	-	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	ug/g	-	-	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Phenanthrene	ug/g	-	-	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046
Pyrene	ug/g	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Surrogate: 2-Fluorobiphenyl	%	-	-	84.7	86.2	83.1	90.6	82.0	85.2	84.5	84.7	80.4			
Surrogate: d14-Terphenyl	%	-	-	86.6	87.8	81.5	88.7	80.0	86.1	85.6	88.4	79.5			

## Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of 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.

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

# ANALYTICAL REPORT

## Polychlorinated Biphenyls - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2625638-3	L2625638-4	L2625638-5	L2625638-6	L2625638-7	L2625638-10
		#1	#2				09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	09-AUG-21	10-AUG-21
							102 0-5	102 15-20	103 0-5	103 20-25	104 0-5	210 20-21.5
Aroclor 1242	ug/g	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1248	ug/g	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1254	ug/g	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1260	ug/g	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Total PCBs	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Surrogate: d14-Terphenyl	%	-	-	101.4	104.4	102.2	107.9	102.5	102.1			

### Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of 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

L2625638 CONT'D....  
Job Reference: KD  
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20-AUG-21 09:42 (MT)

## Qualifiers for Individual Parameters Listed:

Qualifier	Description
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SAR:M Reported SAR represents a maximum value. Actual SAR may be lower if both Ca and Mg were detectable.

## Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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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:

1. All extraction and analysis holding times were met.

# Reference Information

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## Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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- Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
- 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:

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

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

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

- F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
- F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
- F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
- F4G: Gravimetric Heavy Hydrocarbons
- F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
- 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.
- F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
- This method is validated for use.
- Data from analysis of validation and quality control samples is available upon request.
- 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).

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

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

<b>MET-200.2-CCMS-WT</b>	Soil	Metals in Soil by CRC ICPMS	EPA 200.2/6020B (mod)
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# Reference Information

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Job Reference: KD  
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## Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
<p>Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the &lt;2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the &lt;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, H<sub>2</sub>S) 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>			
<b>METHYLNAPS-CALC-WT</b>	Soil	ABN-Calculated Parameters	SW846 8270
<b>MOISTURE-WT</b>	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
<b>PAH-511-WT</b>	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 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).</p>			
<b>PCB-511-WT</b>	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 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).</p>			
<b>PH-WT</b>	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>			
<b>SAR-R511-WT</b>	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 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.</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 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).</p>			
<b>VOC-1,3-DCP-CALC-WT</b>	Soil	Regulation 153 VOCs	SW8260B/SW8270C
<b>VOC-511-HS-WT</b>	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

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### Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
<b>XYLENES-SUM-CALC-WT</b>	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 ww - 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.*

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT		Soil						
Batch	R5556322							
WG3599027-4	DUP	L2625638-9						
Boron (B), Hot Water Ext.		<0.10	<0.10	RPD-NA	ug/g	N/A	30	18-AUG-21
WG3599027-2	IRM	WT SAR4						
Boron (B), Hot Water Ext.			102.4		%		70-130	18-AUG-21
WG3599027-3	LCS							
Boron (B), Hot Water Ext.			100.0		%		70-130	18-AUG-21
WG3599027-1	MB							
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	18-AUG-21
CN-WAD-R511-WT		Soil						
Batch	R5549545							
WG3595407-3	DUP	L2625217-1						
Cyanide, Weak Acid Diss		<0.050	<0.050	RPD-NA	ug/g	N/A	35	13-AUG-21
WG3595407-2	LCS							
Cyanide, Weak Acid Diss			93.4		%		80-120	13-AUG-21
WG3595407-1	MB							
Cyanide, Weak Acid Diss			<0.050		ug/g		0.05	13-AUG-21
WG3595407-4	MS	L2625217-1						
Cyanide, Weak Acid Diss			99.1		%		70-130	13-AUG-21
CR-CR6-IC-WT		Soil						
Batch	R5551956							
WG3595762-4	CRM	WT-SQC012						
Chromium, Hexavalent			110.6		%		70-130	16-AUG-21
WG3595762-3	DUP	L2625527-6						
Chromium, Hexavalent		<0.20	<0.20	RPD-NA	ug/g	N/A	35	16-AUG-21
WG3595762-2	LCS							
Chromium, Hexavalent			88.1		%		80-120	16-AUG-21
WG3595762-1	MB							
Chromium, Hexavalent			<0.20		ug/g		0.2	16-AUG-21
EC-WT		Soil						
Batch	R5556431							
WG3598983-4	DUP	WG3598983-3						
Conductivity		0.357	0.327		mS/cm	8.8	20	18-AUG-21
WG3598983-2	IRM	WT SAR4						
Conductivity			106.6		%		70-130	18-AUG-21
WG3599413-1	LCS							
Conductivity			98.9		%		90-110	18-AUG-21
WG3598983-1	MB							



**Environmental**

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P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>EC-WT</b>								
<b>Soil</b>								
<b>Batch</b>	<b>R5556431</b>							
<b>WG3598983-1</b>	<b>MB</b>							
Conductivity			<0.0040		mS/cm		0.004	18-AUG-21
<b>F1-HS-511-WT</b>								
<b>Soil</b>								
<b>Batch</b>	<b>R5549698</b>							
<b>WG3595982-4</b>	<b>DUP</b>	<b>WG3595982-3</b>						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	13-AUG-21
<b>WG3595982-2</b>	<b>LCS</b>							
F1 (C6-C10)			103.7		%		80-120	13-AUG-21
<b>WG3595982-1</b>	<b>MB</b>							
F1 (C6-C10)			<5.0		ug/g		5	13-AUG-21
Surrogate: 3,4-Dichlorotoluene			99.4		%		60-140	13-AUG-21
<b>WG3595982-5</b>	<b>MS</b>	<b>WG3595982-3</b>						
F1 (C6-C10)			116.2		%		60-140	13-AUG-21
<b>F2-F4-511-WT</b>								
<b>Soil</b>								
<b>Batch</b>	<b>R5552240</b>							
<b>WG3595880-3</b>	<b>DUP</b>	<b>WG3595880-5</b>						
F2 (C10-C16)		10	<10	RPD-NA	ug/g	N/A	30	16-AUG-21
F3 (C16-C34)		146	168		ug/g	14	30	16-AUG-21
F4 (C34-C50)		208	205		ug/g	1.7	30	16-AUG-21
<b>WG3595880-2</b>	<b>LCS</b>							
F2 (C10-C16)			89.1		%		80-120	16-AUG-21
F3 (C16-C34)			82.9		%		80-120	16-AUG-21
F4 (C34-C50)			85.9		%		80-120	16-AUG-21
<b>WG3595880-1</b>	<b>MB</b>							
F2 (C10-C16)			<10		ug/g		10	16-AUG-21
F3 (C16-C34)			<50		ug/g		50	16-AUG-21
F4 (C34-C50)			<50		ug/g		50	16-AUG-21
Surrogate: 2-Bromobenzotrifluoride			89.9		%		60-140	16-AUG-21
<b>WG3595880-4</b>	<b>MS</b>	<b>WG3595880-5</b>						
F2 (C10-C16)			88.3		%		60-140	16-AUG-21
F3 (C16-C34)			85.0		%		60-140	16-AUG-21
F4 (C34-C50)			91.5		%		60-140	16-AUG-21
<b>Batch</b>	<b>R5554661</b>							
<b>WG3595471-3</b>	<b>DUP</b>	<b>WG3595471-5</b>						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	17-AUG-21





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Client: Trafalgar Environmental Consultants (Newmarket)  
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Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-200.2-CCMS-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5556067</b>							
<b>WG3598835-2</b>	<b>CRM</b>	<b>WT-SS-2</b>						
Antimony (Sb)			110.2		%		70-130	18-AUG-21
Arsenic (As)			124.4		%		70-130	18-AUG-21
Barium (Ba)			119.5		%		70-130	18-AUG-21
Beryllium (Be)			114.6		%		70-130	18-AUG-21
Boron (B)			9.8		mg/kg		3.5-13.5	18-AUG-21
Cadmium (Cd)			117.0		%		70-130	18-AUG-21
Chromium (Cr)			116.4		%		70-130	18-AUG-21
Cobalt (Co)			118.0		%		70-130	18-AUG-21
Copper (Cu)			120.0		%		70-130	18-AUG-21
Lead (Pb)			114.7		%		70-130	18-AUG-21
Molybdenum (Mo)			117.7		%		70-130	18-AUG-21
Nickel (Ni)			119.9		%		70-130	18-AUG-21
Selenium (Se)			0.13		mg/kg		0-0.34	18-AUG-21
Silver (Ag)			117.9		%		70-130	18-AUG-21
Thallium (Tl)			0.090		mg/kg		0.029-0.129	18-AUG-21
Uranium (U)			114.7		%		70-130	18-AUG-21
Vanadium (V)			119.1		%		70-130	18-AUG-21
Zinc (Zn)			112.5		%		70-130	18-AUG-21
<b>WG3598835-6</b>	<b>DUP</b>	<b>WG3598835-5</b>						
Antimony (Sb)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	18-AUG-21
Arsenic (As)		1.41	1.47		ug/g	4.3	30	18-AUG-21
Barium (Ba)		37.5	39.0		ug/g	3.9	40	18-AUG-21
Beryllium (Be)		0.21	0.21		ug/g	2.0	30	18-AUG-21
Boron (B)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	18-AUG-21
Cadmium (Cd)		0.038	0.033		ug/g	13	30	18-AUG-21
Chromium (Cr)		14.4	14.8		ug/g	3.2	30	18-AUG-21
Cobalt (Co)		2.80	2.81		ug/g	0.1	30	18-AUG-21
Copper (Cu)		6.52	6.71		ug/g	2.8	30	18-AUG-21
Lead (Pb)		2.21	2.32		ug/g	4.7	40	18-AUG-21
Molybdenum (Mo)		1.75	1.82		ug/g	3.7	40	18-AUG-21
Nickel (Ni)		7.05	6.96		ug/g	1.3	30	18-AUG-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	18-AUG-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	18-AUG-21



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Client: Trafalgar Environmental Consultants (Newmarket)  
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Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-200.2-CCMS-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5556067</b>							
<b>WG3598835-6</b>	<b>DUP</b>	<b>WG3598835-5</b>						
Thallium (Tl)		<0.050	<0.050	RPD-NA	ug/g	N/A	30	18-AUG-21
Uranium (U)		0.472	0.598		ug/g	24	30	18-AUG-21
Vanadium (V)		17.9	18.1		ug/g	1.3	30	18-AUG-21
Zinc (Zn)		23.3	23.0		ug/g	1.2	30	18-AUG-21
<b>WG3598835-4</b>	<b>LCS</b>							
Antimony (Sb)			100.3		%		80-120	18-AUG-21
Arsenic (As)			104.5		%		80-120	18-AUG-21
Barium (Ba)			102.9		%		80-120	18-AUG-21
Beryllium (Be)			94.6		%		80-120	18-AUG-21
Boron (B)			91.8		%		80-120	18-AUG-21
Cadmium (Cd)			103.5		%		80-120	18-AUG-21
Chromium (Cr)			105.7		%		80-120	18-AUG-21
Cobalt (Co)			104.5		%		80-120	18-AUG-21
Copper (Cu)			103.5		%		80-120	18-AUG-21
Lead (Pb)			97.9		%		80-120	18-AUG-21
Molybdenum (Mo)			99.2		%		80-120	18-AUG-21
Nickel (Ni)			104.4		%		80-120	18-AUG-21
Selenium (Se)			100.8		%		80-120	18-AUG-21
Silver (Ag)			95.9		%		80-120	18-AUG-21
Thallium (Tl)			98.2		%		80-120	18-AUG-21
Uranium (U)			100.4		%		80-120	18-AUG-21
Vanadium (V)			106.5		%		80-120	18-AUG-21
Zinc (Zn)			98.4		%		80-120	18-AUG-21
<b>WG3598835-1</b>	<b>MB</b>							
Antimony (Sb)			<0.10		mg/kg		0.1	18-AUG-21
Arsenic (As)			<0.10		mg/kg		0.1	18-AUG-21
Barium (Ba)			<0.50		mg/kg		0.5	18-AUG-21
Beryllium (Be)			<0.10		mg/kg		0.1	18-AUG-21
Boron (B)			<5.0		mg/kg		5	18-AUG-21
Cadmium (Cd)			<0.020		mg/kg		0.02	18-AUG-21
Chromium (Cr)			<0.50		mg/kg		0.5	18-AUG-21
Cobalt (Co)			<0.10		mg/kg		0.1	18-AUG-21
Copper (Cu)			<0.50		mg/kg		0.5	18-AUG-21
Lead (Pb)			<0.50		mg/kg		0.5	18-AUG-21



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Client: Trafalgar Environmental Consultants (Newmarket)  
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Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-200.2-CCMS-WT</b>								
<b>Soil</b>								
<b>Batch R5556067</b>								
<b>WG3598835-1 MB</b>								
Molybdenum (Mo)			<0.10		mg/kg		0.1	18-AUG-21
Nickel (Ni)			<0.50		mg/kg		0.5	18-AUG-21
Selenium (Se)			<0.20		mg/kg		0.2	18-AUG-21
Silver (Ag)			<0.10		mg/kg		0.1	18-AUG-21
Thallium (Tl)			<0.050		mg/kg		0.05	18-AUG-21
Uranium (U)			<0.050		mg/kg		0.05	18-AUG-21
Vanadium (V)			<0.20		mg/kg		0.2	18-AUG-21
Zinc (Zn)			<2.0		mg/kg		2	18-AUG-21
<b>MOISTURE-WT</b>								
<b>Soil</b>								
<b>Batch R5549221</b>								
<b>WG3595604-3 DUP</b>		<b>L2625478-1</b>						
% Moisture		7.92	7.13		%	11	20	13-AUG-21
<b>WG3595604-2 LCS</b>								
% Moisture			99.3		%		90-110	13-AUG-21
<b>WG3595604-1 MB</b>								
% Moisture			<0.25		%		0.25	13-AUG-21
<b>Batch R5549302</b>								
<b>WG3595886-3 DUP</b>		<b>L2625638-10</b>						
% Moisture		15.4	15.3		%	1.0	20	13-AUG-21
<b>WG3595886-2 LCS</b>								
% Moisture			98.7		%		90-110	13-AUG-21
<b>WG3595886-1 MB</b>								
% Moisture			<0.25		%		0.25	13-AUG-21
<b>PAH-511-WT</b>								
<b>Soil</b>								
<b>Batch R5549890</b>								
<b>WG3595757-3 DUP</b>		<b>WG3595757-5</b>						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	13-AUG-21
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	13-AUG-21
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Benzo(g,h,i)perylene		<0.050	<0.050		ug/g			





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Client: Trafalgar Environmental Consultants (Newmarket)  
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Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>PAH-511-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5549890</b>							
<b>WG3595757-3</b>	<b>DUP</b>	<b>WG3595757-5</b>						
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	13-AUG-21
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	13-AUG-21
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
<b>WG3595757-2</b>	<b>LCS</b>							
1-Methylnaphthalene			89.0		%		50-140	13-AUG-21
2-Methylnaphthalene			86.3		%		50-140	13-AUG-21
Acenaphthene			86.4		%		50-140	13-AUG-21
Acenaphthylene			83.7		%		50-140	13-AUG-21
Anthracene			73.7		%		50-140	13-AUG-21
Benzo(a)anthracene			86.8		%		50-140	13-AUG-21
Benzo(a)pyrene			72.5		%		50-140	13-AUG-21
Benzo(b&j)fluoranthene			82.3		%		50-140	13-AUG-21
Benzo(g,h,i)perylene			77.1		%		50-140	13-AUG-21
Benzo(k)fluoranthene			78.4		%		50-140	13-AUG-21
Chrysene			87.5		%		50-140	13-AUG-21
Dibenz(a,h)anthracene			80.0		%		50-140	13-AUG-21
Fluoranthene			83.9		%		50-140	13-AUG-21
Fluorene			85.6		%		50-140	13-AUG-21
Indeno(1,2,3-cd)pyrene			78.1		%		50-140	13-AUG-21
Naphthalene			83.8		%		50-140	13-AUG-21
Phenanthrene			84.3		%		50-140	13-AUG-21
Pyrene			82.0		%		50-140	13-AUG-21
<b>WG3595757-1</b>	<b>MB</b>							
1-Methylnaphthalene			<0.030		ug/g		0.03	13-AUG-21
2-Methylnaphthalene			<0.030		ug/g		0.03	13-AUG-21
Acenaphthene			<0.050		ug/g		0.05	13-AUG-21
Acenaphthylene			<0.050		ug/g		0.05	13-AUG-21



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Client: Trafalgar Environmental Consultants (Newmarket)  
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Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>PAH-511-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5549890</b>							
<b>WG3595757-1 MB</b>								
Anthracene			<0.050		ug/g		0.05	13-AUG-21
Benzo(a)anthracene			<0.050		ug/g		0.05	13-AUG-21
Benzo(a)pyrene			<0.050		ug/g		0.05	13-AUG-21
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	13-AUG-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	13-AUG-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	13-AUG-21
Chrysene			<0.050		ug/g		0.05	13-AUG-21
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	13-AUG-21
Fluoranthene			<0.050		ug/g		0.05	13-AUG-21
Fluorene			<0.050		ug/g		0.05	13-AUG-21
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	13-AUG-21
Naphthalene			<0.013		ug/g		0.013	13-AUG-21
Phenanthrene			<0.046		ug/g		0.046	13-AUG-21
Pyrene			<0.050		ug/g		0.05	13-AUG-21
Surrogate: 2-Fluorobiphenyl			82.6		%		50-140	13-AUG-21
Surrogate: d14-Terphenyl			84.1		%		50-140	13-AUG-21
<b>WG3595757-4 MS</b>		<b>WG3595757-5</b>						
1-Methylnaphthalene			93.9		%		50-140	13-AUG-21
2-Methylnaphthalene			91.0		%		50-140	13-AUG-21
Acenaphthene			90.9		%		50-140	13-AUG-21
Acenaphthylene			87.5		%		50-140	13-AUG-21
Anthracene			78.0		%		50-140	13-AUG-21
Benzo(a)anthracene			92.7		%		50-140	13-AUG-21
Benzo(a)pyrene			77.8		%		50-140	13-AUG-21
Benzo(b&j)fluoranthene			88.0		%		50-140	13-AUG-21
Benzo(g,h,i)perylene			84.2		%		50-140	13-AUG-21
Benzo(k)fluoranthene			85.6		%		50-140	13-AUG-21
Chrysene			93.9		%		50-140	13-AUG-21
Dibenz(a,h)anthracene			86.7		%		50-140	13-AUG-21
Fluoranthene			89.4		%		50-140	13-AUG-21
Fluorene			89.2		%		50-140	13-AUG-21
Indeno(1,2,3-cd)pyrene			83.9		%		50-140	13-AUG-21
Naphthalene			88.6		%		50-140	13-AUG-21
Phenanthrene			90.0		%		50-140	13-AUG-21



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Client: Trafalgar Environmental Consultants (Newmarket)  
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Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>PAH-511-WT</b>								
<b>Soil</b>								
<b>Batch</b>	<b>R5549890</b>							
<b>WG3595757-4 MS</b>		<b>WG3595757-5</b>						
Pyrene			87.2		%		50-140	13-AUG-21
<b>Batch</b>	<b>R5555697</b>							
<b>WG3596432-3 DUP</b>		<b>WG3596432-5</b>						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	18-AUG-21
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	18-AUG-21
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-AUG-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-AUG-21
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-AUG-21
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-AUG-21
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-AUG-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-AUG-21
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-AUG-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-AUG-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-AUG-21
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-AUG-21
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-AUG-21
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-AUG-21
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-AUG-21
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	18-AUG-21
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	18-AUG-21
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	18-AUG-21
<b>WG3596432-2 LCS</b>								
1-Methylnaphthalene			92.9		%		50-140	18-AUG-21
2-Methylnaphthalene			89.1		%		50-140	18-AUG-21
Acenaphthene			89.0		%		50-140	18-AUG-21
Acenaphthylene			84.9		%		50-140	18-AUG-21
Anthracene			77.9		%		50-140	18-AUG-21
Benzo(a)anthracene			88.2		%		50-140	18-AUG-21
Benzo(a)pyrene			76.2		%		50-140	18-AUG-21
Benzo(b&j)fluoranthene			82.8		%		50-140	18-AUG-21
Benzo(g,h,i)perylene			78.4		%		50-140	18-AUG-21
Benzo(k)fluoranthene			85.1		%		50-140	18-AUG-21
Chrysene			94.3		%		50-140	18-AUG-21

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Client: Trafalgar Environmental Consultants (Newmarket)  
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Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>PAH-511-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5555697</b>							
<b>WG3596432-2</b>	<b>LCS</b>							
Dibenz(a,h)anthracene			79.8		%		50-140	18-AUG-21
Fluoranthene			83.0		%		50-140	18-AUG-21
Fluorene			86.4		%		50-140	18-AUG-21
Indeno(1,2,3-cd)pyrene			80.0		%		50-140	18-AUG-21
Naphthalene			87.7		%		50-140	18-AUG-21
Phenanthrene			89.1		%		50-140	18-AUG-21
Pyrene			83.7		%		50-140	18-AUG-21
<b>WG3596432-1</b>	<b>MB</b>							
1-Methylnaphthalene			<0.030		ug/g		0.03	18-AUG-21
2-Methylnaphthalene			<0.030		ug/g		0.03	18-AUG-21
Acenaphthene			<0.050		ug/g		0.05	18-AUG-21
Acenaphthylene			<0.050		ug/g		0.05	18-AUG-21
Anthracene			<0.050		ug/g		0.05	18-AUG-21
Benzo(a)anthracene			<0.050		ug/g		0.05	18-AUG-21
Benzo(a)pyrene			<0.050		ug/g		0.05	18-AUG-21
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	18-AUG-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	18-AUG-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	18-AUG-21
Chrysene			<0.050		ug/g		0.05	18-AUG-21
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	18-AUG-21
Fluoranthene			<0.050		ug/g		0.05	18-AUG-21
Fluorene			<0.050		ug/g		0.05	18-AUG-21
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	18-AUG-21
Naphthalene			<0.013		ug/g		0.013	18-AUG-21
Phenanthrene			<0.046		ug/g		0.046	18-AUG-21
Pyrene			<0.050		ug/g		0.05	18-AUG-21
Surrogate: 2-Fluorobiphenyl			86.3		%		50-140	18-AUG-21
Surrogate: d14-Terphenyl			83.7		%		50-140	18-AUG-21
<b>WG3596432-4</b>	<b>MS</b>	<b>WG3596432-5</b>						
1-Methylnaphthalene			93.0		%		50-140	18-AUG-21
2-Methylnaphthalene			88.1		%		50-140	18-AUG-21
Acenaphthene			88.6		%		50-140	18-AUG-21
Acenaphthylene			85.3		%		50-140	18-AUG-21
Anthracene			77.6		%		50-140	18-AUG-21



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Client: Trafalgar Environmental Consultants (Newmarket)  
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Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>PAH-511-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5555697</b>							
<b>WG3596432-4 MS</b>		<b>WG3596432-5</b>						
Benzo(a)anthracene			89.3		%		50-140	18-AUG-21
Benzo(a)pyrene			75.4		%		50-140	18-AUG-21
Benzo(b&j)fluoranthene			81.8		%		50-140	18-AUG-21
Benzo(g,h,i)perylene			77.7		%		50-140	18-AUG-21
Benzo(k)fluoranthene			85.5		%		50-140	18-AUG-21
Chrysene			95.0		%		50-140	18-AUG-21
Dibenz(a,h)anthracene			79.0		%		50-140	18-AUG-21
Fluoranthene			82.9		%		50-140	18-AUG-21
Fluorene			86.0		%		50-140	18-AUG-21
Indeno(1,2,3-cd)pyrene			78.4		%		50-140	18-AUG-21
Naphthalene			86.6		%		50-140	18-AUG-21
Phenanthrene			88.5		%		50-140	18-AUG-21
Pyrene			82.8		%		50-140	18-AUG-21
<b>Batch</b>	<b>R5560278</b>							
<b>WG3599738-3 DUP</b>		<b>WG3599738-5</b>						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	19-AUG-21
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	19-AUG-21
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-AUG-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-AUG-21
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-AUG-21
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-AUG-21
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-AUG-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-AUG-21
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-AUG-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-AUG-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-AUG-21
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-AUG-21
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-AUG-21
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-AUG-21
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-AUG-21
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	19-AUG-21
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	19-AUG-21
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-AUG-21

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Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT		Soil						
Batch	R5560278							
WG3599738-2		LCS						
1-Methylnaphthalene			94.0		%		50-140	19-AUG-21
2-Methylnaphthalene			90.3		%		50-140	19-AUG-21
Acenaphthene			89.6		%		50-140	19-AUG-21
Acenaphthylene			84.3		%		50-140	19-AUG-21
Anthracene			76.2		%		50-140	19-AUG-21
Benzo(a)anthracene			86.8		%		50-140	19-AUG-21
Benzo(a)pyrene			74.1		%		50-140	19-AUG-21
Benzo(b&j)fluoranthene			83.4		%		50-140	19-AUG-21
Benzo(g,h,i)perylene			89.8		%		50-140	19-AUG-21
Benzo(k)fluoranthene			85.1		%		50-140	19-AUG-21
Chrysene			95.0		%		50-140	19-AUG-21
Dibenz(a,h)anthracene			90.5		%		50-140	19-AUG-21
Fluoranthene			86.6		%		50-140	19-AUG-21
Fluorene			87.4		%		50-140	19-AUG-21
Indeno(1,2,3-cd)pyrene			85.5		%		50-140	19-AUG-21
Naphthalene			88.4		%		50-140	19-AUG-21
Phenanthrene			89.8		%		50-140	19-AUG-21
Pyrene			86.4		%		50-140	19-AUG-21
WG3599738-1		MB						
1-Methylnaphthalene			<0.030		ug/g		0.03	19-AUG-21
2-Methylnaphthalene			<0.030		ug/g		0.03	19-AUG-21
Acenaphthene			<0.050		ug/g		0.05	19-AUG-21
Acenaphthylene			<0.050		ug/g		0.05	19-AUG-21
Anthracene			<0.050		ug/g		0.05	19-AUG-21
Benzo(a)anthracene			<0.050		ug/g		0.05	19-AUG-21
Benzo(a)pyrene			<0.050		ug/g		0.05	19-AUG-21
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	19-AUG-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	19-AUG-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	19-AUG-21
Chrysene			<0.050		ug/g		0.05	19-AUG-21
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	19-AUG-21
Fluoranthene			<0.050		ug/g		0.05	19-AUG-21
Fluorene			<0.050		ug/g		0.05	19-AUG-21
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	19-AUG-21



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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>PAH-511-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5560278</b>							
<b>WG3599738-1 MB</b>								
Naphthalene			<0.013		ug/g		0.013	19-AUG-21
Phenanthrene			<0.046		ug/g		0.046	19-AUG-21
Pyrene			<0.050		ug/g		0.05	19-AUG-21
Surrogate: 2-Fluorobiphenyl			85.1		%		50-140	19-AUG-21
Surrogate: d14-Terphenyl			82.1		%		50-140	19-AUG-21
<b>WG3599738-4 MS</b>		<b>WG3599738-5</b>						
1-Methylnaphthalene			83.6		%		50-140	19-AUG-21
2-Methylnaphthalene			80.8		%		50-140	19-AUG-21
Acenaphthene			80.0		%		50-140	19-AUG-21
Acenaphthylene			76.0		%		50-140	19-AUG-21
Anthracene			69.1		%		50-140	19-AUG-21
Benzo(a)anthracene			81.4		%		50-140	19-AUG-21
Benzo(a)pyrene			68.9		%		50-140	19-AUG-21
Benzo(b&j)fluoranthene			75.4		%		50-140	19-AUG-21
Benzo(g,h,i)perylene			79.4		%		50-140	19-AUG-21
Benzo(k)fluoranthene			75.7		%		50-140	19-AUG-21
Chrysene			84.5		%		50-140	19-AUG-21
Dibenz(a,h)anthracene			80.4		%		50-140	19-AUG-21
Fluoranthene			79.1		%		50-140	19-AUG-21
Fluorene			78.8		%		50-140	19-AUG-21
Indeno(1,2,3-cd)pyrene			79.1		%		50-140	19-AUG-21
Naphthalene			78.3		%		50-140	19-AUG-21
Phenanthrene			80.3		%		50-140	19-AUG-21
Pyrene			78.3		%		50-140	19-AUG-21
<b>PCB-511-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5551976</b>							
<b>WG3595757-3 DUP</b>		<b>WG3595757-5</b>						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	16-AUG-21
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	16-AUG-21
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	16-AUG-21
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	16-AUG-21
<b>WG3595757-2 LCS</b>								
Aroclor 1242			82.2		%		60-140	16-AUG-21
Aroclor 1248			83.9		%		60-140	16-AUG-21



