PHASE II ENVIRONMENTAL SITE ASSESSMENT

65 & 71 AGNES STREET
MISSISSAUGA, ON

Prepared for:
Intentional Capital
147 Liberty Street
Toronto, ON. M6K 3G3
Attention: Nauman Khalid

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DELIVERY DETAILS

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EXECUTIVE SUMMARY

ECOH Management Inc. (ECOH) was retained by Intentional Capital to conduct a Phase II Environmental Site Assessment (ESA) of the properties located at 65 & 71 Agnes Street in Mississauga, ON. (herein referred to as the Site).

It is ECOH's understanding that Intentional Capital is in the process of aquiring the Site. As such, in support of Intentional Capital's proposed acquisition of the Site and for due diligence purposes, Intentional Capital requested that ECOH conduct a Phase II ESA at the Site.

The objective of the Phase II ESA was to investigate soil and groundwater quality at the location of one previously identified area of potential environmental concern (APEC) on the Site which was identified during a Phase I ESA completed by Sirati and Partners Consultants Ltd. (Sirati) in April, 2021 (summarized in section 1.2.2, below). The APEC identified by Sirati is described as follows:

- **APEC 1 – North Boundary of the Site**. Area of the site potentially affected by activities at 3100 Hurontario Street. TL Kennedy Secondary School is located 60m to the northwest of the Site and is inferred to be situated in a hydraulically upgradient position from the Site. This property was identified by HWIN as a generator of wastes including inorganic laboratory chemicals, petroleum distillates, oil skimmings & sludges, waste oils & lubricants, organic laboratory chemicals, photoprocessing wastes, aliphatic solvents and halogenated pesticides. Sirati identified petroleum hydrocarbons (PHCs), polycyclic aromatic hydrocarbons (PAH), volatile organic compounds (VOC), polychlorinated biphenyls (PCBs) and metals and inorganics as potential contaminants of concern associated with this identified APEC.

Sirati recommended that a Phase II ESA be conducted at the Site in order to reduce uncertainty related to the APEC that was identified on the Site. This Phase II ESA was completed to investigate APEC-1 identified by Sirati (2021) and included the following activities:

- The Phase II ESA field activities were undertaken at the Site between September 2, 2021, and September 9, 2021 and included the advancement of one borehole which was instrumented with a groundwater monitoring well.
- One existing monitoring well was sampled as part of this Phase II ESA.
- The soil stratigraphy at the Site comprised a light brown fine sand fill layer beneath the topsoil, underlain by a native brown silty sand and grey weathered shale strata.
- There was no visual or olfactory evidence of impacts in the samples collected.
- Groundwater levels measured within the existing monitoring well and new monitoring well installed at the Site ranged between 4.27 (MW4) to 4.98 (BHMW1) mbgs.
- Based on the topographical information outlined in a Phase I ESA completed by Sirati in April 2021, the regional groundwater is inferred to be towards the southeast.
- The Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, with Parkland/Institutional/Residential Property Use and Coarse Textured Soil Conditions were selected to assess the environmental quality of soil and groundwater at the Site.

- A total of two soil samples from the borehole advanced at APEC-1, which included one field duplicate soil sample, were collected and submitted to ALS Laboratories (ALS) for chemical analysis of PHC (F1-F4), PAHs, VOCs, PCBs, Metals & Inorganics, pH, and grain size. The soil analytical results indicated that concentrations for the parameters analyzed were below the applicable MECP Table 3 SCS in the samples analyzed.
- A total of two groundwater samples, were collected from the one new and one existing monitoring well at APEC-1 and were submitted to ALS for chemical analysis of PHC (F1-F4), PAHs, VOCs, PCBs and Metals & Inorganics. The analytical results indicated that the parameters analyzed were below the applicable MECP Table 3 SCS in the samples analyzed.

Based on the findings of the Phase II ESA, the concentrations of the contaminants of concern analyzed in the soil and groundwater samples collected at APEC 1 were below the applicable MECP Table 3 SCS. Therefore, further investigation of APEC-1 is not recommended at this time. No additional APECs were identified on the Site by the Sirati Phase One ESA and therefore this Phase II ESA has investigated the previously identified APECs on the site and did not identify exceedances of the applicable SCS. Based on these findings, additional site investigations would not be warranted at this time.

It is recommended that the monitoring wells on-site be decommissioned in accordance with O. Reg. 903 (as amended) once it is determined that the monitoring wells are no longer required.

This Executive Summary provides a brief overview of the Phase II ESA findings. It is not intended to substitute for the complete report, nor does it detail specific matters discussed within the report. This summary is not to be adopted in lieu of reading the complete report.

TABLE OF CONTENTS

TABLE OF CONTENTS

1. INTRODUCTION

ECOH Management Inc. (ECOH) was retained by Intentional Capital to conduct a Phase II Environmental Site Assessment (ESA) of the properties located at 65 & 71 Agnes Street in Mississauga, ON (herein referred to as "the Site"). The geographical location of the Site is shown on Figure 1.

It is ECOH's understanding that Intentional Capital is in the process of aquiring the Site. As such, in support of the Intentional Capital's proposed acquisition of the Site and for due diligence purposes, Intentional Capital requested that ECOH conduct a Phase II ESA at the Site.

The Phase II ESA was authorized by Nauman Khalid of Intentional Capital. Nauman Khalid's contact details are provided in the table below:

Details	Description
Address	Nauman Khalid 147 Liberty Street Toronto, ON. M6K 3G3
Email	khalid@intentionalcapital.com

1.1 Objective of Phase One ESA

The objective of the Phase II ESA was to investigate soil and groundwater quality at the location of one previously identified area of potential environmental concern (APEC) on the Site which was identified during a Phase I ESA[1] completed by Sirati and Partners Consultants Ltd. (Sirati) in April, 2021 (summarized in section 1.2.2, below).

1.2 Background Information

1.2.1 Site Setting

The Site is located at the northwest corner of Agnes Street and Cook Street in Mississauga, Ontario. The Site is approximately 0.361 hectares in area and is currently occupied by two detached single family residential homes, each with one ground floor and a basement. The two homes are located on the eastern side of the property, while the western side of the property is a vacant grassed area.

[1] "*Phase I Environmental Site Assessment, 65 & 71 Agnes Street, Mississauga, Ontario. Sirati & Partners Consultants Ltd.*", dated April, 2021

The Site is bound by single family residential homes to the north, Cooks Street followed by vacant land to the east, Agnes Street followed by single family residential homes to the south, and a high-rise residential building to the west.

1.2.2 Summary of Phase One Environmental Site Assessment Activities

In April 2021, a Phase One ESA was completed for the Site by Sirati, on behalf of CentraCondos 1000 De La Montagne. The Phase One ESA was completed in accordance with Ontario Regulation (O. Reg.) 153/04 (as amended) with the intention of supporting the future filing of a Record of Site Condition (RSC) for the property in accordance with O.Reg 153/04. The objective of the Phase One ESA was to identify areas of potential environmental concern (APEC) on, in or under the Site as a result of current and/or historical on-site or off-site activities [within a 250 metre (m) radius of the Site] which could contribute to environmental concerns on the Site.

The Phase One ESA completed by Sirati was completed in general accordance with O.Reg 153/04 and included a records review, site visit and interviews with personnel familiar with the Site. Based on the findings of the Phase One ESA, no on-site Potentially contaminating activities (PCA) were identified, while ten PCA within the Phase one study area (within 250 m of the Phase One property boundary) were identified. Of the ten PCA's identified within the Phase One Study Area, one of the PCAs was considered to cause an APEC on the Site. The APEC was described by Sirati as follows:

- **APEC 1 - North boundary of the Site**. Area of the site potentially affected by activities at 3100 Hurontario Street. TL Kennedy Secondary School is located 60m to the northwest of the Site and is inferred to be situated in a hydraulically upgradient position from the Site. This property was identified by HWIN as a generator of wastes including inorganic laboratory chemicals, petroleum distillates, oil skimmings & sludges, waste oils & lubricants, organic laboratory chemicals, photoprocessing wastes, aliphatic solvents and halogenated pesticides. Sirati identified petroleum hydrocarbons (PHCs), polycyclic aromatic hydrocarbons (PAH), volatile organic compounds (VOC), polychlorinated biphenyls (PCBs) and metals and inorganics as potential contaminants of concern associated with this identified APEC.

The location of APEC-1 is shown on Figure 3.

Sirati recommended that a Phase II ESA be conducted at the Site in order to reduce uncertainty related to the APEC that was identified on the Site.

2. APPLICABLE SITE CONDITION STANDARDS

To evaluate analytical data from the soil and groundwater samples analyzed during the Phase II ESA, the Site Condition Standards (SCS) were selected from the Ontario Ministry of the Environment, Conservation and Parks (MECP) document titled *"Soil, Groundwater and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act"*, dated April 15, 2011[2].

The SCS selection process was conducted in accordance with O. Reg. 153/04 (as amended) and is described below.

- Environmentally Sensitive Areas:
  - The Site is not located within an area of natural significance;
  - The Site does not include land that is within 30 m of an area of natural significance or part of such an area; and
  - The pH of soils measured during the Phase II ESA were within the acceptable range of 5 to 9 for surface soils (< 1.5 metres below ground surface [mbgs]) and 5 to 11 for sub-surface soils (> 1.5 mbgs).
- **Water Bodies**: The Site does not include land that is within 30 m of a permanent water body.
- **Non-Potable / Potable Groundwater Conditions**: Based on Site observations and the WWIS database provided by Environmental Risk Information Services and Ontario Groundwater well records[3] (as outlined in the Phase One ESA report), potable water supply wells were not identified on the Site or within 250 m from the Site. The Site is serviced with a potable water supply *via* the City of Mississauga's municipal water distribution system.
- **Current and Proposed Future Property Uses**: The current property use of the Site is residential and the future property use is inferred as residential.
- **Soil Texture:** Grain size analyses conducted during the Phase II ESA indicated that more than 1/3 of the soil at the Site (measured by volume), consists of coarse textured soil.
- **Shallow Soil Property**: The Site is not considered a shallow soil property as defined by O. Reg. 153/04 (as amended) since more than 2/3 of the Site has more than 2 m of overburden above bedrock.

Based on the selection process, the SCS selected for the Site are the Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, with

[2] https://www.ontario.ca/page/soil-ground-water-and-sediment-standards-use-under-part-xv1-environmental-protection-act
[3] http://ontariogroundwater.com/maps/

Parkland/Institutional/Residential Property Use and Coarse Textured Soil Conditions (MECP Table 3 SCS).

3. SCOPE OF THE INVESTIGATION

The objective of the Phase II ESA is to investigate the potential for soil and groundwater impacts to be present at the area of the one APEC (i.e. APEC-1) identified by the Sirati Phase One ESA.

3.1 Media Investigated

Based on the findings of the Sirati Phase One ESA, soil and groundwater were identified as potentially impacted media.

3.2 Overview of Site Investigation

ECOH provided Intentional Capital with a proposal/work plan to undertake the Phase II ESA at the Site on August 11, 2021. The proposal, titled "*Phase II Environmental Site Assessment, 65 & 71 Agnes Street, Mississauga, Ontario*", was approved by Intentional Capital on August 11, 2021. The proposal originally called for the following scope of work to be completed.

- Develop a Health and Safety Plan (HASP);
- Obtain all public and private utility clearances for the work area;
- Advance two boreholes to a maximum depth of 6 mbgs to facilitate the collection and assessment of soil at the Site;
- Collect one "worst case" soil sample from each borehole location and submit to project laboratory for analysis of petroleum hydrocarbon (PHC) fractions 1 through 4 (F1-F4), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), Polychlorinated Biphenyls (PCBs) and metals & inorganics;
- Collect one composite soil sample for Toxicity Characteristic Leaching Procedure (TCLP) analysis for waste characterization purposes;
- Collect and analyse two soil samples from surface (<1.5 m) and sub-surface (>1.5 m) for pH analysis to assist in selecting the applicable MECP SCS;
- Collect and analyse one soil sample for grain size analysis (75 micron [µm] sieve) to assist in selecting the applicable MECP SCS;
- Instrument two boreholes with monitoring wells to facilitate the assessment of groundwater at the Site;
- Collect one groundwater sample from each of the newly installed monitoring wells and submit to project laboratory for analysis of PHC F1-F4, VOCs, PAHs, PCBs, and metals and inorganics; and
- Prepare a Phase II ESA report summarizing the soil investigation results, conclusions and recommendations.

Due to access restrictions encountered during the Phase II ESA field program, only one of the two proposed monitoring wells could be installed. In addition, an existing monitoring well was identified in the area of APEC 1. No reports were available to ECOH describing the construction and installation of this monitoring well, however the location of this well was beneficial to the objectives of the work program as it was installed in the area of APEC 1. The location of the previously installed monitoring well is shown on Figure 2 and Figure 3. For the purposes of this report, the previously installed monitoring well was identified as 'MW4'.

Therefore, given the access restrictions and the presence of an existing monitoring well, only one new monitoring well was considered sufficient to meet the objectives of the work program, and collecting a groundwater sample from the existing monitoring well was added to the work program to provide additional groundwater analytical data and data coverage in the area of APEC-1.

4. INVESTIGATION METHOD

4.1 General

The following sections describe the pre-field work activities and field investigation methodology employed during the Phase II ESA. The field investigation methods were conducted in accordance with CSA Z769-00 (R2018), in general accordance with O. Reg. 153/04 (as amended), ECOH's standard operating procedures (SOPs) and industry standard practices.

4.2 Health and Safety

Prior to commencing intrusive investigations, a HASP was developed and implemented. The HASP identified potential physical and chemical hazards associated with the Phase II ESA and provided mitigative actions as required. In addition, the HASP provided procedures to follow in the event of an emergency.

A health and safety kick-off meeting and job safety analysis were conducted to advise project personnel of the potential risks and appropriate mitigative actions, as well as to address any health and safety concerns identified by the on-Site project staff. The HASP was retained on file by ECOH.

4.3 Utility Clearances

Prior to the commencement of intrusive investigation activities, ECOH contacted Ontario One Call to initiate utility clearances with all public utility providers whom subscribe to this service. In addition, ECOH retained the services of a private utility locator, Premier Locates Inc. of Aurora, Ontario to clear services within the proposed work areas. Copies of the public and private utility clearance documents are retained on file by ECOH.

4.4 Drilling

ECOH retained the services Pontil Drilling Services Inc. (Pontil) of Mount Albert, Ontario to advance one borehole at the Site. Pontil is an MECP licensed well contractor, as per the provisions of O. Reg. 903 (as amended), under the Ontario Water Resources Act.

The one borehole (BH/MW1) was advanced on September 2, 2021 using a track mounted CME 55 Track Mounted Rig, equipped with split-spoon sampling equipment and hollow stem auger drilling under full time ECOH supervision.

The borehole was advanced to a depth of 6.1 mbgs. The findings of the field observations at this borehole location are recorded on the borehole log presented in Appendix A and the location of the boreholes advanced during the investigation are presented on Figure 2.

4.5 Soil Sampling

4.5.1 Soil: Sample Collection

Soil samples were collected from each borehole *via* the advancement of 51 millimetre (mm) diameter (2 inch) and 0.6 m long stainless steel split spoon samplers. The split spoon samplers were advanced to continuous intervals until the depth of borehole termination at approximately 6.1 m. Following the advancement of each sampling interval, the stainless-steel split spoon sampler was removed from the borehole to enable the logging of soil characteristics and sample collection.

Upon retrieval of the soil samples from the sampling equipment, soil conditions were logged for soil characteristics (soil type, colour, moisture, etc.), olfactory observations and evidence of contamination (staining, sheens, etc.). Following the logging of the soil conditions, each soil sample was divided into two portions; the first portion was placed directly into laboratory supplied glass containers for possible laboratory analysis while the remaining portion was placed in a sealable polyethylene bag for organic vapour meter (OVM) readings. Soil samples which were collected for PHC (F1) and/ VOC analysis were collected in pre-weighed laboratory supplied vials containing methanol preservative. Soil sample container details are presented in Table 1. Soil samples placed in laboratory supplied glass containers were placed immediately in coolers equipped with ice to initiate cooling.

Samples were maintained in a cold state until submitted to ALS Laboratories (ALS), located in Mississauga, Ontario.

4.5.2 Soil: Field Screening Measurements

To assist with the selection of soil samples submitted for laboratory analysis, and to identify potential PHC and/or VOC impacts, OVM readings were taken using a hand-held RKI Eagle 2™ portable gas detector. The RKI Eagle 2™ reports organic vapour concentrations in parts per million by volume (ppmv) or as a percentage of the lower explosive limit (% LEL) of equivalent hexane vapour and isobutylene vapour.

The RKI Eagle 2™ was calibrated prior to use and was operated in methane elimination mode. The OVM readings were taken by placing the end of the intake tube of the OVM into the headspace of the bagged soil samples while the soil was gently broken up. The OVM readings attained during the soil sampling activities are shown on the borehole log presented in Appendix A.

4.5.3 Soil: Selecting Soil Samples for Analysis

Generally, one soil sample inferred to represent “worst case” conditions was selected from the borehole for subsequent chemical analyses. The worst-case soil sample was selected based on visual and olfactory observations, OVM measurements and/or from depths at which potential

impacts would most likely have occurred (e.g., near the water table, targeted depths, near the interface of different soil horizons and/or from the upper fill layers).

4.5.4 Soil: Laboratory Analysis

Soil samples were submitted under signed chain-of-custody to ALS. ALS is accredited by the Canadian Association of Laboratory Accreditation Inc. (CALA) to perform the analysis required for the Phase II ESA. The analyses performed on soil samples collected during the Phase II ESA is summarized in Table 2.

4.6 Groundwater Sampling

4.6.1 Groundwater: Monitoring Well Installation

A monitoring well was installed in the one borehole advanced by ECOH (BH/MW1) to facilitate the assessment of groundwater conditions at the Site. The monitoring well was constructed with 51 mm (2 inch) diameter polyvinyl chloride (PVC) well screen threaded to solid PVC riser pipes. The riser pipes and well screen were delivered to the Site pre-washed and packed in sealed polyethylene bags; where they remained until use. The monitoring well screen was 3.05 m in length and were instrumented with a tight-fitting slip-on PVC cap. The top of the riser pipe was sealed with a compression J-plug fitting. A silica sand pack was placed in the annulus of the borehole surrounding the screened portion of the monitoring well and extended approximately 0.3 m above the top of the screen. Bentonite holeplug was placed in the borehole annulus above the sand pack to near ground surface. The monitoring wells were completed at surface with a flushmount style protective casing encased in concrete.

The monitoring well construction details are presented within the borehole log provided in Appendix A. As required by O. Reg. 903 (as amended), individual well records were completed by Pontil and submitted to the MECP. Copies of the well records have been retained on file by ECOH.

4.6.2 Groundwater: Field Measurement of Water Quality Parameters

To ensure that a complete hydraulic connection was made between the new monitoring well and the groundwater horizon surrounding the well screen and filter pack, the new monitoring well was developed prior to sampling. Well development was conducted using dedicated polyethylene tubing fitted with a plastic inertial foot valve on September 9, 2021. The monitoring well was developed by purging until dry of groundwater.

Following well development, and prior to collecting the groundwater samples, each monitoring well (both BHMW1 and MW4) was purged by employing low-stress (i.e. low-flow) purging protocols as defined within the *United States Environmental Protection Agency (US EPA) Ground-Water Sampling Guidelines for Superfund and RCRA Project Managers* (USEPA 2002). Groundwater purging was conducted using dedicated 6.4 mm diameter low density polyethylene (LDPE) tubing connected to a low-flow peristaltic pump. The tubing intake was lowered slowly

into the water column to minimize mixing of groundwater and the intake was positioned in approximately the centre of the saturated screen interval. The outlet of the tubing was connected to an in-line flow-through cell system (i.e., water quality meter) for monitoring geochemical groundwater parameters, including: pH, conductivity, temperature, dissolved oxygen and oxidation reduction potential (ORP). In addition, the depth to groundwater was measured during the purging activities *via* an oil/water interface meter. Geochemical parameters and groundwater levels were monitored and recorded approximately every five minutes. Purging activities continued until the groundwater level and geochemical parameter readings were generally stabilized (i.e. three successive readings within EPA defined limits[4]).

4.6.3 Groundwater: Sampling

Groundwater samples were collected from the monitoring wells using dedicated LDPE tubing and a peristaltic pump. Where appropriate, samples collected for metals and inorganic analyses were filtered in the field prior to submission to the lab. Groundwater samples were collected in laboratory supplied glass vials and bottles containing preservatives (where applicable).

4.6.4 Groundwater: Laboratory Analysis

Groundwater samples were submitted to ALS under a signed chain-of-custody. ALS is accredited by CALA to perform the analysis required for the Phase II ESA. The analyses performed on the groundwater samples collected during the investigation is summarized in Table 2.

4.7 Residue Management Procedures

Waste materials generated during the Phase II ESA field activities included drill soil cuttings and purged groundwater. Soil cuttings and purged groundwater were placed in 205 litre steel drums for temporary storage at the Site prior to off-Site disposal at an MECP licensed facility.

4.8 Quality Assurance and Quality Control Measures

The following quality assurance / quality control (QA/QC) measures were employed during the Phase II ESA field investigation activities to maintain sample integrity:

- Sampling and monitoring equipment (e.g., oil/water interface meter) were cleaned between sampling points (e.g., monitoring wells) using an Alconox® and a distilled water mixture followed by a distilled water rinse;

[4] Turbidity 10%, Conductivity 3%, Dissolved Oxygen 10%, Temperature 3%, pH +/-0.1 units, ORP +/- 10 millivolts

- Disposable nitrile gloves were worn when handling sampling tools and samples and were replaced between subsequent samples;
- All soil and groundwater samples collected for laboratory analysis were collected in appropriate new sample containers provided by the laboratory;
- Field duplicate sample collection for soil was performed at a 10% frequency to evaluate the sampling procedure and the laboratory analytical precision for select analytes. The field duplicate sample summary is provided in Table ;
- Groundwater samples analyzed for PHC (F1) and VOCs were collected with no headspace to minimize degassing and potential loss of volatile compounds;
- Samples were stored in coolers equipped with ice until submission to the laboratory; and
- Samples submitted to the laboratory were accompanied by a signed and dated Chain of Custody form and were packaged in custody sealed coolers equipped with ice.

QA/QC measures performed by ALS consisted of the analysis of laboratory duplicate samples (DUP), laboratory control samples (LCS), matrix spikes (MS), method blanks (MB), internal reference material (IRM), surrogate recoveries (SR), and the use of analytical methods in accordance with CALA accreditation standards. Laboratory QA/QC is documented in the Certificates of Analysis provided in Appendix B. A review of the laboratory QA/QC data was performed by ECOH upon receipt of the Certificates of Analysis and is summarized in Section 5.7.

5. REVIEW AND EVALUATION

5.1 Geology

Details of soil stratigraphy observed in the boreholes advanced at the Site are presented on the log provided in Appendix A.

In general, the soil strata at the Site, based on the one borehole advanced by ECOH at the Site, comprised fine sand fill material overlying a native silty sand, followed by weathered shale. Further details are provided below:

- Fill material was encountered directly beneath the landscaped surface. The fill material extended to a maximum observed depth of 0.76 mbgs and generally comprised light brown fine sand. No visual or olfactory evidence of impact was identified within the fill material.
- A native brown silty sand stratum was encountered beneath the fill material to a maximum observed depth of 2.64 mbgs. No visual or olfactory evidence of impact was observed within this soil stratum.
- grey weathered shale (inferred) bedrock was encountered beneath the silty sand stratum to a maximum depth of 6.1 mbgs. No visual or olfactory evidence of impact was observed within weathered shale bedrock.

5.2 Groundwater: Elevations and Flow Direction

Static groundwater level measurements were obtained from the new and existing monitoring wells on September 3 and 9, 2021. Groundwater was encountered within the monitoring wells at depths ranging between 4.27 and 4.98 mbgs (MW4 and BHMW1, respectively). No light non-aqueous phase liquid (LNAPL) or dense non-aqueous phase liquid (DNAPL) was observed in the monitoring wells during the monitoring events. Groundwater level data is provided within the attached borehole log (Appendix A) and in Table 4.

With only two monitoring wells present within the work area, an interpretation of equipotential groundwater contours could not be used to determine the groundwater flow direction. As such, the general groundwater flow directions are inferred based on regional topography and is inferred to be towards the southeast based on the topographical information outlined in the Phase One ESA completed by Sirati in April 2021.

5.3 Soil Texture

One soil sample was submitted for grain size analysis (75 µm sieve) to assist with soil texture classification. The result of the sieve analysis is presented in Table 6 and is shown below.

Sieve Analysis Results			
Sample ID	**Soil Type**	**%>75 µm**	**Classification**
BHMW1-GS	Silty Sand	71.7%	Coarse

Based on the above grain size analysis test, coarse textured soils standards, as defined by O. Reg. 153/04 (as amended) were applied to the Site. The grain size analytical results are presented in Appendix B.