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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
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Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>PCB-511-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5551976</b>							
<b>WG3595757-2</b>	<b>LCS</b>							
Aroclor 1254			88.7		%		60-140	16-AUG-21
Aroclor 1260			113.2		%		60-140	16-AUG-21
<b>WG3595757-1</b>	<b>MB</b>							
Aroclor 1242			<0.010		ug/g		0.01	16-AUG-21
Aroclor 1248			<0.010		ug/g		0.01	16-AUG-21
Aroclor 1254			<0.010		ug/g		0.01	16-AUG-21
Aroclor 1260			<0.010		ug/g		0.01	16-AUG-21
Surrogate: d14-Terphenyl			94.4		%		60-140	16-AUG-21
<b>WG3595757-4</b>	<b>MS</b>	<b>WG3595757-5</b>						
Aroclor 1242			83.1		%		60-140	16-AUG-21
Aroclor 1254			90.2		%		60-140	16-AUG-21
Aroclor 1260			109.7		%		60-140	16-AUG-21
<b>Batch</b>	<b>R5556176</b>							
<b>WG3596432-3</b>	<b>DUP</b>	<b>WG3596432-5</b>						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	18-AUG-21
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	18-AUG-21
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	18-AUG-21
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	18-AUG-21
<b>WG3596432-2</b>	<b>LCS</b>							
Aroclor 1242			78.3		%		60-140	18-AUG-21
Aroclor 1248			85.3		%		60-140	18-AUG-21
Aroclor 1254			84.5		%		60-140	18-AUG-21
Aroclor 1260			98.8		%		60-140	18-AUG-21
<b>WG3596432-1</b>	<b>MB</b>							
Aroclor 1242			<0.010		ug/g		0.01	18-AUG-21
Aroclor 1248			<0.010		ug/g		0.01	18-AUG-21
Aroclor 1254			<0.010		ug/g		0.01	18-AUG-21
Aroclor 1260			<0.010		ug/g		0.01	18-AUG-21
Surrogate: d14-Terphenyl			97.8		%		60-140	18-AUG-21
<b>WG3596432-4</b>	<b>MS</b>	<b>WG3596432-5</b>						
Aroclor 1242			78.6		%		60-140	18-AUG-21
Aroclor 1254			82.6		%		60-140	18-AUG-21
Aroclor 1260			98.0		%		60-140	18-AUG-21

**PH-WT** **Soil**





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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>PH-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5551537</b>							
<b>WG3596457-1</b>	<b>DUP</b>	<b>L2618013-7</b>						
pH		7.21	7.30	J	pH units	0.09	0.3	16-AUG-21
<b>WG3597712-1</b>	<b>LCS</b>							
pH			7.05		pH units		6.9-7.1	16-AUG-21
<b>Batch</b>	<b>R5552133</b>							
<b>WG3595704-1</b>	<b>DUP</b>	<b>L2625478-1</b>						
pH		7.80	7.79	J	pH units	0.01	0.3	16-AUG-21
<b>WG3597668-1</b>	<b>LCS</b>							
pH			6.98		pH units		6.9-7.1	16-AUG-21
<b>SAR-R511-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5557037</b>							
<b>WG3598983-4</b>	<b>DUP</b>	<b>WG3598983-3</b>						
Calcium (Ca)		31.9	29.7		mg/L	7.1	30	18-AUG-21
Sodium (Na)		40.7	41.2		mg/L	1.2	30	18-AUG-21
Magnesium (Mg)		2.85	2.64		mg/L	7.7	30	18-AUG-21
<b>WG3598983-2</b>	<b>IRM</b>	<b>WT SAR4</b>						
Calcium (Ca)			115.9		%		70-130	18-AUG-21
Sodium (Na)			95.4		%		70-130	18-AUG-21
Magnesium (Mg)			113.7		%		70-130	18-AUG-21
<b>WG3598983-5</b>	<b>LCS</b>							
Calcium (Ca)			105.3		%		80-120	18-AUG-21
Sodium (Na)			104.6		%		80-120	18-AUG-21
Magnesium (Mg)			103.8		%		80-120	18-AUG-21
<b>WG3598983-1</b>	<b>MB</b>							
Calcium (Ca)			<0.50		mg/L		0.5	18-AUG-21
Sodium (Na)			<0.50		mg/L		0.5	18-AUG-21
Magnesium (Mg)			<0.50		mg/L		0.5	18-AUG-21
<b>VOC-511-HS-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5549698</b>							
<b>WG3595982-4</b>	<b>DUP</b>	<b>WG3595982-3</b>						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21



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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
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Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>VOC-511-HS-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5549698</b>							
<b>WG3595982-4</b>	<b>DUP</b>	<b>WG3595982-3</b>						
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	13-AUG-21
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	13-AUG-21
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	13-AUG-21
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	13-AUG-21
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	13-AUG-21
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	13-AUG-21
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	13-AUG-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	13-AUG-21
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	13-AUG-21
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	13-AUG-21
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	13-AUG-21
Trichlorofluoromethane		<0.050	<0.050		ug/g			13-AUG-21



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P.O. Box 93316  
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Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>VOC-511-HS-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5549698</b>							
<b>WG3595982-4</b>	<b>DUP</b>	<b>WG3595982-3</b>						
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-AUG-21
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	13-AUG-21
<b>WG3595982-2</b>	<b>LCS</b>							
1,1,1,2-Tetrachloroethane			99.0		%		60-130	13-AUG-21
1,1,2,2-Tetrachloroethane			108.1		%		60-130	13-AUG-21
1,1,1-Trichloroethane			99.1		%		60-130	13-AUG-21
1,1,2-Trichloroethane			103.4		%		60-130	13-AUG-21
1,1-Dichloroethane			92.8		%		60-130	13-AUG-21
1,1-Dichloroethylene			86.2		%		60-130	13-AUG-21
1,2-Dibromoethane			100.7		%		70-130	13-AUG-21
1,2-Dichlorobenzene			98.2		%		70-130	13-AUG-21
1,2-Dichloroethane			96.7		%		60-130	13-AUG-21
1,2-Dichloropropane			100.5		%		70-130	13-AUG-21
1,3-Dichlorobenzene			96.6		%		70-130	13-AUG-21
1,4-Dichlorobenzene			95.7		%		70-130	13-AUG-21
Acetone			102.6		%		60-140	13-AUG-21
Benzene			99.8		%		70-130	13-AUG-21
Bromodichloromethane			110.1		%		50-140	13-AUG-21
Bromoform			99.3		%		70-130	13-AUG-21
Bromomethane			97.9		%		50-140	13-AUG-21
Carbon tetrachloride			96.6		%		70-130	13-AUG-21
Chlorobenzene			102.6		%		70-130	13-AUG-21
Chloroform			101.5		%		70-130	13-AUG-21
cis-1,2-Dichloroethylene			98.7		%		70-130	13-AUG-21
cis-1,3-Dichloropropene			78.7		%		70-130	13-AUG-21
Dibromochloromethane			104.2		%		60-130	13-AUG-21
Dichlorodifluoromethane			55.2		%		50-140	13-AUG-21
Ethylbenzene			101.3		%		70-130	13-AUG-21
n-Hexane			77.5		%		70-130	13-AUG-21
Methylene Chloride			96.3		%		70-130	13-AUG-21
MTBE			94.4		%		70-130	13-AUG-21
m+p-Xylenes			96.5		%		70-130	13-AUG-21
Methyl Ethyl Ketone			102.1		%		60-140	13-AUG-21
Methyl Isobutyl Ketone			96.6		%		60-140	13-AUG-21



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Client: Trafalgar Environmental Consultants (Newmarket)  
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Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>VOC-511-HS-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5549698</b>							
<b>WG3595982-2</b>	<b>LCS</b>							
o-Xylene			99.2		%		70-130	13-AUG-21
Styrene			97.3		%		70-130	13-AUG-21
Tetrachloroethylene			100.8		%		60-130	13-AUG-21
Toluene			97.5		%		70-130	13-AUG-21
trans-1,2-Dichloroethylene			90.1		%		60-130	13-AUG-21
trans-1,3-Dichloropropene			71.7		%		70-130	13-AUG-21
Trichloroethylene			101.5		%		60-130	13-AUG-21
Trichlorofluoromethane			80.3		%		50-140	13-AUG-21
Vinyl chloride			79.0		%		60-140	13-AUG-21
<b>WG3595982-1</b>	<b>MB</b>							
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	13-AUG-21
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	13-AUG-21
1,1,1-Trichloroethane			<0.050		ug/g		0.05	13-AUG-21
1,1,2-Trichloroethane			<0.050		ug/g		0.05	13-AUG-21
1,1-Dichloroethane			<0.050		ug/g		0.05	13-AUG-21
1,1-Dichloroethylene			<0.050		ug/g		0.05	13-AUG-21
1,2-Dibromoethane			<0.050		ug/g		0.05	13-AUG-21
1,2-Dichlorobenzene			<0.050		ug/g		0.05	13-AUG-21
1,2-Dichloroethane			<0.050		ug/g		0.05	13-AUG-21
1,2-Dichloropropane			<0.050		ug/g		0.05	13-AUG-21
1,3-Dichlorobenzene			<0.050		ug/g		0.05	13-AUG-21
1,4-Dichlorobenzene			<0.050		ug/g		0.05	13-AUG-21
Acetone			<0.50		ug/g		0.5	13-AUG-21
Benzene			<0.0068		ug/g		0.0068	13-AUG-21
Bromodichloromethane			<0.050		ug/g		0.05	13-AUG-21
Bromoform			<0.050		ug/g		0.05	13-AUG-21
Bromomethane			<0.050		ug/g		0.05	13-AUG-21
Carbon tetrachloride			<0.050		ug/g		0.05	13-AUG-21
Chlorobenzene			<0.050		ug/g		0.05	13-AUG-21
Chloroform			<0.050		ug/g		0.05	13-AUG-21
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	13-AUG-21
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	13-AUG-21
Dibromochloromethane			<0.050		ug/g		0.05	13-AUG-21
Dichlorodifluoromethane			<0.050		ug/g		0.05	13-AUG-21



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Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>VOC-511-HS-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5549698</b>							
<b>WG3595982-1 MB</b>								
Ethylbenzene			<0.018		ug/g		0.018	13-AUG-21
n-Hexane			<0.050		ug/g		0.05	13-AUG-21
Methylene Chloride			<0.050		ug/g		0.05	13-AUG-21
MTBE			<0.050		ug/g		0.05	13-AUG-21
m+p-Xylenes			<0.030		ug/g		0.03	13-AUG-21
Methyl Ethyl Ketone			<0.50		ug/g		0.5	13-AUG-21
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	13-AUG-21
o-Xylene			<0.020		ug/g		0.02	13-AUG-21
Styrene			<0.050		ug/g		0.05	13-AUG-21
Tetrachloroethylene			<0.050		ug/g		0.05	13-AUG-21
Toluene			<0.080		ug/g		0.08	13-AUG-21
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	13-AUG-21
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	13-AUG-21
Trichloroethylene			<0.010		ug/g		0.01	13-AUG-21
Trichlorofluoromethane			<0.050		ug/g		0.05	13-AUG-21
Vinyl chloride			<0.020		ug/g		0.02	13-AUG-21
Surrogate: 1,4-Difluorobenzene			117.2		%		50-140	13-AUG-21
Surrogate: 4-Bromofluorobenzene			120.3		%		50-140	13-AUG-21
<b>WG3595982-5 MS</b>		<b>WG3595982-3</b>						
1,1,1,2-Tetrachloroethane			99.3		%		50-140	13-AUG-21
1,1,2,2-Tetrachloroethane			96.8		%		50-140	13-AUG-21
1,1,1-Trichloroethane			106.9		%		50-140	13-AUG-21
1,1,2-Trichloroethane			95.5		%		50-140	13-AUG-21
1,1-Dichloroethane			98.9		%		50-140	13-AUG-21
1,1-Dichloroethylene			103.4		%		50-140	13-AUG-21
1,2-Dibromoethane			93.4		%		50-140	13-AUG-21
1,2-Dichlorobenzene			98.2		%		50-140	13-AUG-21
1,2-Dichloroethane			94.5		%		50-140	13-AUG-21
1,2-Dichloropropane			98.6		%		50-140	13-AUG-21
1,3-Dichlorobenzene			98.2		%		50-140	13-AUG-21
1,4-Dichlorobenzene			97.0		%		50-140	13-AUG-21
Acetone			91.6		%		50-140	13-AUG-21
Benzene			101.7		%		50-140	13-AUG-21
Bromodichloromethane			107.7		%		50-140	13-AUG-21



**Environmental**

## Quality Control Report

Workorder: L2625638

Report Date: 20-AUG-21

Page 20 of 21

Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>VOC-511-HS-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5549698</b>							
<b>WG3595982-5 MS</b>		<b>WG3595982-3</b>						
Bromoform			92.4		%		50-140	13-AUG-21
Bromomethane			105.2		%		50-140	13-AUG-21
Carbon tetrachloride			106.0		%		50-140	13-AUG-21
Chlorobenzene			101.0		%		50-140	13-AUG-21
Chloroform			102.7		%		50-140	13-AUG-21
cis-1,2-Dichloroethylene			102.9		%		50-140	13-AUG-21
cis-1,3-Dichloropropene			96.2		%		50-140	13-AUG-21
Dibromochloromethane			99.8		%		50-140	13-AUG-21
Dichlorodifluoromethane			90.9		%		50-140	13-AUG-21
Ethylbenzene			107.4		%		50-140	13-AUG-21
n-Hexane			96.6		%		50-140	13-AUG-21
Methylene Chloride			95.5		%		50-140	13-AUG-21
MTBE			96.8		%		50-140	13-AUG-21
m+p-Xylenes			101.9		%		50-140	13-AUG-21
Methyl Ethyl Ketone			87.8		%		50-140	13-AUG-21
Methyl Isobutyl Ketone			83.8		%		50-140	13-AUG-21
o-Xylene			104.6		%		50-140	13-AUG-21
Styrene			100.6		%		50-140	13-AUG-21
Tetrachloroethylene			104.6		%		50-140	13-AUG-21
Toluene			101.8		%		50-140	13-AUG-21
trans-1,2-Dichloroethylene			101.3		%		50-140	13-AUG-21
trans-1,3-Dichloropropene			96.0		%		50-140	13-AUG-21
Trichloroethylene			103.4		%		50-140	13-AUG-21
Trichlorofluoromethane			105.9		%		50-140	13-AUG-21
Vinyl chloride			91.8		%		50-140	13-AUG-21

# Quality Control Report

Workorder: L2625638

Report Date: 20-AUG-21

Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Page 21 of 21

Contact: Robb Hudson

## 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.

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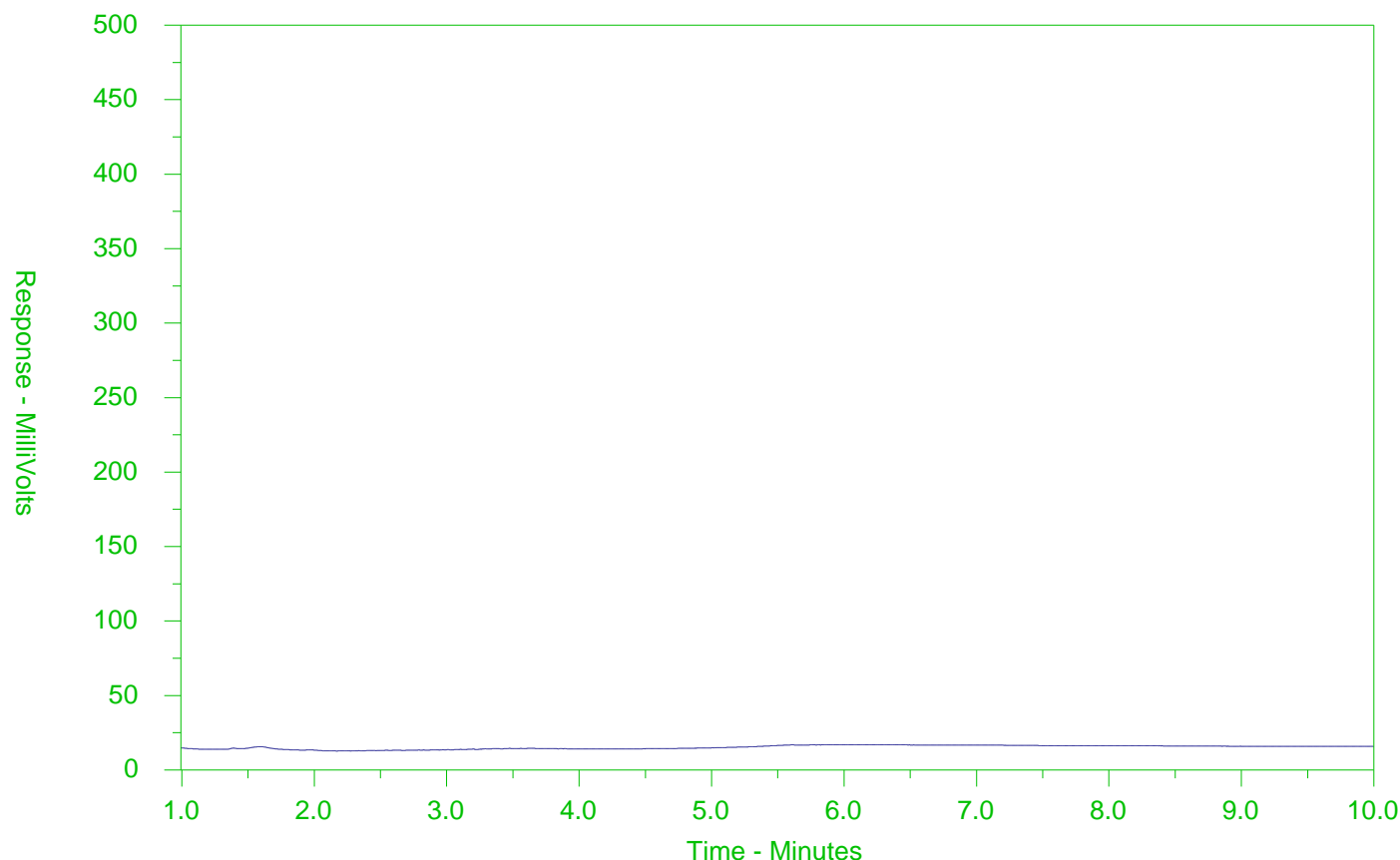
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide 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: L2625638-1  
Client Sample ID: 101 0-5



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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

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

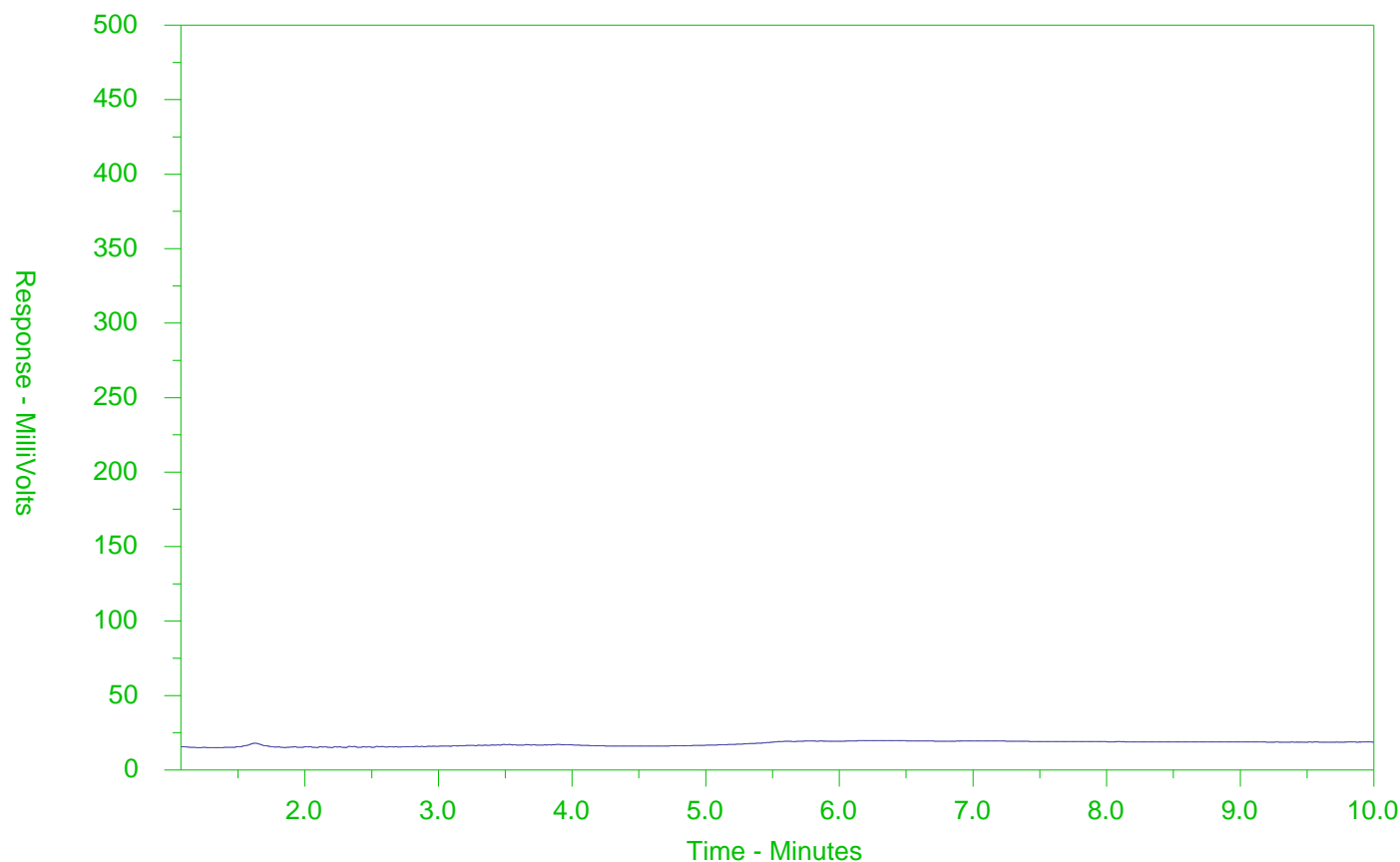
**Note:** This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at [www.alsglobal.com](http://www.alsglobal.com).



# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2625638-2  
Client Sample ID: 101 10-15



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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

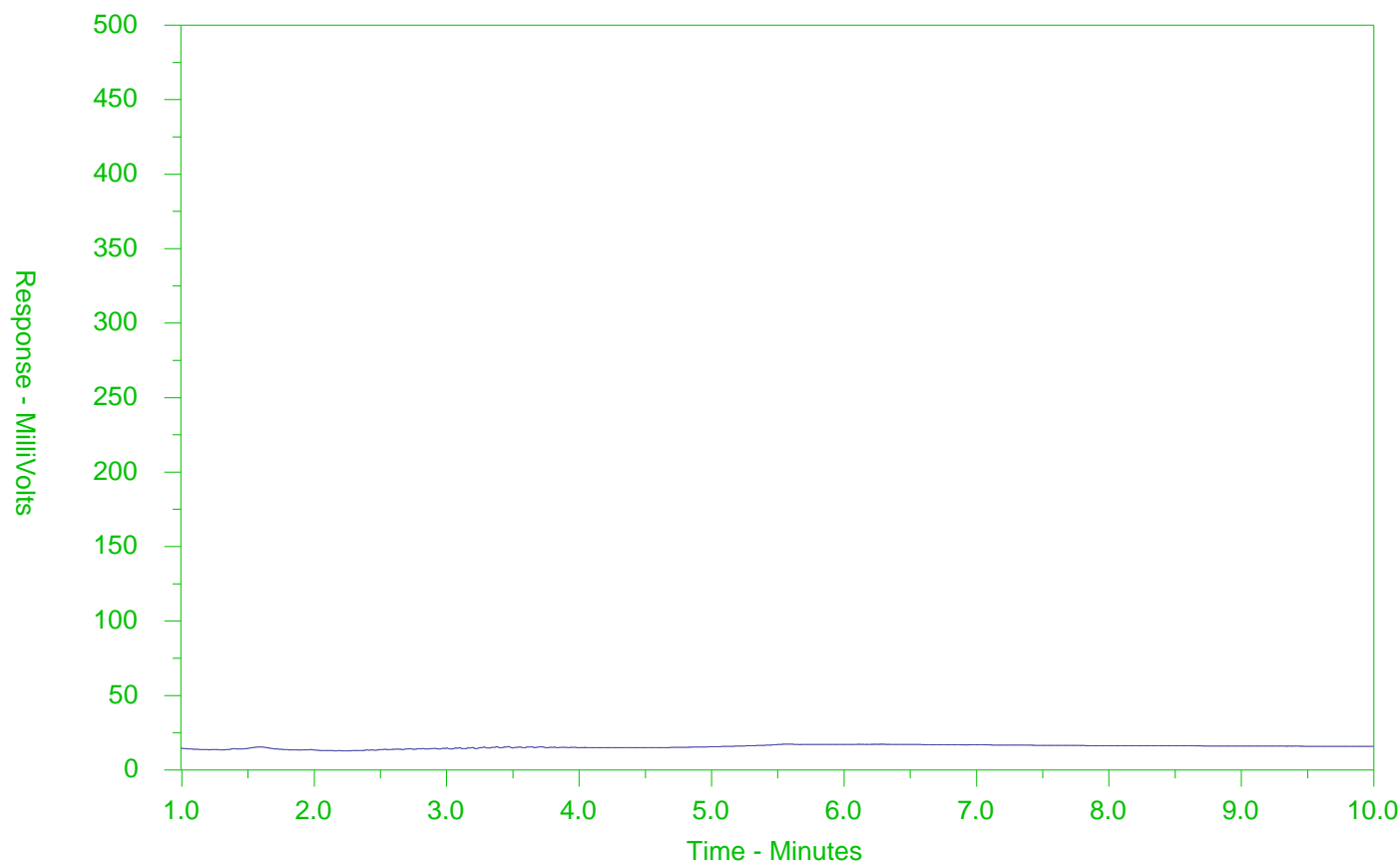
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

**Note:** This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at [www.alsglobal.com](http://www.alsglobal.com).

# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2625638-3  
Client Sample ID: 102 0-5



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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

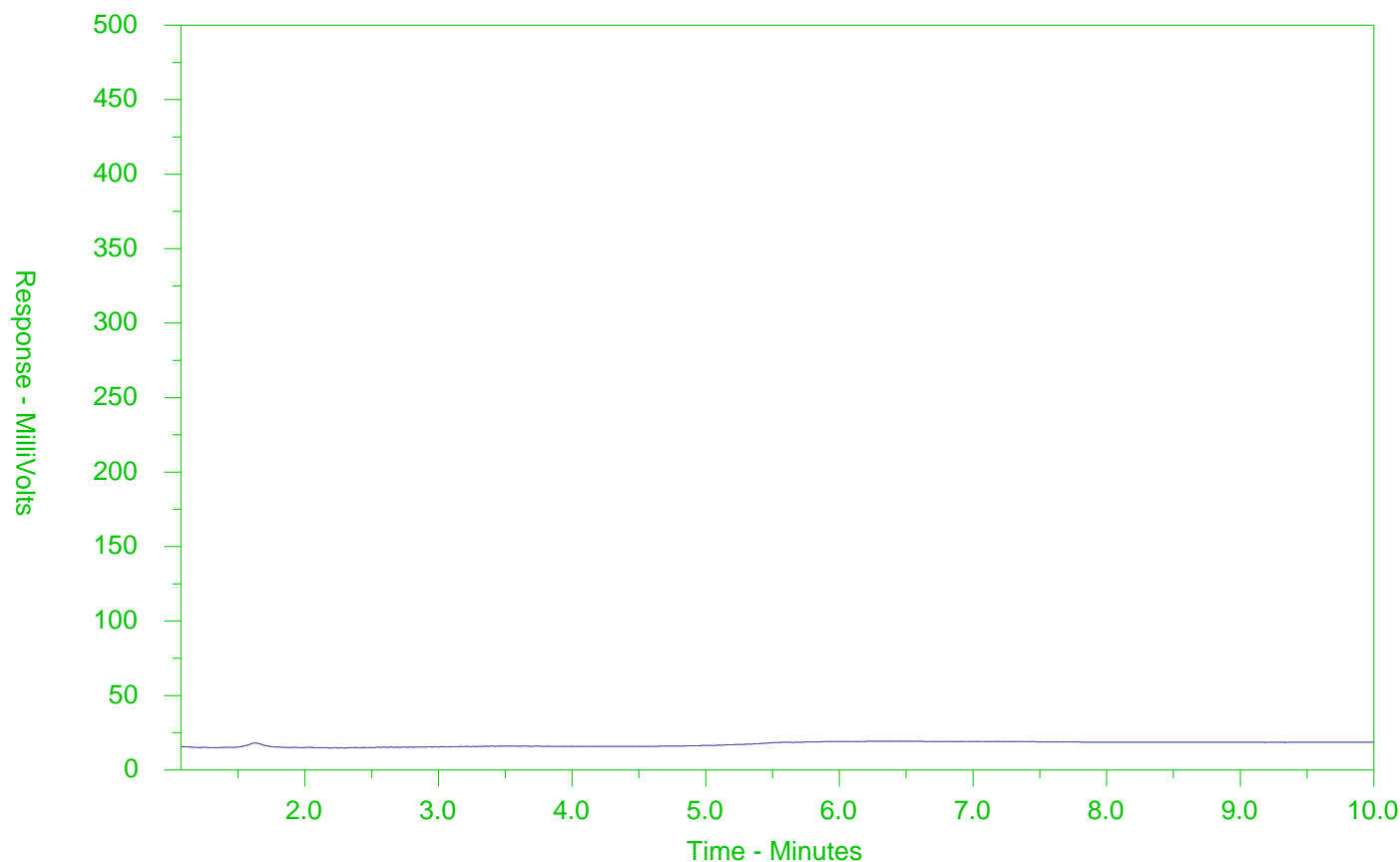
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

**Note:** This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at [www.alsglobal.com](http://www.alsglobal.com).

# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2625638-4  
Client Sample ID: 102 15-20



← 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.

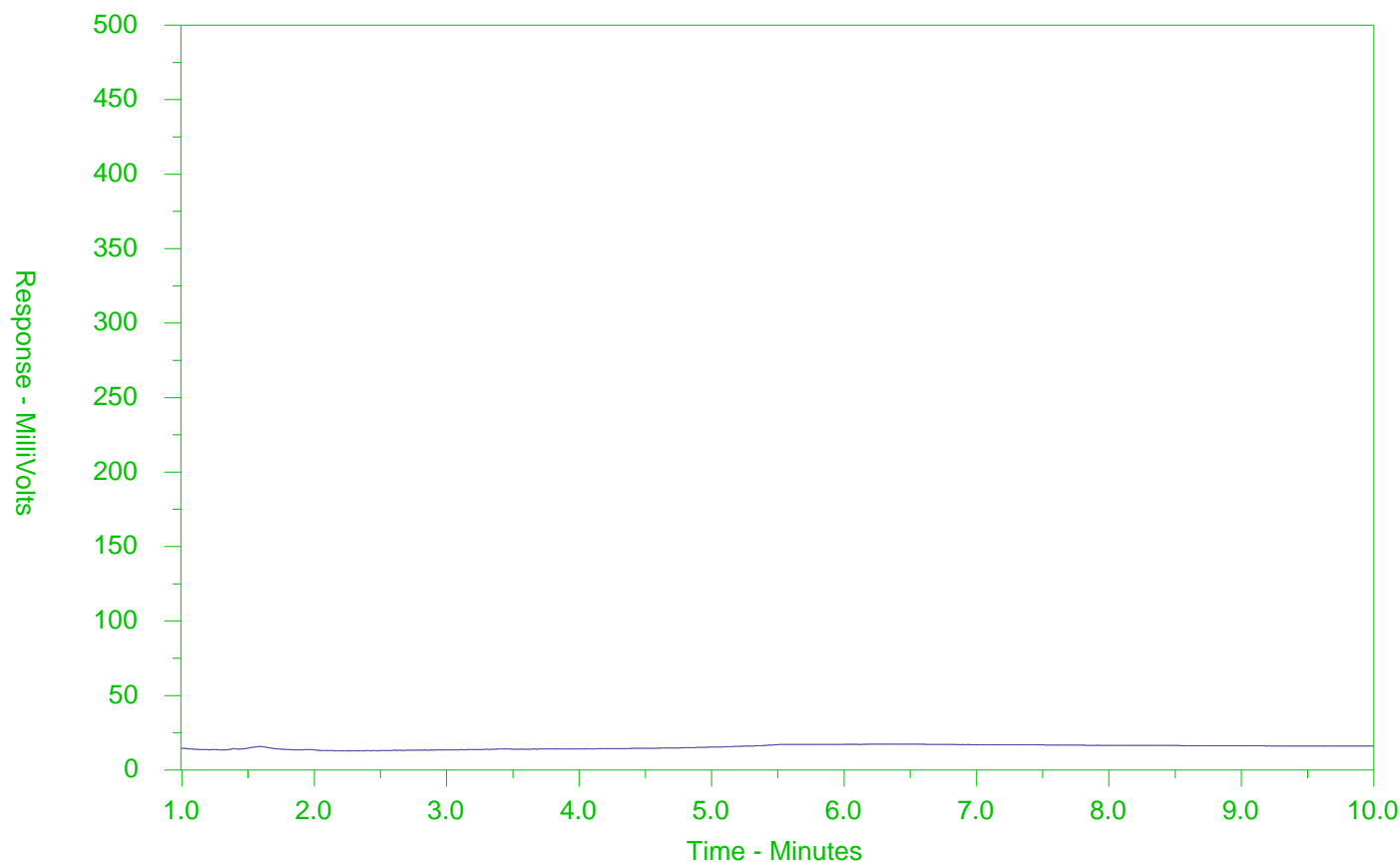
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

**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](http://www.alsglobal.com).

# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2625638-5  
Client Sample ID: 103 0-5



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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

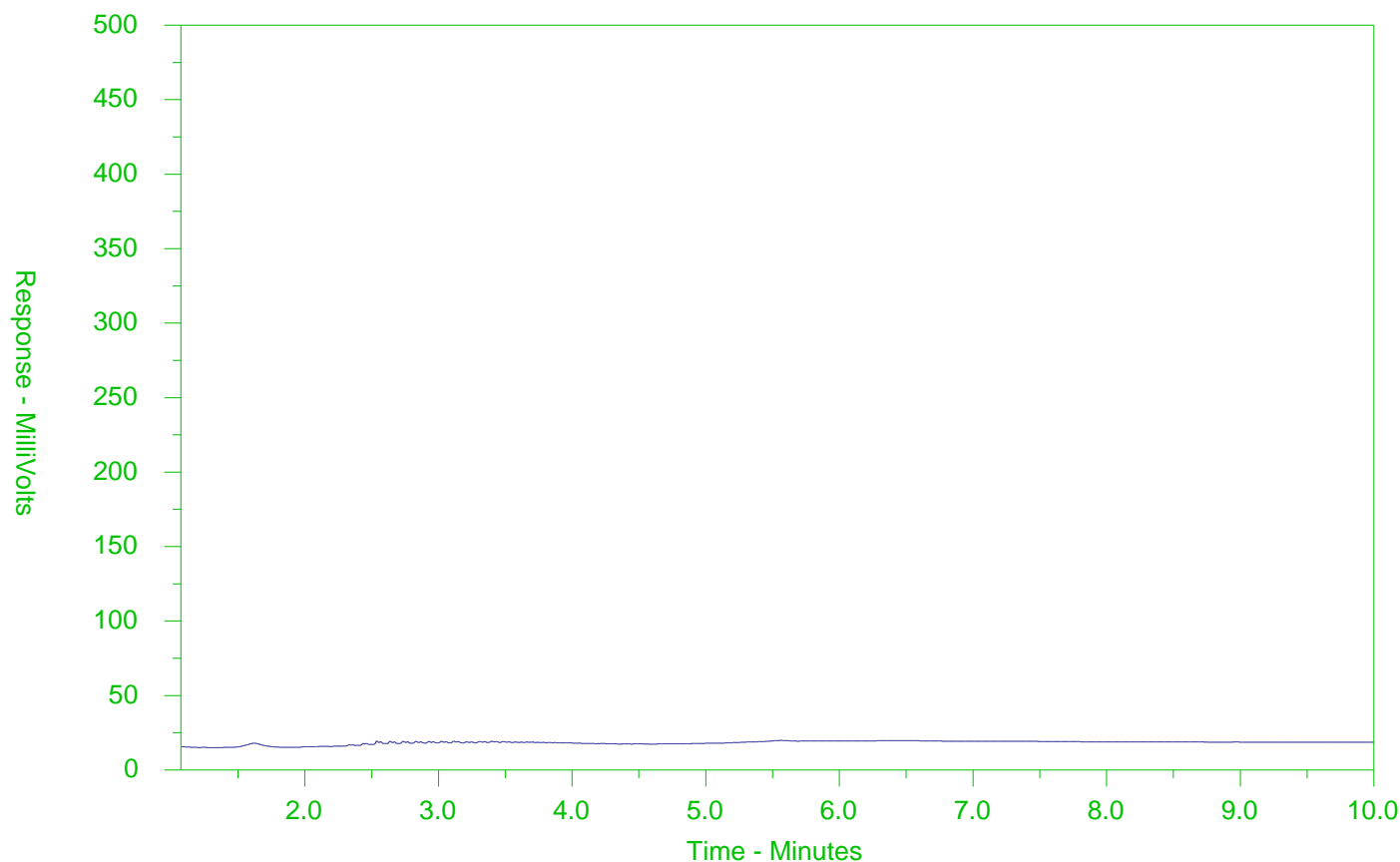
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

**Note:** This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at [www.alsglobal.com](http://www.alsglobal.com).

# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2625638-6  
Client Sample ID: 103 20-25



← 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.

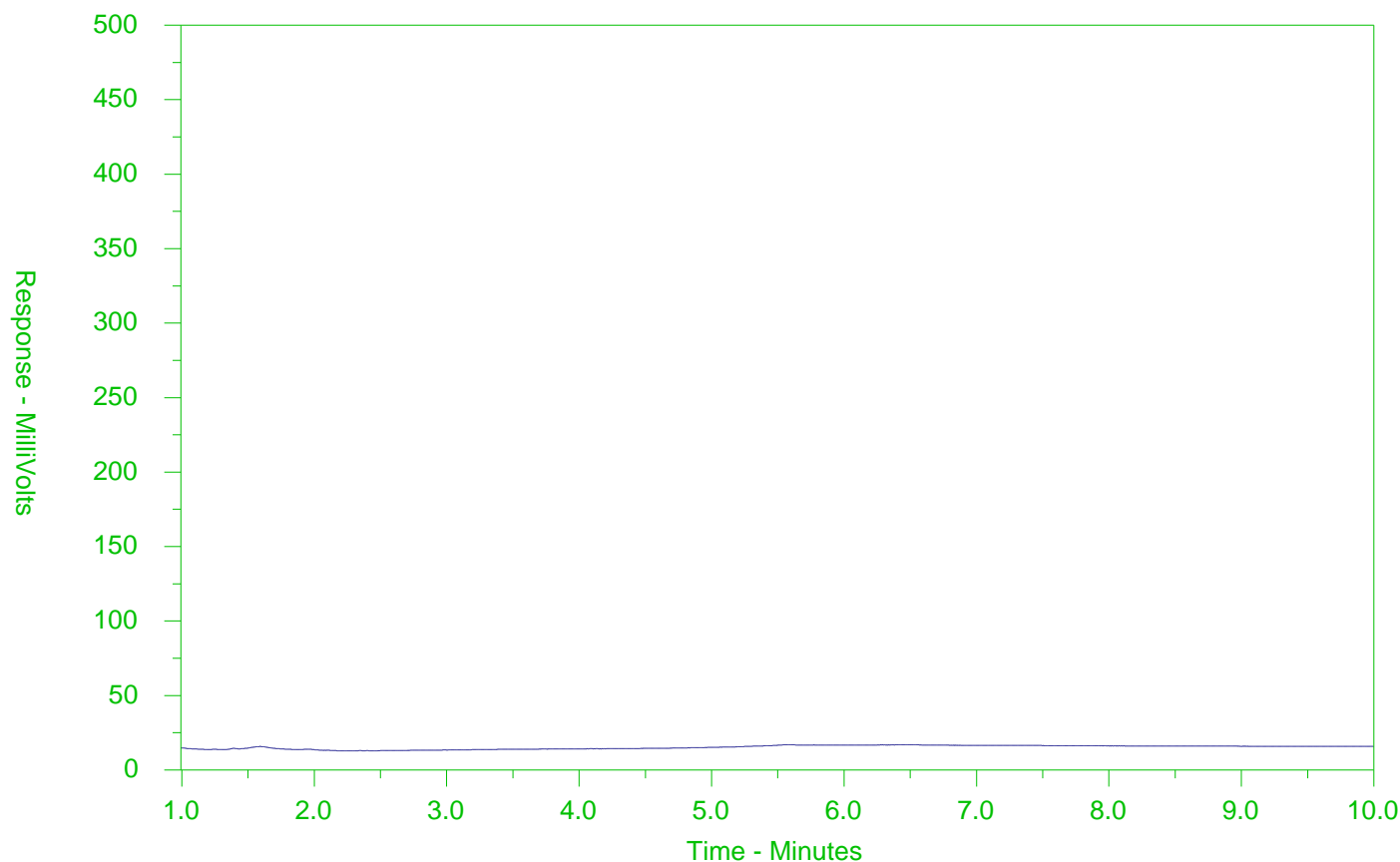
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

**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](http://www.alsglobal.com).

# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2625638-7  
Client Sample ID: 104 0-5



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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

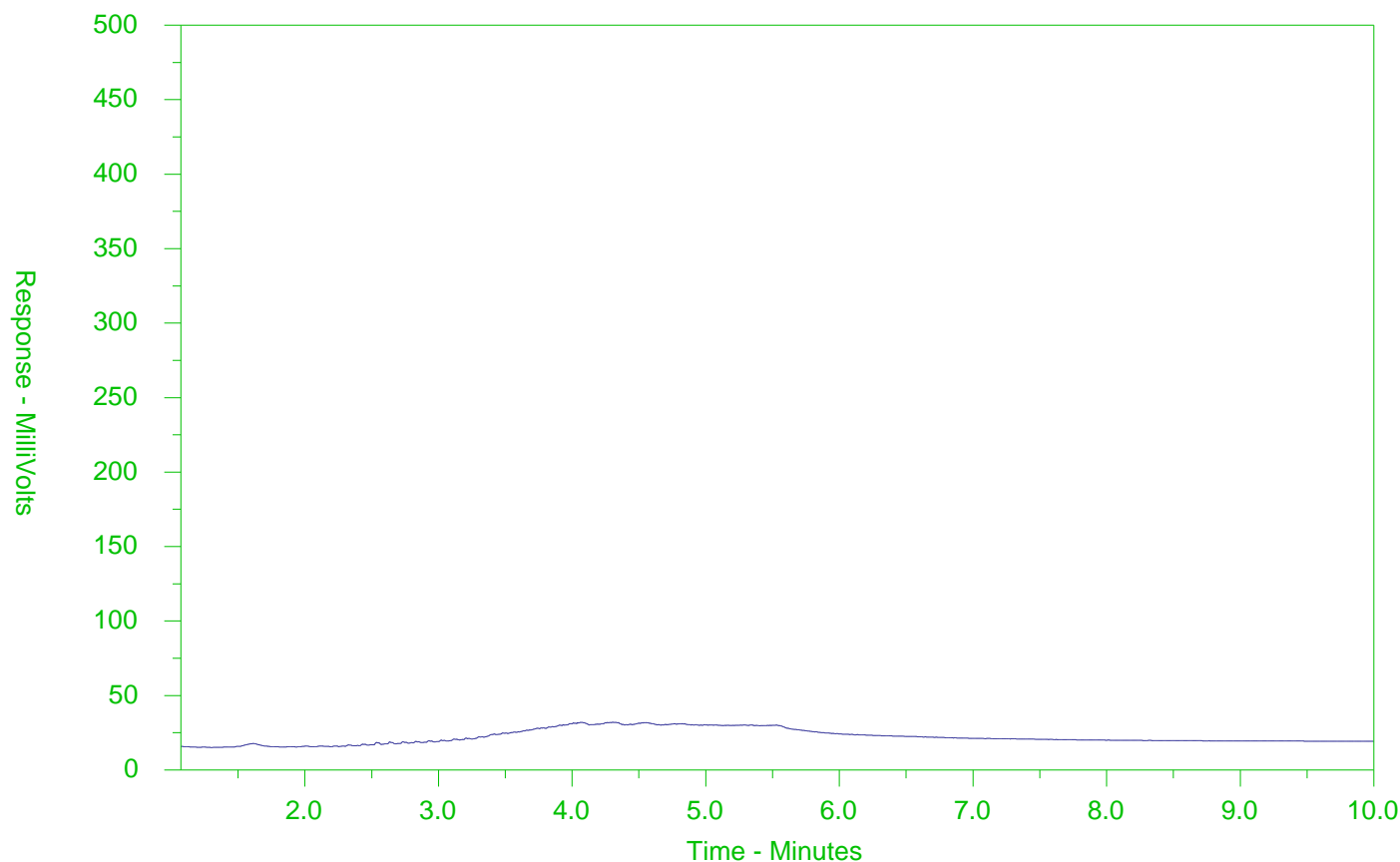
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

**Note:** This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at [www.alsglobal.com](http://www.alsglobal.com).

# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2625638-8  
Client Sample ID: 104 15-17.5



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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

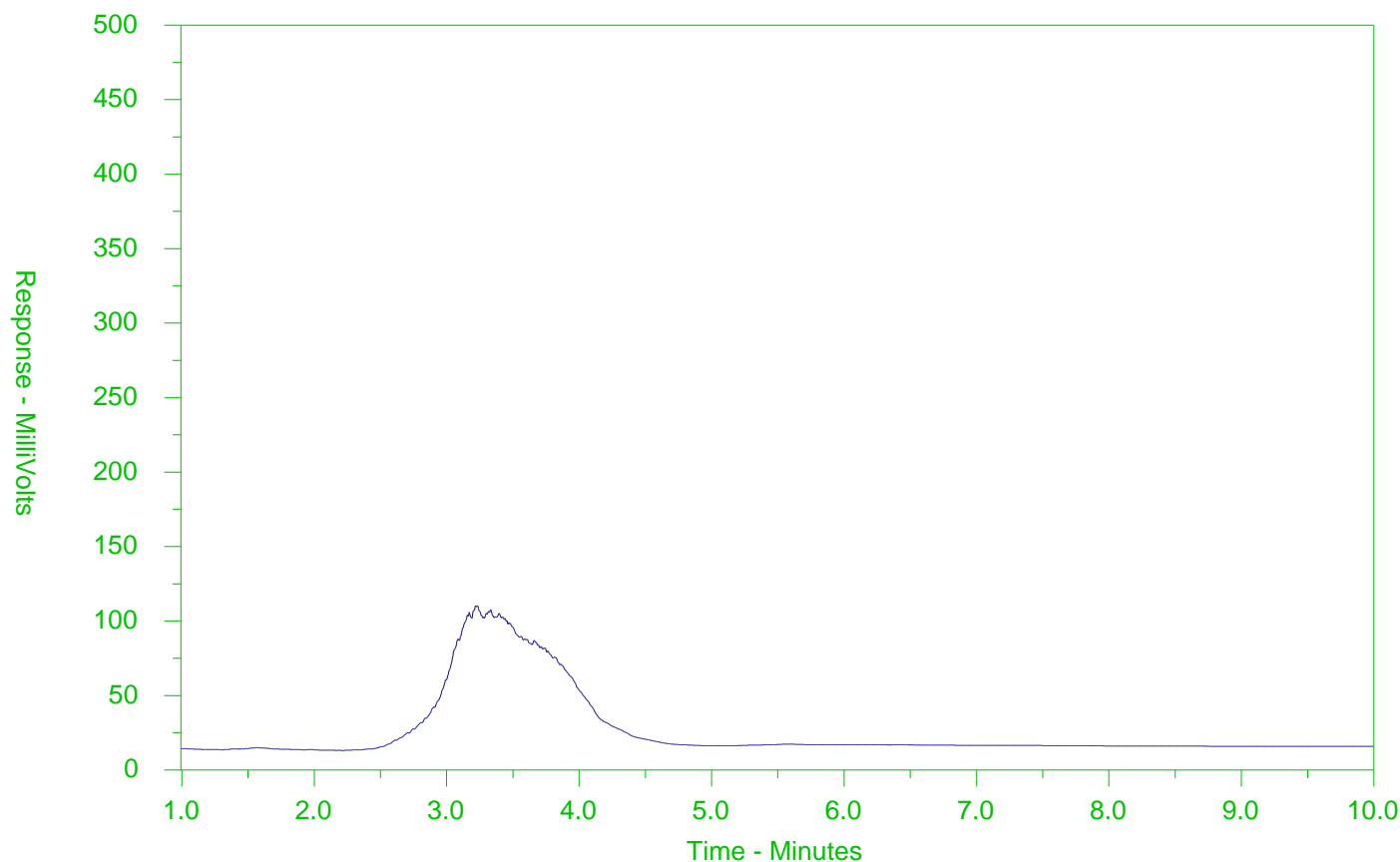
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

**Note:** This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at [www.alsglobal.com](http://www.alsglobal.com).

# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2625638-9  
Client Sample ID: 210 0-5



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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

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

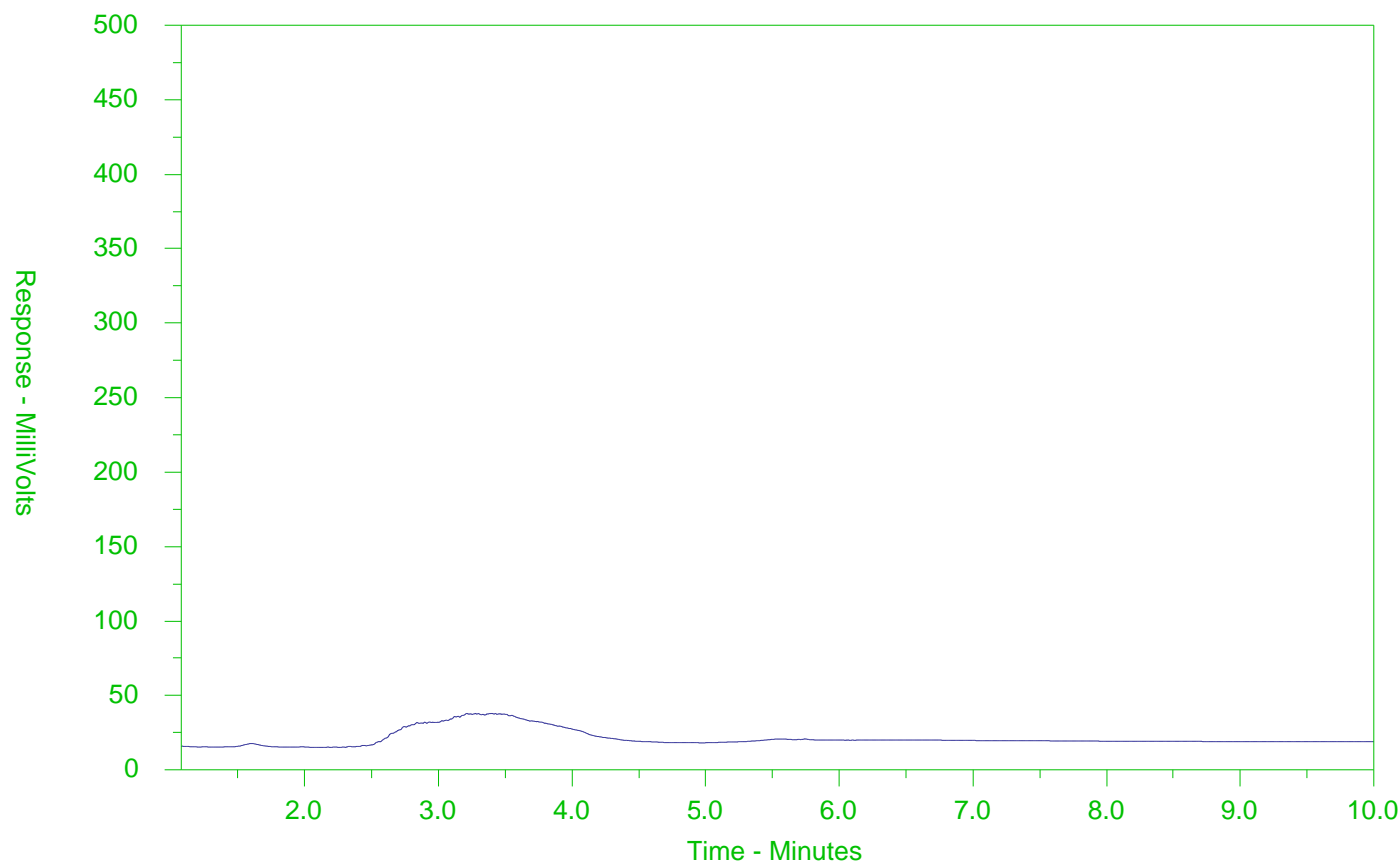
Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at [www.alsglobal.com](http://www.alsglobal.com).



# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2625638-10  
Client Sample ID: 210 20-21.5



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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

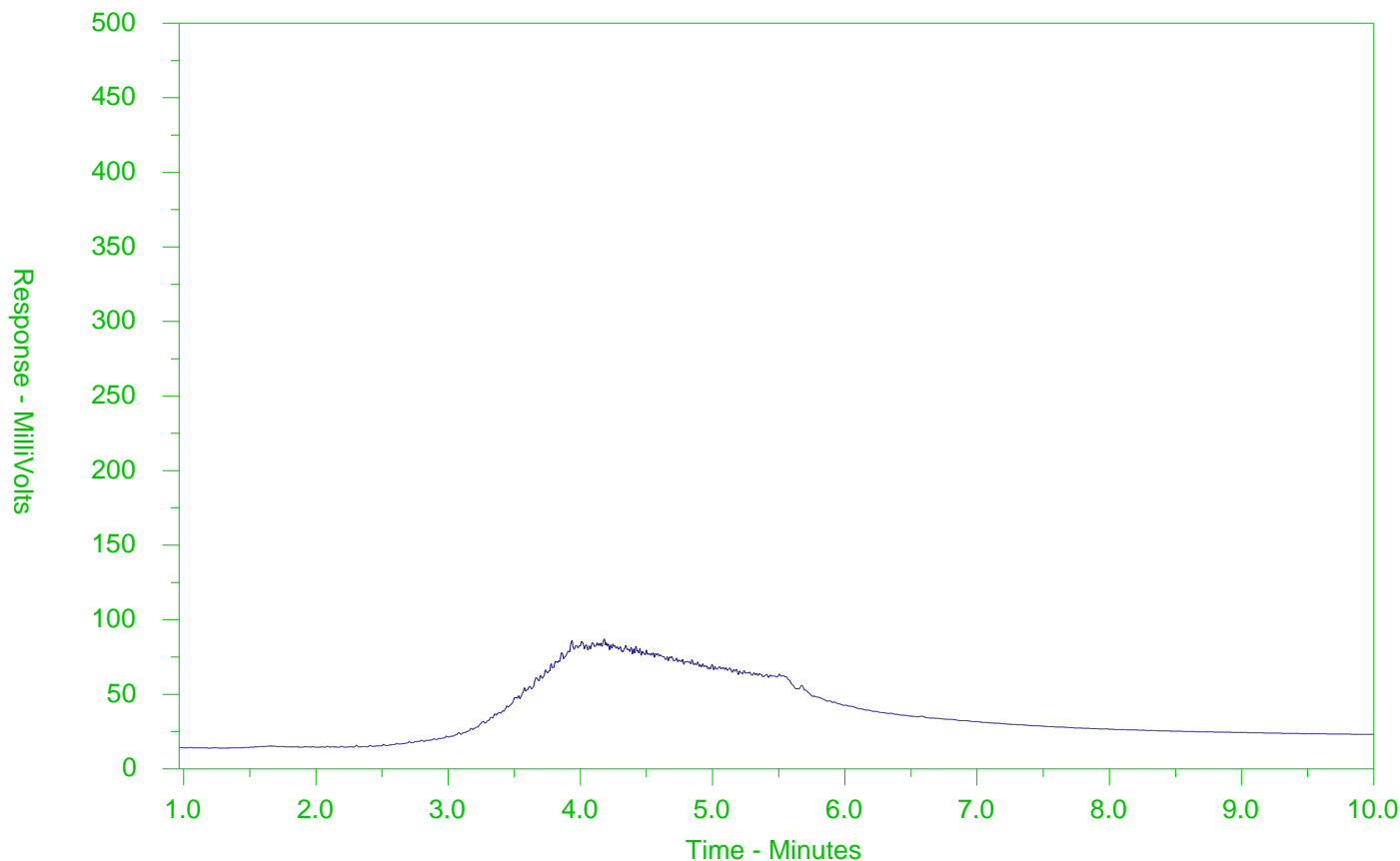
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

**Note:** This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at [www.alsglobal.com](http://www.alsglobal.com).

# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2625638-11  
Client Sample ID: 209 0-5



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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

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

**Note:** This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at [www.alsglobal.com](http://www.alsglobal.com).



www.alsglobal.com

Chain of Custody Form



L2625638-COFC

COC Number: 20-890994

Page 1 of 1

Contact and company name below will appear on the final report

Report To: *Thompson*

Company: *Thompson*

Contact: *Thompson*

Phone: *416 301 4671*

Street: *416 301 4671*

City/Province: *416 301 4671*

Postal Code: *416 301 4671*

Invoice To: *416 301 4671*

Copy of Invoice with Report: ☐ YES ☐ NO

Company: *416 301 4671*

Contact: *416 301 4671*

ALS Account # / Quote #: *416 301 4671*

Job #: *416 301 4671*

PO / AFE: *416 301 4671*

LSD: *416 301 4671*

ALS Lab Work Order # (ALS use only): *416 301 4671*

ALS Sample # (ALS use only): *416 301 4671*

Sample Identification and/or Coordinates (This description will appear on the report): *416 301 4671*

ALS Contact: *416 301 4671*

Date: *416 301 4671*

Time: *416 301 4671*

Sample Type: *416 301 4671*

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only): *416 301 4671*

Drinking Water (DW) Samples (client use): *416 301 4671*

Are samples taken from a Regulated DW System? ☐ YES ☐ NO

Are samples for human consumption/use? ☐ YES ☐ NO

SHIPMENT RELEASE (client use): *416 301 4671*

Date: *416 301 4671*

Time: *416 301 4671*

Received by: *416 301 4671*

Date: *416 301 4671*

Time: *416 301 4671*

Received by: *416 301 4671*

Date: *416 301 4671*

Turnaround Time (TAT) Requested

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below

Analysis Request

For all tests with rush TATs requested, please contact your AM to confirm availability.

Date and Time Required for all ESP TATs:

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below

Analysis Request

For all tests with rush TATs requested, please contact your AM to confirm availability.

Date and Time Required for all ESP TATs:

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below

Analysis Request

For all tests with rush TATs requested, please contact your AM to confirm availability.

Date and Time Required for all ESP TATs:

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below

Analysis Request

For all tests with rush TATs requested, please contact your AM to confirm availability.

Date and Time Required for all ESP TATs:

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For all tests with rush TATs requested, please contact your AM to confirm availability.

Date and Time Required for all ESP TATs:

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below

Analysis Request

For all tests with rush TATs requested, please contact your AM to confirm availability.

Date and Time Required for all ESP TATs:

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below

Analysis Request

For all tests with rush TATs requested, please contact your AM to confirm availability.

Date and Time Required for all ESP TATs:

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below

Analysis Request

AFFIX ALS BARCODE LABEL HERE (ALS use only)

SAMPLES ON HOLD

EXTENDED STORAGE REQUIRED

SUSPECTED HAZARD (see notes)

COOLING METHOD: ☐ NONE ☐ ICE ☐ FROZEN ☐ COOLING INITIATED

SUBMISSION COMMENTS IDENTIFIED ON SAMPLE RECEIPT: *416 301 4671*

COOLER CUSTODY SEALS INTACT: ☐ YES ☐ NO

INITIAL COOLER TEMPERATURES °C: *416 301 4671*

FINAL COOLER TEMPERATURES °C: *416 301 4671*

DATE: *416 301 4671*

TIME: *416 301 4671*

RECEIVED BY: *416 301 4671*

DATE: *416 301 4671*

TIME: *416 301 4671*

RECEIVED BY: *416 301 4671*

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DATE: *416 301 4671*

TIME: *416 301 4671*

RECEIVED BY: *416 301 4671*



Trafalgar Environmental Consultants  
(Newmarket)  
ATTN: Robb Hudson  
P.O. Box 93316  
Newmarket On L3X1A3

Date Received: 20-AUG-21  
Report Date: 27-AUG-21 14:45 (MT)  
Version: FINAL

Client Phone: 416-919-4960

## Certificate of Analysis

Lab Work Order #: L2629752

Project P.O. #: KD

Job Reference: KD

C of C Numbers:

Legal Site Desc:

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  
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# ANALYTICAL REPORT

## Summary of Guideline Exceedances

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

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



ANALYTICAL REPORT

Physical Tests - SOIL

		Lab ID		L2629752-1	L2629752-2
		Sample Date		20-AUG-21	20-AUG-21
		Sample ID		208 0'-5'	208 15'-17'
		Guide Limits			
Analyte	Unit	#1	#2		
Conductivity	mS/cm	1.4	-	0.173	
% Moisture	%	-	-	14.9	20.4
pH	pH units	-	-	7.69	

Guide Limit #1: T2-Soil-Ind/Com/Commu 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	L2629752-1	
		Sample Date	20-AUG-21	
		Sample ID	208 0'-5'	
		Guide Limits		
Analyte	Unit	#1	#2	
Cyanide, Weak Acid Diss	ug/g	0.051	-	<0.050

Guide Limit #1: T2-Soil-Ind/Com/Commu Property Use (Coarse)

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

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



ANALYTICAL REPORT

Saturated Paste Extractables - SOIL

		Lab ID	L2629752-1		
		Sample Date	20-AUG-21		
		Sample ID	208 0'-5'		
		Guide Limits			
Analyte	Unit	#1	#2		
SAR	SAR	12	-	0.38	SAR:M
Calcium (Ca)	mg/L	-	-	31.7	
Magnesium (Mg)	mg/L	-	-	<0.50	
Sodium (Na)	mg/L	-	-	7.82	

Guide Limit #1: T2-Soil-Ind/Com/Commu Property Use (Coarse)

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

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





ANALYTICAL REPORT

Metals - SOIL

		Lab ID	L2629752-1	
		Sample Date	20-AUG-21	
		Sample ID	208 0'-5'	
		Guide Limits		
Analyte	Unit	#1	#2	
Antimony (Sb)	ug/g	40	-	<1.0
Arsenic (As)	ug/g	18	-	1.7
Barium (Ba)	ug/g	670	-	18.9
Beryllium (Be)	ug/g	8	-	<0.50
Boron (B)	ug/g	120	-	<5.0
Boron (B), Hot Water Ext.	ug/g	2	-	<0.10
Cadmium (Cd)	ug/g	1.9	-	<0.50
Chromium (Cr)	ug/g	160	-	8.5
Cobalt (Co)	ug/g	80	-	2.2
Copper (Cu)	ug/g	230	-	2.9
Lead (Pb)	ug/g	120	-	2.5
Mercury (Hg)	ug/g	3.9	-	0.0143
Molybdenum (Mo)	ug/g	40	-	<1.0
Nickel (Ni)	ug/g	270	-	3.8
Selenium (Se)	ug/g	5.5	-	<1.0
Silver (Ag)	ug/g	40	-	<0.20
Thallium (Tl)	ug/g	3.3	-	<0.50
Uranium (U)	ug/g	33	-	<1.0
Vanadium (V)	ug/g	86	-	19.2
Zinc (Zn)	ug/g	340	-	10.1

Guide Limit #1: T2-Soil-Ind/Com/Commu 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

Speciated Metals - SOIL

		Lab ID	L2629752-1	
		Sample Date	20-AUG-21	
		Sample ID	208 0'-5'	
		Guide Limits		
Analyte	Unit	#1	#2	
Chromium, Hexavalent	ug/g	8	-	0.24

Guide Limit #1: T2-Soil-Ind/Com/Commu Property Use (Coarse)

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

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

# ANALYTICAL REPORT

## Volatile Organic Compounds - SOIL

Analyte	Unit	Guide Limits			
		#1	#2		
Acetone	ug/g	16	-	<0.50	<0.50
Benzene	ug/g	0.32	-	<0.0068	<0.0068
Bromodichloromethane	ug/g	1.5	-	<0.050	<0.050
Bromoform	ug/g	0.61	-	<0.050	<0.050
Bromomethane	ug/g	0.05	-	<0.050	<0.050
Carbon tetrachloride	ug/g	0.21	-	<0.050	<0.050
Chlorobenzene	ug/g	2.4	-	<0.050	<0.050
Dibromochloromethane	ug/g	2.3	-	<0.050	<0.050
Chloroform	ug/g	0.47	-	<0.050	<0.050
1,2-Dibromoethane	ug/g	0.05	-	<0.050	<0.050
1,2-Dichlorobenzene	ug/g	1.2	-	<0.050	<0.050
1,3-Dichlorobenzene	ug/g	9.6	-	<0.050	<0.050
1,4-Dichlorobenzene	ug/g	0.2	-	<0.050	<0.050
Dichlorodifluoromethane	ug/g	16	-	<0.050	<0.050
1,1-Dichloroethane	ug/g	0.47	-	<0.050	<0.050
1,2-Dichloroethane	ug/g	0.05	-	<0.050	<0.050
1,1-Dichloroethylene	ug/g	0.064	-	<0.050	<0.050
cis-1,2-Dichloroethylene	ug/g	1.9	-	<0.050	<0.050
trans-1,2-Dichloroethylene	ug/g	1.3	-	<0.050	<0.050
Methylene Chloride	ug/g	1.6	-	<0.050	<0.050
1,2-Dichloropropane	ug/g	0.16	-	<0.050	<0.050
cis-1,3-Dichloropropene	ug/g	-	-	<0.030	<0.030
trans-1,3-Dichloropropene	ug/g	-	-	<0.030	<0.030
1,3-Dichloropropene (cis & trans)	ug/g	0.059	-	<0.042	<0.042
Ethylbenzene	ug/g	1.1	-	<0.018	<0.018
n-Hexane	ug/g	46	-	<0.050	<0.050
Methyl Ethyl Ketone	ug/g	70	-	<0.50	<0.50
Methyl Isobutyl Ketone	ug/g	31	-	<0.50	<0.50
MTBE	ug/g	1.6	-	<0.050	<0.050
Styrene	ug/g	34	-	<0.050	<0.050

### Guide Limit #1: T2-Soil-Ind/Com/Commu Property Use (Coarse)

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

# ANALYTICAL REPORT

## Volatile Organic Compounds - SOIL

Analyte	Unit	Guide Limits			
		#1	#2		
1,1,1,2-Tetrachloroethane	ug/g	0.087	-	<0.050	<0.050
1,1,2,2-Tetrachloroethane	ug/g	0.05	-	<0.050	<0.050
Tetrachloroethylene	ug/g	1.9	-	<0.050	<0.050
Toluene	ug/g	6.4	-	<0.080	<0.080
1,1,1-Trichloroethane	ug/g	6.1	-	<0.050	<0.050
1,1,2-Trichloroethane	ug/g	0.05	-	<0.050	<0.050
Trichloroethylene	ug/g	0.55	-	<0.010	<0.010
Trichlorofluoromethane	ug/g	4	-	<0.050	<0.050
Vinyl chloride	ug/g	0.032	-	<0.020	<0.020
o-Xylene	ug/g	-	-	<0.020	<0.020
m+p-Xylenes	ug/g	-	-	<0.030	<0.030
Xylenes (Total)	ug/g	26	-	<0.050	<0.050
Surrogate: 4-Bromofluorobenzene	%	-	-	90.8	97.8
Surrogate: 1,4-Difluorobenzene	%	-	-	95.8	103.0

### Guide Limit #1: T2-Soil-Ind/Com/Commu Property Use (Coarse)

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



ANALYTICAL REPORT

Hydrocarbons - SOIL

		Lab ID	L2629752-1	L2629752-2
		Sample Date	20-AUG-21	20-AUG-21
		Sample ID	208 0'-5'	208 15'-17'
		Guide Limits		
Analyte	Unit	#1	#2	
F1 (C6-C10)	ug/g	55	-	<5.0
F1-BTEX	ug/g	55	-	<5.0
F2 (C10-C16)	ug/g	230	-	<10
F2-Naphth	ug/g	-	-	<10
F3 (C16-C34)	ug/g	1700	-	<50
F3-PAH	ug/g	-	-	<50
F4 (C34-C50)	ug/g	3300	-	<50
Total Hydrocarbons (C6-C50)	ug/g	-	-	<72
Chrom. to baseline at nC50		-	-	YES
Surrogate: 2-Bromobenzotrifluoride	%	-	-	83.1
Surrogate: 3,4-Dichlorotoluene	%	-	-	89.9

Guide Limit #1: T2-Soil-Ind/Com/Commu Property Use (Coarse)

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

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



ANALYTICAL REPORT

Polycyclic Aromatic Hydrocarbons - SOIL

		Lab ID	L2629752-1	
		Sample Date	20-AUG-21	
		Sample ID	208 0'-5'	
		Guide Limits		
Analyte	Unit	#1	#2	
Acenaphthene	ug/g	21	-	<0.050
Acenaphthylene	ug/g	0.15	-	<0.050
Anthracene	ug/g	0.67	-	<0.050
Benzo(a)anthracene	ug/g	0.96	-	<0.050
Benzo(a)pyrene	ug/g	0.3	-	<0.050
Benzo(b&j)fluoranthene	ug/g	0.96	-	<0.050
Benzo(g,h,i)perylene	ug/g	9.6	-	<0.050
Benzo(k)fluoranthene	ug/g	0.96	-	<0.050
Chrysene	ug/g	9.6	-	<0.050
Dibenz(a,h)anthracene	ug/g	0.1	-	<0.050
Fluoranthene	ug/g	9.6	-	<0.050
Fluorene	ug/g	62	-	<0.050
Indeno(1,2,3-cd)pyrene	ug/g	0.76	-	<0.050
1+2-Methylnaphthalenes	ug/g	30	-	<0.042
1-Methylnaphthalene	ug/g	30	-	<0.030
2-Methylnaphthalene	ug/g	30	-	<0.030
Naphthalene	ug/g	9.6	-	<0.013
Phenanthrene	ug/g	12	-	<0.046
Pyrene	ug/g	96	-	<0.050
Surrogate: 2-Fluorobiphenyl	%	-	-	94.4
Surrogate: d14-Terphenyl	%	-	-	101.7

Guide Limit #1: T2-Soil-Ind/Com/Commu 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

L2629752 CONT'D....  
Job Reference: KD  
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27-AUG-21 14:45 (MT)

## Qualifiers for Individual Parameters Listed:

Qualifier	Description
SAR:M	Reported SAR represents a maximum value. Actual SAR may be lower if both Ca and Mg were detectable.

## Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
<b>B-HWS-R511-WT</b>	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).

<b>CN-WAD-R511-WT</b>	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 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).

<b>CR-CR6-IC-WT</b>	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).

<b>EC-WT</b>	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).

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

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

Hydrocarbon results are expressed on a dry weight basis.

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

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

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

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

1. All extraction and analysis holding times were met.

# Reference Information

L2629752 CONT'D....  
Job Reference: KD  
PAGE 13 of 15  
27-AUG-21 14:45 (MT)

## Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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- Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
- 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:

- All extraction and analysis holding times were met.
- Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
- Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
- 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:

- F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
- F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
- F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
- F4G: Gravimetric Heavy Hydrocarbons
- F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
- 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.
- F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
- This method is validated for use.
- Data from analysis of validation and quality control samples is available upon request.
- Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

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

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

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

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

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

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

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H<sub>2</sub>S) may be excluded if lost during sampling, storage, or digestion.

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



# Reference Information

L2629752 CONT'D....  
Job Reference: KD  
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## Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
<b>METHYLNAPS-CALC-WT</b>	Soil	ABN-Calculated Parameters	SW846 8270
<b>MOISTURE-WT</b>	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
<b>PAH-511-WT</b>	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).			
<b>PH-WT</b>	Soil	pH	MOEE E3137A
A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).			
<b>SAR-R511-WT</b>	Soil	SAR-O.Reg 153/04 (July 2011)	SW846 6010C
A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).			
<b>VOC-1,3-DCP-CALC-WT</b>	Soil	Regulation 153 VOCs	SW8260B/SW8270C
<b>VOC-511-HS-WT</b>	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).			
<b>XYLENES-SUM-CALC-WT</b>	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:			
<i>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:</i>			
Laboratory Definition Code	Laboratory Location		
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

# Reference Information

L2629752 CONT'D....  
Job Reference: KD  
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27-AUG-21 14:45 (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 ww - 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.*



Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-WT	Soil							
Batch	R5569256							
WG3603966-1	MB							
Conductivity			<0.0040		mS/cm		0.004	25-AUG-21
F1-HS-511-WT	Soil							
Batch	R5569844							
WG3603678-4	DUP	WG3603678-3						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	25-AUG-21
WG3603678-2	LCS							
F1 (C6-C10)			102.7		%		80-120	25-AUG-21
WG3603678-1	MB							
F1 (C6-C10)			<5.0		ug/g		5	25-AUG-21
Surrogate: 3,4-Dichlorotoluene			96.9		%		60-140	25-AUG-21
WG3603678-5	MS	WG3603678-3						
F1 (C6-C10)			96.1		%		60-140	25-AUG-21
F2-F4-511-WT	Soil							
Batch	R5569679							
WG3602992-7	DUP	WG3602992-9						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	25-AUG-21
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	25-AUG-21
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	25-AUG-21
WG3602992-6	LCS							
F2 (C10-C16)			96.4		%		80-120	25-AUG-21
F3 (C16-C34)			87.5		%		80-120	25-AUG-21
F4 (C34-C50)			73.6	LCS-L	%		80-120	25-AUG-21
WG3602992-5	MB							
F2 (C10-C16)			<10		ug/g		10	25-AUG-21
F3 (C16-C34)			<50		ug/g		50	25-AUG-21
F4 (C34-C50)			<50		ug/g		50	25-AUG-21
Surrogate: 2-Bromobenzotrifluoride			71.3		%		60-140	25-AUG-21
WG3602992-8	MS	WG3602992-9						
F2 (C10-C16)			74.8		%		60-140	25-AUG-21
F3 (C16-C34)			74.2		%		60-140	25-AUG-21
F4 (C34-C50)			74.1		%		60-140	25-AUG-21
HG-200.2-CVAA-WT	Soil							



## Quality Control Report

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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>HG-200.2-CVAA-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5568836</b>							
<b>WG3603921-2</b>	<b>CRM</b>	<b>WT-SS-2</b>						
Mercury (Hg)			100.7		%		70-130	25-AUG-21
<b>WG3603921-6</b>	<b>DUP</b>	<b>WG3603921-5</b>						
Mercury (Hg)		<0.0050	<0.0050	RPD-NA	ug/g	N/A	40	25-AUG-21
<b>WG3603921-3</b>	<b>LCS</b>							
Mercury (Hg)			97.5		%		80-120	25-AUG-21
<b>WG3603921-1</b>	<b>MB</b>							
Mercury (Hg)			<0.0050		mg/kg		0.005	25-AUG-21
<b>MET-200.2-CCMS-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5569627</b>							
<b>WG3603921-2</b>	<b>CRM</b>	<b>WT-SS-2</b>						
Antimony (Sb)			107.0		%		70-130	25-AUG-21
Arsenic (As)			115.5		%		70-130	25-AUG-21
Barium (Ba)			113.1		%		70-130	25-AUG-21
Beryllium (Be)			108.9		%		70-130	25-AUG-21
Boron (B)			9.7		mg/kg		3.5-13.5	25-AUG-21
Cadmium (Cd)			105.3		%		70-130	25-AUG-21
Chromium (Cr)			107.9		%		70-130	25-AUG-21
Cobalt (Co)			109.4		%		70-130	25-AUG-21
Copper (Cu)			103.5		%		70-130	25-AUG-21
Lead (Pb)			107.8		%		70-130	25-AUG-21
Molybdenum (Mo)			109.1		%		70-130	25-AUG-21
Nickel (Ni)			107.9		%		70-130	25-AUG-21
Selenium (Se)			0.14		mg/kg		0-0.34	25-AUG-21
Silver (Ag)			102.7		%		70-130	25-AUG-21
Thallium (Tl)			0.085		mg/kg		0.029-0.129	25-AUG-21
Uranium (U)			112.9		%		70-130	25-AUG-21
Vanadium (V)			111.2		%		70-130	25-AUG-21
Zinc (Zn)			99.7		%		70-130	25-AUG-21
<b>WG3603921-6</b>	<b>DUP</b>	<b>WG3603921-5</b>						
Antimony (Sb)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	25-AUG-21
Arsenic (As)		1.50	1.42		ug/g	5.3	30	25-AUG-21
Barium (Ba)		28.0	29.4		ug/g	4.9	40	25-AUG-21
Beryllium (Be)		0.15	0.15		ug/g	0.3	30	25-AUG-21
Boron (B)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	25-AUG-21

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5569627							
WG3603921-6	DUP	WG3603921-5						
Cadmium (Cd)		0.027	0.038	J	ug/g	0.011	0.04	25-AUG-21
Chromium (Cr)		7.82	6.80		ug/g	14	30	25-AUG-21
Cobalt (Co)		2.49	2.42		ug/g	2.7	30	25-AUG-21
Copper (Cu)		5.76	5.80		ug/g	0.7	30	25-AUG-21
Lead (Pb)		2.54	2.82		ug/g	10	40	25-AUG-21
Molybdenum (Mo)		0.20	0.20		ug/g	3.6	40	25-AUG-21
Nickel (Ni)		4.16	4.04		ug/g	2.8	30	25-AUG-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	25-AUG-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	25-AUG-21
Thallium (Tl)		<0.050	<0.050	RPD-NA	ug/g	N/A	30	25-AUG-21
Uranium (U)		0.471	0.450		ug/g	4.6	30	25-AUG-21
Vanadium (V)		17.2	16.2		ug/g	6.2	30	25-AUG-21
Zinc (Zn)		20.6	24.7		ug/g	18	30	25-AUG-21
WG3603921-4	LCS							
Antimony (Sb)			105.7		%		80-120	25-AUG-21
Arsenic (As)			109.0		%		80-120	25-AUG-21
Barium (Ba)			112.2		%		80-120	25-AUG-21
Beryllium (Be)			100.1		%		80-120	25-AUG-21
Boron (B)			93.9		%		80-120	25-AUG-21
Cadmium (Cd)			101.9		%		80-120	25-AUG-21
Chromium (Cr)			105.4		%		80-120	25-AUG-21
Cobalt (Co)			104.2		%		80-120	25-AUG-21
Copper (Cu)			101.8		%		80-120	25-AUG-21
Lead (Pb)			103.7		%		80-120	25-AUG-21
Molybdenum (Mo)			105.1		%		80-120	25-AUG-21
Nickel (Ni)			102.1		%		80-120	25-AUG-21
Selenium (Se)			100.1		%		80-120	25-AUG-21
Silver (Ag)			110.3		%		80-120	25-AUG-21
Thallium (Tl)			105.3		%		80-120	25-AUG-21
Uranium (U)			107.6		%		80-120	25-AUG-21
Vanadium (V)			108.6		%		80-120	25-AUG-21
Zinc (Zn)			99.7		%		80-120	25-AUG-21
WG3603921-1	MB							
							0.1	



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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-200.2-CCMS-WT</b>		<b>Soil</b>						
<b>Batch R5569627</b>								
<b>WG3603921-1</b>	<b>MB</b>							
Antimony (Sb)			<0.10		mg/kg		0.1	25-AUG-21
Arsenic (As)			<0.10		mg/kg		0.1	25-AUG-21
Barium (Ba)			<0.50		mg/kg		0.5	25-AUG-21
Beryllium (Be)			<0.10		mg/kg		0.1	25-AUG-21
Boron (B)			<5.0		mg/kg		5	25-AUG-21
Cadmium (Cd)			<0.020		mg/kg		0.02	25-AUG-21
Chromium (Cr)			<0.50		mg/kg		0.5	25-AUG-21
Cobalt (Co)			<0.10		mg/kg		0.1	25-AUG-21
Copper (Cu)			<0.50		mg/kg		0.5	25-AUG-21
Lead (Pb)			<0.50		mg/kg		0.5	25-AUG-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	25-AUG-21
Nickel (Ni)			<0.50		mg/kg		0.5	25-AUG-21
Selenium (Se)			<0.20		mg/kg		0.2	25-AUG-21
Silver (Ag)			<0.10		mg/kg		0.1	25-AUG-21
Thallium (Tl)			<0.050		mg/kg		0.05	25-AUG-21
Uranium (U)			<0.050		mg/kg		0.05	25-AUG-21
Vanadium (V)			<0.20		mg/kg		0.2	25-AUG-21
Zinc (Zn)			<2.0		mg/kg		2	25-AUG-21
<b>MOISTURE-WT</b>		<b>Soil</b>						
<b>Batch R5565180</b>								
<b>WG3602198-3</b>	<b>DUP</b>	<b>L2628596-2</b>						
% Moisture		71.8	68.3		%	4.9	20	24-AUG-21
<b>WG3602198-2</b>	<b>LCS</b>							
% Moisture			100.4		%		90-110	24-AUG-21
<b>WG3602198-1</b>	<b>MB</b>							
% Moisture			<0.25		%		0.25	24-AUG-21
<b>PAH-511-WT</b>		<b>Soil</b>						
<b>Batch R5569080</b>								
<b>WG3602305-3</b>	<b>DUP</b>	<b>WG3602305-5</b>						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-AUG-21
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-AUG-21
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed	
PAH-511-WT		Soil							
Batch	R5569080								
WG3602305-3		DUP	WG3602305-5						
Benzo(a)anthracene			<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Benzo(a)pyrene			<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Benzo(b&j)fluoranthene			<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Benzo(g,h,i)perylene			<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Benzo(k)fluoranthene			<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Chrysene			<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Dibenz(a,h)anthracene			<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Fluoranthene			<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Fluorene			<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Indeno(1,2,3-cd)pyrene			<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Naphthalene			<0.013	<0.013	RPD-NA	ug/g	N/A	40	25-AUG-21
Phenanthrene			<0.046	<0.046	RPD-NA	ug/g	N/A	40	25-AUG-21
Pyrene			<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
WG3602305-2		LCS							
1-Methylnaphthalene				100.1		%		50-140	25-AUG-21
2-Methylnaphthalene				97.3		%		50-140	25-AUG-21
Acenaphthene				96.5		%		50-140	25-AUG-21
Acenaphthylene				94.1		%		50-140	25-AUG-21
Anthracene				85.7		%		50-140	25-AUG-21
Benzo(a)anthracene				99.4		%		50-140	25-AUG-21
Benzo(a)pyrene				83.0		%		50-140	25-AUG-21
Benzo(b&j)fluoranthene				87.3		%		50-140	25-AUG-21
Benzo(g,h,i)perylene				82.3		%		50-140	25-AUG-21
Benzo(k)fluoranthene				95.6		%		50-140	25-AUG-21
Chrysene				101.6		%		50-140	25-AUG-21
Dibenz(a,h)anthracene				90.6		%		50-140	25-AUG-21
Fluoranthene				98.8		%		50-140	25-AUG-21
Fluorene				96.0		%		50-140	25-AUG-21
Indeno(1,2,3-cd)pyrene				92.7		%		50-140	25-AUG-21
Naphthalene				93.9		%		50-140	25-AUG-21
Phenanthrene				96.6		%		50-140	25-AUG-21
Pyrene				98.0		%		50-140	25-AUG-21
WG3602305-1		MB							
							0.03		