5.4 Field Screening

Soil field screening techniques employed during the Phase II ESA field assessment included recording visual observations of soil characteristics and measurement of headspace vapour concentrations.

No visual and/or olfactory evidence of contamination was observed in the recovered soil samples. Soil organic vapour measurement (OVM) readings recorded on soil samples collected from the one borehole advanced by ECOH are presented in the borehole log provided in Appendix A. The OVM readings ranged from 0 to 55 ppm for hexane response and 0 ppm for isobutylene response.

5.5 Soil Quality

The soil analytical results, with comparison to the applicable MECP Table 3 SCS, are presented in Table 6 to Table 12. Copies of the laboratory Certificates of Analysis are provided in Appendix B. The following sections discuss the soil sample analytical results.

5.5.1 Soil: pH

One surface (< 1.5 mbgs) and one sub-surface (>1.5 mbgs) soil samples were submitted to ALS for pH analysis. The pH analytical results are presented in Table 6.

The surface soil sample recorded a pH value of 7.35, which is within the acceptable pH range for surface soils (i.e., 5 – 9). The sub-surface soil sample recorded a pH value of 8.08, which are within the acceptable range for sub-surface soils (i.e., 5 – 11). Based on the pH analytical results, the Site is not considered sensitive due to pH, as per Section 41 of O. Reg. 153/04 (as amended).

5.5.2 Soil: Metals & Inorganics

A total of two soil samples, which included one field duplicate soil sample, were submitted to ALS for analysis of metals & inorganics. The analytical results (see Table 7) indicated that metal parameter concentrations were below the applicable MECP Table 3 SCS for the samples analyzed.

5.5.3 Soil: Polycyclic Aromatic Hydrocarbons

A total of one soil sample was submitted to ALS for analysis of PAHs. The analytical results (see Table 8) indicated that PAH parameter concentrations were below the applicable MECP Table 3 SCS for the samples analyzed.

5.5.4 Soil: Petroleum Hydrocarbons (F1- F4)

A total of one soil sample was submitted to ALS for analysis of PHCs (F1-F4). The analytical results (see Table 9) indicated that PHCs (F1- F4) concentrations were below the applicable MECP Table 3 SCS for the samples analyzed.

5.5.5 Soil: Volatile Organic Compounds

A total of one soil samples was submitted to ALS for analysis of VOCs. The analytical results (see Table 10) indicated that VOC concentrations were below the applicable MECP Table 3 SCS for the samples analyzed.

5.5.6 Soil: Polychloronated Biphenyls

A total of one soil sample was submitted to ALS for analysis of PCBs. The analytical results (see Table 11) indicated that PCB concentrations were below the applicable MECP Table 3 SCS for the samples analyzed.

5.5.7 Soil: Toxicity Characteristic Leaching Procedure

The results of the TCLP analyses are presented in Table 12. In summary, the analytical results indicated that the soil was below the Schedule 4 Leachate Criteria for the parameters analyzed; therefore, the soil was characterized as non-hazardous waste soil.

5.6 Groundwater Quality

The groundwater analytical results, with comparison to the applicable (MECP Table 3 SCS), are presented in Table 13 to Table 17. Copies of the laboratory Certificates of Analysis are provided in Appendix B. The following sections discuss the groundwater analytical results.

5.6.1 Groundwater: Metals & Inorganics

A total of two groundwater samples were submitted to ALS for analysis of metals & inorganics. The analytical results (see Table 13) indicated that concentrations for the metal parameters analyzed were below the applicable MECP Table 3 SCS for the samples analyzed.

5.6.2 Groundwater: Polycyclic Aromatic Hydrocarbons

A total of one groundwater samples was submitted to ALS for analysis of PAHs. The analytical results (see Table 14) indicated that concentrations for PAHs were below the applicable MECP Table 3 SCS for the samples analyzed.

5.6.3 Groundwater: Petroleum Hydrocarbons (F1- F4)

A total of two groundwater samples were submitted to ALS for analysis of PHCs (F1-F4). The analytical results (see Table 15) indicated that concentrations for PHCs (F1 –F4) were below the applicable MECP Table 3 SCS for the samples analyzed.

5.6.4 Groundwater: Volatile Organic Compounds

A total of two groundwater samples were submitted to ALS for analysis of VOCs. The analytical results (see Table 16) indicated that concentrations for VOCs were below the applicable MECP Table 3 SCS for the samples analyzed.

5.6.5 Groundwater: Polychlorinated Biphenyls

A total of one groundwater sample was submitted to ALS for analysis of PCBs. The analytical results (see Table 17) indicated that concentrations for PCBs were below the applicable MECP Table 3 SCS for the samples analyzed.

5.7 Quality Assurance and Quality Control Results

5.7.1 Laboratory Quality Control

Laboratory quality control (QC) samples are prepared and analyzed by the laboratory to ascertain the accuracy and precision of the analytical reported results. In summary, there were no laboratory QC recoveries or values outside of the applicable QC limits which could have a material effect on the interpretation of the analytical results.

5.8 Field Quality Control Samples

Field Duplicate Samples

A field duplicate soil sample was collected during the Phase II ESA to validate the field sampling technique precision. ECOH collected one field duplicate soil sample and submitted for analysis of metals & inorganics. For each set of field duplicates, the relative percent difference (RPD) was calculated using the following formula:

$$RPD\ (\%) = \frac{X1 - X2}{Xavg}\ x\ 100$$

In the above formula, *X1* and *X2* are the measured concentrations of the duplicate pairs and *Xavg* is the mean of these two (2) values. Results for duplicate analyses of field duplicate samples were considered acceptable where RPD values were <100% for soil duplicate analyses and <80% (VOCs, PHCs, PAHs) and 50% (metals) for groundwater duplicate analyses. RPDs were not calculated where the concentration in both samples were less than five times the laboratory reportable detection limits (RDLs).

In summary, all calculable RPDs were below the applicable alert limits for soil, as shown in Table 18.

5.8.1 QA/QC Summary

All hold times were met and the appropriate preservation methods were used. Samples were collected in the appropriate clean sample containers provided by ALS and stored on sufficient ice to keep the temperature between 0 and 10°C. A chain-of-custody accompanied all analyzed samples and they are included with the laboratory certificates of analyses provided in Appendix B.

In summary, no issues with laboratory analysis, sample shipping, sample preservation, or field sampling techniques that could have a material effect on the interpretation of the reported results were identified as part of the QA/QC program. Therefore, the analytical laboratory data is considered reliable.

6. SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

6.1 Summary

The following is a summary of the Phase II ESA activities and findings:

- The Phase II ESA field activities were undertaken at the Site between September 2 and September 9, 2021 and included the advancement of one borehole which was instrumented with a groundwater monitoring well.
- The soil stratigraphy at the Site comprised a light brown fine sand fill layer beneath the topsoil, underlain by a native brown silty sand and grey weathered shale strata.
- There was no visual or olfactory evidence of impacts in the samples collected.
- Groundwater levels measured within the existing monitoring well and new monitoring well installed at the Site ranged between 4.27 (MW4) to 4.98 (BHMW1) mbgs.
- Based on the topographical information outlined in a Phase One ESA completed by Sirati in April 2021, the regional groundwater flow is inferred to be towards the southeast.
- The Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, with Parkland/Institutional/Residential Property Use and Coarse Textured Soil Conditions were selected to assess the environmental quality of soil and groundwater at the Site.
- A total of two soil samples, which included one field duplicate soil sample, were collected and submitted to ALS for chemical analysis of PHC (F1-F4), PAHs, VOCs, PCBs, Metals & Inorganics, pH, and grain size. The soil analytical results indicated that concentrations of the parameters analyzed were below the applicable MECP Table 3 SCS in the samples analyzed
- A total of two groundwater samples, were collected and submitted to ALS for chemical analysis of PHC (F1-F4), PAHs, VOCs, PCBs and Metals & Inorganics. The analytical results indicated that the concentrations of the parameters analyzed were below the applicable MECP Table 3 SCS in the samples analyzed.

6.2 Conclusions & Recommendations

The Phase II ESA was completed to investigate the potential for soil and groundwater impacts at one area of potential environmental concern (APEC-1) that was identified at the Site by a Phase One ESA by Sirati in 2021. One borehole was advanced by ECOH at APEC-1 and was completed as a monitoring well. Soil samples were collected during borehole drilling and submitted for laboratory analysis, and a groundwater sample was collected from the one newly installed monitoring well and one existing monitoring well at APEC-1.

Based on the findings of the Phase II ESA, the concentrations of the contaminants of concern analyzed in the soil and groundwater samples collected at APEC 1 were below the applicable

MECP Table 3 SCS. Therefore, further investigation of APEC-1 is not recommended at this time. No additional APECs were identified on the Site by the Sirati Phase One ESA and therefore this Phase II ESA has investigated the previously identified APECs on the site and did not identify exceedances of the applicable SCS. Based on these findings, additional site investigations would not be warranted at this time.

It is recommended that the monitoring wells on-site be decommissioned in accordance with O. Reg. 903 (as amended) once it is determined that the monitoring wells are no longer required.

7. STATEMENT OF LIMITATIONS

The results, field observations and conclusions drawn by ECOH concerning the Phase II ESA conducted for the property located at 65 & 71 Agnes Street in Mississauga, ON are limited to the specific scope of work for which ECOH was retained and are based solely on information generated as a result of the specific scope of work authorized by Intentional Capital. The conclusions are limited to the specific locations of soil samples collected for analytical testing and on observations made during the course of the program.

It is ECOH's professional opinion that the level of detail carried out during the Phase II ESA at the Site is appropriate to meet the study objectives. However, there is no warranty, expressed or implied, that this investigation has uncovered all potential environmental liabilities associated with the Site. In addition, ECOH cannot guarantee the completeness or accuracy of information supplied by a third party. It should also be noted that any investigation regarding the presence of contamination on the Site is based on interpretation of conditions determined at specific sampling locations, and conditions may vary between sampling locations.

This report was prepared by ECOH for the purposes of Intentional Capital. The material in it reflects ECOH's professional interpretation of information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. ECOH accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. Should additional information become available that suggests other environmental issues of concern beyond that described in this report, ECOH retains the right to review this information and modify conclusions and recommendations presented in this report accordingly. ECOH is an Environmental Consulting Company and as such any results or conclusions presented in this report should not be construed as legal advice.

8. REFERENCES

- Canadian Standard Association (CSA)-Z769-00 (R2018) - Phase II Environmental Site Assessment Standard.
- Ontario Ministry of the Environment, Conservation and Parks, Ontario Regulation 153/04, Record of Site Condition, Part XV.1 of the Act., April 2011.
- Soil and Sediment Standards, retrieved from: https://www.ontario.ca/page/soil-ground-water-and-sediment-standards-use-under-part-xv1-environmental-protection-act
- Ontario Groundwater Database, retrieved from: http://ontariogroundwater.com/maps/
- Phase One Environmental Site Assessment, 65 & 71 Agnes Street, Mississauga, Ontario. Sirati & Partners Consultants Ltd.", dated April, 2021.

FIGURES

Legend

Site Boundary

Rev.	Description	Date	Initials
--	Original Issue	Sept.2021	AN

Figure 1

Site Location Map

LOCATION:

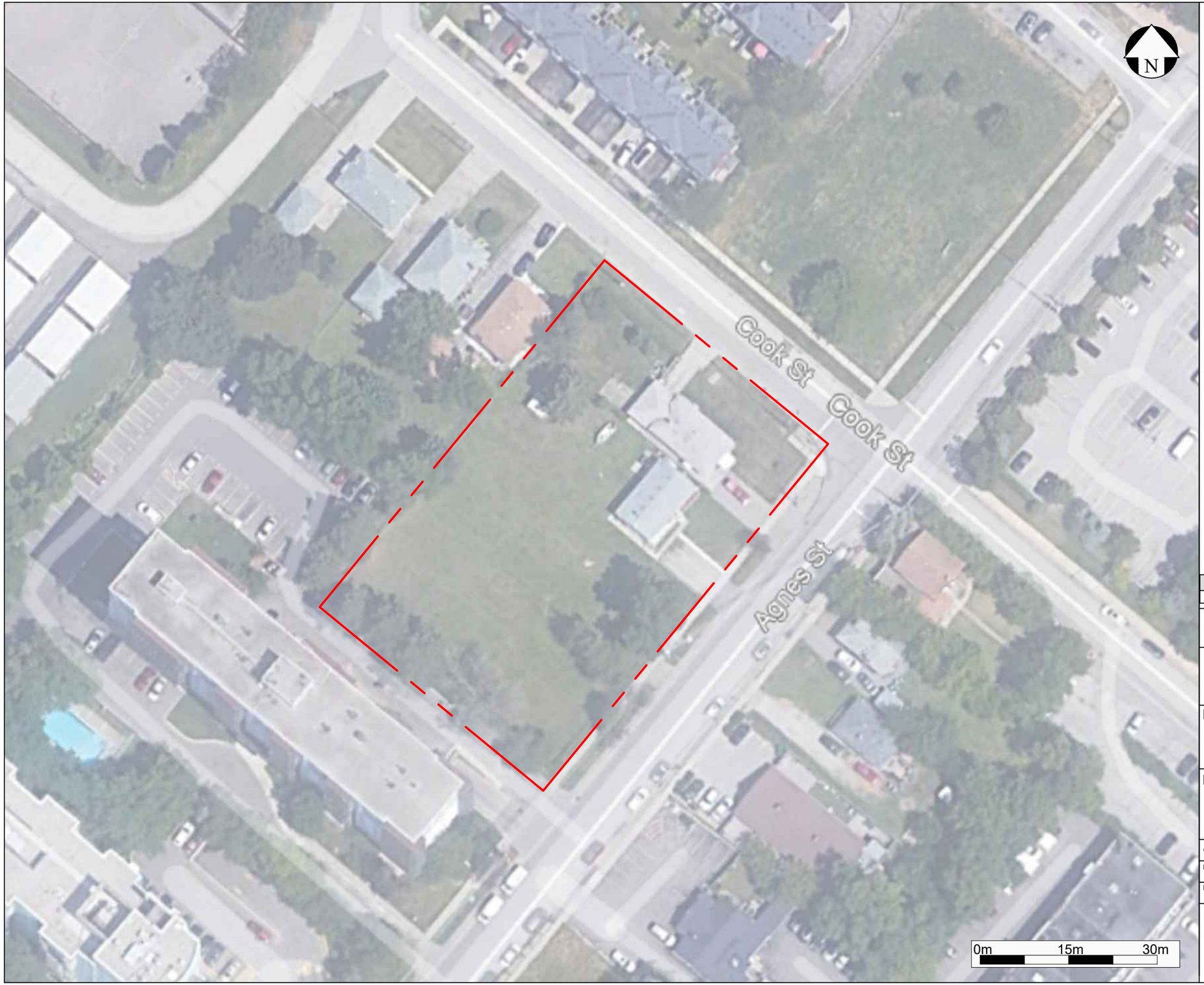
65 & 71 Agnes street
Mississauga, Ontario

PROJECT:

Phase Two Environmental Site Assessment

CLIENT:	Intentional Capital		
PROJECT NUMBER: 26685	DATE: September 2021	DRW BY: AN	
REVISION: --	SCALE: As Noted	CHK BY: ID	

ECOH
Environmental Consulting
Occupational Health



Legend

Site Boundary

Rev.	Description	Date	Initials
--	Original Issue	Sept.2021	AN

Figure 2

Site Layout Plan

LOCATION:

65 & 71 Agnes street
Mississauga, Ontario

PROJECT:

Phase Two Environmental Site Assessment

CLIENT:	Intentional Capital		
PROJECT NUMBER: 26685	DATE: September 2021	DRW BY: AN	
REVISION: --	SCALE: As Noted	CHK BY: ID	

ECOH
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Legend

- Site Boundary
- Area of APEC 1 Identified by Sirati 2021 Phase One ESA
- MW1 — ECOH Groundwater Monitoring Well
- MW1 — Historic Groundwater Monitoring Well

Rev.	Description	Date	Initials
--	Original Issue	Sept.2021	AN

Figure 3

Borehole/Monitoring Well Location Plan

LOCATION:

65 & 71 Agnes street
Mississauga, Ontario

PROJECT:

Phase Two Environmental Site Assessment

CLIENT:	Intentional Capital		
PROJECT NUMBER:	26685	DATE: September 2021	DRW BY: AN
REVISION:	--	SCALE: As Noted	CHK BY: ID

ECOH
Environmental Consulting
Occupational Health

TABLES

TABLE 1
Sample Container Details

Analyte	Container Type	Preservative
Soil		
Petroleum Hydrocarbon Fraction 1 & Volatile Organic Compounds	2 x 40 ml glass vial	Methanol (CH_3OH)
Petroleum Hydrocarbon Fractions 2 through 4	1 x 125ml clear glass jar	None
Polycyclic Aromatic Hydrocarbons & Polychlorinated Biphenyls	1 x 125ml clear glass jar	None
Metals & Inorganics	1 x 250ml clear glass jar	None
pH	1 x 125ml clear glass jar	None
Grain Size	1 x 250ml clear glass jar	None
Groundwater		
Petroleum Hydrocarbon Fraction 1 & Volatile Organic Compounds	2 x 40 ml clear glass vial	Sodium bisulfate ($NaHSO_4$)
Petroleum Hydrocarbon Fractions 2 through 4	2 x 100 ml amber glass vial	Sodium bisulfate ($NaHSO_4$)
Polycyclic Aromatic Hydrocarbons & Polychlorinated Biphenyls	2 x 100 ml amber glass vial	Sodium bisulfate ($NaHSO_4$)
Metals & Inorganics	1 x 60 ml HDPE bottle	Nitric acid ($HNO_{3)}$
	1 x 250 ml HDPE bottle	None
Cyanide	1 x 60 ml HDPE bottle	Sodium Hydroxide (NaOH)
Chromium, Hexavalent	1 x 60 ml HDPE bottle	Nitric acid (HNO_3)
Mercury	1 x 40 ml glass vial	Hydrochloric Acid (HCl)

TABLE 2
Summary of Analyses

Samples							Worksheets													
Borehole / Monitoring Well ID	GPS Coordinates (Northing)	GPS Coordinates (Easting)	Sample ID	Sample Collection Date (mmm-dd-yy)	Sample Depth (mbgs)	Laboratory ID	Soil	Physical Tests	Metals & Inorganics	PAHs	PHCs (F1-F4)	VOCs	PCBs	TCLP	Groundwater	Metals & Inorganics	PAHs	PHCs (F1-F4)	VOCs	PCBs
BHMW1			BHMW1	Sep-09-21	4.98	L2637513-1										x		x	x	
			BHMW1-SS1	Sep-02-21	0-0.76	L2635191-1		x												
			BHMW1-SS4	Sep-02-21	2.29-3.05	L2635191-2		x	x	x	x	x	x							
			BHMW1-GS	Sep-02-21	N/A	L2635191-5		x												
			DUP1	Sep-02-21	2.29-3.05	L2635191-3			x											
			TCLP	Sep-02-21	N/A	L2635197-1								x						
MW4			MW4	Sep-03-21	4.27	L2635577-1										x	x	x	x	x

Notes:
1. PAHs = Polycyclic Aromatic Hydrocarbons
2. PHCs (F1-F4) = Petroleum Hydrocarbon Fractions 1 through 4
3. BTEX = Benzene, Toluene, Ethylbenzene and Xylenes
4. VOCs = Volatile Organic Compounds
5. sVOCs = semi-Volatile Organic Compounds
6. TCLP = Toxicity Characteristic Leaching Procedure
7. mbgs = Metres Below Ground Surface

TABLE 3

Duplicate Sample Summary

Borehole / Monitoring Well ID	Sample ID	Duplicate Sample ID	Sample Depth (mbgs)	Parameters
Soil				
BHMW1	BHMW-SS4	DUP1	2.29-3.05	Metals & Inorganics

Notes:

1. mbgs = Metres Below Ground Surface

TABLE 4

Monitoring Well Installation Details

Monitoring Well ID	Ground Elevation (mAAD)	Well Interior Diameter (mm)	Well Depth (mbgs)	Screened Interval (mbgs)	Type of Sealant Used		
					Flush Mount/ Concrete (mbgs)	Bentonite Pack (mbgs)	Sand Pack (mbgs)
BHMW1	N/A	50.80	5.49	2.44-5.49	N/A	0-1.83	1.83-5.49

Notes:

1. mbgs = Metres Below Ground Surface
2. mAAD = m Above Arbitrary Datum

TABLE 5

Groundwater Level and Elevation Data

Monitoring Well ID	Date (mmm-dd-yy)	Ground Elevation (mAAD)	Groundwater Level (mbgs)	Groundwater Elevation (mbgs)	LNAPL / DNAPL Thickness (mm)	OVM Reading (ppm)
BHMW1	Sep-09-21	N/A	4.98	N/A	N/A	100/5
MW4	Sep-03-21	N/A	4.27	N/A	N/A	0/0

Notes:

1. mbgs = Metres Below Ground Surface
2. mAAD = m Above Arbitrary Datum
3. OVM reading = hexane/isobutylene response in ppm
4. ppm = Parts Per Million
5. LNAPL = Light Non-Aqueous Phase Liquid
6. DNAPL = Dense Non-Aqueous Phase Liquid
7. NA = Not Applicable

TABLE 6

Soil Analytical Results – Physical Tests

Borehole / Monitoring Well ID	Units	MECP Table 3 SCS[2]	RDL	BHMW1		
Sample ID				BHMW1-SS1	BHMW1-SS4	BHMW1-GS
Sample Depth (m)				0-0.76	2.29-3.05	N/A
Laboratory ID				L2635191-1	L2635191-2	L2635191-5
Date Sampled				Sep-02-21	Sep-02-21	Sep-02-21
% Moisture	%	NA	0.25		7.97	-
pH	pH	NA	0.1	7.35	8.08	-
Grain Size (% > 75 um)	%	NA	NA	-	-	71.70

Notes:

1. MECP = Ministry of the Environment, Concervation and Parks
2. MECP Regulation 153/04 (as amended), Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition with Parkland/Institutional/Residential Use and Coarse Textured Soil
3. RDL = Reported Detection Limit
4. NA = Not Applicable

TABLE 7

Soil Analytical Results – Metals & Inorganics

Borehole / Monitoring Well ID	Units	MECP Table 3 SCS[2]	RDL	BHMW1	
Sample ID				BHMW1-SS4	DUP1
Sample Depth (m)				2.29-3.05	2.29-3.05
Laboratory ID				L2635191-2	L2635191-3
Date Sampled (mmm/dd/yy)				Sep-02-21	Sep-02-21
Antimony	µg/g	7.5	1.0	<1.0	<1.0
Arsenic	µg/g	18	1.0	2.6	2.5
Barium	µg/g	390	1.0	16.1	15.8
Beryllium	µg/g	4	0.50	<0.50	<0.50
Boron	µg/g	120	5.0	<5.0	<5.0
Cadmium	µg/g	1.2	0.50	<0.50	<0.50
Chromium	µg/g	160	1.0	7.8	7.7
Cobalt	µg/g	22	1.0	2.4	2.4
Copper	µg/g	140	1.0	7.8	7.4
Lead	µg/g	120	1.0	9.5	7.9
Molybdenum	µg/g	6.9	1.0	<1.0	<1.0
Nickel	µg/g	100	1.0	5.5	5.4
Selenium	µg/g	2.4	1.0	<1.0	<1.0
Silver	µg/g	20	0.20	<0.20	<0.20
Thallium	µg/g	1	0.50	<0.50	<0.50
Uranium	µg/g	23	1.0	<1.0	<1.0
Vanadium	µg/g	86	1.0	18.0	18.6
Zinc	µg/g	340	5.0	22.5	20.2

Notes:

1. MECP = Ministry of the Environment, Conservation and Parks
2. MECP Ontario Regulation 153/04 (as amended), Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition with Parkland/Institutional/Residential Use and Coarse Textured Soil
3. SCS = Site Condition Standard
4. RDL = Reported Detection Limit
5. <0.20 = Concentration of parameter detected below the RDL
6. µg/g = microgram per gram
7. NA = Not Applicable
8. NV = No Value
9. Yellow highlight and bold - Concentration exceeds the applicable SCS

TABLE 8

Soil Analytical Results – Polycyclic Aromatic Hydrocarbons

Borehole / Monitoring Well ID	Units	MECP Table 3 SCS[2]	RDL	BHMW1
Sample ID				BHMW1-SS4
Sample Depth (m)				2.29-3.05
Laboratory ID				L2635191-2
Date Sampled (mmm/dd/yy)				Sep-02-21
Acenaphthene	µg/g	7.9	0.05	<0.050
Acenaphthylene	µg/g	0.15	0.05	<0.050
Anthracene	µg/g	0.67	0.05	<0.050
Benzo(a)anthracene	µg/g	0.5	0.05	<0.050
Benzo(a)pyrene	µg/g	0.3	0.05	<0.050
Benzo(b/j)fluoranthene	µg/g	0.78	0.05	<0.050
Benzo(g,h,i)perylene	µg/g	6.6	0.05	<0.050
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.050
Chrysene	µg/g	7	0.05	<0.050
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.050
Fluoranthene	µg/g	0.69	0.05	<0.050
Fluorene	µg/g	62	0.05	<0.050
Indeno(1,2,3-cd)pyrene	µg/g	0.38	0.05	<0.050
1-Methylnaphthalene	µg/g	0.99	0.03	<0.030
2-Methylnaphthalene	µg/g	0.99	0.03	<0.030
Naphthalene	µg/g	0.6	0.013	<0.013
Phenanthrene	µg/g	6.2	0.046	<0.046
Pyrene	µg/g	78	0.05	<0.050

Notes:

1. MECP = Ministry of the Environment, Conservation and Parks
2. MECP Ontario Regulation 153/04 (as amended), Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition with Parkland/Institutional/Residential Use and Coarse Textured Soil
3. SCS = Site Condition Standard
4. RDL = Reported Detection Limit
5. <0.20 = Concentration of parameter detected below the RDL
6. µg/g = microgram per gram
7. PAHs = Polycyclic Aromatic Hydrocarbons
8. NA = Not Applicable
9. NV = No Value
10. Yellow highlight and bold - Concentration exceeds the applicable SCS

TABLE 9

Soil Analytical Results - Petroleum Hydrocarbon Fractions 1 through 4

Borehole / Monitoring Well ID	Units	MECP Table 3 SCS[2]	RDL	BHMW1
Sample ID				BHMW1-SS4
Sample Depth (m)				2.29-3.05
Laboratory ID				L2635191-2
Date Sampled (mmm/dd/yy)				Sep-02-21
F1 (C6-C10)	µg/g	55	5.0	<5.0
F1 - BTEX	µg/g	55	5	<5.0
F2 (C10-C16)	µg/g	98	10	<10
F3 (C16-C34)	µg/g	300	50	<50
F4 (C34-C50)	µg/g	2800	50	<50

Notes:

1. MECP = Ministry of the Environment, Conservation and Parks
2. MECP Ontario Regulation 153/04 (as amended), Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition with Parkland/Institutional/Residential Use and Coarse Textured Soil
3. SCS = Site Condition Standard
4. RDL = Reported Detection Limit
5. <0.20 = Concentration of parameter detected below the RDL
6. µg/g = microgram per gram
7. PHCs (F1-F4) = Petroleum Hydrocarbon Fractions 1 through 4
8. BTEX = Benzene, Toluene, Ethylbenzene and Xylenes
9. NA = Not Applicable
10. NV = No Value
11. Yellow highlight and bold - Concentration exceeds the applicable SCS

TABLE 10
Soil Analytical Results - Volatile Organic Compounds

Borehole / Monitoring Well ID	Units	MECP Table 3 SCS[1]	RDL	BHMW1
Sample ID				BHMW1-SS4
Sample Depth (m)				2.29-3.05
Laboratory ID				L2635191-2
Date Sampled (mmm/dd/yy)				Sep-02-21
Acetone	µg/g	16	0.50	<0.50
Benzene	µg/g	0.21	0.0068	<0.0068
Bromodichloromethane	µg/g	13	0.050	<0.050
Bromoform	µg/g	0.27	0.050	<0.050
Bromomethane	µg/g	0.05	0.050	<0.050
Carbon Tetrachloride	µg/g	0.05	0.050	<0.050
Chlorobenzene	µg/g	2.4	0.050	<0.050
Chloroform	µg/g	0.05	0.050	<0.050
Dibromochloromethane	µg/g	9.4	0.050	<0.050
Dichlorodifluoromethane	µg/g	16	0.050	<0.050
1,2-Dichlorobenzene	µg/g	3.4	0.050	<0.050
1,3-Dichlorobenzene	µg/g	4.8	0.050	<0.050
1,4-Dichlorobenzene	µg/g	0.083	0.050	<0.050
1,1-Dichloroethane	µg/g	3.5	0.050	<0.050
1,2-Dichloroethane	µg/g	0.05	0.050	<0.050
1,1-Dichloroethylene	µg/g	0.05	0.050	<0.050
cis-1,2-Dichloroethylene	µg/g	3.4	0.050	<0.050
trans-1,2-Dichloroethylene	µg/g	0.084	0.050	<0.050
1,2-Dichloropropane	µg/g	0.05	0.050	<0.050
1,3-Dichloropropene, total	µg/g	0.05	0.042	<0.042
Ethylbenzene	µg/g	2	0.018	<0.018
Hexane	µg/g	2.8	0.050	<0.050
Methyl Ethyl Ketone (2-Butanone)	µg/g	16	0.50	<0.50
Methyl Isobutyl Ketone	µg/g	1.7	0.50	<0.50
Methyl tert-butyl ether	µg/g	0.75	0.050	<0.050
Methylene Chloride	µg/g	0.1	0.050	<0.050
Styrene	µg/g	0.7	0.050	<0.050
1,1,1,2-Tetrachloroethane	µg/g	0.058	0.050	<0.050
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.050	<0.050
Tetrachloroethylene	µg/g	0.28	0.050	<0.050
Toluene	µg/g	2.3	0.080	<0.080
1,1,1-Trichloroethane	µg/g	0.38	0.050	<0.050
1,1,2-Trichloroethane	µg/g	0.05	0.050	<0.050
Trichloroethylene	µg/g	0.061	0.010	<0.010
Trichlorofluoromethane	µg/g	4	0.050	<0.050
Vinyl Chloride	µg/g	0.02	0.020	<0.020
Total Xylenes	µg/g	3.1	0.050	<0.050

Notes:

1. MECP = Ministry of the Environment, Conservation and Parks
2. MECP Ontario Regulation 153/04 (as amended), Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition with Parkland/Institutional/Residential Use and Coarse Textured Soil
3. SCS = Site Condition Standard
4. RDL = Reported Detection Limit
5. <0.20 - Concentration of parameter detected below the RDL
6. µg/g = microgram per gram
7. VOCs = Volatile Organic Compounds
8. NA = Not Applicable
9. NV = No Value
10. Yellow highlight and bold - Concentration exceeds the applicable SCS

TABLE 11

Soil Analytical Results - Ploychlorinated Biphenyls

Borehole / Monitoring Well ID	Units	MECP Table 3 SCS[1]	RDL	BHMW1
Sample ID				BHMW1-SS4
Sample Depth (m)				2.29-3.05
Laboratory ID				L2635191-2
Date Sampled (mmm/dd/yy)				Sep-02-21
PCBs				
Total PCBs	µg/g	0.35	0.020	<0.020

Notes:

1. MECP = Ministry of the Environment, Conservation and Parks
2. MECP Ontario Regulation 153/04 (as amended), Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition with Industrial/Community/Commercial Use and Medium/Fine Textured Soil
3. SCS = Site Condition Standard
4. RDL = Reported Detection Limit
5. <0.20 - Concentration of parameter detected below the RDL
6. µg/g = microgram per gram
7. PCBs = Polychlorinated Biphenyls
8. ABNs = Acid-Base Neutrals
9. NA = Not Applicable
10. NV = No Value
11. Yellow highlight and bold - Concentration exceeds the applicable SCS

TABLE 12

Soil Analytical Results - Toxicity Characteristic Leaching Procedure

Borehole / Monitoring Well ID	MECP Criteria[2]	Units	RDL	BHMW1
Sample ID				TCLP
Laboratory ID				L2635197-1
Date Sampled (mmm/dd/yy)				Sep-09-21
Ignitability				
Ignitability	NV	NV	NA	NF/NI
TCLP Prep				
TCLP - % Solids	NV	%	0.2	NA
TCLP Extraction Fluid	NV	NV	NA	NA
Initial pH	NV	pH	NA	9.18
Final pH	NV	pH	NA	6.18
TCLP Inorganics				
Leachable WAD Cyanide (Free)	20	mg/L	0.10	<0.10
Leachable Fluoride	150	mg/L	10	<10
Leachable Nitrate	NV	mg/L	2.0	<2.0
Leachable Nitrite	NV	mg/L	2.0	<2.0
Leachable Nitrate + Nitrite	1000	mg/L	4.0	<4.0
Leachable Arsenic	2.5	mg/L	0.2	<0.050
Leachable Barium	100	mg/L	0.50	<0.50
Leachable Boron	500	mg/L	2.5	<2.5
Leachable Cadmium	0.5	mg/L	0.0050	<0.0050
Leachable Chromium	5	mg/L	0.050	<0.050
Leachable Lead	5	mg/L	0.025	<0.025
Leachable Mercury	0.1	mg/L	0.00010	<0.00010
Leachable Selenium	1	mg/L	0.025	<0.025
Leachable Silver	5	mg/L	0.0050	<0.0050
Leachable Uranium	10	mg/L	0.25	<0.25
TCLP Prep - Volatiles				
Amount Extracted (Wet Weight) (g)	NV	NV	NA	NA
TCLP Volatile Organic Compounds				
Leachable Benzene	0.5	mg/L	0.025	<0.025
Leachable Chloroform	10	mg/L	0.10	<0.10
Leachable Chlorobenzene	8	mg/L	0.025	<0.025
Leachable Carbon Tetrachloride	0.5	mg/L	0.025	<0.025
Leachable 1,2-Dichlorobenzene	20	mg/L	0.025	<0.025
Leachable 1,4-Dichlorobenzene	0.5	mg/L	0.025	<0.025
Leachable 1,2-Dichloroethane	0.5	mg/L	0.025	<0.025
Leachable 1,1-Dichloroethylene	1.4	mg/L	0.025	<0.025
Leachable Methyl Ethyl Ketone (2-Butanone)	200	mg/L	1.0	<1.0
Leachable Methylene Chloride (Dichloromethane)	5	mg/L	0.50	<0.50
Leachable Tetrachloroethylene	3	mg/L	0.025	<0.025
Leachable Trichloroethylene	5	mg/L	0.025	<0.025
Leachable Vinyl Chloride	0.2	mg/L	0.05	<0.05

1. MECP = Ministry of the Environment, Conservation and Parks
2. MECP Ontario Regulation 558/00
3. RDL = Reported Detection Limit
4. NF/NI = Non-Flammable/Non-Ignitable
5. mg/L = milligram per litre
6. NA = Not Applicable
7. NV = No Value
8. Yellow highlight and bold - Concentration exceeds the applicable SCS

TABLE 13

Groundwater Analytical Results – Metals & Inorganics

Borehole / Monitoring Well ID	Units	MECP Table 3 SCS[2]	RDL (BHMW1)	RDL (MW4)	BHMW1	MW4
Sample ID					BHMW1	MW4
Sample Depth (m)					4.98	4.27
Laboratory ID					L2637513-1	L2635577-1
Date Sampled (mmm/dd/yy)					Sep-09-21	Sep-03-21
Antimony	µg/L	20000	1.00	0.10	1.4	<0.10
Arsenic	µg/L	1900	1.00	0.10	2.8	0.22
Barium	µg/L	29000	1.00	0.10	160	341
Beryllium	µg/L	67	1.00	0.10	<1.0	<0.10
Boron	µg/L	45000	100	10	500	236
Cadmium	µg/L	2.7	0.050	0.010	<0.050	<0.010
Chromium	µg/L	810	5.00	0.50	<5.0	<0.50
Cobalt	µg/L	66	1.00	0.10	<1.0	<0.10
Copper	µg/L	87	2.00	0.20	3.6	3.72
Lead	µg/L	25	0.500	0.050	<0.50	0.051
Mercury	µg/L	0.29	0.0050	0.0050	0.0643	<0.0050
Molybdenum	µg/L	9200	0.500	0.050	27.1	0.524
Nickel	µg/L	490	5.00	0.50	<5.0	<0.50
Selenium	µg/L	63	0.500	0.050	1.18	0.096
Silver	µg/L	1.5	0.500	0.050	<0.50	<0.050
Sodium	µg/L	2300000	500	500	137000	162000
Thallium	µg/L	510	0.100	0.010	<0.10	<0.010
Uranium	µg/L	420	0.100	0.010	2.26	0.331
Vanadium	µg/L	250	5.00	0.50	<5.0	<0.50
Zinc	µg/L	1100	10.0	1.0	<10	3.4
Chloride	µg/L	2300	2.500	2.500	511	513
Chromium, Hexavalent	µg/L	140	0.50	0.50	<0.50	<0.50
Cyanide (WAD)	µg/L	66	2.0	2.0	<2.0	<2.0

Notes:

1. MECP = Ministry of the Environment, Conservation and Parks
2. MECP Ontario Regulation 153/04 (as amended), Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition with All Types of Property Use and Coarse Textured Soil
3. SCS = Site Condition Standard
4. RDL = Reported Detection Limit
5. <0.20 = Concentration of parameter detected below the RDL
6. µg/L = microgram per litre
7. NA = Not Applicable
8. NV = No Value
9. Yellow highlight and bold - Concentration exceeds the applicable SCS

TABLE 14

Groundwater Analytical Results – Polycyclic Aromatic Hydrocarbons

Borehole / Monitoring Well ID	Units	MECP Table 3 SCS[2]	RDL	BHMW1	MW4
Sample ID				BHMW1	MW4
Sample Depth (m)				4.98	4.27
Laboratory ID				L2637513-1	L2635577-1
Date Sampled (mmm/dd/yy)				Sep-09-21	Sep-03-21
Acenaphthene	µg/L	600	0.02	N/A	<0.020
Acenaphthylene	µg/L	1.8	0.02	N/A	<0.020
Anthracene	µg/L	2.4	0.02	N/A	<0.020
Benzo(a)anthracene	µg/L	4.7	0.02	N/A	<0.020
Benzo(a)pyrene	µg/L	0.81	0.01	N/A	<0.010
Benzo(b/j)fluoranthene	µg/L	0.8	0.02	N/A	<0.020
Benzo(g,h,i)perylene	µg/L	0.2	0.02	N/A	<0.020
Benzo(k)fluoranthene	µg/L	0.4	0.02	N/A	<0.020
Chrysene	µg/L	1	0.02	N/A	<0.020
Dibenz(a,h)anthracene	µg/L	0.52	0.02	N/A	<0.020
Fluoranthene	µg/L	130	0.02	N/A	<0.020
Fluorene	µg/L	400	0.02	N/A	<0.020
Indeno(1,2,3-cd)pyrene	µg/L	0.2	0.02	N/A	<0.020
1-Methylnaphthalene	µg/L	1800	0.02	N/A	<0.020
2-Methylnaphthalene	µg/L	1800	0.02	N/A	<0.020
Naphthalene	µg/L	1400	0.05	N/A	<0.050
Phenanthrene	µg/L	580	0.02	N/A	<0.020
Pyrene	µg/L	68	0.02	N/A	<0.020

Notes:

1. MECP = Ministry of the Environment, Conservation and Parks
2. MECP Ontario Regulation 153/04 (as amended), Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition with All Types of Property Use and Coarse Textured Soil
3. SCS = Site Condition Standard
4. RDL = Reported Detection Limit
5. <0.20 = Concentration of parameter detected below the RDL
6. µg/L = microgram per litre
7. PAHs = Polycyclic Aromatic Hydrocarbons
8. NA = Not Applicable
9. NV = No Value
10. Yellow highlight and bold - Concentration exceeds the applicable SCS

TABLE 15

Groundwater Analytical Results - Petroleum Hydrocarbon Fractions 1 through 4

Borehole / Monitoring Well ID	Units	MECP Table 3 SCS[2]	RDL	BHMW1	MW4
Sample ID				BHMW1	MW4
Sample Depth (m)				4.98	4.27
Laboratory ID				L2637513-1	L2635577-1
Date Sampled (mmm/dd/yy)				Sep-09-21	Sep-03-21
F1 (C6-C10) - BTEX	µg/L	750	25	<25	<25
F1 - BTEX	µg/L	750	25	<25	<25
F2 (C10-C16)	µg/L	150	100	<100	<100
F3 (C16-C34)	µg/L	500	250	<250	<250
F4 (C34-C50)	µg/L	500	250	<250	<250

Notes:

1. MECP = Ministry of the Environment, Conservation and Parks
2. MECP Ontario Regulation 153/04 (as amended), Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition with All Types of Property Use and Coarse Textured Soil
3. SCS = Site Condition Standard
4. RDL = Reported Detection Limit
5. <0.20 = Concentration of parameter detected below the RDL
6. µg/L = microgram per litre
7. PHCs (F1-F4) = Petroleum Hydrocarbon Fractions 1 through 4
8. BTEX = Benzene, Toluene, Ethylbenzene and Xylenes
9. NA = Not Applicable
10. NV = No Value
11. Yellow highlight and bold - Concentration exceeds the applicable SCS

TABLE 16

Groundwater Analytical Results - Volatile Organic Compounds

Borehole / Monitoring Well ID	Units	MECP Table 3 SCS[1]	RDL	BHMW1	MW4
Sample ID				BHMW1	MW4
Sample Depth (m)				4.98	4.27
Laboratory ID				L2637513-1	L2635577-1
Date Sampled (mmm/dd/yy)				Sep-09-21	Sep-03-21
Acetone	µg/L	130000	30	<30	<30
Benzene	µg/L	44	0.5	<0.5	<0.5
Bromodichloromethane	µg/L	85000	2.0	<2	<2
Bromoform	µg/L	380	5.0	<5	<5
Bromomethane	µg/L	5.6	0.5	<0.5	<0.5
Carbon Tetrachloride	µg/L	0.79	0.2	<0.2	<0.2
Chlorobenzene	µg/L	630	0.5	<0.5	<0.5
Chloroform	µg/L	2.4	1.0	<1	<1
Dibromochloromethane	µg/L	82000	2.0	<2	<2
Dichlorodifluoromethane	µg/L	4400	2.0	<2	<2
1,2-Dichlorobenzene	µg/L	4600	0.5	<0.5	<0.5
1,3-Dichlorobenzene	µg/L	9600	0.5	<0.5	<0.5
1,4-Dichlorobenzene	µg/L	8	0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	320	0.5	<0.5	<0.5
1,2-Dichloroethane	µg/L	1.6	0.5	<0.5	<0.5
1,1-Dichloroethylene	µg/L	1.6	0.5	<0.5	<0.5
cis-1,2-Dichloroethylene	µg/L	1.6	0.5	<0.5	<0.5
trans-1,2-Dichloroethylene	µg/L	1.6	0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	16	0.5	<0.5	<0.5
Ethylbenzene	µg/L	2300	0.5	<0.5	<0.5
Hexane	µg/L	51	0.5	<0.5	<0.5
Methyl Ethyl Ketone (2-Butanone)	µg/L	470000	20	<20	<20
Methyl Isobutyl Ketone	µg/L	140000	20	<20	<20
Methyl tert-butyl ether	µg/L	190	2.0	<2	<2
Methylene Chloride	µg/L	610	5.0	<5	<5
Styrene	µg/L	1300	0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	µg/L	3.3	0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	µg/L	3.2	0.5	<0.5	<0.5
Tetrachloroethylene	µg/L	1.6	0.5	<0.5	<0.5
Toluene	µg/L	18000	0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	640	0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	4.7	0.5	<0.5	<0.5
Trichloroethylene	µg/L	1.6	0.5	<0.5	<0.5
Trichlorofluoromethane	µg/L	2500	5.0	<5	<5
Vinyl Chloride	µg/L	0.5	0.5	<0.5	<0.5
Total Xylenes	µg/L	4200	0.5	<0.5	<0.5

Notes:

1. MECP = Ministry of the Environment, Conservation and Parks
2. MECP Ontario Regulation 153/04 (as amended), Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition with All Types of Property Use and Coarse Textured Soil
3. SCS = Site Condition Standard
4. RDL = Reported Detection Limit
5. <0.20 - Concentration of parameter detected below the RDL
6. µg/L = microgram per litre
7. VOCs = Volatile Organic Compounds
8. NA = Not Applicable
9. NV = No Value
10. Yellow highlight and bold - Concentration exceeds the applicable SCS

TABLE 17

Groundwater Analytical Results - Polychlorinated Biphenyls

Borehole / Monitoring Well ID	Units	MECP Table 3 SCS[1]	RDL	BHMW1	MW4
Sample ID				BHMW1	MW4
Sample Depth (m)				4.98	4.27
Laboratory ID				L2637513-1	L2635577-1
Date Sampled (mmm/dd/yy)				Sep-09-21	Sep-03-21
PAHs					
Total PCBs	µg/L	3	0.040	N/A	<0.040

Notes:

1. MECP = Ministry of the Environment, Conservation and Parks
2. MECP Ontario Regulation 153/04 (as amended), Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition All Types of Property Use and Coarse Textured Soil
3. SCS = Site Condition Standard
4. RDL = Reported Detection Limit
5. <0.20 - Concentration of parameter detected below the RDL
6. µg/L = microgram per litre
7. PAHs = Polycyclic Aromatic Hydrocarbons
8. ABNs = Acid-Base Neutrals
9. NA = Not Applicable
10. NV = No Value
11. Yellow highlight and bold - Concentration exceeds the applicable SCS

TABLE 16
Relative Percent Difference Values

Borehole / Monitoring Well ID	BHMW1		RDL	RPD[1] Values
Sample ID	BHMW1-SS4	DUP1		
Matrix	Soil			
Date Sampled (mmm/dd/yy)	Sep-02-21			
Metals				
Antimony	<1.0	<1.0	1.0	NC
Arsenic	2.6	2.5	1.0	4%
Barium	16.1	15.8	1.0	2%
Beryllium	<0.50	<0.50	0.5	NC
Boron	<5.0	<5.0	5.0	NC
Cadmium	<0.50	<0.50	0.5	NC
Chromium	7.8	7.7	1.0	1%
Cobalt	2.4	2.4	1.0	0%
Copper	7.8	7.4	1.0	5%
Lead	9.5	7.9	1.0	18%
Molybdenum	<1.0	<1.0	1.0	NC
Nickel	5.5	5.4	1.0	2%
Selenium	<1.0	<1.0	1.0	NC
Silver	<0.20	<0.20	0.2	NC
Thallium	<0.50	<0.50	0.5	NC
Uranium	<1.0	<1.0	1.0	NC
Vanadium	18	18.6	1.0	3%
Zinc	22.5	20.2	5.0	11%

Notes:

1. RPD = Relative percentage difference

2. RPD Calculation $= \frac{absolute\ (sample - duplicate)}{(sample + duplicate)/2} \times 100$

3. NC = Non-Calculable
4. RDL = Reported detection limit
5. Concentrations of parameters in µg/g (soil) and µg/L (groundwater)
6. PAHs = Polycyclic Aromatic Hydrocarbons
7. PHCs (F1-F4) = Petroleum Hydrocarbon Fractions 1 through 4
8. VOCs = Volatile Organic Compounds

APPENDIX A

Borehole Logs

BOREHOLE ID: BHMW1

PROJECT NUMBER 26685 **CLIENT** Intentional Capital **PROJECT LOCATION** 65 & 71 Agnes Street, Mississauga

DATE STARTED 2-9-21 **COMPLETED** 2-9-21 **DRILLING CONTRACTOR** Pontil Drilling

LOGGED BY ID **CHECKED BY** **DRILLING METHOD** CME55 - Split Spoon

NOTES **GROUND ELEVATION** **WELL DIAMETER** 2"

GROUND WATER LEVELS:

AFTER DRILLING 4.98 m

DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE CORE NUMBER	SAMPLE ID	DEPTH (mbgs)	Analysis	RECOVERY (%)	SOIL VAPOUR READINGS Hexene / Isobutylene(ppm)	GW LEVEL	WELL DIAGRAM
		0.10 TOPSOIL FINE SAND FILL -Light brown fine sand, dry	1	SS SS1	0 - 0.76	pH (<1.5mbgs)	60	0/0		
		0.76 (SM) SILTY SAND -Brown silty sand, minor gravel.	2	SS SS2	0.76 - 1.52		60	25/0		
1			3	SS SS3	1.52 - 2.29		80	20/0		
2			4	SS SS4	2.29 - 3.05	PHC F1-F4, VOCs, PAHs, PCBs, Metals & Inorganics, pH (>1.5mbgs)	90	30/0		
		(SM) Wet at 2.64mbgs								
3		3.20 WEATHERED SHALE -Grey weathered shale, dry, similar consistency at bottom of borehole	5	SS SS5	3.05 - 3.81		55	25/0		
4			6	SS SS6	3.81 - 4.57		30	40/0		
5			7	SS SS7	4.57 - 5.33		30	55/0	▼	
			8	SS SS8	5.33 - 6.1	Clean Bottom Sample	40	50/0		
6		6.10								

Bottom of borehole at 6.10 meters.