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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT		Soil						
Batch	R5569080							
WG3602305-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	25-AUG-21
2-Methylnaphthalene			<0.030		ug/g		0.03	25-AUG-21
Acenaphthene			<0.050		ug/g		0.05	25-AUG-21
Acenaphthylene			<0.050		ug/g		0.05	25-AUG-21
Anthracene			<0.050		ug/g		0.05	25-AUG-21
Benzo(a)anthracene			<0.050		ug/g		0.05	25-AUG-21
Benzo(a)pyrene			<0.050		ug/g		0.05	25-AUG-21
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	25-AUG-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	25-AUG-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	25-AUG-21
Chrysene			<0.050		ug/g		0.05	25-AUG-21
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	25-AUG-21
Fluoranthene			<0.050		ug/g		0.05	25-AUG-21
Fluorene			<0.050		ug/g		0.05	25-AUG-21
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	25-AUG-21
Naphthalene			<0.013		ug/g		0.013	25-AUG-21
Phenanthrene			<0.046		ug/g		0.046	25-AUG-21
Pyrene			<0.050		ug/g		0.05	25-AUG-21
Surrogate: 2-Fluorobiphenyl			90.8		%		50-140	25-AUG-21
Surrogate: d14-Terphenyl			92.5		%		50-140	25-AUG-21
WG3602305-4 MS		WG3602305-5						
1-Methylnaphthalene			96.5		%		50-140	25-AUG-21
2-Methylnaphthalene			93.9		%		50-140	25-AUG-21
Acenaphthene			92.1		%		50-140	25-AUG-21
Acenaphthylene			90.9		%		50-140	25-AUG-21
Anthracene			81.3		%		50-140	25-AUG-21
Benzo(a)anthracene			96.6		%		50-140	25-AUG-21
Benzo(a)pyrene			80.0		%		50-140	25-AUG-21
Benzo(b&j)fluoranthene			85.0		%		50-140	25-AUG-21
Benzo(g,h,i)perylene			80.0		%		50-140	25-AUG-21
Benzo(k)fluoranthene			91.4		%		50-140	25-AUG-21
Chrysene			98.4		%		50-140	25-AUG-21
Dibenz(a,h)anthracene			87.6		%		50-140	25-AUG-21
Fluoranthene			94.1		%		50-140	25-AUG-21



**Environmental**

## Quality Control Report

Workorder: L2629752

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Client: Trafalgar Environmental Consultants (Newmarket)

P.O. Box 93316

Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>PAH-511-WT</b>								
<b>Soil</b>								
<b>Batch</b>	<b>R5569080</b>							
<b>WG3602305-4</b>	<b>MS</b>	<b>WG3602305-5</b>						
Fluorene			91.2		%		50-140	25-AUG-21
Indeno(1,2,3-cd)pyrene			89.5		%		50-140	25-AUG-21
Naphthalene			90.3		%		50-140	25-AUG-21
Phenanthrene			92.2		%		50-140	25-AUG-21
Pyrene			93.6		%		50-140	25-AUG-21
<b>PH-WT</b>								
<b>Soil</b>								
<b>Batch</b>	<b>R5565077</b>							
<b>WG3602204-1</b>	<b>DUP</b>	<b>L2629705-10</b>						
pH		8.16	8.22	J	pH units	0.06	0.3	23-AUG-21
<b>WG3602613-1</b>	<b>LCS</b>							
pH			7.00		pH units		6.9-7.1	23-AUG-21
<b>SAR-R511-WT</b>								
<b>Soil</b>								
<b>Batch</b>	<b>R5569614</b>							
<b>WG3603966-4</b>	<b>DUP</b>	<b>WG3603966-3</b>						
Calcium (Ca)		1.76	1.44		mg/L	20	30	25-AUG-21
Sodium (Na)		300	257		mg/L	15	30	25-AUG-21
Magnesium (Mg)		<0.50	<0.50	RPD-NA	mg/L	N/A	30	25-AUG-21
<b>WG3603966-2</b>	<b>IRM</b>	<b>WT SAR4</b>						
Calcium (Ca)			103.7		%		70-130	25-AUG-21
Sodium (Na)			97.0		%		70-130	25-AUG-21
Magnesium (Mg)			106.0		%		70-130	25-AUG-21
<b>WG3603966-5</b>	<b>LCS</b>							
Calcium (Ca)			106.3		%		80-120	25-AUG-21
Sodium (Na)			105.6		%		80-120	25-AUG-21
Magnesium (Mg)			104.4		%		80-120	25-AUG-21
<b>WG3603966-1</b>	<b>MB</b>							
Calcium (Ca)			<0.50		mg/L		0.5	25-AUG-21
Sodium (Na)			<0.50		mg/L		0.5	25-AUG-21
Magnesium (Mg)			<0.50		mg/L		0.5	25-AUG-21
<b>VOC-511-HS-WT</b>								
<b>Soil</b>								
<b>Batch</b>	<b>R5569844</b>							
<b>WG3603678-4</b>	<b>DUP</b>	<b>WG3603678-3</b>						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21



# Quality Control Report

Workorder: L2629752

Report Date: 27-AUG-21

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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>VOC-511-HS-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5569844</b>							
<b>WG3603678-4</b>	<b>DUP</b>	<b>WG3603678-3</b>						
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	25-AUG-21
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	25-AUG-21
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-AUG-21
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	25-AUG-21
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-AUG-21
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	25-AUG-21
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	25-AUG-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	25-AUG-21
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	25-AUG-21
trans-1,2-Dichloroethylene		<0.050	<0.050		ug/g			25-AUG-21

## Quality Control Report

Workorder: L2629752

Report Date: 27-AUG-21

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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>VOC-511-HS-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5569844</b>							
<b>WG3603678-4</b>	<b>DUP</b>	<b>WG3603678-3</b>						
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-AUG-21
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	25-AUG-21
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	25-AUG-21
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	25-AUG-21
<b>WG3603678-2</b>	<b>LCS</b>							
1,1,1,2-Tetrachloroethane			91.5		%		60-130	25-AUG-21
1,1,2,2-Tetrachloroethane			84.1		%		60-130	25-AUG-21
1,1,1-Trichloroethane			93.0		%		60-130	25-AUG-21
1,1,2-Trichloroethane			85.5		%		60-130	25-AUG-21
1,1-Dichloroethane			91.8		%		60-130	25-AUG-21
1,1-Dichloroethylene			90.2		%		60-130	25-AUG-21
1,2-Dibromoethane			83.5		%		70-130	25-AUG-21
1,2-Dichlorobenzene			95.4		%		70-130	25-AUG-21
1,2-Dichloroethane			91.3		%		60-130	25-AUG-21
1,2-Dichloropropane			93.7		%		70-130	25-AUG-21
1,3-Dichlorobenzene			96.5		%		70-130	25-AUG-21
1,4-Dichlorobenzene			96.6		%		70-130	25-AUG-21
Acetone			80.4		%		60-140	25-AUG-21
Benzene			90.5		%		70-130	25-AUG-21
Bromodichloromethane			97.4		%		50-140	25-AUG-21
Bromoform			85.2		%		70-130	25-AUG-21
Bromomethane			86.2		%		50-140	25-AUG-21
Carbon tetrachloride			94.0		%		70-130	25-AUG-21
Chlorobenzene			95.1		%		70-130	25-AUG-21
Chloroform			90.0		%		70-130	25-AUG-21
cis-1,2-Dichloroethylene			90.4		%		70-130	25-AUG-21
cis-1,3-Dichloropropene			87.7		%		70-130	25-AUG-21
Dibromochloromethane			87.5		%		60-130	25-AUG-21
Dichlorodifluoromethane			65.2		%		50-140	25-AUG-21
Ethylbenzene			96.1		%		70-130	25-AUG-21
n-Hexane			89.1		%		70-130	25-AUG-21
Methylene Chloride			84.5		%		70-130	25-AUG-21



## Quality Control Report

Workorder: L2629752

Report Date: 27-AUG-21

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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>VOC-511-HS-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5569844</b>							
<b>WG3603678-2</b>	<b>LCS</b>							
MTBE			93.3		%		70-130	25-AUG-21
m+p-Xylenes			96.7		%		70-130	25-AUG-21
Methyl Ethyl Ketone			81.8		%		60-140	25-AUG-21
Methyl Isobutyl Ketone			81.4		%		60-140	25-AUG-21
o-Xylene			95.8		%		70-130	25-AUG-21
Styrene			95.5		%		70-130	25-AUG-21
Tetrachloroethylene			97.6		%		60-130	25-AUG-21
Toluene			93.2		%		70-130	25-AUG-21
trans-1,2-Dichloroethylene			92.9		%		60-130	25-AUG-21
trans-1,3-Dichloropropene			84.8		%		70-130	25-AUG-21
Trichloroethylene			99.0		%		60-130	25-AUG-21
Trichlorofluoromethane			90.1		%		50-140	25-AUG-21
Vinyl chloride			77.9		%		60-140	25-AUG-21
<b>WG3603678-1</b>	<b>MB</b>							
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	25-AUG-21
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	25-AUG-21
1,1,1-Trichloroethane			<0.050		ug/g		0.05	25-AUG-21
1,1,2-Trichloroethane			<0.050		ug/g		0.05	25-AUG-21
1,1-Dichloroethane			<0.050		ug/g		0.05	25-AUG-21
1,1-Dichloroethylene			<0.050		ug/g		0.05	25-AUG-21
1,2-Dibromoethane			<0.050		ug/g		0.05	25-AUG-21
1,2-Dichlorobenzene			<0.050		ug/g		0.05	25-AUG-21
1,2-Dichloroethane			<0.050		ug/g		0.05	25-AUG-21
1,2-Dichloropropane			<0.050		ug/g		0.05	25-AUG-21
1,3-Dichlorobenzene			<0.050		ug/g		0.05	25-AUG-21
1,4-Dichlorobenzene			<0.050		ug/g		0.05	25-AUG-21
Acetone			<0.50		ug/g		0.5	25-AUG-21
Benzene			<0.0068		ug/g		0.0068	25-AUG-21
Bromodichloromethane			<0.050		ug/g		0.05	25-AUG-21
Bromoform			<0.050		ug/g		0.05	25-AUG-21
Bromomethane			<0.050		ug/g		0.05	25-AUG-21
Carbon tetrachloride			<0.050		ug/g		0.05	25-AUG-21
Chlorobenzene			<0.050		ug/g		0.05	25-AUG-21
Chloroform			<0.050		ug/g		0.05	25-AUG-21



## Quality Control Report

Workorder: L2629752

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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>VOC-511-HS-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5569844</b>							
<b>WG3603678-1 MB</b>								
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	25-AUG-21
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	25-AUG-21
Dibromochloromethane			<0.050		ug/g		0.05	25-AUG-21
Dichlorodifluoromethane			<0.050		ug/g		0.05	25-AUG-21
Ethylbenzene			<0.018		ug/g		0.018	25-AUG-21
n-Hexane			<0.050		ug/g		0.05	25-AUG-21
Methylene Chloride			<0.050		ug/g		0.05	25-AUG-21
MTBE			<0.050		ug/g		0.05	25-AUG-21
m+p-Xylenes			<0.030		ug/g		0.03	25-AUG-21
Methyl Ethyl Ketone			<0.50		ug/g		0.5	25-AUG-21
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	25-AUG-21
o-Xylene			<0.020		ug/g		0.02	25-AUG-21
Styrene			<0.050		ug/g		0.05	25-AUG-21
Tetrachloroethylene			<0.050		ug/g		0.05	25-AUG-21
Toluene			<0.080		ug/g		0.08	25-AUG-21
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	25-AUG-21
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	25-AUG-21
Trichloroethylene			<0.010		ug/g		0.01	25-AUG-21
Trichlorofluoromethane			<0.050		ug/g		0.05	25-AUG-21
Vinyl chloride			<0.020		ug/g		0.02	25-AUG-21
Surrogate: 1,4-Difluorobenzene			112.1		%		50-140	25-AUG-21
Surrogate: 4-Bromofluorobenzene			107.5		%		50-140	25-AUG-21
<b>WG3603678-5 MS</b>		<b>WG3603678-3</b>						
1,1,1,2-Tetrachloroethane			93.4		%		50-140	25-AUG-21
1,1,2,2-Tetrachloroethane			84.0		%		50-140	25-AUG-21
1,1,1-Trichloroethane			96.3		%		50-140	25-AUG-21
1,1,2-Trichloroethane			87.4		%		50-140	25-AUG-21
1,1-Dichloroethane			95.9		%		50-140	25-AUG-21
1,1-Dichloroethylene			96.6		%		50-140	25-AUG-21
1,2-Dibromoethane			84.8		%		50-140	25-AUG-21
1,2-Dichlorobenzene			97.0		%		50-140	25-AUG-21
1,2-Dichloroethane			95.1		%		50-140	25-AUG-21
1,2-Dichloropropane			96.6		%		50-140	25-AUG-21
1,3-Dichlorobenzene			98.9		%		50-140	25-AUG-21



## Quality Control Report

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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>VOC-511-HS-WT</b>		<b>Soil</b>						
<b>Batch</b>	<b>R5569844</b>							
<b>WG3603678-5 MS</b>		<b>WG3603678-3</b>						
1,4-Dichlorobenzene			99.4		%		50-140	25-AUG-21
Acetone			83.1		%		50-140	25-AUG-21
Benzene			93.5		%		50-140	25-AUG-21
Bromodichloromethane			100.5		%		50-140	25-AUG-21
Bromoform			86.1		%		50-140	25-AUG-21
Bromomethane			94.2		%		50-140	25-AUG-21
Carbon tetrachloride			97.8		%		50-140	25-AUG-21
Chlorobenzene			96.5		%		50-140	25-AUG-21
Chloroform			93.1		%		50-140	25-AUG-21
cis-1,2-Dichloroethylene			93.7		%		50-140	25-AUG-21
cis-1,3-Dichloropropene			87.4		%		50-140	25-AUG-21
Dibromochloromethane			89.6		%		50-140	25-AUG-21
Dichlorodifluoromethane			95.0		%		50-140	25-AUG-21
Ethylbenzene			97.7		%		50-140	25-AUG-21
n-Hexane			97.3		%		50-140	25-AUG-21
Methylene Chloride			88.6		%		50-140	25-AUG-21
MTBE			96.4		%		50-140	25-AUG-21
m+p-Xylenes			98.6		%		50-140	25-AUG-21
Methyl Ethyl Ketone			76.8		%		50-140	25-AUG-21
Methyl Isobutyl Ketone			81.8		%		50-140	25-AUG-21
o-Xylene			97.5		%		50-140	25-AUG-21
Styrene			96.6		%		50-140	25-AUG-21
Tetrachloroethylene			99.8		%		50-140	25-AUG-21
Toluene			95.6		%		50-140	25-AUG-21
trans-1,2-Dichloroethylene			96.9		%		50-140	25-AUG-21
trans-1,3-Dichloropropene			83.1		%		50-140	25-AUG-21
Trichloroethylene			102.3		%		50-140	25-AUG-21
Trichlorofluoromethane			99.7		%		50-140	25-AUG-21
Vinyl chloride			89.9		%		50-140	25-AUG-21

# Quality Control Report

Workorder: L2629752

Report Date: 27-AUG-21

Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3  
Contact: Robb Hudson

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## Legend:

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

## Sample Parameter Qualifier Definitions:

---

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-L	Lab Control Sample recovery was below ALS DQO. Reference Material and/or Matrix Spike results were acceptable. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

---

## Hold Time Exceedances:

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

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

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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.

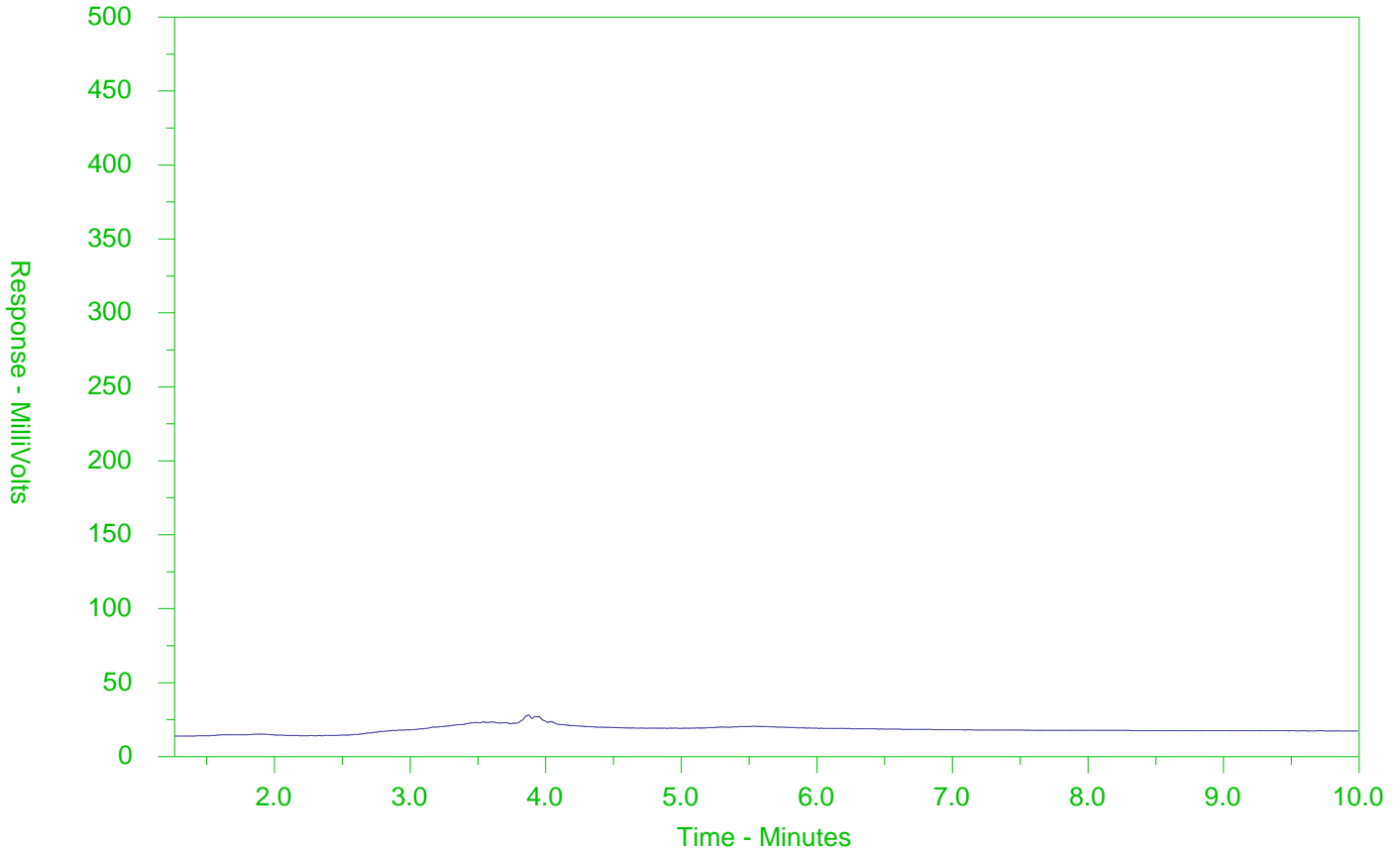
Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2629752-1  
Client Sample ID: 208 0'-5'



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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

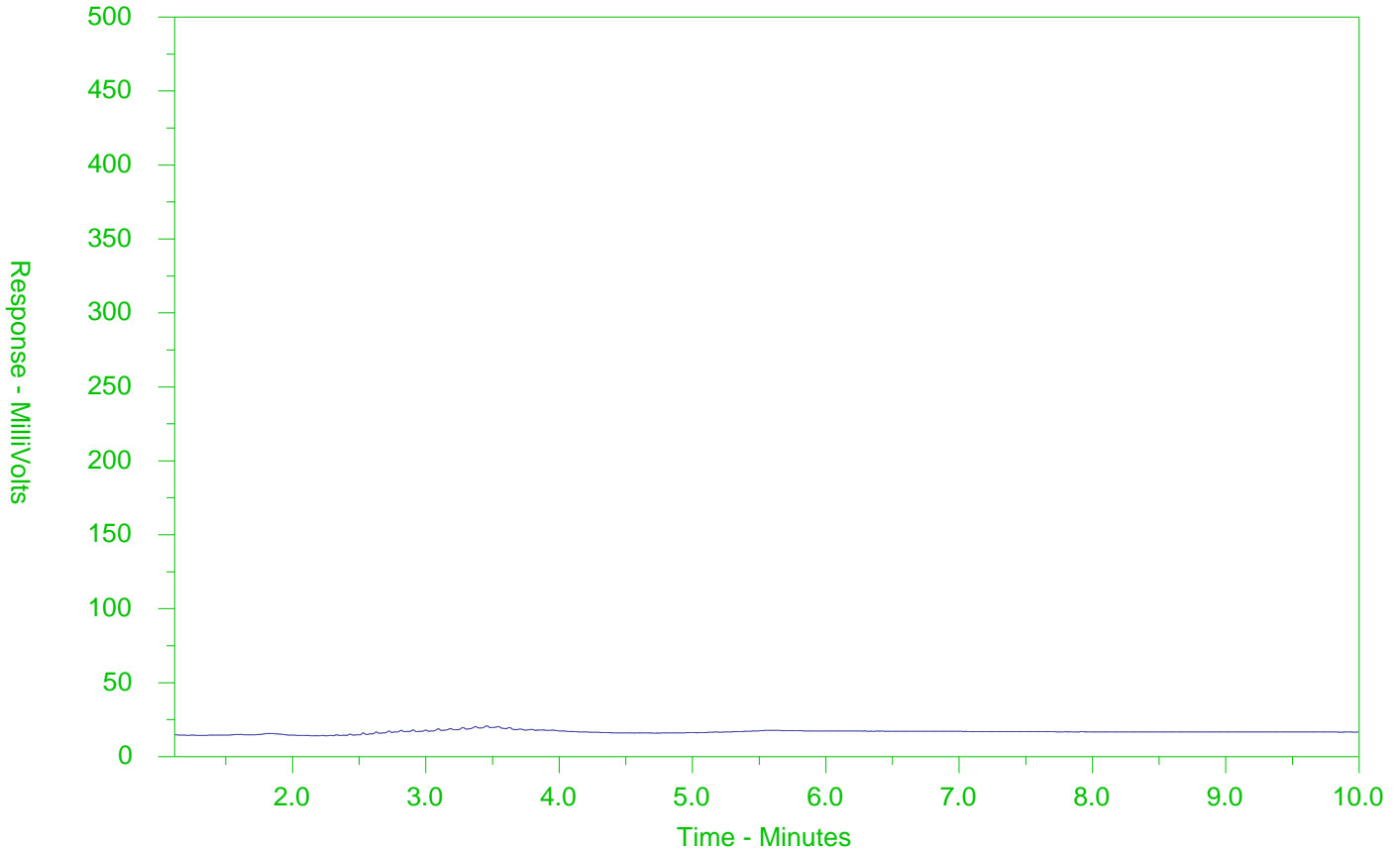
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

**Note:** This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at [www.alsglobal.com](http://www.alsglobal.com).

# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2629752-2  
Client Sample ID: 208 15'-17'



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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

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

**Note:** This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at [www.alsglobal.com](http://www.alsglobal.com).



www.alsglobal.com



L2629752-COFC

Chain of Custody

COC Number: 20 - 891918

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M

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

Company: *TECHNICAL*

Contact: *KEVIN LINDSE*

Phone: *Company address below will appear on the final report*

Street: *Company address below will appear on the final report*

City/Province: *Company address below will appear on the final report*

Postal Code: *Company address below will appear on the final report*

Invoice To: Same as Report To ☐ YES ☐ NO

Copy of Invoice with Report ☐ YES ☐ NO

Company: *Project Information*

Contact: *Project Information*

ALS Account # / Quote #: *KD KD*

Job #: *KD KD*

PO / AFE: *KD KD*

LSD: *KD KD*

ALS Lab Work Order # (ALS use only): *L2629752*

Sample Identification and/or Coordinates (This description will appear on the report): *308 0'-3 20-08-21 15-17*

ALS Sample # (ALS use only): *308 0'-3 20-08-21 15-17*

Reports / Recipients

Select Report Format: ☒ PDF ☐ EXCEL ☐ EDO (DIGITAL)

Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A

Select Distribution: ☐ Compare Results to Criteria on Report - provide details below if box checked

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Email 3: *Technical@alsglobal.com*

Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: *Project Information*

Email 2: *Project Information*

Oil and Gas Required Fields (client use)

A/E/Cost Center: *Project Information*

Major/Minor Code: *Project Information*

Routing Code: *Project Information*

Requisitioner: *Project Information*

Location: *Project Information*

ALS Contact: *AD*

Date (dd-mm-yy): *20-08-21*

Time (hh:mm): *11*

Sampler: *RH*

Sample Type: *308 0'-3 20-08-21 15-17*

turnaround Time (TAT) Requested

☒ Routine (R) If received by 3pm M-F - no surcharges apply

☐ 4 day (F4) If received by 3pm M-F - 20% rush surcharge minimum

☐ 3 day (F3) If received by 3pm M-F - 25% rush surcharge minimum

☐ 2 day (F2) If received by 3pm M-F - 50% rush surcharge minimum

☐ 1 day (F1) If received by 3pm M-F - 100% rush surcharge minimum

☐ Same day (F0) If received by 10am M-F - 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:

For all tests with rush TATs requested, please contact your AM to confirm availability.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

*UOC*

*PICFI-F4*

*PAITS*

*Metals*

*Inorganics*

*308 0'-3 20-08-21 15-17*

*308 0'-3 20-08-21 15-17*

*308 0'-3 20-08-21 15-17*

*308 0'-3 20-08-21 15-17*

*308 0'-3 20-08-21 15-17*

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*308 0'-3 20-08-21 15-17*

*308 0'-3 20-08-21 15-17*

*308 0'-3 20-08-21 15-17*

*308 0'-3 20-08-21 15-17*

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Drinking Water (DW) Samples (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO

Are samples for human consumption use? ☐ YES ☐ NO

SHIPMENT RELEASE (client use)

Released by: *KEVIN LINDSE*

Date: *Aug 20/21*

Time: *14:30*

Received by: *33*

Date: *Aug 20/21*

Time: *14:30*

Received by: *M*

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

*Table 2 ICC Case*

*Table 2 ICC Case*

*Table 2 ICC Case*

*Table 2 ICC Case*

*Table 2 ICC Case*

*Table 2 ICC Case*

*Table 2 ICC Case*

*Table 2 ICC Case*

*Table 2 ICC Case*

*Table 2 ICC Case*

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☒ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C: *16.1*

FINAL COOLER TEMPERATURES °C: *12.7*

SHIPMENT RECEIPT (ALS use only)

Released by: *KEVIN LINDSE*

Date: *Aug 20/21*

Time: *14:30*

Received by: *M*

Date: *Aug 20/21*



Trafalgar Environmental Consultants  
(Newmarket)  
ATTN: Robb Hudson  
P.O. Box 93316  
Newmarket On L3X1A3

Date Received: 24-AUG-21  
Report Date: 31-AUG-21 14:31 (MT)  
Version: FINAL

Client Phone: 416-919-4960

## Certificate of Analysis

Lab Work Order #: L2630993

Project P.O. #: KD

Job Reference: KD

C of C Numbers: 20-892193

Legal Site Desc:

Amanda Overholster  
Account Manager

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# ANALYTICAL REPORT

## Summary of Guideline Exceedances

Guideline		Client ID	Grouping	Analyte	Result	Guideline Limit	Unit
ALS ID							
Ontario Regulation 153/04 - April 15, 2011 Standards - T2-Ground Water (Coarse Soil)-All Types of Property Use							
L2630993-1	BH101		Anions and Nutrients	Chloride (Cl)	808	790	mg/L
L2630993-3	BH103		Anions and Nutrients	Chloride (Cl)	5970	790	mg/L
			Dissolved Metals	Barium (Ba)-Dissolved	5530	1000	ug/L
				Sodium (Na)-Dissolved	1620000	490000	ug/L
L2630993-4	BH104		Anions and Nutrients	Chloride (Cl)	3500	790	mg/L
			Dissolved Metals	Sodium (Na)-Dissolved	1570000	490000	ug/L
Ontario Regulation 153/04 - April 15, 2011 Standards - T2-Ground Water (Fine Soil)-All Types of Property Use							
L2630993-1	BH101		Anions and Nutrients	Chloride (Cl)	808	790	mg/L
L2630993-3	BH103		Anions and Nutrients	Chloride (Cl)	5970	790	mg/L
			Dissolved Metals	Barium (Ba)-Dissolved	5530	1000	ug/L
				Sodium (Na)-Dissolved	1620000	490000	ug/L
L2630993-4	BH104		Anions and Nutrients	Chloride (Cl)	3500	790	mg/L
			Dissolved Metals	Sodium (Na)-Dissolved	1570000	490000	ug/L

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





ANALYTICAL REPORT

Physical Tests - WATER

		Lab ID		L2630993-1	L2630993-2	L2630993-3	L2630993-4	L2630993-5	L2630993-6
Sample Date				24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21
Sample ID				BH101	BH102	BH103	BH104	BH208	BH210
		Guide Limits							
Analyte	Unit	#1	#2						
Conductivity	mS/cm	-	-	3.74	1.33	20.2	9.61	1.11	0.455
pH	pH units	-	-	7.24	7.66	7.45	7.39	7.15	7.98

Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of Property Use  
Guide Limit #2: T2-Ground Water (Fine Soil)-All Types of 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.