APPENDIX B

Certificates of Analysis

ECOH MANAGEMENT INC (Mississauga)
ATTN: Ian Duncan
75 Courtney Park Drive West
Unit 1
Mississauga ON L5W 0E3

Date Received: 02-SEP-21
Report Date: 13-SEP-21 10:59 (MT)
Version: FINAL REV. 2

Client Phone: 905-795-2800

Certificate of Analysis

Lab Work Order #: L2635191

Project P.O. #: NOT SUBMITTED
Job Reference: 26685
C of C Numbers: 20-897729
Legal Site Desc:

Emily Hansen
Account Manager

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3	#4
L2635191-1 BHMW1-SS1									
Sampled By: CLIENT on 02-SEP-21 @ 12:00									
Matrix: SOIL									
Physical Tests									
pH	7.35		0.10	pH units	07-SEP-21				
L2635191-2 BHMW1-SS4									
Sampled By: CLIENT on 02-SEP-21 @ 12:00									
Matrix: SOIL									
Physical Tests									
% Moisture	7.97		0.25	%	04-SEP-21				
pH	8.08		0.10	pH units	07-SEP-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	09-SEP-21	40	50	7.5	7.5
Arsenic (As)	2.6		1.0	ug/g	09-SEP-21	18	18	18	18
Barium (Ba)	16.1		1.0	ug/g	09-SEP-21	670	670	390	390
Beryllium (Be)	<0.50		0.50	ug/g	09-SEP-21	8	10	4	5
Boron (B)	<5.0		5.0	ug/g	09-SEP-21	120	120	120	120
Cadmium (Cd)	<0.50		0.50	ug/g	09-SEP-21	1.9	1.9	1.2	1.2
Chromium (Cr)	7.8		1.0	ug/g	09-SEP-21	160	160	160	160
Cobalt (Co)	2.4		1.0	ug/g	09-SEP-21	80	100	22	22
Copper (Cu)	7.8		1.0	ug/g	09-SEP-21	230	300	140	180
Lead (Pb)	9.5		1.0	ug/g	09-SEP-21	120	120	120	120
Molybdenum (Mo)	<1.0		1.0	ug/g	09-SEP-21	40	40	6.9	6.9
Nickel (Ni)	5.5		1.0	ug/g	09-SEP-21	270	340	100	130
Selenium (Se)	<1.0		1.0	ug/g	09-SEP-21	5.5	5.5	2.4	2.4
Silver (Ag)	<0.20		0.20	ug/g	09-SEP-21	40	50	20	25
Thallium (Tl)	<0.50		0.50	ug/g	09-SEP-21	3.3	3.3	1	1
Uranium (U)	<1.0		1.0	ug/g	09-SEP-21	33	33	23	23
Vanadium (V)	18.0		1.0	ug/g	09-SEP-21	86	86	86	86
Zinc (Zn)	22.5		5.0	ug/g	09-SEP-21	340	340	340	340
Volatile Organic Compounds									
Acetone	<0.50		0.50	ug/g	08-SEP-21	16	28	16	28
Benzene	<0.0068		0.0068	ug/g	08-SEP-21	0.32	0.4	0.21	0.17
Bromodichloromethane	<0.050		0.050	ug/g	08-SEP-21	18	18	13	13
Bromoform	<0.050		0.050	ug/g	08-SEP-21	0.61	1.7	0.27	0.26
Bromomethane	<0.050		0.050	ug/g	08-SEP-21	0.05	0.05	0.05	0.05
Carbon tetrachloride	<0.050		0.050	ug/g	08-SEP-21	0.21	1.5	0.05	0.12
Chlorobenzene	<0.050		0.050	ug/g	08-SEP-21	2.4	2.7	2.4	2.7
Dibromochloromethane	<0.050		0.050	ug/g	08-SEP-21	13	13	9.4	9.4
Chloroform	<0.050		0.050	ug/g	08-SEP-21	0.47	0.18	0.05	0.18
1,2-Dibromoethane	<0.050		0.050	ug/g	08-SEP-21	0.05	0.05	0.05	0.05
1,2-Dichlorobenzene	<0.050		0.050	ug/g	08-SEP-21	6.8	8.5	3.4	4.3
1,3-Dichlorobenzene	<0.050		0.050	ug/g	08-SEP-21	9.6	12	4.8	6
1,4-Dichlorobenzene	<0.050		0.050	ug/g	08-SEP-21	0.2	0.84	0.083	0.097
Dichlorodifluoromethane	<0.050		0.050	ug/g	08-SEP-21	16	25	16	25
1,1-Dichloroethane	<0.050		0.050	ug/g	08-SEP-21	17	21	3.5	11
1,2-Dichloroethane	<0.050		0.050	ug/g	08-SEP-21	0.05	0.05	0.05	0.05
1,1-Dichloroethylene	<0.050		0.050	ug/g	08-SEP-21	0.064	0.48	0.05	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T3-Soil-All

#1: T3-Soil-Ind/Com/Commu. Property Use (Coarse)

#2: T3-Soil-Ind/Com/Commu. Property Use (Fine)

#3: T3-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T3-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3	#4
L2635191-2 BHMW1-SS4									
Sampled By: CLIENT on 02-SEP-21 @ 12:00									
Matrix: SOIL									
Volatile Organic Compounds									
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	08-SEP-21	55	37	3.4	30
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	08-SEP-21	1.3	9.3	0.084	0.75
Methylene Chloride	<0.050		0.050	ug/g	08-SEP-21	1.6	2	0.1	0.96
1,2-Dichloropropane	<0.050		0.050	ug/g	08-SEP-21	0.16	0.68	0.05	0.085
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	08-SEP-21				
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	08-SEP-21				
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	08-SEP-21	0.18	0.21	0.05	0.083
Ethylbenzene	<0.018		0.018	ug/g	08-SEP-21	9.5	19	2	15
n-Hexane	<0.050		0.050	ug/g	08-SEP-21	46	88	2.8	34
Methyl Ethyl Ketone	<0.50		0.50	ug/g	08-SEP-21	70	88	16	44
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	08-SEP-21	31	210	1.7	4.3
MTBE	<0.050		0.050	ug/g	08-SEP-21	11	3.2	0.75	1.4
Styrene	<0.050		0.050	ug/g	08-SEP-21	34	43	0.7	2.2
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	08-SEP-21	0.087	0.11	0.058	0.05
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	08-SEP-21	0.05	0.094	0.05	0.05
Tetrachloroethylene	<0.050		0.050	ug/g	08-SEP-21	4.5	21	0.28	2.3
Toluene	<0.080		0.080	ug/g	08-SEP-21	68	78	2.3	6
1,1,1-Trichloroethane	<0.050		0.050	ug/g	08-SEP-21	6.1	12	0.38	3.4
1,1,2-Trichloroethane	<0.050		0.050	ug/g	08-SEP-21	0.05	0.11	0.05	0.05
Trichloroethylene	<0.010		0.010	ug/g	08-SEP-21	0.91	0.61	0.061	0.52
Trichlorofluoromethane	<0.050		0.050	ug/g	08-SEP-21	4	5.8	4	5.8
Vinyl chloride	<0.020		0.020	ug/g	08-SEP-21	0.032	0.25	0.02	0.022
o-Xylene	<0.020		0.020	ug/g	08-SEP-21				
m+p-Xylenes	<0.030		0.030	ug/g	08-SEP-21				
Xylenes (Total)	<0.050		0.050	ug/g	08-SEP-21	26	30	3.1	25
Surrogate: 4-Bromofluorobenzene	91.7		50-140	%	08-SEP-21				
Surrogate: 1,4-Difluorobenzene	95.5		50-140	%	08-SEP-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	08-SEP-21	55	65	55	65
F1-BTEX	<5.0		5.0	ug/g	09-SEP-21	55	65	55	65
F2 (C10-C16)	<10		10	ug/g	09-SEP-21	230	250	98	150
F2-Naphth	<10		10	ug/g	09-SEP-21				
F3 (C16-C34)	<50		50	ug/g	09-SEP-21	1700	2500	300	1300
F3-PAH	<50		50	ug/g	09-SEP-21				
F4 (C34-C50)	<50		50	ug/g	09-SEP-21	3300	6600	2800	5600
Total Hydrocarbons (C6-C50)	<72		72	ug/g	09-SEP-21				
Chrom. to baseline at nC50	YES			No Unit	09-SEP-21				
Surrogate: 2-Bromobenzotrifluoride	74.2		60-140	%	09-SEP-21				
Surrogate: 3,4-Dichlorotoluene	80.8		60-140	%	08-SEP-21				
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	<0.050		0.050	ug/g	09-SEP-21	96	96	7.9	58
Acenaphthylene	<0.050		0.050	ug/g	09-SEP-21	0.15	0.17	0.15	0.17
Anthracene	<0.050		0.050	ug/g	09-SEP-21	0.67	0.74	0.67	0.74
Benzo(a)anthracene	<0.050		0.050	ug/g	09-SEP-21	0.96	0.96	0.5	0.63
Benzo(a)pyrene	<0.050		0.050	ug/g	09-SEP-21	0.3	0.3	0.3	0.3
Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	09-SEP-21	0.96	0.96	0.78	0.78

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T3-Soil-All

#1: T3-Soil-Ind/Com/Commu. Property Use (Coarse)

#2: T3-Soil-Ind/Com/Commu. Property Use (Fine)

#3: T3-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T3-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3	#4
L2635191-2 BHMW1-SS4									
Sampled By: CLIENT on 02-SEP-21 @ 12:00									
Matrix: SOIL									
Polycyclic Aromatic Hydrocarbons									
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	09-SEP-21	9.6	9.6	6.6	7.8
Benzo(k)fluoranthene	<0.050		0.050	ug/g	09-SEP-21	0.96	0.96	0.78	0.78
Chrysene	<0.050		0.050	ug/g	09-SEP-21	9.6	9.6	7	7.8
Dibenz(a,h)anthracene	<0.050		0.050	ug/g	09-SEP-21	0.1	0.1	0.1	0.1
Fluoranthene	<0.050		0.050	ug/g	09-SEP-21	9.6	9.6	0.69	0.69
Fluorene	<0.050		0.050	ug/g	09-SEP-21	62	69	62	69
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	09-SEP-21	0.76	0.95	0.38	0.48
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	09-SEP-21	76	85	0.99	3.4
1-Methylnaphthalene	<0.030		0.030	ug/g	09-SEP-21	76	85	0.99	3.4
2-Methylnaphthalene	<0.030		0.030	ug/g	09-SEP-21	76	85	0.99	3.4
Naphthalene	<0.013		0.013	ug/g	09-SEP-21	9.6	28	0.6	0.75
Phenanthrene	<0.046		0.046	ug/g	09-SEP-21	12	16	6.2	7.8
Pyrene	<0.050		0.050	ug/g	09-SEP-21	96	96	78	78
Surrogate: 2-Fluorobiphenyl	92.0		50-140	%	09-SEP-21				
Surrogate: d14-Terphenyl	92.8		50-140	%	09-SEP-21				
Polychlorinated Biphenyls									
Aroclor 1242	<0.010		0.010	ug/g	09-SEP-21				
Aroclor 1248	<0.010		0.010	ug/g	09-SEP-21				
Aroclor 1254	<0.010		0.010	ug/g	09-SEP-21				
Aroclor 1260	<0.010		0.010	ug/g	09-SEP-21				
Total PCBs	<0.020		0.020	ug/g	09-SEP-21	1.1	1.1	0.35	0.35
Surrogate: d14-Terphenyl	102.2		60-140	%	09-SEP-21				
L2635191-3 DUP1									
Sampled By: CLIENT on 02-SEP-21									
Matrix: SOIL									
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	09-SEP-21	40	50	7.5	7.5
Arsenic (As)	2.5		1.0	ug/g	09-SEP-21	18	18	18	18
Barium (Ba)	15.8		1.0	ug/g	09-SEP-21	670	670	390	390
Beryllium (Be)	<0.50		0.50	ug/g	09-SEP-21	8	10	4	5
Boron (B)	<5.0		5.0	ug/g	09-SEP-21	120	120	120	120
Cadmium (Cd)	<0.50		0.50	ug/g	09-SEP-21	1.9	1.9	1.2	1.2
Chromium (Cr)	7.7		1.0	ug/g	09-SEP-21	160	160	160	160
Cobalt (Co)	2.4		1.0	ug/g	09-SEP-21	80	100	22	22
Copper (Cu)	7.4		1.0	ug/g	09-SEP-21	230	300	140	180
Lead (Pb)	7.9		1.0	ug/g	09-SEP-21	120	120	120	120
Molybdenum (Mo)	<1.0		1.0	ug/g	09-SEP-21	40	40	6.9	6.9
Nickel (Ni)	5.4		1.0	ug/g	09-SEP-21	270	340	100	130
Selenium (Se)	<1.0		1.0	ug/g	09-SEP-21	5.5	5.5	2.4	2.4
Silver (Ag)	<0.20		0.20	ug/g	09-SEP-21	40	50	20	25
Thallium (Tl)	<0.50		0.50	ug/g	09-SEP-21	3.3	3.3	1	1
Uranium (U)	<1.0		1.0	ug/g	09-SEP-21	33	33	23	23
Vanadium (V)	18.6		1.0	ug/g	09-SEP-21	86	86	86	86
Zinc (Zn)	20.2		5.0	ug/g	09-SEP-21	340	340	340	340

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T3-Soil-All

#1: T3-Soil-Ind/Com/Commu. Property Use (Coarse)

#2: T3-Soil-Ind/Com/Commu. Property Use (Fine)

#3: T3-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T3-Soil-Res/Park/Inst. Property Use (Fine)

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1	#2	#3	#4
L2635191-5 BHMW1-GS Sampled By: CLIENT on 02-SEP-21 @ 12:45 Matrix: SOIL									
Particle Size									
General Texture Class	Coarse			No Unit	09-SEP-21				
MUST PSA % > 75um	71.7		1.0	%	09-SEP-21				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T3-Soil-All

#1: T3-Soil-Ind/Com/Commu. Property Use (Coarse)

#2: T3-Soil-Ind/Com/Commu. Property Use (Fine)

#3: T3-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T3-Soil-Res/Park/Inst. Property Use (Fine)

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
F1-F4-511-CALC-WT	Soil	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-S

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

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

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

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

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

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

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

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

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

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

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

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

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

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

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

METHYLNAPS-CALC-WT	Soil	ABN-Calculated Parameters	SW846 8270
MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)

Reference Information

PAH-511-WT	Soil	PAH-O.Reg 153/04 (July 2011)	SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking techniqueis used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

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

PCB-511-WT	Soil	PCB-O.Reg 153/04 (July 2011)	SW846 3510/8082

An aliquot of a solid sample is extracted with a solvent, extract is cleaned up and analyzed on the GC/MS.

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

PH-WT	Soil	pH	MOEE E3137A

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

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

PSA-MUST-SK	Soil	% Particles > 75um (Coarse/Fine)	ASTM D6913

An air-dried sample is reduced to < 2 mm size and mixed with a dispersing agent (Calgon solution). The sample is washed through a 200 mesh (75 µm) sieve. The retained mass of sample is used to determine % sand fraction.

Reference: ASTM D422-63

VOC-1,3-DCP-CALC-WT	Soil	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Soil	VOC-O.Reg 153/04 (July 2011)	SW846 8260 (511)

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

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

XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION

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

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

Chain of Custody numbers:

20-897729

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

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

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Soil**							
Batch R5580958								
WG3612065-4 DUP		**WG3612065-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	09-SEP-21
WG3612065-2 LCS								
F1 (C6-C10)			110.7		%		80-120	08-SEP-21
WG3612065-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	08-SEP-21
Surrogate: 3,4-Dichlorotoluene			81.7		%		60-140	08-SEP-21
WG3612065-5 MS		**WG3612065-3**						
F1 (C6-C10)			127.3		%		60-140	09-SEP-21
F2-F4-511-WT	**Soil**							
Batch R5581599								
WG3612063-3 DUP		**WG3612063-5**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	09-SEP-21
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	09-SEP-21
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	09-SEP-21
WG3612063-2 LCS								
F2 (C10-C16)			89.5		%		80-120	09-SEP-21
F3 (C16-C34)			84.2		%		80-120	09-SEP-21
F4 (C34-C50)			94.4		%		80-120	09-SEP-21
WG3612063-1 MB								
F2 (C10-C16)			<10		ug/g		10	09-SEP-21
F3 (C16-C34)			<50		ug/g		50	09-SEP-21
F4 (C34-C50)			<50		ug/g		50	09-SEP-21
Surrogate: 2-Bromobenzotrifluoride			83.7		%		60-140	09-SEP-21
WG3612063-4 MS		**WG3612063-5**						
F2 (C10-C16)			82.2		%		60-140	09-SEP-21
F3 (C16-C34)			79.5		%		60-140	09-SEP-21
F4 (C34-C50)			84.7		%		60-140	09-SEP-21
MET-200.2-CCMS-WT	**Soil**							
Batch R5582236								
WG3613614-2 CRM		**WT-SS-2**						
Antimony (Sb)			110.0		%		70-130	09-SEP-21
Arsenic (As)			118.1		%		70-130	09-SEP-21
Barium (Ba)			115.1		%		70-130	09-SEP-21
Beryllium (Be)			116.9		%		70-130	09-SEP-21
Boron (B)			9.5		mg/kg		3.5-13.5	09-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5582236								
WG3613614-2 CRM		**WT-SS-2**						
Cadmium (Cd)			105.5		%		70-130	09-SEP-21
Chromium (Cr)			107.8		%		70-130	09-SEP-21
Cobalt (Co)			112.7		%		70-130	09-SEP-21
Copper (Cu)			113.1		%		70-130	09-SEP-21
Lead (Pb)			109.6		%		70-130	09-SEP-21
Molybdenum (Mo)			113.9		%		70-130	09-SEP-21
Nickel (Ni)			111.6		%		70-130	09-SEP-21
Selenium (Se)			0.12		mg/kg		0-0.34	09-SEP-21
Silver (Ag)			102.8		%		70-130	09-SEP-21
Thallium (Tl)			0.083		mg/kg		0.029-0.129	09-SEP-21
Uranium (U)			123.0		%		70-130	09-SEP-21
Vanadium (V)			108.9		%		70-130	09-SEP-21
Zinc (Zn)			108.0		%		70-130	09-SEP-21
WG3613614-4 DUP		**L2634112-1**						
Antimony (Sb)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	09-SEP-21
Arsenic (As)		0.12	0.16		ug/g	28	30	09-SEP-21
Barium (Ba)		210	221		ug/g	5.2	40	09-SEP-21
Beryllium (Be)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	09-SEP-21
Boron (B)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	09-SEP-21
Cadmium (Cd)		0.210	0.215		ug/g	2.5	30	09-SEP-21
Chromium (Cr)		31.8	33.1		ug/g	4.0	30	09-SEP-21
Cobalt (Co)		0.28	0.29		ug/g	5.9	30	09-SEP-21
Copper (Cu)		<0.50	0.50	RPD-NA	ug/g	N/A	30	09-SEP-21
Lead (Pb)		<0.50	<0.50	RPD-NA	ug/g	N/A	40	09-SEP-21
Molybdenum (Mo)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	09-SEP-21
Nickel (Ni)		10.3	10.8		ug/g	4.6	30	09-SEP-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	09-SEP-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	09-SEP-21
Thallium (Tl)		<0.050	<0.050	RPD-NA	ug/g	N/A	30	09-SEP-21
Uranium (U)		<0.050	<0.050	RPD-NA	ug/g	N/A	30	09-SEP-21
Vanadium (V)		0.21	0.23		ug/g	9.3	30	09-SEP-21
Zinc (Zn)		3.7	3.4		ug/g	8.7	30	09-SEP-21
WG3613614-3 LCS								

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5582236								
WG3613614-3 LCS								
Antimony (Sb)			110.0		%		80-120	09-SEP-21
Arsenic (As)			106.5		%		80-120	09-SEP-21
Barium (Ba)			104.7		%		80-120	09-SEP-21
Beryllium (Be)			102.5		%		80-120	09-SEP-21
Boron (B)			100.8		%		80-120	09-SEP-21
Cadmium (Cd)			105.1		%		80-120	09-SEP-21
Chromium (Cr)			106.2		%		80-120	09-SEP-21
Cobalt (Co)			105.4		%		80-120	09-SEP-21
Copper (Cu)			103.2		%		80-120	09-SEP-21
Lead (Pb)			110.0		%		80-120	09-SEP-21
Molybdenum (Mo)			108.1		%		80-120	09-SEP-21
Nickel (Ni)			104.7		%		80-120	09-SEP-21
Selenium (Se)			108.7		%		80-120	09-SEP-21
Silver (Ag)			70.3	RRQC	%		80-120	09-SEP-21
Thallium (Tl)			108.6		%		80-120	09-SEP-21
Uranium (U)			105.8		%		80-120	09-SEP-21
Vanadium (V)			107.4		%		80-120	09-SEP-21
Zinc (Zn)			109.3		%		80-120	09-SEP-21
COMMENTS: RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affect by this issue								
WG3613614-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	09-SEP-21
Arsenic (As)			<0.10		mg/kg		0.1	09-SEP-21
Barium (Ba)			<0.50		mg/kg		0.5	09-SEP-21
Beryllium (Be)			<0.10		mg/kg		0.1	09-SEP-21
Boron (B)			<5.0		mg/kg		5	09-SEP-21
Cadmium (Cd)			<0.020		mg/kg		0.02	09-SEP-21
Chromium (Cr)			<0.50		mg/kg		0.5	09-SEP-21
Cobalt (Co)			<0.10		mg/kg		0.1	09-SEP-21
Copper (Cu)			<0.50		mg/kg		0.5	09-SEP-21
Lead (Pb)			<0.50		mg/kg		0.5	09-SEP-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	09-SEP-21
Nickel (Ni)			<0.50		mg/kg		0.5	09-SEP-21
Selenium (Se)			<0.20		mg/kg		0.2	09-SEP-21
Silver (Ag)			<0.10		mg/kg		0.1	09-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5582236								
WG3613614-1 MB								
Thallium (Tl)			<0.050		mg/kg		0.05	09-SEP-21
Uranium (U)			<0.050		mg/kg		0.05	09-SEP-21
Vanadium (V)			<0.20		mg/kg		0.2	09-SEP-21
Zinc (Zn)			<2.0		mg/kg		2	09-SEP-21
MOISTURE-WT	**Soil**							
Batch R5579592								
WG3611615-3 DUP		**L2635532-1**						
% Moisture		36.4	35.6		%	2.2	20	04-SEP-21
WG3611615-2 LCS								
% Moisture			98.6		%		90-110	04-SEP-21
WG3611615-1 MB								
% Moisture			<0.25		%		0.25	04-SEP-21
PAH-511-WT	**Soil**							
Batch R5581493								
WG3612062-3 DUP		**WG3612062-5**						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	09-SEP-21
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	09-SEP-21
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	09-SEP-21
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	09-SEP-21
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
WG3612062-2 LCS								