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



ANALYTICAL REPORT

Anions and Nutrients - WATER

		Lab ID		L2630993-1	L2630993-2	L2630993-3	L2630993-4	L2630993-5	L2630993-6
		Sample Date		24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21
		Sample ID		BH101	BH102	BH103	BH104	BH208	BH210
Analyte	Unit	Guide Limits							
		#1	#2						
Chloride (Cl)	mg/L	790	790	808 <sup>DLDS</sup>	223 <sup>DLDS</sup>	5970 <sup>DLDS</sup>	3500 <sup>DLDS</sup>	51.9 <sup>DLDS</sup>	23.5

Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of Property Use  
Guide Limit #2: T2-Ground Water (Fine Soil)-All Types of 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.

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



ANALYTICAL REPORT

Cyanides - WATER

Analyte	Unit	Guide Limits		Sample Data						
		#1	#2	Lab ID	Sample Date	Sample ID	Lab ID	Sample Date	Sample ID	Lab ID
				L2630993-1	24-AUG-21	BH101	L2630993-2	24-AUG-21	BH102	L2630993-3
Cyanide, Weak Acid Diss	ug/L	66	66	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of Property Use  
Guide Limit #2: T2-Ground Water (Fine Soil)-All Types of 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.

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



# ANALYTICAL REPORT

## Dissolved Metals - WATER

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2630993-1	L2630993-2	L2630993-3	L2630993-4	L2630993-5	L2630993-6
		#1	#2				24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21
							BH101	BH102	BH103	BH104	BH208	BH210
Dissolved Mercury Filtration Location	-	-		FIELD								
Dissolved Metals Filtration Location	-	-		FIELD								
Antimony (Sb)-Dissolved	ug/L	6	6	<1.0 <sup>DLHC</sup>	0.13	<1.0 <sup>DLHC</sup>	<1.0 <sup>DLHC</sup>	0.12	0.19			
Arsenic (As)-Dissolved	ug/L	25	25	<1.0 <sup>DLHC</sup>	0.42	<1.0 <sup>DLHC</sup>	<1.0 <sup>DLHC</sup>	0.36	0.61			
Barium (Ba)-Dissolved	ug/L	1000	1000	110 <sup>DLHC</sup>	265	5530 <sup>DLHC</sup>	354 <sup>DLHC</sup>	147	113			
Beryllium (Be)-Dissolved	ug/L	4	4	<1.0 <sup>DLHC</sup>	<0.10	<1.0 <sup>DLHC</sup>	<1.0 <sup>DLHC</sup>	<0.10	<0.10			
Boron (B)-Dissolved	ug/L	5000	5000	<100 <sup>DLHC</sup>	26	<100 <sup>DLHC</sup>	<100 <sup>DLHC</sup>	29	53			
Cadmium (Cd)-Dissolved	ug/L	2.7	2.7	<0.050 <sup>DLHC</sup>	<0.010	<0.050 <sup>DLHC</sup>	<0.050 <sup>DLHC</sup>	<0.010	<0.010			
Chromium (Cr)-Dissolved	ug/L	50	50	<5.0 <sup>DLHC</sup>	<0.50	<5.0 <sup>DLHC</sup>	<5.0 <sup>DLHC</sup>	<0.50	<0.50			
Cobalt (Co)-Dissolved	ug/L	3.8	3.8	<1.0 <sup>DLHC</sup>	<0.10	1.6 <sup>DLHC</sup>	<1.0 <sup>DLHC</sup>	<0.10	<0.10			
Copper (Cu)-Dissolved	ug/L	87	87	4.7 <sup>DLHC</sup>	1.15	<2.0 <sup>DLHC</sup>	2.1 <sup>DLHC</sup>	1.30	1.97			
Lead (Pb)-Dissolved	ug/L	10	10	<0.50 <sup>DLHC</sup>	<0.050	<0.50 <sup>DLHC</sup>	<0.50 <sup>DLHC</sup>	<0.050	<0.050			
Mercury (Hg)-Dissolved	ug/L	0.29	1	<0.0050 <sup>DLHC</sup>	<0.0050	<0.0050 <sup>DLHC</sup>	<0.0050 <sup>DLHC</sup>	<0.0050	<0.0050			
Molybdenum (Mo)-Dissolved	ug/L	70	70	4.47 <sup>DLHC</sup>	11.6	11.1 <sup>DLHC</sup>	32.2 <sup>DLHC</sup>	2.34	25.5			
Nickel (Ni)-Dissolved	ug/L	100	100	<5.0 <sup>DLHC</sup>	<0.50	<5.0 <sup>DLHC</sup>	<5.0 <sup>DLHC</sup>	1.07	<0.50			
Selenium (Se)-Dissolved	ug/L	10	10	<0.50 <sup>DLHC</sup>	1.72	<0.50 <sup>DLHC</sup>	0.68 <sup>DLHC</sup>	0.323	0.730			
Silver (Ag)-Dissolved	ug/L	1.5	1.5	<0.50 <sup>DLHC</sup>	<0.050	<0.50 <sup>DLHC</sup>	<0.50 <sup>DLHC</sup>	<0.050	<0.050			
Sodium (Na)-Dissolved	ug/L	490000	490000	370000 <sup>DLHC</sup>	102000 <sup>DLHC</sup>	1620000 <sup>DLHC</sup>	1570000 <sup>DLHC</sup>	72900	113000 <sup>DLHC</sup>			
Thallium (Tl)-Dissolved	ug/L	2	2	0.11 <sup>DLHC</sup>	0.067	<0.10 <sup>DLHC</sup>	0.11 <sup>DLHC</sup>	0.029	0.013			
Uranium (U)-Dissolved	ug/L	20	20	4.56 <sup>DLHC</sup>	3.30	1.74 <sup>DLHC</sup>	4.72 <sup>DLHC</sup>	1.60	1.79			
Vanadium (V)-Dissolved	ug/L	6.2	6.2	<5.0 <sup>DLHC</sup>	0.52	<5.0 <sup>DLHC</sup>	<5.0 <sup>DLHC</sup>	0.57	0.93			
Zinc (Zn)-Dissolved	ug/L	1100	1100	<10 <sup>DLHC</sup>	<1.0	<10 <sup>DLHC</sup>	<10 <sup>DLHC</sup>	1.0	1.2			

**Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of Property Use**

**Guide Limit #2: T2-Ground Water (Fine Soil)-All Types of 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 - WATER

Analyte	Unit	Guide Limits		Lab ID					
		#1	#2	Sample Date					
				Sample ID					
				L2630993-1	L2630993-2	L2630993-3	L2630993-4	L2630993-5	L2630993-6
Chromium, Hexavalent	ug/L	25	25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of Property Use  
Guide Limit #2: T2-Ground Water (Fine Soil)-All Types of 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.

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



# ANALYTICAL REPORT

## Volatile Organic Compounds - WATER

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2630993-1	L2630993-2	L2630993-3	L2630993-4	L2630993-5	L2630993-6
		#1	#2				24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21
							BH101	BH102	BH103	BH104	BH208	BH210
Acetone	ug/L	2700	2700	<30	<30	<30	<30	<30	<30	<30	OWP	<30
Benzene	ug/L	5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.83	OWP	<0.50
Bromodichloromethane	ug/L	16	16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	OWP	<2.0
Bromoform	ug/L	25	25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	OWP	<5.0
Bromomethane	ug/L	0.89	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	OWP	<0.50
Carbon tetrachloride	ug/L	0.79	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	OWP	<0.20
Chlorobenzene	ug/L	30	30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	OWP	<0.50
Dibromochloromethane	ug/L	25	25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	OWP	<2.0
Chloroform	ug/L	2.4	22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	OWP	<1.0
1,2-Dibromoethane	ug/L	0.2	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	OWP	<0.20
1,2-Dichlorobenzene	ug/L	3	3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	OWP	<0.50
1,3-Dichlorobenzene	ug/L	59	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	OWP	<0.50
1,4-Dichlorobenzene	ug/L	1	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	OWP	<0.50
Dichlorodifluoromethane	ug/L	590	590	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	OWP	<2.0
1,1-Dichloroethane	ug/L	5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	OWP	<0.50
1,2-Dichloroethane	ug/L	1.6	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	OWP	<0.50
1,1-Dichloroethylene	ug/L	1.6	14	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	OWP	<0.50
cis-1,2-Dichloroethylene	ug/L	1.6	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	OWP	<0.50
trans-1,2-Dichloroethylene	ug/L	1.6	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	OWP	<0.50
Methylene Chloride	ug/L	50	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	OWP	<5.0
1,2-Dichloropropane	ug/L	5	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	OWP	<0.50
cis-1,3-Dichloropropene	ug/L	-	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	OWP	<0.30
trans-1,3-Dichloropropene	ug/L	-	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	OWP	<0.30
1,3-Dichloropropene (cis & trans)	ug/L	0.5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	OWP	<0.50
Ethylbenzene	ug/L	2.4	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	OWP	<0.50
n-Hexane	ug/L	51	520	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.62	OWP	<0.50
Methyl Ethyl Ketone	ug/L	1800	1800	<20	<20	<20	<20	<20	<20	<20	OWP	<20
Methyl Isobutyl Ketone	ug/L	640	640	<20	<20	<20	<20	<20	<20	<20	OWP	<20
MTBE	ug/L	15	15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	OWP	<2.0
Styrene	ug/L	5.4	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	OWP	<0.50

Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of Property Use

Guide Limit #2: T2-Ground Water (Fine Soil)-All Types of Property Use

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

# ANALYTICAL REPORT

## Volatile Organic Compounds - WATER

Analyte	Unit	Guide Limits		Lab ID	L2630993-1	L2630993-2	L2630993-3	L2630993-4	L2630993-5	L2630993-6
		#1	#2	Sample Date	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21
				Sample ID	BH101	BH102	BH103	BH104	BH208	BH210
1,1,1,2-Tetrachloroethane	ug/L	1.1	1.1		<0.50	<0.50	<0.50	<0.50	<0.50 <sup>OWP</sup>	<0.50
1,1,2,2-Tetrachloroethane	ug/L	1	1		<0.50	<0.50	<0.50	<0.50	<0.50 <sup>OWP</sup>	<0.50
Tetrachloroethylene	ug/L	1.6	17		<0.50	<0.50	<0.50	<0.50	<0.50 <sup>OWP</sup>	<0.50
Toluene	ug/L	24	24		<0.50	<0.50	<0.50	<0.50	1.55 <sup>OWP</sup>	<0.50
1,1,1-Trichloroethane	ug/L	200	200		<0.50	<0.50	<0.50	<0.50	<0.50 <sup>OWP</sup>	<0.50
1,1,2-Trichloroethane	ug/L	4.7	5		<0.50	<0.50	<0.50	<0.50	<0.50 <sup>OWP</sup>	<0.50
Trichloroethylene	ug/L	1.6	5		<0.50	<0.50	<0.50	<0.50	<0.50 <sup>OWP</sup>	<0.50
Trichlorofluoromethane	ug/L	150	150		<5.0	<5.0	<5.0	<5.0	<5.0 <sup>OWP</sup>	<5.0
Vinyl chloride	ug/L	0.5	1.7		<0.50	<0.50	<0.50	<0.50	<0.50 <sup>OWP</sup>	<0.50
o-Xylene	ug/L	-	-		<0.30	<0.30	<0.30	<0.30	0.30 <sup>OWP</sup>	<0.30
m+p-Xylenes	ug/L	-	-		<0.40	<0.40	<0.40	<0.40	0.87 <sup>OWP</sup>	<0.40
Xylenes (Total)	ug/L	300	300		<0.50	<0.50	<0.50	<0.50	1.17	<0.50
Surrogate: 4-Bromofluorobenzene	%	-	-		77.4	79.1	75.8	75.3	74.5	74.8
Surrogate: 1,4-Difluorobenzene	%	-	-		92.3	92.3	95.0	95.9	97.5	96.3

**Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of Property Use**

**Guide Limit #2: T2-Ground Water (Fine Soil)-All Types of 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 - WATER

Analyte	Unit	Guide Limits		Lab ID	L2630993-1	L2630993-2	L2630993-3	L2630993-4	L2630993-5	L2630993-6
		#1	#2	Sample Date	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21
				Sample ID	BH101	BH102	BH103	BH104	BH208	BH210
F1 (C6-C10)	ug/L	750	750		<25	<25	<25	<25	<25 <sup>OWP</sup>	<25
F1-BTEX	ug/L	750	750		<25	<25	<25	<25	<25	<25
F2 (C10-C16)	ug/L	150	150		<100	<100	<100	<100	<100	<100
F2-Naphth	ug/L	-	-		<100	<100	<100	<100	<100	<100
F3 (C16-C34)	ug/L	500	500		<250	<250	<250	<250	<250	<250
F3-PAH	ug/L	-	-		<250	<250	<250	<250	<250	<250
F4 (C34-C50)	ug/L	500	500		<250	<250	<250	<250	<250	<250
Total Hydrocarbons (C6-C50)	ug/L	-	-		<370	<370	<370	<370	<370	<370
Chrom. to baseline at nC50		-	-		YES	YES	YES	YES	YES	YES
Surrogate: 2-Bromobenzotrifluoride	%	-	-		82.4	82.8	78.9	78.0	78.0	78.9
Surrogate: 3,4-Dichlorotoluene	%	-	-		86.2	92.5	95.8	91.8	80.3	97.1

**Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of Property Use**

**Guide Limit #2: T2-Ground Water (Fine Soil)-All Types of 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

## Polycyclic Aromatic Hydrocarbons - WATER

Analyte	Unit	Guide Limits		Lab ID	L2630993-1	L2630993-2	L2630993-3	L2630993-4	L2630993-5	L2630993-6
		#1	#2	Sample Date	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21	24-AUG-21
				Sample ID	BH101	BH102	BH103	BH104	BH208	BH210
Acenaphthene	ug/L	4.1	4.1		<0.020	0.053 <sup>R</sup>	0.021 <sup>R</sup>	0.061 <sup>R</sup>	<0.020	0.025 <sup>R</sup>
Acenaphthylene	ug/L	1	1		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Anthracene	ug/L	2.4	2.4		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)anthracene	ug/L	1	1		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)pyrene	ug/L	0.01	0.01		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(b&j)fluoranthene	ug/L	0.1	0.1		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(g,h,i)perylene	ug/L	0.2	0.2		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(k)fluoranthene	ug/L	0.1	0.1		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chrysene	ug/L	0.1	0.1		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Dibenz(a,h)anthracene	ug/L	0.2	0.2		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluoranthene	ug/L	0.41	0.41		0.043	<0.020	<0.020	0.026	<0.020	<0.020
Fluorene	ug/L	120	120		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Indeno(1,2,3-cd)pyrene	ug/L	0.2	0.2		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1+2-Methylnaphthalenes	ug/L	3.2	3.2		<0.028	<0.028	<0.028	<0.028	0.100	<0.028
1-Methylnaphthalene	ug/L	3.2	3.2		<0.020	<0.020	<0.020	0.026	0.051	<0.020
2-Methylnaphthalene	ug/L	3.2	3.2		<0.020	<0.020	<0.020	<0.020	0.049	<0.020
Naphthalene	ug/L	11	11		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	ug/L	1	1		<0.020	0.020	<0.020	<0.020	<0.020	<0.020
Pyrene	ug/L	4.1	4.1		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Surrogate: Chrysene d12	%	-	-		98.2	97.1	93.5	104.6	98.2	105.0
Surrogate: Naphthalene d8	%	-	-		101.0	109.8	105.1	104.5	104.2	114.3
Surrogate: Phenanthrene d10	%	-	-		99.3	100.3	94.2	101.0	98.3	105.8

**Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of Property Use**

**Guide Limit #2: T2-Ground Water (Fine Soil)-All Types of 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

Polychlorinated Biphenyls - WATER

		Lab ID		L2630993-3	L2630993-4	L2630993-6
		Sample Date		24-AUG-21	24-AUG-21	24-AUG-21
		Sample ID		BH103	BH104	BH210
Analyte	Unit	Guide Limits				
		#1	#2			
Aroclor 1242	ug/L	-	-	<0.020	<0.020	<0.020
Aroclor 1248	ug/L	-	-	<0.020	<0.020	<0.020
Aroclor 1254	ug/L	-	-	<0.020	<0.020	<0.020
Aroclor 1260	ug/L	-	-	<0.020	<0.020	<0.020
Surrogate: Decachlorobiphenyl	%	-	-	75.8	91.7	98.5
Total PCBs	ug/L	3	3	<0.040	<0.040	<0.040
Surrogate: Tetrachloro-m-xylene	%	-	-	90.4	92.8	89.8

Guide Limit #1: T2-Ground Water (Coarse Soil)-All Types of Property Use  
Guide Limit #2: T2-Ground Water (Fine Soil)-All Types of 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.

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

## Reference Information

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### Qualifiers for Individual Parameters Listed:

Qualifier	Description
R	The ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
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

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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)

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

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

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

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

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

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

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Job Reference: KD  
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## 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.

<b>F1-HS-511-WT</b>	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).

<b>F2-F4-511-WT</b>	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).

<b>HG-D-UG/L-CVAA-WT</b>	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).

<b>MET-D-UG/L-MS-WT</b>	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).

<b>METHYLNAPS-CALC-WT</b>	Water	PAH-Calculated Parameters	SW846 8270
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<b>PAH-511-WT</b>	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).

<b>PCB-511-WT</b>	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

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## 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).

<b>PH-WT</b>	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

<b>VOC-1,3-DCP-CALC-WT</b>	Water	Regulation 153 VOCs	SW8260B/SW8270C
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<b>VOC-511-HS-WT</b>	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).

<b>XYLENES-SUM-CALC-WT</b>	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:

20-892193

*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

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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 ww - 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.*



**Environmental**

## Quality Control Report

Workorder: L2630993

Report Date: 31-AUG-21

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Client: Trafalgar Environmental Consultants (Newmarket)

P.O. Box 93316

Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>CL-IC-N-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5569979</b>							
<b>WG3604439-4</b>	<b>DUP</b>	<b>WG3604439-3</b>						
Chloride (Cl)		23.5	23.5		mg/L	0.0	20	25-AUG-21
<b>WG3604439-2</b>	<b>LCS</b>							
Chloride (Cl)			101.5		%		90-110	25-AUG-21
<b>WG3604439-1</b>	<b>MB</b>							
Chloride (Cl)			<0.50		mg/L		0.5	25-AUG-21
<b>WG3604439-5</b>	<b>MS</b>	<b>WG3604439-3</b>						
Chloride (Cl)			101.3		%		75-125	25-AUG-21
<b>CN-WAD-R511-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5570320</b>							
<b>WG3605311-9</b>	<b>DUP</b>	<b>WG3605311-8</b>						
Cyanide, Weak Acid Diss		<2.0	<2.0	RPD-NA	ug/L	N/A	20	26-AUG-21
<b>WG3605311-7</b>	<b>LCS</b>							
Cyanide, Weak Acid Diss			96.3		%		80-120	26-AUG-21
<b>WG3605311-6</b>	<b>MB</b>							
Cyanide, Weak Acid Diss			<2.0		ug/L		2	26-AUG-21
<b>WG3605311-10</b>	<b>MS</b>	<b>WG3605311-8</b>						
Cyanide, Weak Acid Diss			103.2		%		75-125	26-AUG-21
<b>CR-CR6-IC-R511-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5570041</b>							
<b>WG3604715-4</b>	<b>DUP</b>	<b>WG3604715-3</b>						
Chromium, Hexavalent		<0.50	<0.50	RPD-NA	ug/L	N/A	20	25-AUG-21
<b>WG3604715-2</b>	<b>LCS</b>							
Chromium, Hexavalent			94.7		%		80-120	25-AUG-21
<b>WG3604715-1</b>	<b>MB</b>							
Chromium, Hexavalent			<0.50		ug/L		0.5	25-AUG-21
<b>WG3604715-5</b>	<b>MS</b>	<b>WG3604715-3</b>						
Chromium, Hexavalent			92.7		%		70-130	25-AUG-21
<b>Batch</b>	<b>R5571017</b>							
<b>WG3605662-4</b>	<b>DUP</b>	<b>WG3605662-3</b>						
Chromium, Hexavalent		<0.50	<0.50	RPD-NA	ug/L	N/A	20	26-AUG-21
<b>WG3605662-2</b>	<b>LCS</b>							
Chromium, Hexavalent			95.4		%		80-120	26-AUG-21
<b>WG3605662-1</b>	<b>MB</b>							
Chromium, Hexavalent			<0.50		ug/L		0.5	26-AUG-21
<b>WG3605662-5</b>	<b>MS</b>	<b>WG3605662-3</b>						
Chromium, Hexavalent			96.0		%		70-130	26-AUG-21



## Quality Control Report

Workorder: L2630993

Report Date: 31-AUG-21

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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>EC-R511-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5570137</b>							
<b>WG3604091-4</b>	<b>DUP</b>	<b>WG3604091-3</b>						
Conductivity		1.12	1.16		mS/cm	3.5	10	25-AUG-21
<b>WG3604091-2</b>	<b>LCS</b>							
Conductivity			98.6		%		90-110	25-AUG-21
<b>WG3604091-1</b>	<b>MB</b>							
Conductivity			<0.0060		mS/cm		0.006	25-AUG-21
<b>F1-HS-511-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5570244</b>							
<b>WG3604949-4</b>	<b>DUP</b>	<b>WG3604949-3</b>						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	26-AUG-21
<b>WG3604949-1</b>	<b>LCS</b>							
F1 (C6-C10)			118.4		%		80-120	26-AUG-21
<b>WG3604949-2</b>	<b>MB</b>							
F1 (C6-C10)			<25		ug/L		25	26-AUG-21
Surrogate: 3,4-Dichlorotoluene			99.3		%		60-140	26-AUG-21
<b>WG3604949-5</b>	<b>MS</b>	<b>WG3604949-3</b>						
F1 (C6-C10)			98.0		%		60-140	26-AUG-21
<b>F2-F4-511-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5569898</b>							
<b>WG3603937-2</b>	<b>LCS</b>							
F2 (C10-C16)			96.2		%		70-130	25-AUG-21
F3 (C16-C34)			100.3		%		70-130	25-AUG-21
F4 (C34-C50)			96.9		%		70-130	25-AUG-21
<b>WG3603937-1</b>	<b>MB</b>							
F2 (C10-C16)			<100		ug/L		100	25-AUG-21
F3 (C16-C34)			<250		ug/L		250	25-AUG-21
F4 (C34-C50)			<250		ug/L		250	25-AUG-21
Surrogate: 2-Bromobenzotrifluoride			75.5		%		60-140	25-AUG-21
<b>HG-D-UG/L-CVAA-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5571068</b>							
<b>WG3605736-4</b>	<b>DUP</b>	<b>WG3605736-3</b>						
Mercury (Hg)-Dissolved		<0.0050	<0.0050	RPD-NA	ug/L	N/A	20	27-AUG-21
<b>WG3605736-2</b>	<b>LCS</b>							
Mercury (Hg)-Dissolved			97.2		%		80-120	27-AUG-21
<b>WG3605736-1</b>	<b>MB</b>							
Mercury (Hg)-Dissolved			<0.0050		ug/L		0.005	27-AUG-21
<b>WG3605736-6</b>	<b>MS</b>	<b>WG3605736-5</b>						



**Environmental**

## Quality Control Report

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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>HG-D-UG/L-CVAA-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5571068</b>							
<b>WG3605736-6 MS</b>		<b>WG3605736-5</b>						
Mercury (Hg)-Dissolved			100.0		%		70-130	27-AUG-21
<b>MET-D-UG/L-MS-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5569486</b>							
<b>WG3603975-4 DUP</b>		<b>WG3603975-3</b>						
Antimony (Sb)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	25-AUG-21
Arsenic (As)-Dissolved		0.69	0.68		ug/L	0.4	20	25-AUG-21
Barium (Ba)-Dissolved		18.8	18.6		ug/L	1.1	20	25-AUG-21
Beryllium (Be)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	25-AUG-21
Boron (B)-Dissolved		19	19		ug/L	1.5	20	25-AUG-21
Cadmium (Cd)-Dissolved		<0.0050	<0.0050	RPD-NA	ug/L	N/A	20	25-AUG-21
Chromium (Cr)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	25-AUG-21
Cobalt (Co)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	25-AUG-21
Copper (Cu)-Dissolved		0.51	0.51		ug/L	1.0	20	25-AUG-21
Lead (Pb)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	25-AUG-21
Molybdenum (Mo)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	25-AUG-21
Nickel (Ni)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	25-AUG-21
Selenium (Se)-Dissolved		0.062	0.060		ug/L	3.3	20	25-AUG-21
Silver (Ag)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	25-AUG-21
Sodium (Na)-Dissolved		1870	1830		ug/L	1.9	20	25-AUG-21
Thallium (Tl)-Dissolved		<0.010	<0.010	RPD-NA	ug/L	N/A	20	25-AUG-21
Uranium (U)-Dissolved		<0.010	<0.010	RPD-NA	ug/L	N/A	20	25-AUG-21
Vanadium (V)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	25-AUG-21
Zinc (Zn)-Dissolved		6.0	5.9		ug/L	1.9	20	25-AUG-21
<b>WG3603975-2 LCS</b>								
Antimony (Sb)-Dissolved			100.6		%		80-120	25-AUG-21
Arsenic (As)-Dissolved			98.2		%		80-120	25-AUG-21
Barium (Ba)-Dissolved			93.1		%		80-120	25-AUG-21
Beryllium (Be)-Dissolved			102.3		%		80-120	25-AUG-21
Boron (B)-Dissolved			97.3		%		80-120	25-AUG-21
Cadmium (Cd)-Dissolved			90.2		%		80-120	25-AUG-21
Chromium (Cr)-Dissolved			92.8		%		80-120	25-AUG-21
Cobalt (Co)-Dissolved			93.9		%		80-120	25-AUG-21
Copper (Cu)-Dissolved			92.8				80-120	