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5581493								
WG3612062-2 LCS								
1-Methylnaphthalene			96.0		%		50-140	09-SEP-21
2-Methylnaphthalene			92.4		%		50-140	09-SEP-21
Acenaphthene			90.9		%		50-140	09-SEP-21
Acenaphthylene			87.4		%		50-140	09-SEP-21
Anthracene			82.2		%		50-140	09-SEP-21
Benzo(a)anthracene			94.4		%		50-140	09-SEP-21
Benzo(a)pyrene			80.4		%		50-140	09-SEP-21
Benzo(b&j)fluoranthene			92.9		%		50-140	09-SEP-21
Benzo(g,h,i)perylene			84.2		%		50-140	09-SEP-21
Benzo(k)fluoranthene			88.1		%		50-140	09-SEP-21
Chrysene			96.4		%		50-140	09-SEP-21
Dibenz(a,h)anthracene			92.5		%		50-140	09-SEP-21
Fluoranthene			90.7		%		50-140	09-SEP-21
Fluorene			89.4		%		50-140	09-SEP-21
Indeno(1,2,3-cd)pyrene			92.2		%		50-140	09-SEP-21
Naphthalene			88.3		%		50-140	09-SEP-21
Phenanthrene			93.4		%		50-140	09-SEP-21
Pyrene			90.0		%		50-140	09-SEP-21
WG3612062-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	09-SEP-21
2-Methylnaphthalene			<0.030		ug/g		0.03	09-SEP-21
Acenaphthene			<0.050		ug/g		0.05	09-SEP-21
Acenaphthylene			<0.050		ug/g		0.05	09-SEP-21
Anthracene			<0.050		ug/g		0.05	09-SEP-21
Benzo(a)anthracene			<0.050		ug/g		0.05	09-SEP-21
Benzo(a)pyrene			<0.050		ug/g		0.05	09-SEP-21
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	09-SEP-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	09-SEP-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	09-SEP-21
Chrysene			<0.050		ug/g		0.05	09-SEP-21
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	09-SEP-21
Fluoranthene			<0.050		ug/g		0.05	09-SEP-21
Fluorene			<0.050		ug/g		0.05	09-SEP-21
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	09-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5581493								
WG3612062-1 MB								
Naphthalene			<0.013		ug/g		0.013	09-SEP-21
Phenanthrene			<0.046		ug/g		0.046	09-SEP-21
Pyrene			<0.050		ug/g		0.05	09-SEP-21
Surrogate: 2-Fluorobiphenyl			87.9		%		50-140	09-SEP-21
Surrogate: d14-Terphenyl			85.4		%		50-140	09-SEP-21
WG3612062-4 MS		**WG3612062-5**						
1-Methylnaphthalene			96.0		%		50-140	09-SEP-21
2-Methylnaphthalene			92.7		%		50-140	09-SEP-21
Acenaphthene			90.4		%		50-140	09-SEP-21
Acenaphthylene			85.4		%		50-140	09-SEP-21
Anthracene			81.7		%		50-140	09-SEP-21
Benzo(a)anthracene			92.0		%		50-140	09-SEP-21
Benzo(a)pyrene			79.6		%		50-140	09-SEP-21
Benzo(b&j)fluoranthene			93.8		%		50-140	09-SEP-21
Benzo(g,h,i)perylene			80.0		%		50-140	09-SEP-21
Benzo(k)fluoranthene			87.3		%		50-140	09-SEP-21
Chrysene			96.4		%		50-140	09-SEP-21
Dibenz(a,h)anthracene			84.4		%		50-140	09-SEP-21
Fluoranthene			88.4		%		50-140	09-SEP-21
Fluorene			93.4		%		50-140	09-SEP-21
Indeno(1,2,3-cd)pyrene			82.7		%		50-140	09-SEP-21
Naphthalene			88.0		%		50-140	09-SEP-21
Phenanthrene			94.9		%		50-140	09-SEP-21
Pyrene			87.1		%		50-140	09-SEP-21
PCB-511-WT	**Soil**							
Batch R5581131								
WG3612062-3 DUP		**WG3612062-5**						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	09-SEP-21
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	09-SEP-21
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	09-SEP-21
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	09-SEP-21
WG3612062-2 LCS								
Aroclor 1242			96.6		%		60-140	09-SEP-21
Aroclor 1248			98.0		%		60-140	09-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-511-WT	**Soil**							
Batch R5581131								
WG3612062-2 LCS								
Aroclor 1254			111.1		%		60-140	09-SEP-21
Aroclor 1260			98.1		%		60-140	09-SEP-21
WG3612062-1 MB								
Aroclor 1242			<0.010		ug/g		0.01	09-SEP-21
Aroclor 1248			<0.010		ug/g		0.01	09-SEP-21
Aroclor 1254			<0.010		ug/g		0.01	09-SEP-21
Aroclor 1260			<0.010		ug/g		0.01	09-SEP-21
Surrogate: d14-Terphenyl			95.9		%		60-140	09-SEP-21
WG3612062-4 MS		**WG3612062-5**						
Aroclor 1242			97.6		%		60-140	09-SEP-21
Aroclor 1254			110.5		%		60-140	09-SEP-21
Aroclor 1260			101.3		%		60-140	09-SEP-21
PH-WT	**Soil**							
Batch R5580132								
WG3612056-5 DUP		**L2635187-11**						
pH		7.98	7.93	J	pH units	0.05	0.3	07-SEP-21
WG3612427-1 LCS								
pH			7.06		pH units		6.9-7.1	07-SEP-21
PSA-MUST-SK	**Soil**							
Batch R5581791								
WG3614214-1 DUP		**L2635191-5**						
MUST PSA % > 75um		71.7	71.6	J	%	0.1	5	09-SEP-21
WG3614214-2 IRM		**2020-PSA_SOIL**						
MUST PSA % > 75um			42.3		%		37.9-47.9	09-SEP-21
VOC-511-HS-WT	**Soil**							
Batch R5580958								
WG3612065-4 DUP		**WG3612065-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
1,2-Dichlorobenzene		<0.050	<0.050					

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5580958								
WG3612065-4 DUP		**WG3612065-3**						
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	09-SEP-21
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	09-SEP-21
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	09-SEP-21
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	09-SEP-21
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	09-SEP-21
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	09-SEP-21
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	09-SEP-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	09-SEP-21
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	09-SEP-21
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	09-SEP-21
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	09-SEP-21
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	09-SEP-21
Vinyl chloride		<0.020	<0.020		ug/g			09-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5580958								
WG3612065-4 DUP		**WG3612065-3**						
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	09-SEP-21
WG3612065-2 LCS								
1,1,1,2-Tetrachloroethane			82.2		%		60-130	08-SEP-21
1,1,2,2-Tetrachloroethane			77.0		%		60-130	08-SEP-21
1,1,1-Trichloroethane			79.0		%		60-130	08-SEP-21
1,1,2-Trichloroethane			80.4		%		60-130	08-SEP-21
1,1-Dichloroethane			68.4		%		60-130	08-SEP-21
1,1-Dichloroethylene			64.1		%		60-130	08-SEP-21
1,2-Dibromoethane			79.0		%		70-130	08-SEP-21
1,2-Dichlorobenzene			79.1		%		70-130	08-SEP-21
1,2-Dichloroethane			78.1		%		60-130	08-SEP-21
1,2-Dichloropropane			71.5		%		70-130	08-SEP-21
1,3-Dichlorobenzene			77.1		%		70-130	08-SEP-21
1,4-Dichlorobenzene			74.7		%		70-130	08-SEP-21
Acetone			93.6		%		60-140	08-SEP-21
Benzene			75.1		%		70-130	08-SEP-21
Bromodichloromethane			85.5		%		50-140	08-SEP-21
Bromoform			81.4		%		70-130	08-SEP-21
Bromomethane			59.6		%		50-140	08-SEP-21
Carbon tetrachloride			72.9		%		70-130	08-SEP-21
Chlorobenzene			78.7		%		70-130	08-SEP-21
Chloroform			72.9		%		70-130	08-SEP-21
cis-1,2-Dichloroethylene			74.2		%		70-130	08-SEP-21
cis-1,3-Dichloropropene			73.7		%		70-130	08-SEP-21
Dibromochloromethane			83.6		%		60-130	08-SEP-21
Dichlorodifluoromethane			30.4	LCS-L	%		50-140	08-SEP-21
Ethylbenzene			72.0		%		70-130	08-SEP-21
n-Hexane			60.8	MES	%		70-130	08-SEP-21
Methylene Chloride			69.7	MES	%		70-130	08-SEP-21
MTBE			77.6		%		70-130	08-SEP-21
m+p-Xylenes			77.8		%		70-130	08-SEP-21
Methyl Ethyl Ketone			97.7		%		60-140	08-SEP-21
Methyl Isobutyl Ketone			92.9		%		60-140	08-SEP-21
o-Xylene			78.2		%		70-130	08-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5580958								
WG3612065-2 LCS								
Styrene			76.5		%		70-130	08-SEP-21
Tetrachloroethylene			74.9		%		60-130	08-SEP-21
Toluene			77.6		%		70-130	08-SEP-21
trans-1,2-Dichloroethylene			67.3		%		60-130	08-SEP-21
trans-1,3-Dichloropropene			71.9		%		70-130	08-SEP-21
Trichloroethylene			72.8		%		60-130	08-SEP-21
Trichlorofluoromethane			61.1		%		50-140	08-SEP-21
Vinyl chloride			46.5	LCS-L	%		60-140	08-SEP-21
WG3612065-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	08-SEP-21
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	08-SEP-21
1,1,1-Trichloroethane			<0.050		ug/g		0.05	08-SEP-21
1,1,2-Trichloroethane			<0.050		ug/g		0.05	08-SEP-21
1,1-Dichloroethane			<0.050		ug/g		0.05	08-SEP-21
1,1-Dichloroethylene			<0.050		ug/g		0.05	08-SEP-21
1,2-Dibromoethane			<0.050		ug/g		0.05	08-SEP-21
1,2-Dichlorobenzene			<0.050		ug/g		0.05	08-SEP-21
1,2-Dichloroethane			<0.050		ug/g		0.05	08-SEP-21
1,2-Dichloropropane			<0.050		ug/g		0.05	08-SEP-21
1,3-Dichlorobenzene			<0.050		ug/g		0.05	08-SEP-21
1,4-Dichlorobenzene			<0.050		ug/g		0.05	08-SEP-21
Acetone			<0.50		ug/g		0.5	08-SEP-21
Benzene			<0.0068		ug/g		0.0068	08-SEP-21
Bromodichloromethane			<0.050		ug/g		0.05	08-SEP-21
Bromoform			<0.050		ug/g		0.05	08-SEP-21
Bromomethane			<0.050		ug/g		0.05	08-SEP-21
Carbon tetrachloride			<0.050		ug/g		0.05	08-SEP-21
Chlorobenzene			<0.050		ug/g		0.05	08-SEP-21
Chloroform			<0.050		ug/g		0.05	08-SEP-21
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	08-SEP-21
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	08-SEP-21
Dibromochloromethane			<0.050		ug/g		0.05	08-SEP-21
Dichlorodifluoromethane			<0.050		ug/g		0.05	08-SEP-21
Ethylbenzene			<0.018		ug/g		0.018	08-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5580958								
WG3612065-1 MB								
n-Hexane			<0.050		ug/g		0.05	08-SEP-21
Methylene Chloride			<0.050		ug/g		0.05	08-SEP-21
MTBE			<0.050		ug/g		0.05	08-SEP-21
m+p-Xylenes			<0.030		ug/g		0.03	08-SEP-21
Methyl Ethyl Ketone			<0.50		ug/g		0.5	08-SEP-21
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	08-SEP-21
o-Xylene			<0.020		ug/g		0.02	08-SEP-21
Styrene			<0.050		ug/g		0.05	08-SEP-21
Tetrachloroethylene			<0.050		ug/g		0.05	08-SEP-21
Toluene			<0.080		ug/g		0.08	08-SEP-21
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	08-SEP-21
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	08-SEP-21
Trichloroethylene			<0.010		ug/g		0.01	08-SEP-21
Trichlorofluoromethane			<0.050		ug/g		0.05	08-SEP-21
Vinyl chloride			<0.020		ug/g		0.02	08-SEP-21
Surrogate: 1,4-Difluorobenzene			101.6		%		50-140	08-SEP-21
Surrogate: 4-Bromofluorobenzene			97.1		%		50-140	08-SEP-21
WG3612065-5 MS		**WG3612065-3**						
1,1,1,2-Tetrachloroethane			97.0		%		50-140	10-SEP-21
1,1,2,2-Tetrachloroethane			96.3		%		50-140	10-SEP-21
1,1,1-Trichloroethane			94.7		%		50-140	10-SEP-21
1,1,2-Trichloroethane			105.4		%		50-140	10-SEP-21
1,1-Dichloroethane			77.5		%		50-140	10-SEP-21
1,1-Dichloroethylene			87.5		%		50-140	10-SEP-21
1,2-Dibromoethane			103.3		%		50-140	10-SEP-21
1,2-Dichlorobenzene			104.2		%		50-140	10-SEP-21
1,2-Dichloroethane			90.4		%		50-140	10-SEP-21
1,2-Dichloropropane			97.2		%		50-140	10-SEP-21
1,3-Dichlorobenzene			97.6		%		50-140	10-SEP-21
1,4-Dichlorobenzene			99.7		%		50-140	10-SEP-21
Acetone			100.6		%		50-140	10-SEP-21
Benzene			101.1		%		50-140	10-SEP-21
Bromodichloromethane			108.1		%		50-140	10-SEP-21
Bromoform			106.4		%		50-140	10-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5580958								
WG3612065-5 MS		**WG3612065-3**						
Bromomethane			103.4		%		50-140	10-SEP-21
Carbon tetrachloride			92.5		%		50-140	10-SEP-21
Chlorobenzene			99.2		%		50-140	10-SEP-21
Chloroform			97.2		%		50-140	10-SEP-21
cis-1,2-Dichloroethylene			105.0		%		50-140	10-SEP-21
cis-1,3-Dichloropropene			92.6		%		50-140	10-SEP-21
Dibromochloromethane			101.1		%		50-140	10-SEP-21
Dichlorodifluoromethane			81.5		%		50-140	10-SEP-21
Ethylbenzene			86.9		%		50-140	10-SEP-21
n-Hexane			84.3		%		50-140	10-SEP-21
Methylene Chloride			98.7		%		50-140	10-SEP-21
MTBE			100.9		%		50-140	10-SEP-21
m+p-Xylenes			88.2		%		50-140	10-SEP-21
Methyl Ethyl Ketone			119.4		%		50-140	10-SEP-21
Methyl Isobutyl Ketone			90.7		%		50-140	10-SEP-21
o-Xylene			85.7		%		50-140	10-SEP-21
Styrene			89.7		%		50-140	10-SEP-21
Tetrachloroethylene			97.3		%		50-140	10-SEP-21
Toluene			92.1		%		50-140	10-SEP-21
trans-1,2-Dichloroethylene			84.5		%		50-140	10-SEP-21
trans-1,3-Dichloropropene			86.3		%		50-140	10-SEP-21
Trichloroethylene			103.7		%		50-140	10-SEP-21
Trichlorofluoromethane			89.8		%		50-140	10-SEP-21
Vinyl chloride			87.2		%		50-140	10-SEP-21

Quality Control Report

Workorder: L2635191 Report Date: 13-SEP-21

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Legend:

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

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-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.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.
RRQC	Refer to report remarks for information regarding this QC result.

Hold Time Exceedances:

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

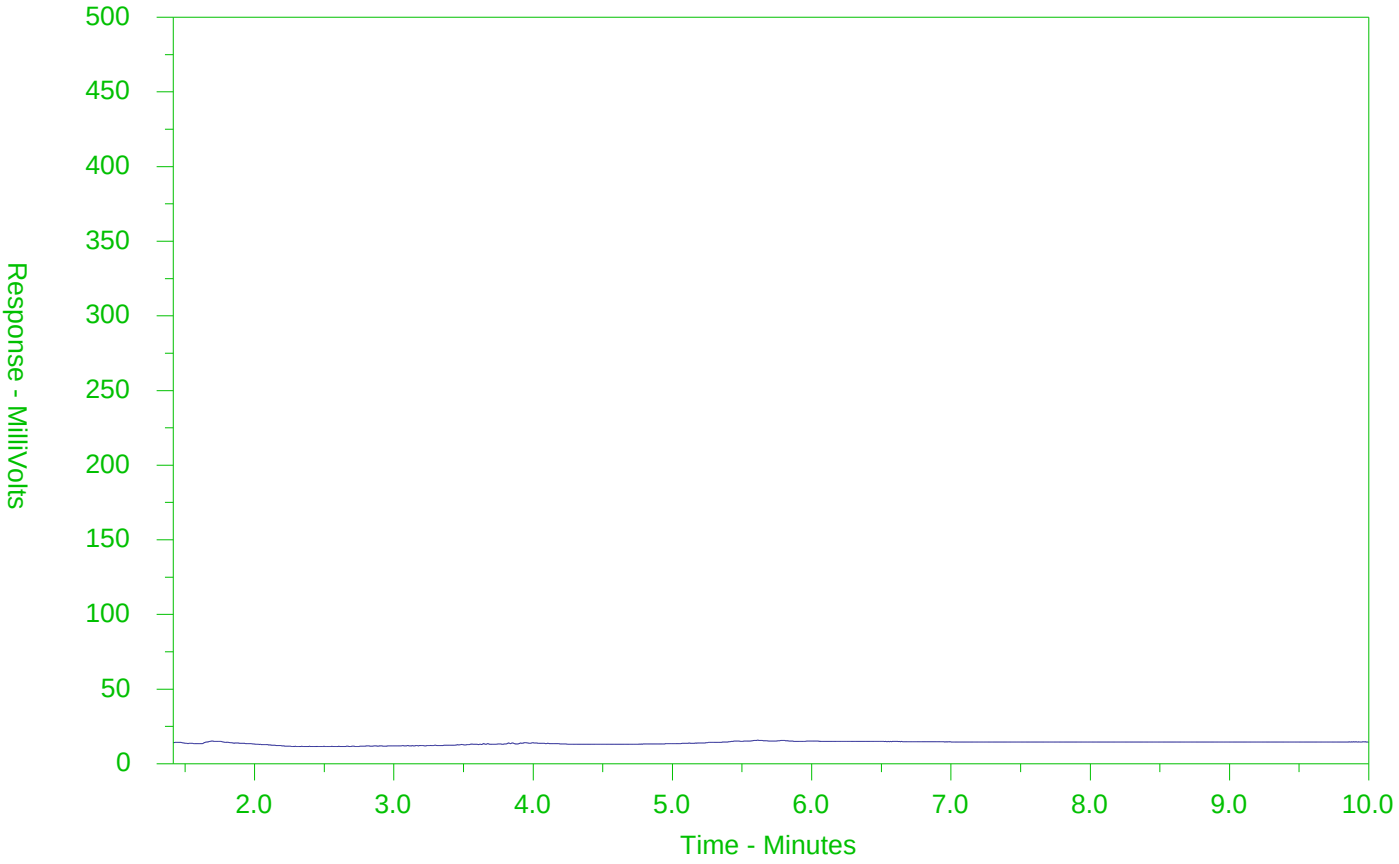
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where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

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

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

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2635191-2
Client Sample ID: BHMW1-SS4



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

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

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

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

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

Chain of Custody

L2635191-COFC

COC Number: 20 - 897729

Page 1 of 1

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	ECOH
Contact:	905 745 2800 / Ian Duncan
Phone:	
Company address below will appear on the final report	
Street:	75 Courtney Park W.
City/Province:	Mississauga ON
Postal Code:	L5W 0B3

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

Turnaround Time (TAT) Requested
Routine [R] if received by 3pm M-F - no surcharges apply
4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm

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

Invoice To	
	Same as Report To YES NO
	Copy of Invoice with Report YES NO
Company:	
Contact:	

Invoice Recipients	
Select Invoice Distribution:	EMAIL MAIL FAX
Email 1 or Fax	accounting@echo.ca
Email 2	

Project Information	
ALS Account # / Quote #:	
Job #:	266685
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (ALS use only): L2635191

ALS Contact: [illegible] Sampler: Ian D

Analysis Request

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

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	PHC F1-F4 (P)	VOC's	PAH's	PCB's	ICPMS Metals (F/P)	PH	Grain Size (75um)	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	BHMW1-SS1	02/09/21	12:00	Soil	1						X				
	BHMW1-SS4		12:00		6	X	X	X	X	X	X				
	DUP1		N/A		1					X					
	BHMW1-SS8		12:30		5								X		
	BHMW1-GS		12:45		1							X			

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? YES NO	Table 2 SCS Fine or Coarse determine by GS analysis
Are samples for human consumption/ use? YES NO	

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	FINAL COOLER TEMPERATURES °C
27.8	15.6

SHIPMENT RELEASE (client use)		
Released by: Ian D.	Date: 02/09/2021	Time:

INITIAL SHIPMENT RECEPTION (ALS use only)		
Received by: Karan	Date: 9/2/2021	Time: 13:03

FINAL SHIPMENT RECEPTION (ALS use only)		
Received by:	Date: 9/2/21	Time: 1730

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

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

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

ECOH MANAGEMENT INC (Mississauga)
ATTN: Ian Duncan
75 Courtney Park Drive West
Unit 1
Mississauga ON L5W 0E3

Date Received: 02-SEP-21
Report Date: 10-SEP-21 10:13 (MT)
Version: FINAL

Client Phone: 905-795-2800

Certificate of Analysis

Lab Work Order #: L2635197

Project P.O. #: NOT SUBMITTED
Job Reference: 26685
C of C Numbers: 20-897731
Legal Site Desc:

Emily Hansen
Account Manager

Summary of Guideline Exceedances

Guideline ALS ID	Client ID	Grouping	Analyte	Result	Guideline Limit	Unit

Federal & Provincial Waste Regulations (MAR, 2008) - Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

(No parameter exceedances)

ANALYTICAL REPORT

Sample Preparation - WASTE

Analyte	Unit	Guide Limits #1	Guide Limits #2	Lab ID: L2635197-1 Sample Date: 02-SEP-21 Sample ID: TCLP
Initial pH	pH units	-	-	9.18
Final pH	pH units	-	-	6.18

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

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

TCLP Extractables - WASTE

				Lab ID	L2635197-1
				Sample Date	02-SEP-21
				Sample ID	TCLP
		Guide Limits			
Analyte	Unit	#1	#2		
Acenaphthene	mg/L	-	-	<0.0050	
Acenaphthylene	mg/L	-	-	<0.0050	
Anthracene	mg/L	-	-	<0.0050	
Aroclor 1242	mg/L	-	-	<0.00020	
Aroclor 1248	mg/L	-	-	<0.00020	
Aroclor 1254	mg/L	-	-	<0.00020	
Aroclor 1260	mg/L	-	-	<0.00020	
Benzo(a)anthracene	mg/L	-	-	<0.0050	
Benzo(a)pyrene	mg/L	0.001	-	<0.0010	
Benzo(b&j)fluoranthene	mg/L	-	-	<0.0050	
Benzo(g,h,i)perylene	mg/L	-	-	<0.0050	
Benzo(k)fluoranthene	mg/L	-	-	<0.0050	
Chrysene	mg/L	-	-	<0.0050	
Cyanide, Weak Acid Diss	mg/L	20	-	<0.10	
Dibenz(a,h)anthracene	mg/L	-	-	<0.0050	
Fluoranthene	mg/L	-	-	<0.0050	
Fluorene	mg/L	-	-	<0.0050	
Fluoride (F)	mg/L	150.0	-	<10	
Indeno(1,2,3-cd)pyrene	mg/L	-	-	<0.0050	
Naphthalene	mg/L	-	-	<0.0050	
Nitrate and Nitrite as N	mg/L	1000	-	<4.0	
Nitrate-N	mg/L	-	-	<2.0	
Nitrite-N	mg/L	-	-	<2.0	
Total PCBs	mg/L	0.3	-	<0.00040	
Phenanthrene	mg/L	-	-	<0.0050	
Pyrene	mg/L	-	-	<0.0050	
Surrogate: Chrysene d12	%	-	-	104.2	
Surrogate: Naphthalene d8	%	-	-	99.1	
Surrogate: Phenanthrene d10	%	-	-	102.6	
Quinoline	mg/L	-	-	<0.0050	

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

ANALYTICAL REPORT

TCLP Extractables - WASTE

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

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

TCLP Metals - WASTE

			Lab ID	L2635197-1
			Sample Date	02-SEP-21
			Sample ID	TCLP
		Guide Limits		
Analyte	**Unit**	**#1**	**#2**	
Arsenic (As)	mg/L	2.5	-	<0.050
Barium (Ba)	mg/L	100	-	<0.50
Boron (B)	mg/L	500	-	<2.5
Cadmium (Cd)	mg/L	0.5	-	<0.0050
Chromium (Cr)	mg/L	5.0	-	<0.050
Lead (Pb)	mg/L	5.0	-	<0.025
Mercury (Hg)	mg/L	0.1	-	<0.00010
Selenium (Se)	mg/L	1.0	-	<0.025
Silver (Ag)	mg/L	5.0	-	<0.0050
Uranium (U)	mg/L	10	-	<0.25

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

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

TCLP VOCs - WASTE

			Lab ID	L2635197-1
			Sample Date	02-SEP-21
			Sample ID	TCLP
		Guide Limits		
Analyte	Unit	#1	#2	
1,1-Dichloroethylene	mg/L	1.4	-	<0.025
1,2-Dichlorobenzene	mg/L	20.0	-	<0.025
1,2-Dichloroethane	mg/L	0.5	-	<0.025
1,4-Dichlorobenzene	mg/L	0.5	-	<0.025
Benzene	mg/L	0.5	-	<0.025
Carbon tetrachloride	mg/L	0.5	-	<0.025
Chlorobenzene	mg/L	8	-	<0.025
Chloroform	mg/L	10	-	<0.10
Dichloromethane	mg/L	5.0	-	<0.50
Methyl Ethyl Ketone	mg/L	200.0	-	<1.0
Tetrachloroethylene	mg/L	3	-	<0.025
Trichloroethylene	mg/L	5	-	<0.025
Vinyl chloride	mg/L	0.2	-	<0.050
Surrogate: 4-Bromofluorobenzene	%	-	-	99.2

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

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

ANALYTICAL REPORT

Volatile Organic Compounds - WASTE

Analyte	Unit	Guide Limits #1	Guide Limits #2	Lab ID: L2635197-1 Sample Date: 02-SEP-21 Sample ID: TCLP
Surrogate: 1,4-Difluorobenzene	%	-	-	102.2

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

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

Polychlorinated Biphenyls - WASTE

		Guide Limits			
Analyte	Unit	#1	#2	Lab ID	L2635197-1
				Sample Date	02-SEP-21
				Sample ID	TCLP
Surrogate: Decachlorobiphenyl	%	-	-		134.6
Surrogate: Tetrachloro-m-xylene	%	-	-		95.7

Guide Limit #1: Ontario Ministry of the Environment, General Waste Control Regulation No. 347/90

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

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
CN-TCLP-WT	Waste	Cyanide for O. Reg 347	APHA 4500CN I

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

F-TCLP-WT	Waste	Fluoride (F) for O. Reg 347	EPA 300.1

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from EPA 300.1 and is analyzed by Ion Chromatography with conductivity and/or UV detection.

HG-TCLP-WT	Waste	Mercury (CVAA) for O.Reg 347	EPA 1631E

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fibre filter and analysed using atomic absorption spectrophotometry (EPA 1631E).