**Environmental**

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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT		Water						
Batch	R5569486							
WG3603975-2		LCS						
Copper (Cu)-Dissolved			92.8		%		80-120	25-AUG-21
Lead (Pb)-Dissolved			95.9		%		80-120	25-AUG-21
Molybdenum (Mo)-Dissolved			101.2		%		80-120	25-AUG-21
Nickel (Ni)-Dissolved			93.0		%		80-120	25-AUG-21
Selenium (Se)-Dissolved			96.8		%		80-120	25-AUG-21
Silver (Ag)-Dissolved			97.4		%		80-120	25-AUG-21
Sodium (Na)-Dissolved			96.6		%		80-120	25-AUG-21
Thallium (Tl)-Dissolved			96.7		%		80-120	25-AUG-21
Uranium (U)-Dissolved			97.6		%		80-120	25-AUG-21
Vanadium (V)-Dissolved			94.9		%		80-120	25-AUG-21
Zinc (Zn)-Dissolved			91.6		%		80-120	25-AUG-21
WG3603975-1		MB						
Antimony (Sb)-Dissolved			<0.10		ug/L		0.1	25-AUG-21
Arsenic (As)-Dissolved			<0.10		ug/L		0.1	25-AUG-21
Barium (Ba)-Dissolved			<0.10		ug/L		0.1	25-AUG-21
Beryllium (Be)-Dissolved			<0.10		ug/L		0.1	25-AUG-21
Boron (B)-Dissolved			<10		ug/L		10	25-AUG-21
Cadmium (Cd)-Dissolved			<0.0050		ug/L		0.005	25-AUG-21
Chromium (Cr)-Dissolved			<0.50		ug/L		0.5	25-AUG-21
Cobalt (Co)-Dissolved			<0.10		ug/L		0.1	25-AUG-21
Copper (Cu)-Dissolved			<0.20		ug/L		0.2	25-AUG-21
Lead (Pb)-Dissolved			<0.050		ug/L		0.05	25-AUG-21
Molybdenum (Mo)-Dissolved			<0.050		ug/L		0.05	25-AUG-21
Nickel (Ni)-Dissolved			<0.50		ug/L		0.5	25-AUG-21
Selenium (Se)-Dissolved			<0.050		ug/L		0.05	25-AUG-21
Silver (Ag)-Dissolved			<0.050		ug/L		0.05	25-AUG-21
Sodium (Na)-Dissolved			<50		ug/L		50	25-AUG-21
Thallium (Tl)-Dissolved			<0.010		ug/L		0.01	25-AUG-21
Uranium (U)-Dissolved			<0.010		ug/L		0.01	25-AUG-21
Vanadium (V)-Dissolved			<0.50		ug/L		0.5	25-AUG-21
Zinc (Zn)-Dissolved			<1.0		ug/L		1	25-AUG-21
WG3603975-5		MS	WG3603975-6					
Antimony (Sb)-Dissolved			104.1		%		70-130	25-AUG-21
Arsenic (As)-Dissolved			102.5		%		70-130	25-AUG-21



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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-UG/L-MS-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5569486</b>							
<b>WG3603975-5 MS</b>		<b>WG3603975-6</b>						
Barium (Ba)-Dissolved			N/A	MS-B	%		-	25-AUG-21
Beryllium (Be)-Dissolved			101.1		%		70-130	25-AUG-21
Boron (B)-Dissolved			N/A	MS-B	%		-	25-AUG-21
Cadmium (Cd)-Dissolved			87.8		%		70-130	25-AUG-21
Chromium (Cr)-Dissolved			93.2		%		70-130	25-AUG-21
Cobalt (Co)-Dissolved			91.1		%		70-130	25-AUG-21
Copper (Cu)-Dissolved			88.4		%		70-130	25-AUG-21
Lead (Pb)-Dissolved			91.6		%		70-130	25-AUG-21
Molybdenum (Mo)-Dissolved			100.4		%		70-130	25-AUG-21
Nickel (Ni)-Dissolved			89.6		%		70-130	25-AUG-21
Selenium (Se)-Dissolved			109.9		%		70-130	25-AUG-21
Silver (Ag)-Dissolved			85.8		%		70-130	25-AUG-21
Sodium (Na)-Dissolved			N/A	MS-B	%		-	25-AUG-21
Thallium (Tl)-Dissolved			93.2		%		70-130	25-AUG-21
Uranium (U)-Dissolved			N/A	MS-B	%		-	25-AUG-21
Vanadium (V)-Dissolved			96.2		%		70-130	25-AUG-21
Zinc (Zn)-Dissolved			88.8		%		70-130	25-AUG-21
<b>PAH-511-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5570142</b>							
<b>WG3603937-2 LCS</b>								
1-Methylnaphthalene			89.4		%		50-140	26-AUG-21
2-Methylnaphthalene			86.3		%		50-140	26-AUG-21
Acenaphthene			87.4		%		60-130	26-AUG-21
Acenaphthylene			87.5		%		60-130	26-AUG-21
Anthracene			78.2		%		50-140	26-AUG-21
Benzo(a)anthracene			94.9		%		60-140	26-AUG-21
Benzo(a)pyrene			81.9		%		50-140	26-AUG-21
Benzo(b&j)fluoranthene			83.0		%		60-130	26-AUG-21
Benzo(g,h,i)perylene			99.2		%		50-140	26-AUG-21
Benzo(k)fluoranthene			90.0		%		50-140	26-AUG-21
Chrysene			90.5		%		60-140	26-AUG-21
Dibenz(a,h)anthracene			93.8		%		50-140	26-AUG-21
Fluoranthene			88.7		%		60-140	26-AUG-21
Fluorene			90.9		%		60-130	

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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT		Water						
Batch	R5570142							
WG3603937-2		LCS						
Fluorene			90.9		%		60-130	26-AUG-21
Indeno(1,2,3-cd)pyrene			100.7		%		50-140	26-AUG-21
Naphthalene			80.8		%		50-130	26-AUG-21
Phenanthrene			90.3		%		60-140	26-AUG-21
Pyrene			88.4		%		60-140	26-AUG-21
WG3603937-1		MB						
1-Methylnaphthalene			<0.020		ug/L		0.02	26-AUG-21
2-Methylnaphthalene			<0.020		ug/L		0.02	26-AUG-21
Acenaphthene			<0.020		ug/L		0.02	26-AUG-21
Acenaphthylene			<0.020		ug/L		0.02	26-AUG-21
Anthracene			<0.020		ug/L		0.02	26-AUG-21
Benzo(a)anthracene			<0.020		ug/L		0.02	26-AUG-21
Benzo(a)pyrene			<0.010		ug/L		0.01	26-AUG-21
Benzo(b&j)fluoranthene			<0.020		ug/L		0.02	26-AUG-21
Benzo(g,h,i)perylene			<0.020		ug/L		0.02	26-AUG-21
Benzo(k)fluoranthene			<0.020		ug/L		0.02	26-AUG-21
Chrysene			<0.020		ug/L		0.02	26-AUG-21
Dibenz(a,h)anthracene			<0.020		ug/L		0.02	26-AUG-21
Fluoranthene			<0.020		ug/L		0.02	26-AUG-21
Fluorene			<0.020		ug/L		0.02	26-AUG-21
Indeno(1,2,3-cd)pyrene			<0.020		ug/L		0.02	26-AUG-21
Naphthalene			<0.050		ug/L		0.05	26-AUG-21
Phenanthrene			<0.020		ug/L		0.02	26-AUG-21
Pyrene			<0.020		ug/L		0.02	26-AUG-21
Surrogate: Naphthalene d8			94.5		%		60-140	26-AUG-21
Surrogate: Phenanthrene d10			94.8		%		60-140	26-AUG-21
Surrogate: Chrysene d12			91.2		%		50-150	26-AUG-21
PCB-511-WT		Water						
Batch	R5569885							
WG3603585-2		LCS						
Aroclor 1242			104.8		%		60-140	25-AUG-21
Aroclor 1248			90.4		%		60-140	25-AUG-21
Aroclor 1254			96.0		%		60-140	25-AUG-21
Aroclor 1260			108.4		%		60-140	25-AUG-21



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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>PCB-511-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5569885</b>							
<b>WG3603585-1 MB</b>								
Aroclor 1242			<0.020		ug/L		0.02	25-AUG-21
Aroclor 1248			<0.020		ug/L		0.02	25-AUG-21
Aroclor 1254			<0.020		ug/L		0.02	25-AUG-21
Aroclor 1260			<0.020		ug/L		0.02	25-AUG-21
Surrogate: Decachlorobiphenyl			93.2		%		50-150	25-AUG-21
Surrogate: Tetrachloro-m-xylene			99.0		%		50-150	25-AUG-21
<b>PH-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5570137</b>							
<b>WG3604091-4 DUP</b>		<b>WG3604091-3</b>						
pH		11.38	11.35	J	pH units	0.03	0.2	25-AUG-21
<b>WG3604091-2 LCS</b>								
pH			6.99		pH units		6.9-7.1	25-AUG-21
<b>VOC-511-HS-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5570244</b>							
<b>WG3604949-4 DUP</b>		<b>WG3604949-3</b>						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	26-AUG-21
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	26-AUG-21
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	26-AUG-21
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	26-AUG-21
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	26-AUG-21



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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>VOC-511-HS-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5570244</b>							
<b>WG3604949-4</b>	<b>DUP</b>	<b>WG3604949-3</b>						
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	26-AUG-21
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	26-AUG-21
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	26-AUG-21
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	26-AUG-21
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	26-AUG-21
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	26-AUG-21
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	26-AUG-21
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	26-AUG-21
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	26-AUG-21
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	26-AUG-21
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	26-AUG-21
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	26-AUG-21
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	26-AUG-21
<b>WG3604949-1</b>	<b>LCS</b>							
1,1,1,2-Tetrachloroethane			90.6		%		70-130	26-AUG-21
1,1,2,2-Tetrachloroethane			97.9		%		70-130	26-AUG-21
1,1,1-Trichloroethane			107.7		%		70-130	26-AUG-21
1,1,2-Trichloroethane			97.3		%		70-130	26-AUG-21
1,1-Dichloroethane			81.5		%		70-130	26-AUG-21
1,1-Dichloroethylene			111.6		%		70-130	26-AUG-21
1,2-Dibromoethane			88.8		%		70-130	26-AUG-21
1,2-Dichlorobenzene			95.8		%		70-130	26-AUG-21
1,2-Dichloroethane			105.9		%		70-130	26-AUG-21
1,2-Dichloropropane			106.1		%		70-130	26-AUG-21



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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>VOC-511-HS-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5570244</b>							
<b>WG3604949-1</b>	<b>LCS</b>							
1,3-Dichlorobenzene			102.4		%		70-130	26-AUG-21
1,4-Dichlorobenzene			111.8		%		70-130	26-AUG-21
Acetone			112.6		%		60-140	26-AUG-21
Benzene			102.3		%		70-130	26-AUG-21
Bromodichloromethane			117.3		%		70-130	26-AUG-21
Bromoform			87.9		%		70-130	26-AUG-21
Bromomethane			95.0		%		60-140	26-AUG-21
Carbon tetrachloride			105.5		%		70-130	26-AUG-21
Chlorobenzene			96.0		%		70-130	26-AUG-21
Chloroform			111.0		%		70-130	26-AUG-21
cis-1,2-Dichloroethylene			103.4		%		70-130	26-AUG-21
cis-1,3-Dichloropropene			107.7		%		70-130	26-AUG-21
Dibromochloromethane			95.3		%		70-130	26-AUG-21
Dichlorodifluoromethane			58.7		%		50-140	26-AUG-21
Ethylbenzene			101.7		%		70-130	26-AUG-21
n-Hexane			110.9		%		70-130	26-AUG-21
m+p-Xylenes			104.6		%		70-130	26-AUG-21
Methyl Ethyl Ketone			104.8		%		60-140	26-AUG-21
Methyl Isobutyl Ketone			96.9		%		60-140	26-AUG-21
Methylene Chloride			107.9		%		70-130	26-AUG-21
MTBE			97.9		%		70-130	26-AUG-21
o-Xylene			99.3		%		70-130	26-AUG-21
Styrene			98.7		%		70-130	26-AUG-21
Tetrachloroethylene			101.3		%		70-130	26-AUG-21
Toluene			99.7		%		70-130	26-AUG-21
trans-1,2-Dichloroethylene			115.9		%		70-130	26-AUG-21
trans-1,3-Dichloropropene			103.5		%		70-130	26-AUG-21
Trichloroethylene			99.7		%		70-130	26-AUG-21
Trichlorofluoromethane			100.7		%		60-140	26-AUG-21
Vinyl chloride			81.3		%		60-140	26-AUG-21
<b>WG3604949-2</b>	<b>MB</b>							
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	26-AUG-21
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	26-AUG-21
1,1,1-Trichloroethane			<0.50		ug/L		0.5	26-AUG-21



## Quality Control Report

Workorder: L2630993

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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Water						
Batch	R5570244							
WG3604949-2	MB							
1,1,2-Trichloroethane			<0.50		ug/L		0.5	26-AUG-21
1,1-Dichloroethane			<0.50		ug/L		0.5	26-AUG-21
1,1-Dichloroethylene			<0.50		ug/L		0.5	26-AUG-21
1,2-Dibromoethane			<0.20		ug/L		0.2	26-AUG-21
1,2-Dichlorobenzene			<0.50		ug/L		0.5	26-AUG-21
1,2-Dichloroethane			<0.50		ug/L		0.5	26-AUG-21
1,2-Dichloropropane			<0.50		ug/L		0.5	26-AUG-21
1,3-Dichlorobenzene			<0.50		ug/L		0.5	26-AUG-21
1,4-Dichlorobenzene			<0.50		ug/L		0.5	26-AUG-21
Acetone			<30		ug/L		30	26-AUG-21
Benzene			<0.50		ug/L		0.5	26-AUG-21
Bromodichloromethane			<2.0		ug/L		2	26-AUG-21
Bromoform			<5.0		ug/L		5	26-AUG-21
Bromomethane			<0.50		ug/L		0.5	26-AUG-21
Carbon tetrachloride			<0.20		ug/L		0.2	26-AUG-21
Chlorobenzene			<0.50		ug/L		0.5	26-AUG-21
Chloroform			<1.0		ug/L		1	26-AUG-21
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	26-AUG-21
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	26-AUG-21
Dibromochloromethane			<2.0		ug/L		2	26-AUG-21
Dichlorodifluoromethane			<2.0		ug/L		2	26-AUG-21
Ethylbenzene			<0.50		ug/L		0.5	26-AUG-21
n-Hexane			<0.50		ug/L		0.5	26-AUG-21
m+p-Xylenes			<0.40		ug/L		0.4	26-AUG-21
Methyl Ethyl Ketone			<20		ug/L		20	26-AUG-21
Methyl Isobutyl Ketone			<20		ug/L		20	26-AUG-21
Methylene Chloride			<5.0		ug/L		5	26-AUG-21
MTBE			<2.0		ug/L		2	26-AUG-21
o-Xylene			<0.30		ug/L		0.3	26-AUG-21
Styrene			<0.50		ug/L		0.5	26-AUG-21
Tetrachloroethylene			<0.50		ug/L		0.5	26-AUG-21
Toluene			<0.50		ug/L		0.5	26-AUG-21
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	26-AUG-21



## Quality Control Report

Workorder: L2630993

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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>VOC-511-HS-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5570244</b>							
<b>WG3604949-2 MB</b>								
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	26-AUG-21
Trichloroethylene			<0.50		ug/L		0.5	26-AUG-21
Trichlorofluoromethane			<5.0		ug/L		5	26-AUG-21
Vinyl chloride			<0.50		ug/L		0.5	26-AUG-21
Surrogate: 1,4-Difluorobenzene			100.5		%		70-130	26-AUG-21
Surrogate: 4-Bromofluorobenzene			71.4		%		70-130	26-AUG-21
<b>WG3604949-5 MS</b>		<b>WG3604949-3</b>						
1,1,1,2-Tetrachloroethane			92.0		%		50-140	26-AUG-21
1,1,2,2-Tetrachloroethane			97.3		%		50-140	26-AUG-21
1,1,1-Trichloroethane			105.4		%		50-140	26-AUG-21
1,1,2-Trichloroethane			101.0		%		50-140	26-AUG-21
1,1-Dichloroethane			112.2		%		50-140	26-AUG-21
1,1-Dichloroethylene			107.7		%		50-140	26-AUG-21
1,2-Dibromoethane			92.2		%		50-140	26-AUG-21
1,2-Dichlorobenzene			94.9		%		50-140	26-AUG-21
1,2-Dichloroethane			108.1		%		50-140	26-AUG-21
1,2-Dichloropropane			106.9		%		50-140	26-AUG-21
1,3-Dichlorobenzene			101.6		%		50-140	26-AUG-21
1,4-Dichlorobenzene			114.1		%		50-140	26-AUG-21
Acetone			112.6		%		50-140	26-AUG-21
Benzene			101.6		%		50-140	26-AUG-21
Bromodichloromethane			117.8		%		50-140	26-AUG-21
Bromoform			89.0		%		50-140	26-AUG-21
Bromomethane			92.9		%		50-140	26-AUG-21
Carbon tetrachloride			102.7		%		50-140	26-AUG-21
Chlorobenzene			96.8		%		50-140	26-AUG-21
Chloroform			111.3		%		50-140	26-AUG-21
cis-1,2-Dichloroethylene			103.9		%		50-140	26-AUG-21
cis-1,3-Dichloropropene			103.6		%		50-140	26-AUG-21
Dibromochloromethane			98.0		%		50-140	26-AUG-21
Dichlorodifluoromethane			52.6		%		50-140	26-AUG-21
Ethylbenzene			102.3		%		50-140	26-AUG-21
n-Hexane			102.6		%		50-140	26-AUG-21
m+p-Xylenes			99.7		%		50-140	26-AUG-21



## Quality Control Report

Workorder: L2630993

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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
Newmarket On L3X1A3

Contact: Robb Hudson

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Water							
Batch	R5570244							
WG3604949-5	MS	WG3604949-3						
Methyl Ethyl Ketone			103.7		%		50-140	26-AUG-21
Methyl Isobutyl Ketone			94.5		%		50-140	26-AUG-21
Methylene Chloride			107.4		%		50-140	26-AUG-21
MTBE			96.9		%		50-140	26-AUG-21
o-Xylene			99.8		%		50-140	26-AUG-21
Styrene			99.6		%		50-140	26-AUG-21
Tetrachloroethylene			102.2		%		50-140	26-AUG-21
Toluene			102.2		%		50-140	26-AUG-21
trans-1,2-Dichloroethylene			112.1		%		50-140	26-AUG-21
trans-1,3-Dichloropropene			103.9		%		50-140	26-AUG-21
Trichloroethylene			97.4		%		50-140	26-AUG-21
Trichlorofluoromethane			95.5		%		50-140	26-AUG-21
Vinyl chloride			77.2		%		50-140	26-AUG-21



# Quality Control Report

Workorder: L2630993

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Client: Trafalgar Environmental Consultants (Newmarket)  
P.O. Box 93316  
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Contact: Robb Hudson

## Legend:

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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.
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.

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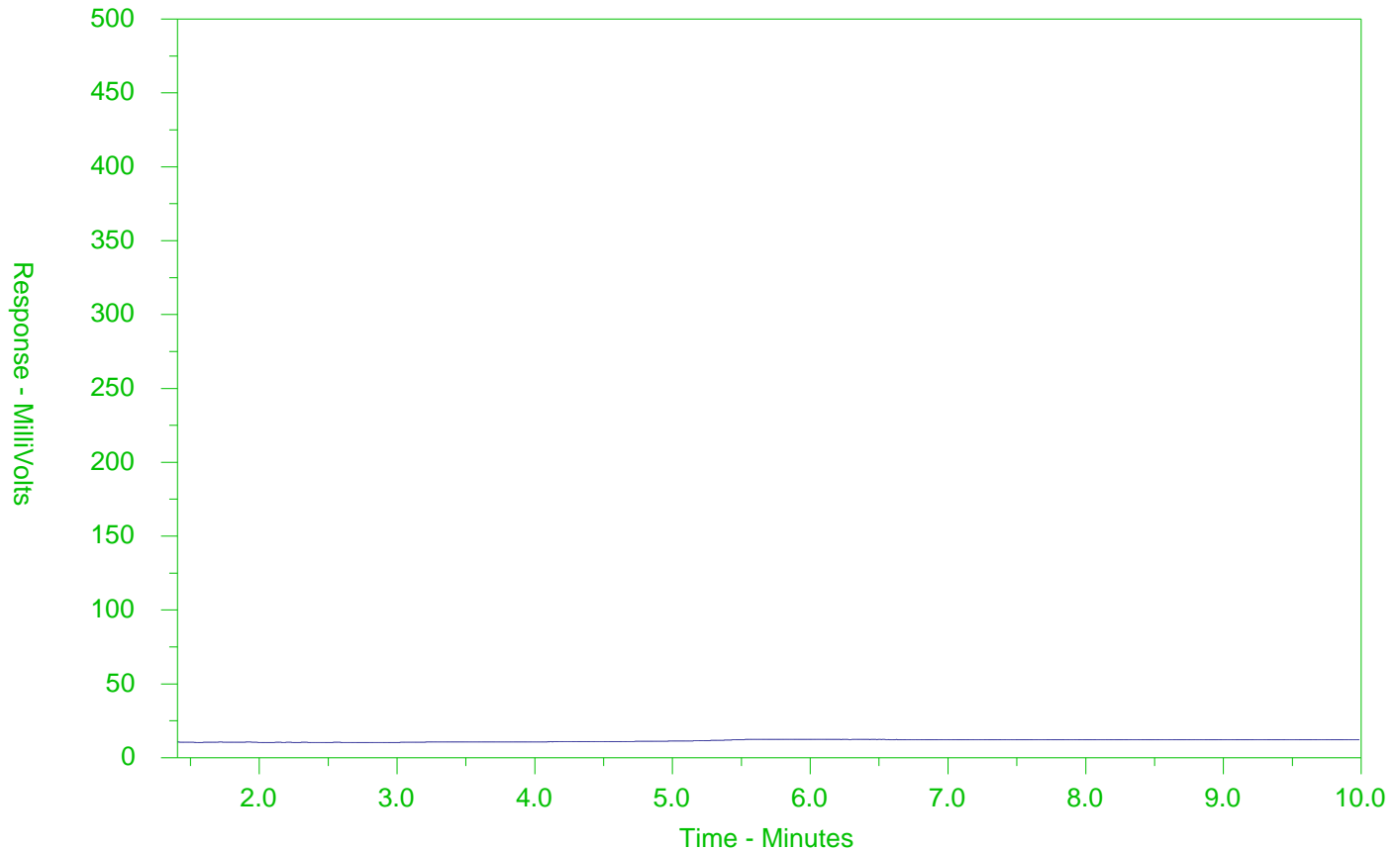
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide 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: L2630993-1  
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.

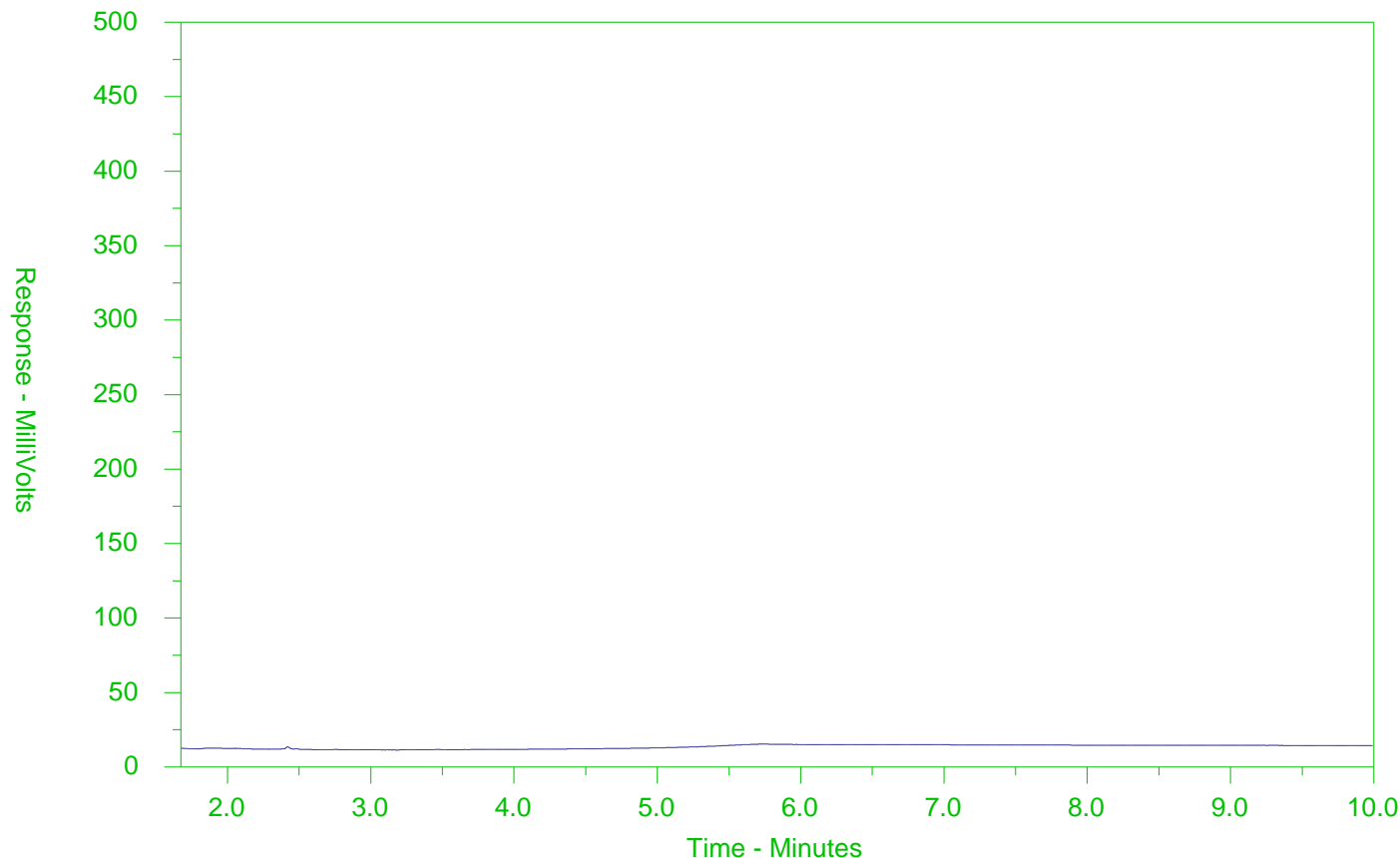
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

**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](http://www.alsglobal.com).

# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2630993-2  
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.

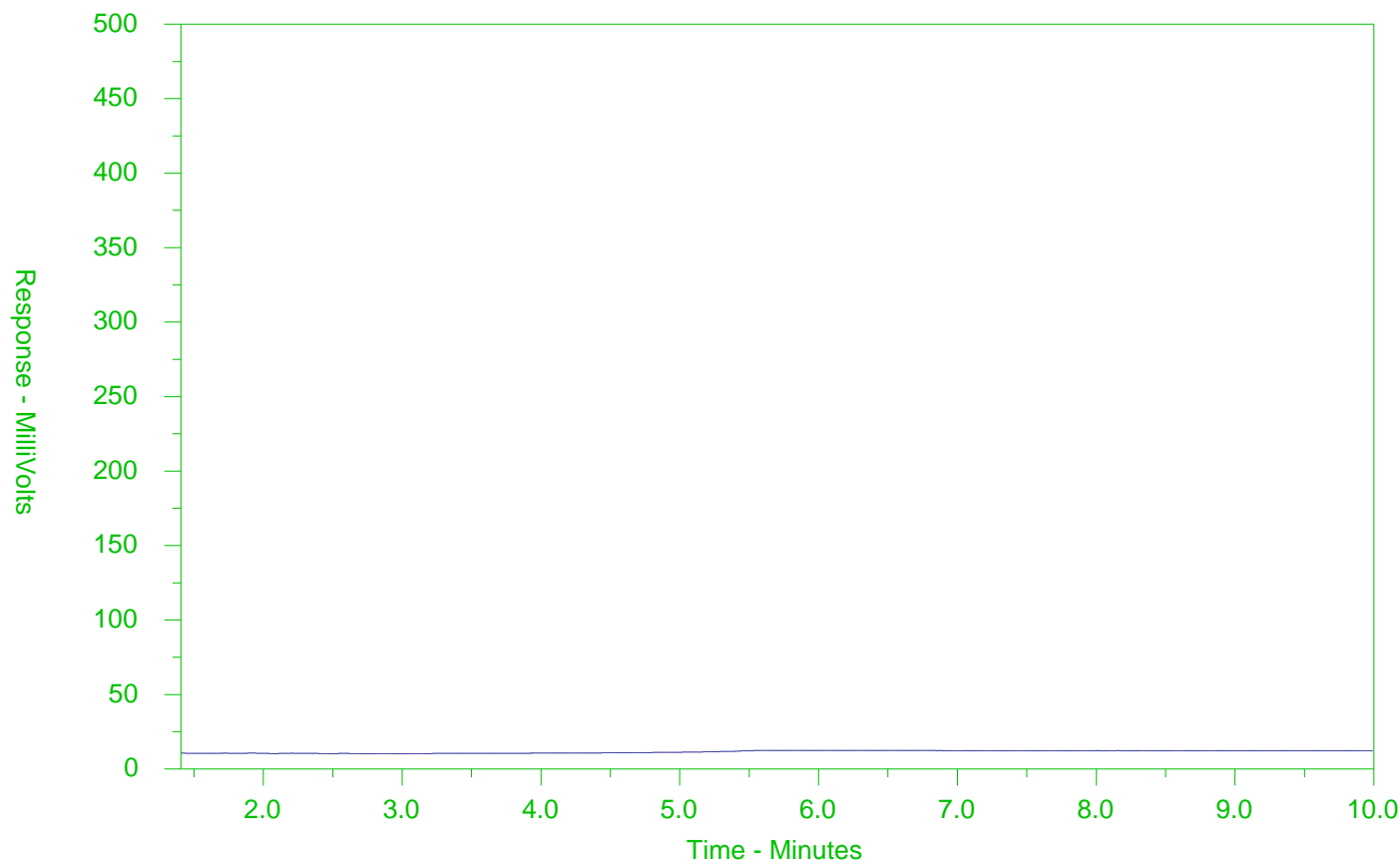
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

**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](http://www.alsglobal.com).

# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2630993-3  
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.

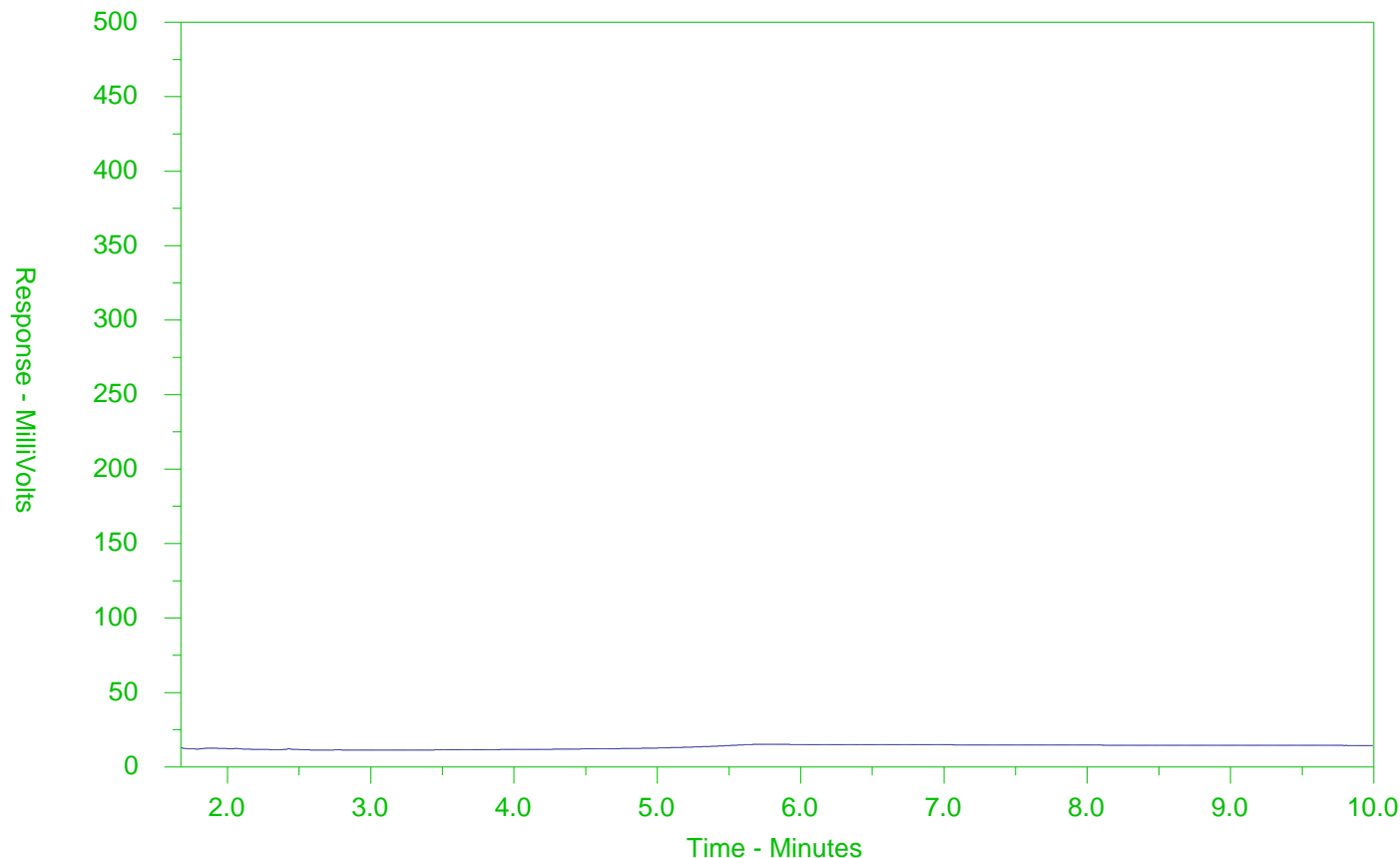
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

**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](http://www.alsglobal.com).

# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2630993-4  
Client Sample ID: BH104



← 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.

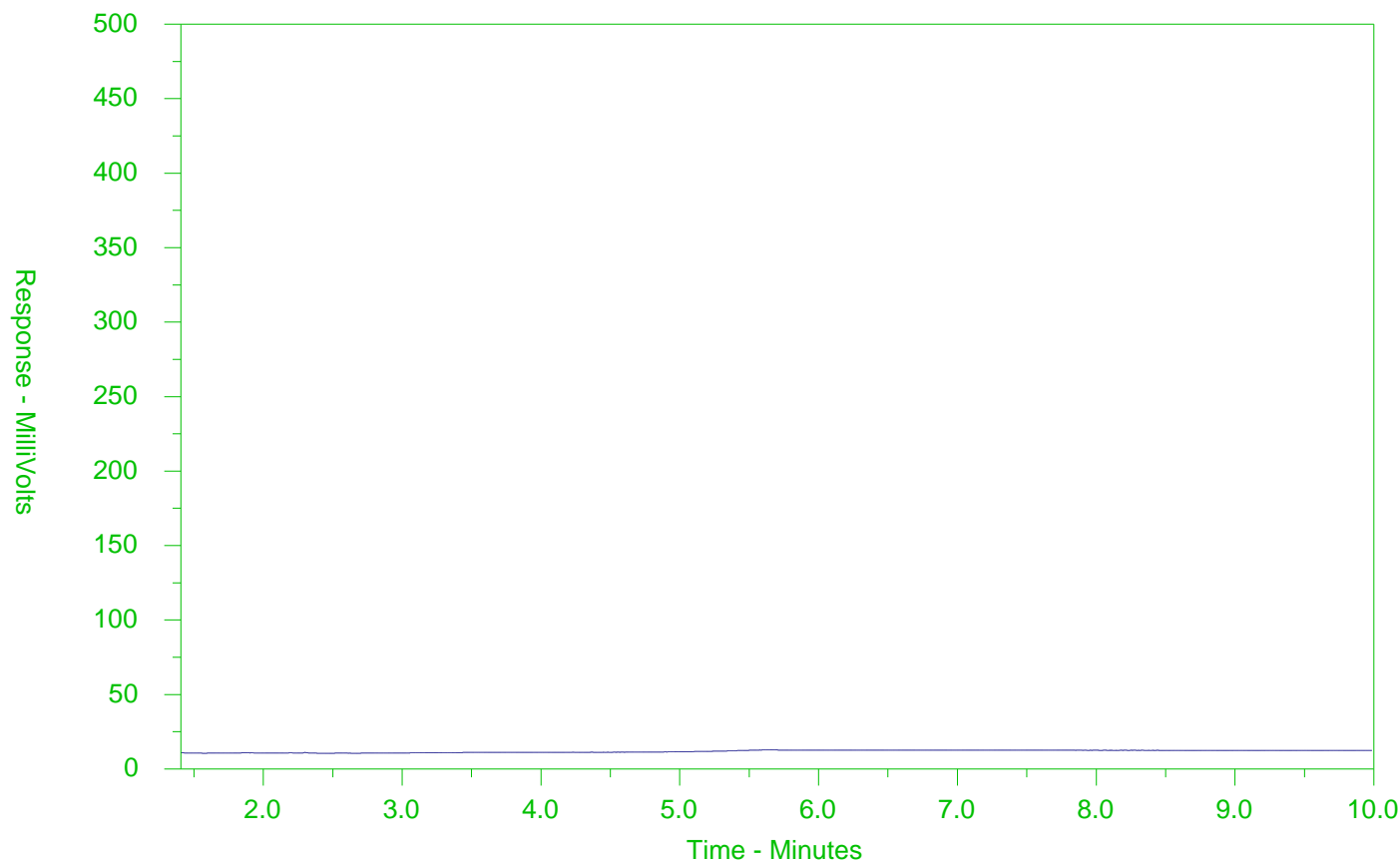
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

**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](http://www.alsglobal.com).

# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2630993-5  
Client Sample ID: BH208



← 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.

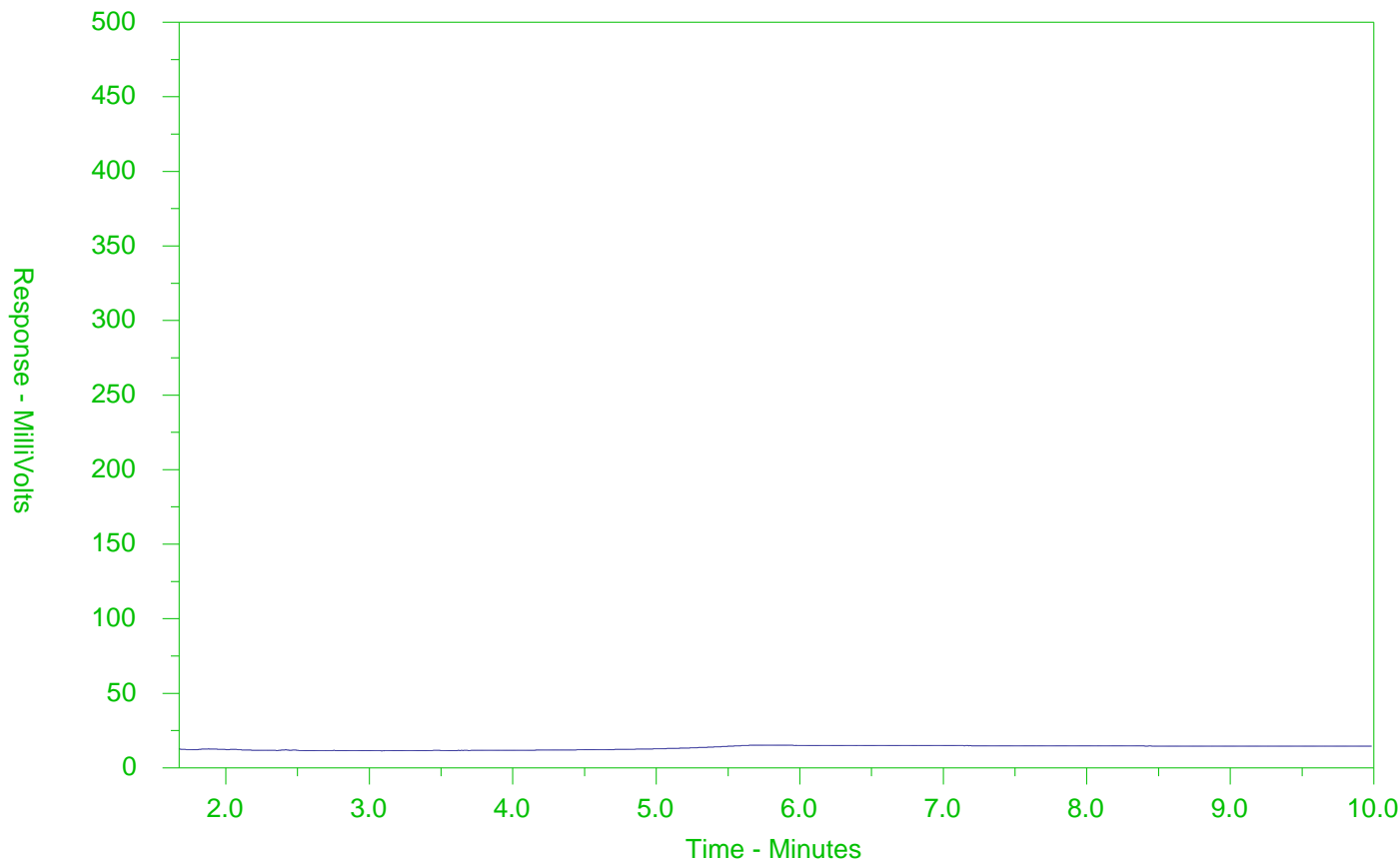
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

**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](http://www.alsglobal.com).

# CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2630993-6  
Client Sample ID: BH210



← 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](http://www.alsglobal.com).



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Chain of Custody (COC) / An

Canada Toll Free: 1 8



L2630993-COFC

Number: 20 - 892193

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<b>Report To</b> Contact and company name below will appear on the final report Company: <b>TRAFALGAR</b> Contact: <b>R. HUDSON</b> Phone: <b>416-501-4631</b> Company address below will appear on the final report Street: City/Province: Postal Code:		<b>Reports / Recipients</b> Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL) Merge QC/QCI Reports with COA <input 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: <b>R.Hudson@tralfalgar.com</b> Email 2: Email 3:		<b>Requested</b> <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		<b>AFFIX ALS BARCODE LABEL HERE</b> (ALS use only)	
<b>Invoice To</b> Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Copy of Invoice with Report <input type="checkbox"/> YES <input type="checkbox"/> NO		<b>Invoice Recipients</b> Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: Email 2:		<b>Date and Time Required for all E&amp;P TATs:</b> For all tests with rush TATs requested, please contact your AM to confirm availability.		<b>Analysis Request</b> Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below	
<b>Project Information</b> ALS Account # / Quote #: <b>2021</b> Job #: <b>KD</b> PO / AFE: <b>KD</b> LSD:		<b>Oil and Gas Required Fields (client use)</b> AFE/Cost Center: PO# Major/Minor Code: Routing Code: Requisitioner: Location:		<b>NUMBER OF CONTAINERS</b> CL, EC, PH Cr6 Cyanide Hg Metals PCB VOC PHC FI-F4 PAH		<b>SAMPLES ON HOLD</b> <b>EXTENDED STORAGE REQUIRED</b> <b>SUSPECTED HAZARD (see notes)</b>	
ALS Lab Work Order # (ALS use only): <b>L2630993</b>		ALS Contact: <b>A.O.</b>		Sampler: <b>S.H.</b>			
<b>ALS Sample #</b> (ALS use only)	<b>Sample Identification and/or Coordinates</b> (This description will appear on the report)	<b>Date</b> (dd-mmm-yy)	<b>Time</b> (hh:mm)	<b>Sample Type</b>			
1	BH101	24-Aug-21	10:35	GW	9	✓	✓
2	BH102	↓	10:00	GW	9	✓	✓
3	BH103	↓	9:45	GW	11	✓	✓
4	BH104	↓	11:10	GW	11	✓	✓
5	BH208	↓	10:45	GW	9	✓	✓
6	BH210	↓	11:40	GW	11	✓	✓
<b>Drinking Water (DW) Samples<sup>1</sup> (client use)</b> 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		<b>Notes / Specify Limits for result evaluation by selecting from drop-down below</b> (Excel COC only) <b>O. Reg 153/04 Table 2</b>		<b>SAMPLE RECEIPT DETAILS (ALS use only)</b> Cooling Method: <input type="checkbox"/> NONE <input type="checkbox"/> ICE <input 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: <b>4.3</b> FINAL COOLER TEMPERATURES °C: <b>15.4</b>			
<b>SHIPMENT RELEASE (client use)</b> Released by: <b>[Signature]</b> Date: <b>24-Aug-21</b> Time: <b>13:11</b>		<b>INITIAL SHIPMENT RECEPTION (ALS use only)</b> Received by: <b>[Signature]</b> Date: <b>Aug 24/21</b> Time: <b>13:15</b>		<b>FINAL SHIPMENT RECEPTION (ALS use only)</b> Received by: <b>[Signature]</b> Date: <b>AUG 24</b> Time: <b>[Signature]</b>			

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.

AUG 2021 FRONT



**APPENDIX D**

**QUALIFICATIONS OF THE ASSESSOR**

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## **Qualifications of the Site Assessor:**

### ***Robb Hudson, P.Eng., QP<sub>ESA</sub>***

Robb Hudson, P.Eng., has over thirty years of experience in the environmental engineering field.

Mr. Hudson is a registered profession engineer in the provinces of Ontario, Nova Scotia, Manitoba and Alberta. He also holds the designation Qualified Person (QP<sub>ESA</sub>) as defined in O.Reg. 153/04.

Mr. Hudson has been involved with Phase I and Phase II Environmental Site Assessments of residential, commercial, and industrial properties in Ontario, New Brunswick, Nova Scotia, Prince Edwards Island, Newfoundland, Manitoba and Alberta.

Mr. Hudson has been thoroughly trained to conduct Phase I Environmental Site Assessments in accordance with the *Canadian Standards Association (CSA) Standard Z768-01-Phase I Environmental Site Assessment* (published in November 2001). Typically, Mr. Hudson conducts/reviews Phase I Environmental Site Assessments on a monthly basis. To date, Mr. Hudson has researched/prepared/reviewed more than 500 Phase I ESA reports.

Mr. Hudson has supervised soil remediation programs and completed environmental compliance reports for residential and commercial properties in all of the above noted provinces.

Rob Hudson obtained a Bachelor of Engineering Science (B.E.Sc) degree in Civil Engineering from the University of Western Ontario, in London, Ontario in 1982. He obtained a Master of Business Administration (M.B.A.) degree from York University, in Toronto, in 1984.

Mr. Hudson founded Trafalgar Environmental Consultants in 2015, following 30 years of progressive experience in the retail petroleum, construction and environmental consulting fields.

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**APPENDIX E**

**STATEMENT OF GENERAL CONDITIONS & LIMITATIONS**

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## **STATEMENT OF GENERAL CONDITIONS AND LIMITATIONS**

### **1. OUR STANDARD OF CARE**

Trafalgar Environmental Consultants (TEC) has conducted the work as detailed in the scope of work contained in the TEC proposal and performed the environmental work requested by the Client in accordance with generally accepted engineering or environmental consulting practices. No other warranty, expressed or implied, is made by TEC.

### **2. BASIS OF REPORT**

The Report has been prepared for the specific site, design criteria, objectives and purpose that were described to us by the Client. The applicability and reliability of any of the findings, recommendations, suggestions, or opinions expressed in the document are only valid to the extent that there has been no material alteration to or variation from any of the said descriptions provided to us unless we are specifically requested by the Client to review and revise the Report in light of such alteration or variation.

### **3. COMPLETE REPORT**

All documents, records, data and files, whether electronic or otherwise, generated as part of this Report which is of a summary nature and is not intended to stand alone without reference to the instructions given to us by the Client, communications between us and the Client, and to any other reports, writings, proposals or documents prepared by us for the Client relative to the specific site described herein, all of which constitute the Report.

IN ORDER TO PROPERLY UNDERSTAND THE SUGGESTIONS, RECOMMENDATIONS, CONCLUSIONS AND OPINIONS EXPRESSED HEREIN, REFERENCE MUST BE MADE TO THE WHOLE OF THE REPORT. WE CANNOT BE RESPONSIBLE FOR THE USE BY ANY PARTY OF PORTIONS OF THE REPORT WITHOUT REFERENCE TO THE WHOLE REPORT.

### **4. REPORT USE – THIRD PARTY RELIANCE**

The information and opinions expressed in the Report, or any document forming part of the Report, are for the sole benefit of the Client. NO OTHER PARTY MAY USE OR RELY UPON THE REPORT OR ANY PORTION THEREOF WITHOUT THE WRITTEN CONSENT OF TEC. WE WILL CONSENT TO ANY REASONABLE REQUEST BY THE CLIENT TO APPROVE THE USE OF THIS REPORT BY OTHER THIRD PARTIES AS “APPROVED USERS”. It should be understood that a standard charge for authorizing release of this report, or any part thereof, may be levied by TEC on the third party, prior to the release of the Report, or any part thereof, for the purpose of covering administrative, legal and engineering fees. The contents of this Report remain our copyright property and we authorize only the Client and Approved Users to make copies of the Report only in such quantities as are reasonably necessary for the use of the Report by those parties. The Client and Approved Users may not give, lend, sell, or otherwise make the Report, or any portion thereof, available to any party without our written permission. ANY USE WHICH A THIRD PARTY MAKES OF THE REPORT, OR ANY PORTION OF THE REPORT, ARE THE SOLE RESPONSIBILITY OF SUCH THIRD PARTIES. WE ACCEPT NO RESPONSIBILITY FOR THE DAMAGES SUFFERED BY ANY THIRD PARTY RESULTING FROM UNAUTHORIZED USE OF THE REPORT.

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## **5. REPORT INTERPRETATION**

a) **Nature and Exactness of Soil and Contaminant Description:** Classification and identification of soils, rocks, geological units, contaminant materials and quantities have been based on investigations performed in accordance with the standards set out in Paragraph 1. Classification and identification of these factors are judgemental in nature and even comprehensive sampling and testing programs, implemented with the appropriate equipment by experienced personnel, may fail to locate some conditions. All investigations utilizing the standards of Paragraph 1 will involve an *inherent risk* that some conditions will not be detected and all documents or records summarizing such investigations will be based on assumptions of what exists between the actual points sampled. Actual conditions may vary significantly between the points or locations investigated and all persons making use of such documents or records should be aware of, and accept, this risk. Some conditions are subject to change over time and those making use of this Report should be aware of this possibility and understand that the Report only presents the conditions at the sampled points at the time of sampling. Where special concerns exist, of the Client has special considerations or requirements, the Client should disclose them so that additional or special investigations may be undertaken which would not otherwise be within the scope of investigations made for the purposes of this Report.

b) **Reliance on the Information Provided:** The evaluation and conclusions contained in the Report have been prepared on the basis of conditions in evidence at the time of inspections and on the basis of information provided to us by other parties. We have relied in good faith upon representations, information and instructions provided by the Client and others concerning the site. Accordingly, we cannot accept responsibility for any deficiency, misstatements or inaccuracy contained in the Report as a result of misstatements, omissions, misrepresentations, or fraudulent acts of persons providing information.

## **6. CLIENT INDEMNITY**

Environmental consulting projects have the potential to, and may, cause an accidental leak, release, or discharge of contaminants into the environment (an "Accidental Release"). In consideration of the provision of the services by us, which are for the Client's benefit, the Client agrees to hold harmless and to indemnify and defend TEC and our directors, officers, servants, agents, employees, workmen and contractors (hereinafter referred to as the "Company") from and against any and all claims, losses, damages, demands, disputes, liability and legal investigative costs of defence, whether for personal injury, including death, or any other loss whatsoever, regardless of any action or omission on the part of the Company, that result from an Accidental Release of pollutants or hazardous substances occurring as a result of carrying out this Project. This indemnification shall extend to all Claims brought or threatened against the Company under any federal or provincial statute and municipal by-law as a result of conducting work on this Project. In addition to the above indemnification, the Client agrees not to bring any claims against the Company in connection with any of the aforementioned causes except for those involving our own negligence.

## **7. CONTROL OF WORK AND SITE SAFETY**

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We are responsible only for the activities of our employees on the jobsite. The presence of our personnel on the site shall not be construed in any way to relieve the Client or any contractors on site from their responsibilities for site safety. THE CLIENT ACKNOWLEDGES THAT THEIR REPRESENTATIVES, CONTRACTORS OR OTHERS RETAIN CONTROL OF THE SITE AND THAT WE NEVER OCCUPY A POSITION OF CONTROL AT THE SITE. The Client undertakes to inform us of all hazardous conditions, or other relevant conditions of which the Client is aware. The Client also recognizes that our activities may uncover previously unknown hazardous conditions or materials and that such a discovery may result in the necessity to undertake emergency procedures to protect our employees as well as the public at large and the environment in general. These procedures may well involve additional costs outside of any budgets previously agreed to. The Client agrees to pay us for any expenses incurred as the result of such discoveries and to compensate us through payment of additional fees and expenses for time spent by us to deal with the consequences of such discoveries. The Client also acknowledges that in some cases the discovery of hazardous conditions and materials will require that certain regulatory bodies be informed and the Client agrees that notification of such bodies by us will not be a cause of action or dispute.

## **8. SERVICES OF SUBCONSULTANTS AND CONTRACTORS**

The conduct of engineering and environmental studies frequently requires hiring the services of individuals and companies with special expertise and/or services which we do not provide. We may arrange the hiring of these services as a convenience to our Clients. As these services are for our Client's benefit, the Client agrees to hold the Company harmless and to indemnify and defend us from all claims arising through such hirings to the extent that the Client would incur had he hired those services directly. This includes responsibility for payment for services rendered and pursuit of damages for errors, omissions or negligence by those parties in carrying out their work. In particular, these conditions apply to the use of drilling, excavation, contracting and laboratory testing services.

## **9. INDEPENDENT JUDGEMENTS OF CLIENT AND OTHERS**

The information, interpretations and conclusions in the Report are based on our interpretation of conditions revealed through limited investigations or inspections conducted within a defined scope of work. We cannot accept responsibility for independent conclusions, interpolations and/or decisions of the Client, or others who may come into possession of the Report, or any part thereof, which may be based on information contained in the Report. This restriction of liability includes, but is not limited to, decisions made to either purchase or sell land.

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