LEACH-TCLP-WT	Waste	Leachate Procedure for Reg 347	EPA 1311

Inorganic and Semi-Volatile Organic contaminants are leached from waste samples in strict accordance with US EPA Method 1311, "Toxicity Characteristic Leaching Procedure" (TCLP). Test results are reported in leachate concentration units (normally mg/L).

MET-TCLP-WT	Waste	O.Reg 347 TCLP Leachable Metals	EPA 6020B

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fibre filter. Instrumental analysis of the digested extract is by collision cell inductively coupled plasma - mass spectrometry (modifed from EPA Method 6020B).

N2N3-TCLP-WT	Waste	Nitrate/Nitrite-N for O. Reg 347	EPA 300.1

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from EPA 300.1 and is analyzed by Ion Chromatography with conductivity and/or UV detection.

PAH-TCLP-WT	Waste	PAH for O. Reg 347	SW846 8270 (PAH)

Samples are leached according to TCLP protocol and then the aqueous leachate is extracted and the resulting extracts are analyzed on GC/MSD. Depending on the analytical GC/MS column used benzo(j)fluoranthene may chromatographically co-elute with benzo(b)fluoranthene or benzo(k)fluoranthene.

PCB-TCLP-WT	Waste	PCBs for O. Reg 347	SW846 8270
VOC-TCLP-WT	Waste	VOC for O. Reg 347	SW846 8260

A sample of waste is leached in a zero headspace extractor at 30–2 rpm for 18–2.0 hours with the appropriate leaching solution. After tumbling the leachate is analyzed directly by headspace technology, followed by GC/MS using internal standard quantitation.

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

Reference Information

Chain of Custody Numbers:

20-897731

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

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

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2635197 Report Date: 10-SEP-21

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3

Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-TCLP-WT	**Waste**							
Batch R5580570								
WG3612611-3 DUP		**L2630849-11**						
Cyanide, Weak Acid Diss		<0.10	<0.10	RPD-NA	mg/L	N/A	50	07-SEP-21
WG3612611-2 LCS								
Cyanide, Weak Acid Diss			101.9		%		70-130	07-SEP-21
WG3612611-1 MB								
Cyanide, Weak Acid Diss			<0.10		mg/L		0.1	07-SEP-21
WG3612611-4 MS		**L2630849-11**						
Cyanide, Weak Acid Diss			102.7		%		50-140	07-SEP-21
F-TCLP-WT	**Waste**							
Batch R5580810								
WG3612614-3 DUP		**L2630849-11**						
Fluoride (F)		<10	<10	RPD-NA	mg/L	N/A	30	07-SEP-21
WG3612614-2 LCS								
Fluoride (F)			95.7		%		70-130	07-SEP-21
WG3612614-1 MB								
Fluoride (F)			<10		mg/L		10	07-SEP-21
WG3612614-4 MS		**L2630849-11**						
Fluoride (F)			99.6		%		50-150	07-SEP-21
HG-TCLP-WT	**Waste**							
Batch R5579990								
WG3612221-3 DUP		**L2635262-1**						
Mercury (Hg)		<0.00010	<0.00010	RPD-NA	mg/L	N/A	50	07-SEP-21
WG3612221-2 LCS								
Mercury (Hg)			95.2		%		70-130	07-SEP-21
WG3612221-1 MB								
Mercury (Hg)			<0.00010		mg/L		0.0001	07-SEP-21
WG3612221-4 MS		**L2635262-1**						
Mercury (Hg)			95.3		%		50-140	07-SEP-21
MET-TCLP-WT	**Waste**							
Batch R5580258								
WG3612041-4 DUP		**WG3612041-3**						
Silver (Ag)		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	07-SEP-21
Arsenic (As)		<0.050	<0.050	RPD-NA	mg/L	N/A	50	07-SEP-21
Boron (B)		<2.5	<2.5	RPD-NA	mg/L	N/A	50	07-SEP-21
Barium (Ba)		<0.50	<0.50	RPD-NA	mg/L	N/A	50	07-SEP-21
Cadmium (Cd)		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	07-SEP-21
Chromium (Cr)		<0.050	<0.050	RPD-NA	mg/L	N/A	50	07-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TCLP-WT	**Waste**							
Batch R5580258								
WG3612041-4 DUP		**WG3612041-3**						
Lead (Pb)		<0.025	<0.025	RPD-NA	mg/L	N/A	50	07-SEP-21
Selenium (Se)		<0.025	<0.025	RPD-NA	mg/L	N/A	50	07-SEP-21
Uranium (U)		<0.25	<0.25	RPD-NA	mg/L	N/A	50	07-SEP-21
WG3612041-2 LCS								
Silver (Ag)			96.1		%		70-130	07-SEP-21
Arsenic (As)			103.5		%		70-130	07-SEP-21
Boron (B)			96.9		%		70-130	07-SEP-21
Barium (Ba)			107.1		%		70-130	07-SEP-21
Cadmium (Cd)			99.4		%		70-130	07-SEP-21
Chromium (Cr)			101.0		%		70-130	07-SEP-21
Lead (Pb)			100.2		%		70-130	07-SEP-21
Selenium (Se)			103.7		%		70-130	07-SEP-21
Uranium (U)			100.4		%		70-130	07-SEP-21
WG3612041-1 MB								
Silver (Ag)			<0.0050		mg/L		0.005	07-SEP-21
Arsenic (As)			<0.050		mg/L		0.05	07-SEP-21
Boron (B)			<2.5		mg/L		2.5	07-SEP-21
Barium (Ba)			<0.50		mg/L		0.5	07-SEP-21
Cadmium (Cd)			<0.0050		mg/L		0.005	07-SEP-21
Chromium (Cr)			<0.050		mg/L		0.05	07-SEP-21
Lead (Pb)			<0.025		mg/L		0.025	07-SEP-21
Selenium (Se)			<0.025		mg/L		0.025	07-SEP-21
Uranium (U)			<0.25		mg/L		0.25	07-SEP-21
WG3612041-5 MS		**WG3612041-3**						
Silver (Ag)			106.5		%		50-140	07-SEP-21
Arsenic (As)			101.5		%		50-140	07-SEP-21
Boron (B)			97.6		%		50-140	07-SEP-21
Barium (Ba)			105.2		%		50-140	07-SEP-21
Cadmium (Cd)			99.2		%		50-140	07-SEP-21
Chromium (Cr)			99.96		%		50-140	07-SEP-21
Lead (Pb)			96.8		%		50-140	07-SEP-21
Selenium (Se)			103.9		%		50-140	07-SEP-21
Uranium (U)			98.8		%		50-140	07-SEP-21
N2N3-TCLP-WT	**Waste**							

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N2N3-TCLP-WT	**Waste**							
Batch R5580810								
WG3612614-3 DUP		**L2630849-11**						
Nitrate-N		<2.0	<2.0	RPD-NA	mg/L	N/A	25	07-SEP-21
Nitrite-N		<2.0	<2.0	RPD-NA	mg/L	N/A	25	07-SEP-21
WG3612614-2 LCS								
Nitrate-N			97.7		%		70-130	07-SEP-21
Nitrite-N			97.3		%		70-130	07-SEP-21
WG3612614-1 MB								
Nitrate-N			<2.0		mg/L		2	07-SEP-21
Nitrite-N			<2.0		mg/L		2	07-SEP-21
WG3612614-4 MS		**L2630849-11**						
Nitrate-N			104.8		%		50-150	07-SEP-21
Nitrite-N			93.3		%		50-150	07-SEP-21
PAH-TCLP-WT	**Waste**							
Batch R5580791								
WG3612563-5 DUP		**WG3612563-4**						
Acenaphthene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Acenaphthylene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Anthracene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Benzo(a)anthracene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Benzo(a)pyrene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	50	08-SEP-21
Benzo(b&j)fluoranthene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Benzo(g,h,i)perylene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Benzo(k)fluoranthene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Chrysene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Dibenz(a,h)anthracene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Fluoranthene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Fluorene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Indeno(1,2,3-cd)pyrene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Naphthalene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Phenanthrene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Pyrene		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
Quinoline		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	08-SEP-21
WG3612563-2 LCS								
Acenaphthene			89.1		%		50-130	08-SEP-21
Acenaphthylene			88.2		%		50-130	08-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-TCLP-WT	**Waste**							
Batch R5580791								
WG3612563-2 LCS								
Anthracene			88.3		%		50-130	08-SEP-21
Benzo(a)anthracene			100.0		%		50-140	08-SEP-21
Benzo(a)pyrene			83.5		%		60-140	08-SEP-21
Benzo(b&j)fluoranthene			87.2		%		50-130	08-SEP-21
Benzo(g,h,i)perylene			85.5		%		50-140	08-SEP-21
Benzo(k)fluoranthene			91.2		%		50-150	08-SEP-21
Chrysene			102.0		%		50-140	08-SEP-21
Dibenz(a,h)anthracene			90.3		%		50-140	08-SEP-21
Fluoranthene			97.5		%		50-130	08-SEP-21
Fluorene			93.0		%		50-130	08-SEP-21
Indeno(1,2,3-cd)pyrene			93.7		%		50-140	08-SEP-21
Naphthalene			75.5		%		50-130	08-SEP-21
Phenanthrene			96.9		%		50-130	08-SEP-21
Pyrene			98.9		%		50-140	08-SEP-21
Quinoline			107.0		%		50-130	08-SEP-21
WG3612563-1 MB								
Acenaphthene			<0.0050		mg/L		0.005	08-SEP-21
Acenaphthylene			<0.0050		mg/L		0.005	08-SEP-21
Anthracene			<0.0050		mg/L		0.005	08-SEP-21
Benzo(a)anthracene			<0.0050		mg/L		0.005	08-SEP-21
Benzo(a)pyrene			<0.0010		mg/L		0.001	08-SEP-21
Benzo(b&j)fluoranthene			<0.0050		mg/L		0.005	08-SEP-21
Benzo(g,h,i)perylene			<0.0050		mg/L		0.005	08-SEP-21
Benzo(k)fluoranthene			<0.0050		mg/L		0.005	08-SEP-21
Chrysene			<0.0050		mg/L		0.005	08-SEP-21
Dibenz(a,h)anthracene			<0.0050		mg/L		0.005	08-SEP-21
Fluoranthene			<0.0050		mg/L		0.005	08-SEP-21
Fluorene			<0.0050		mg/L		0.005	08-SEP-21
Indeno(1,2,3-cd)pyrene			<0.0050		mg/L		0.005	08-SEP-21
Naphthalene			<0.0050		mg/L		0.005	08-SEP-21
Phenanthrene			<0.0050		mg/L		0.005	08-SEP-21
Pyrene			<0.0050		mg/L		0.005	08-SEP-21
Quinoline			<0.0050		mg/L		0.005	08-SEP-21
Surrogate: Naphthalene d8			102.1		%		50-130	08-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-TCLP-WT	**Waste**							
Batch R5580791								
WG3612563-1 MB								
Surrogate: Phenanthrene d10			100.2		%		60-130	08-SEP-21
Surrogate: Chrysene d12			106.2		%		60-130	08-SEP-21
WG3612563-3 MB								
Acenaphthene			<0.0050		mg/L		0.005	08-SEP-21
Acenaphthylene			<0.0050		mg/L		0.005	08-SEP-21
Anthracene			<0.0050		mg/L		0.005	08-SEP-21
Benzo(a)anthracene			<0.0050		mg/L		0.005	08-SEP-21
Benzo(a)pyrene			<0.0010		mg/L		0.001	08-SEP-21
Benzo(b&j)fluoranthene			<0.0050		mg/L		0.005	08-SEP-21
Benzo(g,h,i)perylene			<0.0050		mg/L		0.005	08-SEP-21
Benzo(k)fluoranthene			<0.0050		mg/L		0.005	08-SEP-21
Chrysene			<0.0050		mg/L		0.005	08-SEP-21
Dibenz(a,h)anthracene			<0.0050		mg/L		0.005	08-SEP-21
Fluoranthene			<0.0050		mg/L		0.005	08-SEP-21
Fluorene			<0.0050		mg/L		0.005	08-SEP-21
Indeno(1,2,3-cd)pyrene			<0.0050		mg/L		0.005	08-SEP-21
Naphthalene			<0.0050		mg/L		0.005	08-SEP-21
Phenanthrene			<0.0050		mg/L		0.005	08-SEP-21
Pyrene			<0.0050		mg/L		0.005	08-SEP-21
Quinoline			<0.0050		mg/L		0.005	08-SEP-21
Surrogate: Naphthalene d8			97.2		%		50-130	08-SEP-21
Surrogate: Phenanthrene d10			94.7		%		60-130	08-SEP-21
Surrogate: Chrysene d12			100.3		%		60-130	08-SEP-21
WG3612563-6 MS		**WG3612563-4**						
Acenaphthene			92.1		%		50-140	08-SEP-21
Acenaphthylene			90.5		%		50-140	08-SEP-21
Anthracene			86.1		%		50-150	08-SEP-21
Benzo(a)anthracene			99.8		%		50-140	08-SEP-21
Benzo(a)pyrene			83.8		%		50-140	08-SEP-21
Benzo(b&j)fluoranthene			84.6		%		50-150	08-SEP-21
Benzo(g,h,i)perylene			83.8		%		50-140	08-SEP-21
Benzo(k)fluoranthene			92.8		%		50-150	08-SEP-21
Chrysene			101.0		%		50-140	08-SEP-21
Dibenz(a,h)anthracene			88.3		%		50-140	08-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-TCLP-WT	**Waste**							
Batch R5580791								
WG3612563-6 MS		**WG3612563-4**						
Fluoranthene			96.8		%		50-140	08-SEP-21
Fluorene			93.2		%		50-140	08-SEP-21
Indeno(1,2,3-cd)pyrene			94.2		%		50-140	08-SEP-21
Naphthalene			84.6		%		50-140	08-SEP-21
Phenanthrene			94.1		%		50-150	08-SEP-21
Pyrene			98.1		%		50-150	08-SEP-21
Quinoline			107.0		%		50-150	08-SEP-21
PCB-TCLP-WT	**Waste**							
Batch R5580777								
WG3612560-5 DUP		**WG3612560-4**						
Aroclor 1242		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	08-SEP-21
Aroclor 1248		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	08-SEP-21
Aroclor 1254		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	08-SEP-21
Aroclor 1260		<0.00020	<0.00020	RPD-NA	mg/L	N/A	50	08-SEP-21
WG3612560-2 LCS								
Aroclor 1242			89.9		%		65-130	08-SEP-21
Aroclor 1248			80.4		%		65-130	08-SEP-21
Aroclor 1254			75.3		%		65-130	08-SEP-21
Aroclor 1260			86.2		%		65-130	08-SEP-21
WG3612560-1 MB								
Aroclor 1242			<0.00020		mg/L		0.0002	08-SEP-21
Aroclor 1248			<0.00020		mg/L		0.0002	08-SEP-21
Aroclor 1254			<0.00020		mg/L		0.0002	08-SEP-21
Aroclor 1260			<0.00020		mg/L		0.0002	08-SEP-21
Surrogate: Decachlorobiphenyl			113.6		%		50-150	08-SEP-21
Surrogate: Tetrachloro-m-xylene			87.9		%		50-150	08-SEP-21
WG3612560-3 MB								
Aroclor 1242			<0.00020		mg/L		0.0002	08-SEP-21
Aroclor 1248			<0.00020		mg/L		0.0002	08-SEP-21
Aroclor 1254			<0.00020		mg/L		0.0002	08-SEP-21
Aroclor 1260			<0.00020		mg/L		0.0002	08-SEP-21
Surrogate: Decachlorobiphenyl			112.0		%		50-150	08-SEP-21
Surrogate: Tetrachloro-m-xylene			88.8		%		50-150	08-SEP-21
WG3612560-6 MS		**WG3612560-4**						

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-TCLP-WT	**Waste**							
Batch R5580777								
WG3612560-6 MS		**WG3612560-4**						
Aroclor 1242			88.6		%		50-150	08-SEP-21
Aroclor 1254			81.1		%		50-150	08-SEP-21
Aroclor 1260			104.0		%		50-150	08-SEP-21
VOC-TCLP-WT	**Waste**							
Batch R5581985								
WG3614583-1 LCS								
1,1-Dichloroethylene			88.1		%		70-130	10-SEP-21
1,2-Dichlorobenzene			95.3		%		70-130	10-SEP-21
1,2-Dichloroethane			76.5		%		70-130	10-SEP-21
1,4-Dichlorobenzene			100.2		%		70-130	10-SEP-21
Benzene			93.7		%		70-130	10-SEP-21
Carbon tetrachloride			89.5		%		60-140	10-SEP-21
Chlorobenzene			93.5		%		70-130	10-SEP-21
Chloroform			88.8		%		70-130	10-SEP-21
Dichloromethane			96.2		%		70-130	10-SEP-21
Methyl Ethyl Ketone			94.1		%		50-150	10-SEP-21
Tetrachloroethylene			98.6		%		70-130	10-SEP-21
Trichloroethylene			100.2		%		70-130	10-SEP-21
Vinyl chloride			89.5		%		60-130	10-SEP-21
WG3614583-2 MB								
1,1-Dichloroethylene			<0.025		mg/L		0.025	10-SEP-21
1,2-Dichlorobenzene			<0.025		mg/L		0.025	10-SEP-21
1,2-Dichloroethane			<0.025		mg/L		0.025	10-SEP-21
1,4-Dichlorobenzene			<0.025		mg/L		0.025	10-SEP-21
Benzene			<0.025		mg/L		0.025	10-SEP-21
Carbon tetrachloride			<0.025		mg/L		0.025	10-SEP-21
Chlorobenzene			<0.025		mg/L		0.025	10-SEP-21
Chloroform			<0.10		mg/L		0.1	10-SEP-21
Dichloromethane			<0.50		mg/L		0.5	10-SEP-21
Methyl Ethyl Ketone			<1.0		mg/L		1	10-SEP-21
Tetrachloroethylene			<0.025		mg/L		0.025	10-SEP-21
Trichloroethylene			<0.025		mg/L		0.025	10-SEP-21
Vinyl chloride			<0.050		mg/L		0.05	10-SEP-21
Surrogate: 1,4-Difluorobenzene			101.6		%		70-130	10-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-TCLP-WT	**Waste**							
Batch R5581985								
WG3614583-2 MB								
Surrogate: 4-Bromofluorobenzene			100.5		%		70-130	10-SEP-21
WG3614583-4 MB								
1,1-Dichloroethylene			<0.025		mg/L		0.025	10-SEP-21
1,2-Dichlorobenzene			<0.025		mg/L		0.025	10-SEP-21
1,2-Dichloroethane			<0.025		mg/L		0.025	10-SEP-21
1,4-Dichlorobenzene			<0.025		mg/L		0.025	10-SEP-21
Benzene			<0.025		mg/L		0.025	10-SEP-21
Carbon tetrachloride			<0.025		mg/L		0.025	10-SEP-21
Chlorobenzene			<0.025		mg/L		0.025	10-SEP-21
Chloroform			<0.10		mg/L		0.1	10-SEP-21
Dichloromethane			<0.50		mg/L		0.5	10-SEP-21
Methyl Ethyl Ketone			<1.0		mg/L		1	10-SEP-21
Tetrachloroethylene			<0.025		mg/L		0.025	10-SEP-21
Trichloroethylene			<0.025		mg/L		0.025	10-SEP-21
Vinyl chloride			<0.050		mg/L		0.05	10-SEP-21
Surrogate: 1,4-Difluorobenzene			101.6		%		70-130	10-SEP-21
Surrogate: 4-Bromofluorobenzene			99.3		%		70-130	10-SEP-21
WG3614583-5 MB								
1,1-Dichloroethylene			<0.025		mg/L		0.025	10-SEP-21
1,2-Dichlorobenzene			<0.025		mg/L		0.025	10-SEP-21
1,2-Dichloroethane			<0.025		mg/L		0.025	10-SEP-21
1,4-Dichlorobenzene			<0.025		mg/L		0.025	10-SEP-21
Benzene			<0.025		mg/L		0.025	10-SEP-21
Carbon tetrachloride			<0.025		mg/L		0.025	10-SEP-21
Chlorobenzene			<0.025		mg/L		0.025	10-SEP-21
Chloroform			<0.10		mg/L		0.1	10-SEP-21
Dichloromethane			<0.50		mg/L		0.5	10-SEP-21
Methyl Ethyl Ketone			<1.0		mg/L		1	10-SEP-21
Tetrachloroethylene			<0.025		mg/L		0.025	10-SEP-21
Trichloroethylene			<0.025		mg/L		0.025	10-SEP-21
Vinyl chloride			<0.050		mg/L		0.05	10-SEP-21
Surrogate: 1,4-Difluorobenzene			100.8		%		70-130	10-SEP-21
Surrogate: 4-Bromofluorobenzene			95.6		%		70-130	10-SEP-21
WG3614583-3 MS		**L2630849-11**						

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-TCLP-WT	**Waste**							
Batch R5581985								
WG3614583-3 MS		**L2630849-11**						
1,1-Dichloroethylene			106.2		%		50-140	10-SEP-21
1,2-Dichlorobenzene			110.2		%		50-140	10-SEP-21
1,2-Dichloroethane			110.1		%		50-140	10-SEP-21
1,4-Dichlorobenzene			112.6		%		50-140	10-SEP-21
Benzene			120.3		%		50-140	10-SEP-21
Carbon tetrachloride			108.5		%		50-140	10-SEP-21
Chlorobenzene			113.3		%		50-140	10-SEP-21
Chloroform			116.4		%		50-140	10-SEP-21
Dichloromethane			130.3		%		50-140	10-SEP-21
Methyl Ethyl Ketone			144.2	MES	%		50-140	10-SEP-21
Tetrachloroethylene			110.5		%		50-140	10-SEP-21
Trichloroethylene			124.6		%		50-140	10-SEP-21
Vinyl chloride			107.7		%		50-140	10-SEP-21

Quality Control Report

Workorder: L2635197 Report Date: 10-SEP-21

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Legend:

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

Sample Parameter Qualifier Definitions:

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

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

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

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

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

Chain of Custody

Canad

L2635197-COFC

COC Number: 20 - 897731

Page of

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	ECOM
Contact:	Ian Duncan
Phone:	705 795 2800
Company address below will appear on the final report	
Street:	75 Courtneypark Dr W
City/Province:	Mississauga, ON
Postal Code:	L5W0E3

Reports / Recipients	
Select Report Format:	PDF EXCEL EDD (DIGITAL)
Merge QC/QCI Reports with COA	YES NO N/A
Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	EMAIL MAIL FAX
Email 1 or Fax	iduncan@ecolab.ca
Email 2	admin2@ecolab.ca
Email 3	

Turnaround Time (TAT) Requested
Routine [R] if received by 3pm M-F - no surcharges apply
4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm

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

Invoice To		
	Same as Report To	YES NO
	Copy of Invoice with Report	YES NO
Company:		
Contact:		

Invoice Recipients	
Select Invoice Distribution:	EMAIL MAIL FAX
Email 1 or Fax	accounting@ecolab.ca
Email 2	

Project Information	
ALS Account # / Quote #:	
Job #:	26685
PO / AFE:	
LSD:	
ALS Lab Work Order # (ALS use only):	L2635197

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact:	Sampler:

Analysis Request

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

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	XTCLP - metals	XTCLP PCB	XTCLP PAH	XTCLP VOCs	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	TCLP	02/09/21	17:45	SOIL	3	X	X	X	X			

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? YES NO	Tabe 2scs / Reg 347
Are samples for human consumption/ use? YES NO	

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				FINAL COOLER TEMPERATURES °C			
27.8				15.6			

SHIPMENT RELEASE (client use)		
Released by: Ian D.	Date: 02/09/2021	Time:

INITIAL SHIPMENT RECEPTION (ALS use only)		
Received by: Kiran	Date: 9/2/2021	Time: 13:03

FINAL SHIPMENT RECEPTION (ALS use only)		
Received by:	Date: 9/2/21	Time: 1430

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

ALS 2020 FRONT

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

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

ECOH MANAGEMENT INC (Mississauga)
ATTN: Ian Duncan
75 Courtney Park Drive West
Unit 1
Mississauga ON L5W 0E3

Date Received: 03-SEP-21
Report Date: 13-SEP-21 13:19 (MT)
Version: FINAL

Client Phone: 905-795-2800

Certificate of Analysis

Lab Work Order #: L2635577

Project P.O. #: NOT SUBMITTED
Job Reference: 26685
C of C Numbers: 20-946718
Legal Site Desc:

Emily Hansen
Account Manager

Summary of Guideline Exceedances

ALS ID	Client ID	Grouping	Analyte	Result	Guideline Limit	Unit	Guideline

Ontario Regulation 153/04 - April 15, 2011 Standards - T2-Ground Water (Coarse Soil)-All Types of Property Use

(No parameter exceedances)

Ontario Regulation 153/04 - April 15, 2011 Standards - T2-Ground Water (Fine 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 - WATER

Analyte	Unit	Guide Limits #1	Guide Limits #2	Lab ID: L2635577-1 / Sample Date: 03-SEP-21 / Sample ID: MW4
Conductivity	mS/cm	-	-	2.05
pH	pH units	-	-	8.03

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

Analyte	Unit	Guide Limits #1	Guide Limits #2	Lab ID: L2635577-1 Sample Date: 03-SEP-21 Sample ID: MW4
Chloride (Cl)	mg/L	790	790	513 DLHC

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

		Lab ID	L2635577-1
		Sample Date	03-SEP-21
		Sample ID	MW4
Analyte	Unit	Guide Limits #1	#2
Cyanide, Weak Acid Diss	ug/L	66	66	<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 #1	Guide Limits #2	Lab ID: L2635577-1 Sample Date: 03-SEP-21 Sample ID: MW4
Dissolved Mercury Filtration Location		-	-	FIELD
Dissolved Metals Filtration Location		-	-	FIELD
Antimony (Sb)-Dissolved	ug/L	6	6	<0.10
Arsenic (As)-Dissolved	ug/L	25	25	0.22
Barium (Ba)-Dissolved	ug/L	1000	1000	341
Beryllium (Be)-Dissolved	ug/L	4	4	<0.10
Boron (B)-Dissolved	ug/L	5000	5000	236
Cadmium (Cd)-Dissolved	ug/L	2.7	2.7	<0.010
Chromium (Cr)-Dissolved	ug/L	50	50	<0.50
Cobalt (Co)-Dissolved	ug/L	3.8	3.8	<0.10
Copper (Cu)-Dissolved	ug/L	87	87	3.72
Lead (Pb)-Dissolved	ug/L	10	10	0.051
Mercury (Hg)-Dissolved	ug/L	0.29	1	<0.0050
Molybdenum (Mo)-Dissolved	ug/L	70	70	0.524
Nickel (Ni)-Dissolved	ug/L	100	100	<0.50
Selenium (Se)-Dissolved	ug/L	10	10	0.096
Silver (Ag)-Dissolved	ug/L	1.5	1.5	<0.050
Sodium (Na)-Dissolved	ug/L	490000	490000	162000 DLHC
Thallium (Tl)-Dissolved	ug/L	2	2	<0.010
Uranium (U)-Dissolved	ug/L	20	20	0.331
Vanadium (V)-Dissolved	ug/L	6.2	6.2	<0.50
Zinc (Zn)-Dissolved	ug/L	1100	1100	3.4

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

Speciated Metals - WATER

Analyte	Unit	Guide Limits #1	Guide Limits #2	Lab ID: L2635577-1 Sample Date: 03-SEP-21 Sample ID: MW4
Chromium, Hexavalent	ug/L	25	25	<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.

Volatile Organic Compounds - WATER

				Lab ID	L2635577-1
				Sample Date	03-SEP-21
				Sample ID	MW4
		Guide Limits			
Analyte	Unit	#1	#2		
Acetone	ug/L	2700	2700	<30	
Benzene	ug/L	5	5	<0.50	
Bromodichloromethane	ug/L	16	16	<2.0	
Bromoform	ug/L	25	25	<5.0	
Bromomethane	ug/L	0.89	0.89	<0.50	
Carbon tetrachloride	ug/L	0.79	5	<0.20	
Chlorobenzene	ug/L	30	30	<0.50	
Dibromochloromethane	ug/L	25	25	<2.0	
Chloroform	ug/L	2.4	22	<1.0	
1,2-Dibromoethane	ug/L	0.2	0.2	<0.20	
1,2-Dichlorobenzene	ug/L	3	3	<0.50	
1,3-Dichlorobenzene	ug/L	59	59	<0.50	
1,4-Dichlorobenzene	ug/L	1	1	<0.50	
Dichlorodifluoromethane	ug/L	590	590	<2.0	
1,1-Dichloroethane	ug/L	5	5	<0.50	
1,2-Dichloroethane	ug/L	1.6	5	<0.50	
1,1-Dichloroethylene	ug/L	1.6	14	<0.50	
cis-1,2-Dichloroethylene	ug/L	1.6	17	<0.50	
trans-1,2-Dichloroethylene	ug/L	1.6	17	<0.50	
Methylene Chloride	ug/L	50	50	<5.0	
1,2-Dichloropropane	ug/L	5	5	<0.50	
cis-1,3-Dichloropropene	ug/L	-	-	<0.30	
trans-1,3-Dichloropropene	ug/L	-	-	<0.30	
1,3-Dichloropropene (cis & trans)	ug/L	0.5	0.5	<0.50	
Ethylbenzene	ug/L	2.4	2.4	<0.50	
n-Hexane	ug/L	51	520	<0.50	
Methyl Ethyl Ketone	ug/L	1800	1800	<20	
Methyl Isobutyl Ketone	ug/L	640	640	<20	
MTBE	ug/L	15	15	<2.0	
Styrene	ug/L	5.4	5.4	<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

			Lab ID	L2635577-1
			Sample Date	03-SEP-21
			Sample ID	MW4
		Guide Limits		
Analyte	Unit	#1	#2	
1,1,1,2-Tetrachloroethane	ug/L	1.1	1.1	<0.50
1,1,2,2-Tetrachloroethane	ug/L	1	1	<0.50
Tetrachloroethylene	ug/L	1.6	17	<0.50
Toluene	ug/L	24	24	<0.50
1,1,1-Trichloroethane	ug/L	200	200	<0.50
1,1,2-Trichloroethane	ug/L	4.7	5	<0.50
Trichloroethylene	ug/L	1.6	5	<0.50
Trichlorofluoromethane	ug/L	150	150	<5.0
Vinyl chloride	ug/L	0.5	1.7	<0.50
o-Xylene	ug/L	-	-	<0.30
m+p-Xylenes	ug/L	-	-	<0.40
Xylenes (Total)	ug/L	300	300	<0.50
Surrogate: 4-Bromofluorobenzene	%	-	-	91.4
Surrogate: 1,4-Difluorobenzene	%	-	-	90.3

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.

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

Hydrocarbons - WATER

			Lab ID	L2635577-1
			Sample Date	03-SEP-21
			Sample ID	MW4
		Guide Limits		
Analyte	**Unit**	**#1**	**#2**	
F1 (C6-C10)	ug/L	750	750	<25
F1-BTEX	ug/L	750	750	<25
F2 (C10-C16)	ug/L	150	150	<100
F2-Naphth	ug/L	-	-	<100
F3 (C16-C34)	ug/L	500	500	<250
F3-PAH	ug/L	-	-	<250
F4 (C34-C50)	ug/L	500	500	<250
Total Hydrocarbons (C6-C50)	ug/L	-	-	<370
Chrom. to baseline at nC50		-	-	YES
Surrogate: 2-Bromobenzotrifluoride	%	-	-	92.2
Surrogate: 3,4-Dichlorotoluene	%	-	-	104.2

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.

Polycyclic Aromatic Hydrocarbons - WATER

			Lab ID	L2635577-1
			Sample Date	03-SEP-21
			Sample ID	MW4
		Guide Limits		
Analyte	Unit	#1	#2	
Acenaphthene	ug/L	4.1	4.1	<0.020
Acenaphthylene	ug/L	1	1	<0.020
Anthracene	ug/L	2.4	2.4	<0.020
Benzo(a)anthracene	ug/L	1	1	<0.020
Benzo(a)pyrene	ug/L	0.01	0.01	<0.010
Benzo(b&j)fluoranthene	ug/L	0.1	0.1	<0.020
Benzo(g,h,i)perylene	ug/L	0.2	0.2	<0.020
Benzo(k)fluoranthene	ug/L	0.1	0.1	<0.020
Chrysene	ug/L	0.1	0.1	<0.020
Dibenz(a,h)anthracene	ug/L	0.2	0.2	<0.020
Fluoranthene	ug/L	0.41	0.41	<0.020
Fluorene	ug/L	120	120	<0.020
Indeno(1,2,3-cd)pyrene	ug/L	0.2	0.2	<0.020
1+2-Methylnaphthalenes	ug/L	3.2	3.2	<0.028
1-Methylnaphthalene	ug/L	3.2	3.2	<0.020
2-Methylnaphthalene	ug/L	3.2	3.2	<0.020
Naphthalene	ug/L	11	11	<0.050
Phenanthrene	ug/L	1	1	<0.020
Pyrene	ug/L	4.1	4.1	<0.020
Surrogate: Chrysene d12	%	-	-	107.0
Surrogate: Naphthalene d8	%	-	-	100.6
Surrogate: Phenanthrene d10	%	-	-	97.9

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

Polychlorinated Biphenyls - WATER

			Lab ID	L2635577-1
			Sample Date	03-SEP-21
			Sample ID	MW4
		Guide Limits		
Analyte	Unit	#1	#2	
Aroclor 1242	ug/L	-	-	<0.020
Aroclor 1248	ug/L	-	-	<0.020
Aroclor 1254	ug/L	-	-	<0.020
Aroclor 1260	ug/L	-	-	<0.020
Surrogate: Decachlorobiphenyl	%	-	-	141.4
Total PCBs	ug/L	3	3	<0.040
Surrogate: Tetrachloro-m-xylene	%	-	-	106.0

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.

Reference Information

Qualifiers for Individual Parameters Listed:

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

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
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.

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

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**

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

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

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

Fraction F1 is determined by analyzing by headspace-GC/FID.

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

F2-F4-511-WT	Water	F2-F4-O.Reg 153/04 (July 2011)	EPA 3511/CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, 2001.

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

HG-D-UG/L-CVAA-WT	Water	Diss. Mercury in Water by CVAAS (ug/L)	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

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

MET-D-UG/L-MS-WT	Water	Diss. Metals in Water by ICPMS (ug/L)	EPA 200.8

The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

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

METHYLNAPS-CALC-WT	Water	PAH-Calculated Parameters	SW846 8270
PAH-511-WT	Water	PAH-O. Reg 153/04 (July 2011)	SW846 3510/8270

Aqueous samples, fortified with surrogates, are extracted using liquid/liquid extraction technique. The sample extracts are concentrated and then analyzed using GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

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

PCB-511-WT	Water	PCB-O. Reg 153/04 (July 2011)	SW846 3510/8082

Aqueous samples are extracted, then concentrated, reconstituted, and analyzed by GC/MS.

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

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
		November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).	
PH-WT	Water	pH	APHA 4500 H-Electrode
		Water samples are analyzed directly by a calibrated pH meter.	
		Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011). Holdtime for samples under this regulation is 28 days	
VOC-1,3-DCP-CALC-WT	Water	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Water	VOC by GCMS HS O.Reg 153/04 (July 2011)	SW846 8260
		Liquid samples are analyzed by headspace GC/MSD.	
		Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).	
XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION
		Total xylenes represents the sum of o-xylene and m&p-xylene.	

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

Chain of Custody Numbers:

20-946718

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

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2635577 Report Date: 13-SEP-21

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3

Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-IC-N-WT	**Water**							
Batch R5580189								
WG3612551-15 DUP		**WG3612551-13**						
Chloride (Cl)		46.0	46.0		mg/L	0.0	20	07-SEP-21
WG3612551-12 LCS								
Chloride (Cl)			103.1		%		90-110	07-SEP-21
WG3612551-11 MB								
Chloride (Cl)			<0.50		mg/L		0.5	07-SEP-21
WG3612551-14 MS		**WG3612551-13**						
Chloride (Cl)			104.3		%		75-125	07-SEP-21
CN-WAD-R511-WT	**Water**							
Batch R5581173								
WG3613513-18 DUP		**WG3613513-20**						
Cyanide, Weak Acid Diss		<2.0	<2.0	RPD-NA	ug/L	N/A	20	08-SEP-21
WG3613513-17 LCS								
Cyanide, Weak Acid Diss			93.0		%		80-120	08-SEP-21
WG3613513-16 MB								
Cyanide, Weak Acid Diss			<2.0		ug/L		2	08-SEP-21
WG3613513-19 MS		**WG3613513-20**						
Cyanide, Weak Acid Diss			90.0		%		75-125	08-SEP-21
CR-CR6-IC-R511-WT	**Water**							
Batch R5580511								
WG3612575-4 DUP		**WG3612575-3**						
Chromium, Hexavalent		<0.50	<25	RPD-NA	ug/L	N/A	20	07-SEP-21
WG3612575-2 LCS								
Chromium, Hexavalent			97.6		%		80-120	07-SEP-21
WG3612575-1 MB								
Chromium, Hexavalent			<0.50		ug/L		0.5	07-SEP-21
WG3612575-5 MS		**WG3612575-3**						
Chromium, Hexavalent			93.2		%		70-130	07-SEP-21
EC-R511-WT	**Water**							
Batch R5579786								
WG3611879-4 DUP		**WG3611879-3**						
Conductivity		1.02	1.04		mS/cm	1.5	10	05-SEP-21
WG3611879-2 LCS								
Conductivity			104.6		%		90-110	05-SEP-21
WG3611879-1 MB								
Conductivity			<0.0060		mS/cm		0.006	05-SEP-21
F1-HS-511-WT	**Water**							

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Water**							
Batch R5583104								
WG3615664-4 DUP		**WG3615664-3**						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	13-SEP-21
WG3615664-1 LCS								
F1 (C6-C10)			110.0		%		80-120	13-SEP-21
WG3615664-2 MB								
F1 (C6-C10)			<25		ug/L		25	13-SEP-21
Surrogate: 3,4-Dichlorotoluene			116.6		%		60-140	13-SEP-21
WG3615664-5 MS		**WG3615664-3**						
F1 (C6-C10)			104.7		%		60-140	13-SEP-21
F2-F4-511-WT	**Water**							
Batch R5580948								
WG3612122-2 LCS								
F2 (C10-C16)			100.5		%		70-130	08-SEP-21
F3 (C16-C34)			102.5		%		70-130	08-SEP-21
F4 (C34-C50)			102.0		%		70-130	08-SEP-21
WG3612122-1 MB								
F2 (C10-C16)			<100		ug/L		100	08-SEP-21
F3 (C16-C34)			<250		ug/L		250	08-SEP-21
F4 (C34-C50)			<250		ug/L		250	08-SEP-21
Surrogate: 2-Bromobenzotrifluoride			90.2		%		60-140	08-SEP-21
HG-D-UG/L-CVAA-WT	**Water**							
Batch R5581422								
WG3613531-4 DUP		**WG3613531-3**						
Mercury (Hg)-Dissolved		<0.0050	<0.0050	RPD-NA	ug/L	N/A	20	09-SEP-21
WG3613531-2 LCS								
Mercury (Hg)-Dissolved			97.2		%		80-120	09-SEP-21
WG3613531-1 MB								
Mercury (Hg)-Dissolved			<0.0050		ug/L		0.005	09-SEP-21
WG3613531-6 MS		**WG3613531-5**						
Mercury (Hg)-Dissolved			114.0		%		70-130	09-SEP-21
MET-D-UG/L-MS-WT	**Water**							
Batch R5580470								
WG3612581-4 DUP		**WG3612581-3**						
Antimony (Sb)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	07-SEP-21
Arsenic (As)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	07-SEP-21
Barium (Ba)-Dissolved		309	308		ug/L	0.4	20	07-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R5580470								
WG3612581-4 DUP		**WG3612581-3**						
Beryllium (Be)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	07-SEP-21
Boron (B)-Dissolved		<100	<100	RPD-NA	ug/L	N/A	20	07-SEP-21
Cadmium (Cd)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	07-SEP-21
Chromium (Cr)-Dissolved		<5.0	<5.0	RPD-NA	ug/L	N/A	20	07-SEP-21
Cobalt (Co)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	07-SEP-21
Copper (Cu)-Dissolved		<2.0	<2.0	RPD-NA	ug/L	N/A	20	07-SEP-21
Lead (Pb)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	07-SEP-21
Molybdenum (Mo)-Dissolved		73.4	76.6		ug/L	4.2	20	07-SEP-21
Nickel (Ni)-Dissolved		<5.0	<5.0	RPD-NA	ug/L	N/A	20	07-SEP-21
Selenium (Se)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	07-SEP-21
Silver (Ag)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	07-SEP-21
Sodium (Na)-Dissolved		584000	574000		ug/L	1.8	20	07-SEP-21
Thallium (Tl)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	07-SEP-21
Uranium (U)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	07-SEP-21
Vanadium (V)-Dissolved		<5.0	<5.0	RPD-NA	ug/L	N/A	20	07-SEP-21
Zinc (Zn)-Dissolved		<10	<10	RPD-NA	ug/L	N/A	20	07-SEP-21
WG3612581-2 LCS								
Antimony (Sb)-Dissolved			101.8		%		80-120	07-SEP-21
Arsenic (As)-Dissolved			102.8		%		80-120	07-SEP-21
Barium (Ba)-Dissolved			97.8		%		80-120	07-SEP-21
Beryllium (Be)-Dissolved			101.5		%		80-120	07-SEP-21
Boron (B)-Dissolved			97.0		%		80-120	07-SEP-21
Cadmium (Cd)-Dissolved			99.9		%		80-120	07-SEP-21
Chromium (Cr)-Dissolved			99.8		%		80-120	07-SEP-21
Cobalt (Co)-Dissolved			98.3		%		80-120	07-SEP-21
Copper (Cu)-Dissolved			98.2		%		80-120	07-SEP-21
Lead (Pb)-Dissolved			98.9		%		80-120	07-SEP-21
Molybdenum (Mo)-Dissolved			100.9		%		80-120	07-SEP-21
Nickel (Ni)-Dissolved			98.3		%		80-120	07-SEP-21
Selenium (Se)-Dissolved			99.8		%		80-120	07-SEP-21
Silver (Ag)-Dissolved			99.1		%		80-120	07-SEP-21
Sodium (Na)-Dissolved			101.2		%		80-120	07-SEP-21
Thallium (Tl)-Dissolved			101.4		%		80-120	07-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R5580470								
WG3612581-2 LCS								
Uranium (U)-Dissolved			103.1		%		80-120	07-SEP-21
Vanadium (V)-Dissolved			100.3		%		80-120	07-SEP-21
Zinc (Zn)-Dissolved			97.0		%		80-120	07-SEP-21
WG3612581-1 MB								
Antimony (Sb)-Dissolved			<0.10		ug/L		0.1	07-SEP-21
Arsenic (As)-Dissolved			<0.10		ug/L		0.1	07-SEP-21
Barium (Ba)-Dissolved			<0.10		ug/L		0.1	07-SEP-21
Beryllium (Be)-Dissolved			<0.10		ug/L		0.1	07-SEP-21
Boron (B)-Dissolved			<10		ug/L		10	07-SEP-21
Cadmium (Cd)-Dissolved			<0.0050		ug/L		0.005	07-SEP-21
Chromium (Cr)-Dissolved			<0.50		ug/L		0.5	07-SEP-21
Cobalt (Co)-Dissolved			<0.10		ug/L		0.1	07-SEP-21
Copper (Cu)-Dissolved			<0.20		ug/L		0.2	07-SEP-21
Lead (Pb)-Dissolved			<0.050		ug/L		0.05	07-SEP-21
Molybdenum (Mo)-Dissolved			<0.050		ug/L		0.05	07-SEP-21
Nickel (Ni)-Dissolved			<0.50		ug/L		0.5	07-SEP-21
Selenium (Se)-Dissolved			<0.050		ug/L		0.05	07-SEP-21
Silver (Ag)-Dissolved			<0.050		ug/L		0.05	07-SEP-21
Sodium (Na)-Dissolved			<50		ug/L		50	07-SEP-21
Thallium (Tl)-Dissolved			<0.010		ug/L		0.01	07-SEP-21
Uranium (U)-Dissolved			<0.010		ug/L		0.01	07-SEP-21
Vanadium (V)-Dissolved			<0.50		ug/L		0.5	07-SEP-21
Zinc (Zn)-Dissolved			<1.0		ug/L		1	07-SEP-21
WG3612581-5 MS		**WG3612581-3**						
Antimony (Sb)-Dissolved			98.3		%		70-130	07-SEP-21
Arsenic (As)-Dissolved			100.5		%		70-130	07-SEP-21
Barium (Ba)-Dissolved			N/A	MS-B	%		-	07-SEP-21
Beryllium (Be)-Dissolved			97.7		%		70-130	07-SEP-21
Boron (B)-Dissolved			71.6		%		70-130	07-SEP-21
Cadmium (Cd)-Dissolved			95.7		%		70-130	07-SEP-21
Chromium (Cr)-Dissolved			96.5		%		70-130	07-SEP-21
Cobalt (Co)-Dissolved			97.8		%		70-130	07-SEP-21
Copper (Cu)-Dissolved			92.0		%		70-130	07-SEP-21
Lead (Pb)-Dissolved			96.5		%		70-130	07-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R5580470								
WG3612581-5 MS		**WG3612581-3**						
Molybdenum (Mo)-Dissolved			N/A	MS-B	%		-	07-SEP-21
Nickel (Ni)-Dissolved			92.5		%		70-130	07-SEP-21
Selenium (Se)-Dissolved			98.6		%		70-130	07-SEP-21
Silver (Ag)-Dissolved			97.4		%		70-130	07-SEP-21
Sodium (Na)-Dissolved			N/A	MS-B	%		-	07-SEP-21
Thallium (Tl)-Dissolved			98.9		%		70-130	07-SEP-21
Uranium (U)-Dissolved			102.4		%		70-130	07-SEP-21
Vanadium (V)-Dissolved			100.6		%		70-130	07-SEP-21
Zinc (Zn)-Dissolved			90.2		%		70-130	07-SEP-21
PAH-511-WT	**Water**							
Batch R5581268								
WG3612122-2 LCS								
1-Methylnaphthalene			91.0		%		50-140	09-SEP-21
2-Methylnaphthalene			88.1		%		50-140	09-SEP-21
Acenaphthene			89.5		%		60-130	09-SEP-21
Acenaphthylene			87.9		%		60-130	09-SEP-21
Anthracene			82.5		%		50-140	09-SEP-21
Benzo(a)anthracene			97.7		%		60-140	09-SEP-21
Benzo(a)pyrene			78.0		%		50-140	09-SEP-21
Benzo(b&j)fluoranthene			81.4		%		60-130	09-SEP-21
Benzo(g,h,i)perylene			81.2		%		50-140	09-SEP-21
Benzo(k)fluoranthene			88.3		%		50-140	09-SEP-21
Chrysene			98.6		%		60-140	09-SEP-21
Dibenz(a,h)anthracene			87.3		%		50-140	09-SEP-21
Fluoranthene			93.3		%		60-140	09-SEP-21
Fluorene			90.6		%		60-130	09-SEP-21
Indeno(1,2,3-cd)pyrene			88.6		%		50-140	09-SEP-21
Naphthalene			81.2		%		50-130	09-SEP-21
Phenanthrene			91.5		%		60-140	09-SEP-21
Pyrene			94.9		%		60-140	09-SEP-21
WG3612122-1 MB								
1-Methylnaphthalene			<0.020		ug/L		0.02	09-SEP-21
2-Methylnaphthalene			<0.020		ug/L		0.02	09-SEP-21
Acenaphthene			<0.020		ug/L		0.02	09-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Water**							
Batch R5581268								
WG3612122-1 MB								
Acenaphthylene			<0.020		ug/L		0.02	09-SEP-21
Anthracene			<0.020		ug/L		0.02	09-SEP-21
Benzo(a)anthracene			<0.020		ug/L		0.02	09-SEP-21
Benzo(a)pyrene			<0.010		ug/L		0.01	09-SEP-21
Benzo(b&j)fluoranthene			<0.020		ug/L		0.02	09-SEP-21
Benzo(g,h,i)perylene			<0.020		ug/L		0.02	09-SEP-21
Benzo(k)fluoranthene			<0.020		ug/L		0.02	09-SEP-21
Chrysene			<0.020		ug/L		0.02	09-SEP-21
Dibenz(a,h)anthracene			<0.020		ug/L		0.02	09-SEP-21
Fluoranthene			<0.020		ug/L		0.02	09-SEP-21
Fluorene			<0.020		ug/L		0.02	09-SEP-21
Indeno(1,2,3-cd)pyrene			<0.020		ug/L		0.02	09-SEP-21
Naphthalene			<0.050		ug/L		0.05	09-SEP-21
Phenanthrene			<0.020		ug/L		0.02	09-SEP-21
Pyrene			<0.020		ug/L		0.02	09-SEP-21
Surrogate: Naphthalene d8			108.4		%		60-140	09-SEP-21
Surrogate: Phenanthrene d10			107.7		%		60-140	09-SEP-21
Surrogate: Chrysene d12			114.0		%		50-150	09-SEP-21
PCB-511-WT	**Water**							
Batch R5580788								
WG3612112-2 LCS								
Aroclor 1242			123.9		%		60-140	08-SEP-21
Aroclor 1248			107.9		%		60-140	08-SEP-21
Aroclor 1254			128.9		%		60-140	08-SEP-21
Aroclor 1260			147.5	LCS-H	%		60-140	08-SEP-21
WG3612112-1 MB								
Aroclor 1242			<0.020		ug/L		0.02	08-SEP-21
Aroclor 1248			<0.020		ug/L		0.02	08-SEP-21
Aroclor 1254			<0.020		ug/L		0.02	08-SEP-21
Aroclor 1260			<0.020		ug/L		0.02	08-SEP-21
Surrogate: Decachlorobiphenyl			155.7	SURQC	%		50-150	08-SEP-21
Surrogate: Tetrachloro-m-xylene			108.8		%		50-150	08-SEP-21
PH-WT	**Water**							

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WT	**Water**							
Batch R5579786								
WG3611879-4 DUP		**WG3611879-3**						
pH		8.63	8.60	J	pH units	0.03	0.2	05-SEP-21
WG3611879-2 LCS								
pH			6.99		pH units		6.9-7.1	05-SEP-21
VOC-511-HS-WT	**Water**							
Batch R5583104								
WG3615664-4 DUP		**WG3615664-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	13-SEP-21
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	13-SEP-21
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	13-SEP-21
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	13-SEP-21
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	13-SEP-21
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	13-SEP-21
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	13-SEP-21
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	13-SEP-21
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	13-SEP-21
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	13-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5583104								
WG3615664-4 DUP		**WG3615664-3**						
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	13-SEP-21
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	13-SEP-21
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	13-SEP-21
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	13-SEP-21
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	13-SEP-21
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	13-SEP-21
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	13-SEP-21
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
WG3615664-1 LCS								
1,1,1,2-Tetrachloroethane			92.2		%		70-130	13-SEP-21
1,1,2,2-Tetrachloroethane			104.2		%		70-130	13-SEP-21
1,1,1-Trichloroethane			97.7		%		70-130	13-SEP-21
1,1,2-Trichloroethane			104.6		%		70-130	13-SEP-21
1,1-Dichloroethane			107.5		%		70-130	13-SEP-21
1,1-Dichloroethylene			104.6		%		70-130	13-SEP-21
1,2-Dibromoethane			101.8		%		70-130	13-SEP-21
1,2-Dichlorobenzene			109.7		%		70-130	13-SEP-21
1,2-Dichloroethane			110.7		%		70-130	13-SEP-21
1,2-Dichloropropane			103.2		%		70-130	13-SEP-21
1,3-Dichlorobenzene			107.2		%		70-130	13-SEP-21
1,4-Dichlorobenzene			108.9		%		70-130	13-SEP-21
Acetone			124.4		%		60-140	13-SEP-21
Benzene			91.8		%		70-130	13-SEP-21
Bromodichloromethane			105.9		%		70-130	13-SEP-21
Bromoform			99.5		%		70-130	13-SEP-21
Bromomethane			96.6		%		60-140	13-SEP-21
Carbon tetrachloride			88.8		%		70-130	13-SEP-21
Chlorobenzene			93.9		%		70-130	13-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5583104								
WG3615664-1 LCS								
Chloroform			94.5		%		70-130	13-SEP-21
cis-1,2-Dichloroethylene			104.0		%		70-130	13-SEP-21
cis-1,3-Dichloropropene			100.5		%		70-130	13-SEP-21
Dibromochloromethane			100.9		%		70-130	13-SEP-21
Dichlorodifluoromethane			81.2		%		50-140	13-SEP-21
Ethylbenzene			98.1		%		70-130	13-SEP-21
n-Hexane			103.1		%		70-130	13-SEP-21
m+p-Xylenes			98.5		%		70-130	13-SEP-21
Methyl Ethyl Ketone			111.7		%		60-140	13-SEP-21
Methyl Isobutyl Ketone			117.0		%		60-140	13-SEP-21
Methylene Chloride			101.2		%		70-130	13-SEP-21
MTBE			103.3		%		70-130	13-SEP-21
o-Xylene			99.7		%		70-130	13-SEP-21
Styrene			99.97		%		70-130	13-SEP-21
Tetrachloroethylene			89.1		%		70-130	13-SEP-21
Toluene			100.0		%		70-130	13-SEP-21
trans-1,2-Dichloroethylene			106.0		%		70-130	13-SEP-21
trans-1,3-Dichloropropene			103.0		%		70-130	13-SEP-21
Trichloroethylene			87.2		%		70-130	13-SEP-21
Trichlorofluoromethane			93.5		%		60-140	13-SEP-21
Vinyl chloride			84.9		%		60-140	13-SEP-21
WG3615664-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	13-SEP-21
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	13-SEP-21
1,1,1-Trichloroethane			<0.50		ug/L		0.5	13-SEP-21
1,1,2-Trichloroethane			<0.50		ug/L		0.5	13-SEP-21
1,1-Dichloroethane			<0.50		ug/L		0.5	13-SEP-21
1,1-Dichloroethylene			<0.50		ug/L		0.5	13-SEP-21
1,2-Dibromoethane			<0.20		ug/L		0.2	13-SEP-21
1,2-Dichlorobenzene			<0.50		ug/L		0.5	13-SEP-21
1,2-Dichloroethane			<0.50		ug/L		0.5	13-SEP-21
1,2-Dichloropropane			<0.50		ug/L		0.5	13-SEP-21
1,3-Dichlorobenzene			<0.50		ug/L		0.5	13-SEP-21
1,4-Dichlorobenzene			<0.50		ug/L		0.5	13-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5583104								
WG3615664-2 MB								
Acetone			<30		ug/L		30	13-SEP-21
Benzene			<0.50		ug/L		0.5	13-SEP-21
Bromodichloromethane			<2.0		ug/L		2	13-SEP-21
Bromoform			<5.0		ug/L		5	13-SEP-21
Bromomethane			<0.50		ug/L		0.5	13-SEP-21
Carbon tetrachloride			<0.20		ug/L		0.2	13-SEP-21
Chlorobenzene			<0.50		ug/L		0.5	13-SEP-21
Chloroform			<1.0		ug/L		1	13-SEP-21
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	13-SEP-21
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	13-SEP-21
Dibromochloromethane			<2.0		ug/L		2	13-SEP-21
Dichlorodifluoromethane			<2.0		ug/L		2	13-SEP-21
Ethylbenzene			<0.50		ug/L		0.5	13-SEP-21
n-Hexane			<0.50		ug/L		0.5	13-SEP-21
m+p-Xylenes			<0.40		ug/L		0.4	13-SEP-21
Methyl Ethyl Ketone			<20		ug/L		20	13-SEP-21
Methyl Isobutyl Ketone			<20		ug/L		20	13-SEP-21
Methylene Chloride			<5.0		ug/L		5	13-SEP-21
MTBE			<2.0		ug/L		2	13-SEP-21
o-Xylene			<0.30		ug/L		0.3	13-SEP-21
Styrene			<0.50		ug/L		0.5	13-SEP-21
Tetrachloroethylene			<0.50		ug/L		0.5	13-SEP-21
Toluene			<0.50		ug/L		0.5	13-SEP-21
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	13-SEP-21
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	13-SEP-21
Trichloroethylene			<0.50		ug/L		0.5	13-SEP-21
Trichlorofluoromethane			<5.0		ug/L		5	13-SEP-21
Vinyl chloride			<0.50		ug/L		0.5	13-SEP-21
Surrogate: 1,4-Difluorobenzene			90.5		%		70-130	13-SEP-21
Surrogate: 4-Bromofluorobenzene			92.0		%		70-130	13-SEP-21
WG3615664-5 MS		**WG3615664-3**						
1,1,1,2-Tetrachloroethane			87.6		%		50-140	13-SEP-21
1,1,2,2-Tetrachloroethane			95.0		%		50-140	13-SEP-21
1,1,1-Trichloroethane			94.2		%		50-140	13-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5583104								
WG3615664-5 MS		**WG3615664-3**						
1,1,2-Trichloroethane			97.3		%		50-140	13-SEP-21
1,1-Dichloroethane			105.1		%		50-140	13-SEP-21
1,1-Dichloroethylene			100.8		%		50-140	13-SEP-21
1,2-Dibromoethane			93.4		%		50-140	13-SEP-21
1,2-Dichlorobenzene			106.4		%		50-140	13-SEP-21
1,2-Dichloroethane			103.3		%		50-140	13-SEP-21
1,2-Dichloropropane			98.0		%		50-140	13-SEP-21
1,3-Dichlorobenzene			106.2		%		50-140	13-SEP-21
1,4-Dichlorobenzene			108.3		%		50-140	13-SEP-21
Acetone			112.1		%		50-140	13-SEP-21
Benzene			87.7		%		50-140	13-SEP-21
Bromodichloromethane			100.4		%		50-140	13-SEP-21
Bromoform			92.0		%		50-140	13-SEP-21
Bromomethane			91.4		%		50-140	13-SEP-21
Carbon tetrachloride			85.3		%		50-140	13-SEP-21
Chlorobenzene			90.0		%		50-140	13-SEP-21
Chloroform			90.2		%		50-140	13-SEP-21
cis-1,2-Dichloroethylene			99.8		%		50-140	13-SEP-21
cis-1,3-Dichloropropene			96.4		%		50-140	13-SEP-21
Dibromochloromethane			95.5		%		50-140	13-SEP-21
Dichlorodifluoromethane			71.9		%		50-140	13-SEP-21
Ethylbenzene			96.0		%		50-140	13-SEP-21
n-Hexane			95.1		%		50-140	13-SEP-21
m+p-Xylenes			96.7		%		50-140	13-SEP-21
Methyl Ethyl Ketone			97.5		%		50-140	13-SEP-21
Methyl Isobutyl Ketone			103.7		%		50-140	13-SEP-21
Methylene Chloride			95.5		%		50-140	13-SEP-21
MTBE			101.3		%		50-140	13-SEP-21
o-Xylene			97.0		%		50-140	13-SEP-21
Styrene			96.1		%		50-140	13-SEP-21
Tetrachloroethylene			86.7		%		50-140	13-SEP-21
Toluene			94.6		%		50-140	13-SEP-21
trans-1,2-Dichloroethylene			103.1		%		50-140	13-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5583104								
WG3615664-5 MS		**WG3615664-3**						
trans-1,3-Dichloropropene			98.2		%		50-140	13-SEP-21
Trichloroethylene			84.5		%		50-140	13-SEP-21
Trichlorofluoromethane			87.7		%		50-140	13-SEP-21
Vinyl chloride			78.4		%		50-140	13-SEP-21

Quality Control Report

Workorder: L2635577 Report Date: 13-SEP-21

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Legend:

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

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
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.
SURQC	Surrogate recovery marginally exceeded DQO in QC sample (MB, LCS, RM, or MS). Surrogates are less important for QC samples than for test samples. Refer to regular (non-surrogate) analyte results in affected QC sample for assessment of potential impacts to those analytes.

Hold Time Exceedances:

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

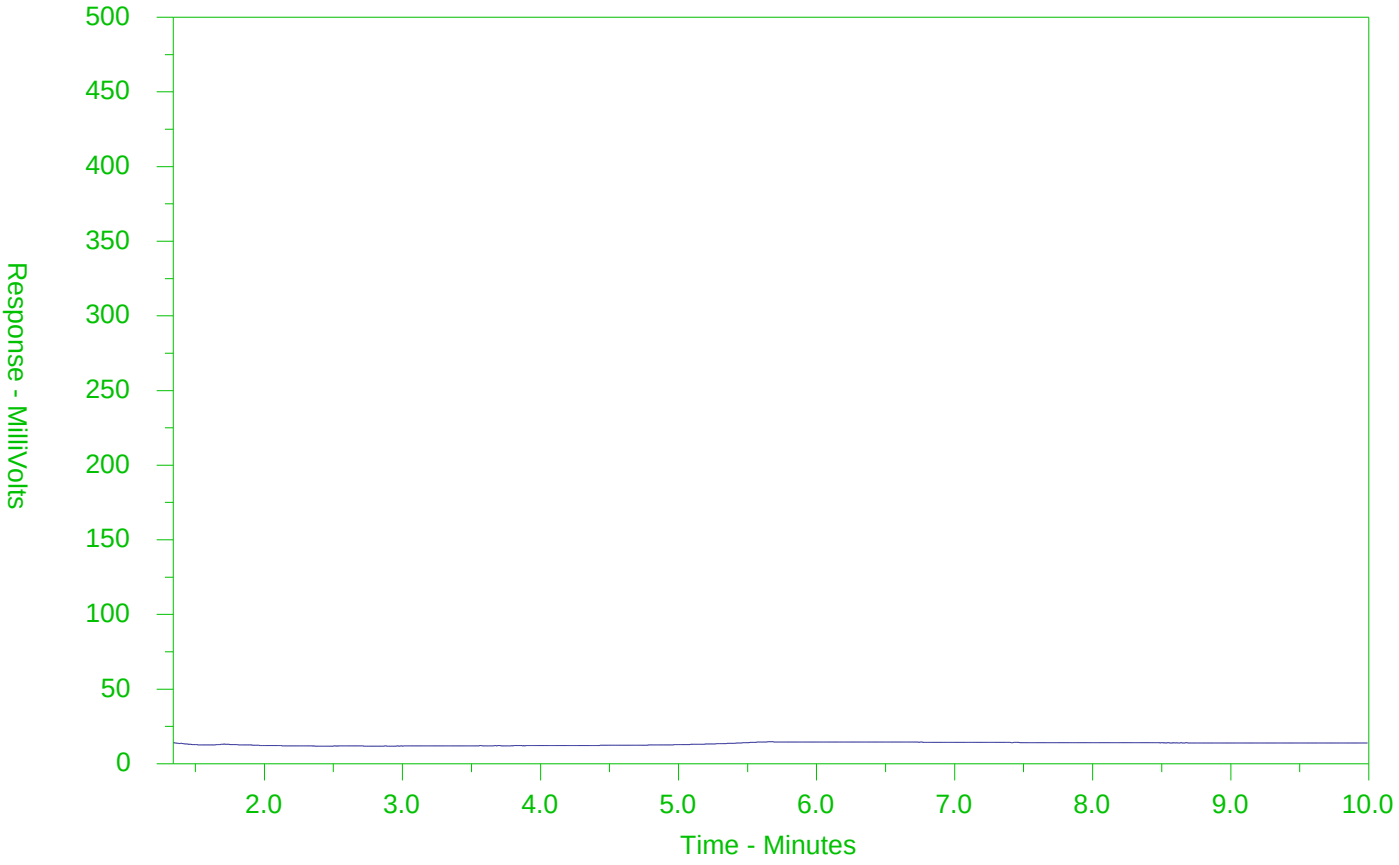
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where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

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

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

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2635577-1
Client Sample ID: MW4



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

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

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

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

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

www.alsglobal.com

L2635577-COFC

rm

COC Number: 20 -

Page of

Report To	Contact and company name below will appear on the final report	Reports / Recipients	Turnaround Time (TAT) Requested	AFFIX ALS BARCODE LABEL HERE (ALS use only)
Company:		Select Report Format: ☐ PDF ☐ EXCEL ☐ EDD (DIGITAL)	☒ Routine [R] if received by 3pm M-F - no surcharges apply	
Contact:		Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A	☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum	
Phone:		☐ Compare Results to Criteria on Report - provide details below if box checked	☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum	
	Company address below will appear on the final report	Select Distribution: ☐ EMAIL ☐ MAIL ☐ FAX	☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum	
Street:		Email 1 or Fax	☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum	
City/Province:		Email 2	☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests	
Postal Code.		Email 3	Date and Time Required for all E&P TATs:	d-mmm-y hh:mm

Invoice To		Invoice Recipients	For all tests with rush TATs requested, please contact your AM to confirm availability.
	Same as Report To ☐ YES ☐ NO	Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX	
	Copy of Invoice with Report ☒ YES ☐ NO	Email 1 or Fax	
Company:		Email 2	
Contact:			

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:		Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (ALS use only): L2635577 ALS Contact: Sampler:

Analysis Request

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

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	MW4	/ /			11			

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☐ NO	
Are samples for human consumption/ use? ☐ YES ☐ NO	

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				FINAL COOLER TEMPERATURES °C			
18.6				18.0			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by:	Date: 3/09/2021	Time:	Received by: Karan	Date: 9/3/2021	Time: 10:52	Received by:	Date: 9/3/21	Time: 1420

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

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

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

ECOH MANAGEMENT INC (Mississauga)
ATTN: Ian Duncan
75 Courtney Park Drive West
Unit 1
Mississauga ON L5W 0E3

Date Received: 09-SEP-21
Report Date: 13-SEP-21 16:24 (MT)
Version: FINAL

Client Phone: 905-795-2800

Certificate of Analysis

Lab Work Order #: L2637513

Project P.O. #: NOT SUBMITTED
Job Reference: 26685
C of C Numbers:
Legal Site Desc:

Emily Hansen
Account Manager

Sample Details Grouping / Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits #1
L2637513-1 BHMW-1						
Sampled By: ID on 09-SEP-21 @ 12:30						
Matrix: WATER						
Physical Tests						
Conductivity	1.96		0.0030	mS/cm	10-SEP-21	
pH	8.00		0.10	pH units	10-SEP-21	
Anions and Nutrients						
Chloride (Cl)	511	DLHC	2.5	mg/L	10-SEP-21	790
Cyanides						
Cyanide, Weak Acid Diss	<2.0		2.0	ug/L	10-SEP-21	52
Dissolved Metals						
Dissolved Mercury Filtration Location	FIELD			No Unit	10-SEP-21	
Dissolved Metals Filtration Location	FIELD			No Unit	09-SEP-21	
Antimony (Sb)-Dissolved	1.4	DLHC	1.0	ug/L	09-SEP-21	6
Arsenic (As)-Dissolved	2.8	DLHC	1.0	ug/L	09-SEP-21	25
Barium (Ba)-Dissolved	160	DLHC	1.0	ug/L	09-SEP-21	1000
Beryllium (Be)-Dissolved	<1.0	DLHC	1.0	ug/L	09-SEP-21	4
Boron (B)-Dissolved	500	DLHC	100	ug/L	09-SEP-21	5000
Cadmium (Cd)-Dissolved	<0.050	DLHC	0.050	ug/L	09-SEP-21	2.1
Chromium (Cr)-Dissolved	<5.0	DLHC	5.0	ug/L	09-SEP-21	50
Cobalt (Co)-Dissolved	<1.0	DLHC	1.0	ug/L	09-SEP-21	3.8
Copper (Cu)-Dissolved	3.6	DLHC	2.0	ug/L	09-SEP-21	69
Lead (Pb)-Dissolved	<0.50	DLHC	0.50	ug/L	09-SEP-21	10
Mercury (Hg)-Dissolved	0.0643		0.0050	ug/L	13-SEP-21	0.29
Molybdenum (Mo)-Dissolved	27.1	DLHC	0.50	ug/L	09-SEP-21	70
Nickel (Ni)-Dissolved	<5.0	DLHC	5.0	ug/L	09-SEP-21	100
Selenium (Se)-Dissolved	1.18	DLHC	0.50	ug/L	09-SEP-21	10
Silver (Ag)-Dissolved	<0.50	DLHC	0.50	ug/L	09-SEP-21	1.2
Sodium (Na)-Dissolved	137000	DLHC	500	ug/L	09-SEP-21	490000
Thallium (Tl)-Dissolved	<0.10	DLHC	0.10	ug/L	09-SEP-21	2
Uranium (U)-Dissolved	2.26	DLHC	0.10	ug/L	09-SEP-21	20
Vanadium (V)-Dissolved	<5.0	DLHC	5.0	ug/L	09-SEP-21	6.2
Zinc (Zn)-Dissolved	<10	DLHC	10	ug/L	09-SEP-21	890
Speciated Metals						
Chromium, Hexavalent	<0.50		0.50	ug/L	10-SEP-21	25
Volatile Organic Compounds						
Acetone	<30	OWP	30	ug/L	13-SEP-21	2700
Benzene	<0.50	OWP	0.50	ug/L	13-SEP-21	5
Bromodichloromethane	<2.0	OWP	2.0	ug/L	13-SEP-21	16
Bromoform	<5.0	OWP	5.0	ug/L	13-SEP-21	25
Bromomethane	<0.50	OWP	0.50	ug/L	13-SEP-21	0.89
Carbon tetrachloride	<0.20	OWP	0.20	ug/L	13-SEP-21	0.79
Chlorobenzene	<0.50	OWP	0.50	ug/L	13-SEP-21	30
Dibromochloromethane	<2.0	OWP	2.0	ug/L	13-SEP-21	25
Chloroform	<1.0	OWP	1.0	ug/L	13-SEP-21	2.4
1,2-Dibromoethane	<0.20	OWP	0.20	ug/L	13-SEP-21	0.2
1,2-Dichlorobenzene	<0.50	OWP	0.50	ug/L	13-SEP-21	3
1,3-Dichlorobenzene	<0.50	OWP	0.50	ug/L	13-SEP-21	59
1,4-Dichlorobenzene	<0.50	OWP	0.50	ug/L	13-SEP-21	1

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T8-Ground Water - All Types of Property Use

#1: T8-Ground Water - All Types of Property Use

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2637513-1	BHMW-1									
Sampled By:	ID on 09-SEP-21 @ 12:30									
Matrix:	WATER						#1			
Volatile Organic Compounds										
	Dichlorodifluoromethane	<2.0	OWP	2.0	ug/L	13-SEP-21	590			
	1,1-Dichloroethane	<0.50	OWP	0.50	ug/L	13-SEP-21	5			
	1,2-Dichloroethane	<0.50	OWP	0.50	ug/L	13-SEP-21	1.6			
	1,1-Dichloroethylene	<0.50	OWP	0.50	ug/L	13-SEP-21	1.6			
	cis-1,2-Dichloroethylene	<0.50	OWP	0.50	ug/L	13-SEP-21	1.6			
	trans-1,2-Dichloroethylene	<0.50	OWP	0.50	ug/L	13-SEP-21	1.6			
	Methylene Chloride	<5.0	OWP	5.0	ug/L	13-SEP-21	50			
	1,2-Dichloropropane	<0.50	OWP	0.50	ug/L	13-SEP-21	5			
	cis-1,3-Dichloropropene	<0.30	OWP	0.30	ug/L	13-SEP-21				
	trans-1,3-Dichloropropene	<0.30	OWP	0.30	ug/L	13-SEP-21				
	1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	13-SEP-21	0.5			
	Ethylbenzene	<0.50	OWP	0.50	ug/L	13-SEP-21	2.4			
	n-Hexane	<0.50	OWP	0.50	ug/L	13-SEP-21	51			
	Methyl Ethyl Ketone	<20	OWP	20	ug/L	13-SEP-21	1800			
	Methyl Isobutyl Ketone	<20	OWP	20	ug/L	13-SEP-21	640			
	MTBE	<2.0	OWP	2.0	ug/L	13-SEP-21	15			
	Styrene	<0.50	OWP	0.50	ug/L	13-SEP-21	5.4			
	1,1,1,2-Tetrachloroethane	<0.50	OWP	0.50	ug/L	13-SEP-21	1.1			
	1,1,2,2-Tetrachloroethane	<0.50	OWP	0.50	ug/L	13-SEP-21	1			
	Tetrachloroethylene	<0.50	OWP	0.50	ug/L	13-SEP-21	1.6			
	Toluene	<0.50	OWP	0.50	ug/L	13-SEP-21	22			
	1,1,1-Trichloroethane	<0.50	OWP	0.50	ug/L	13-SEP-21	200			
	1,1,2-Trichloroethane	<0.50	OWP	0.50	ug/L	13-SEP-21	4.7			
	Trichloroethylene	<0.50	OWP	0.50	ug/L	13-SEP-21	1.6			
	Trichlorofluoromethane	<5.0	OWP	5.0	ug/L	13-SEP-21	150			
	Vinyl chloride	<0.50	OWP	0.50	ug/L	13-SEP-21	0.5			
	o-Xylene	<0.30	OWP	0.30	ug/L	13-SEP-21				
	m+p-Xylenes	<0.40	OWP	0.40	ug/L	13-SEP-21				
	Xylenes (Total)	<0.50		0.50	ug/L	13-SEP-21	300			
	Surrogate: 4-Bromofluorobenzene	85.9		70-130	%	13-SEP-21				
	Surrogate: 1,4-Difluorobenzene	99.6		70-130	%	13-SEP-21				
Hydrocarbons										
	F1 (C6-C10)	<25	OWP	25	ug/L	13-SEP-21	420			
	F1-BTEX	<25		25	ug/L	13-SEP-21	420			
	F2 (C10-C16)	<100		100	ug/L	13-SEP-21	150			
	F3 (C16-C34)	<250		250	ug/L	13-SEP-21	500			
	F4 (C34-C50)	<250		250	ug/L	13-SEP-21	500			
	Total Hydrocarbons (C6-C50)	<370		370	ug/L	13-SEP-21				
	Chrom. to baseline at nC50	YES			No Unit	13-SEP-21				
	Surrogate: 2-Bromobenzotrifluoride	87.7		60-140	%	13-SEP-21				
	Surrogate: 3,4-Dichlorotoluene	89.9		60-140	%	13-SEP-21				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T8-Ground Water - All Types of Property Use

#1: T8-Ground Water - All Types of Property Use

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
OWP	Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

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

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

Reference Information

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

Fraction F1 is determined by analyzing by headspace-GC/FID.

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

F2-F4-511-WT	Water	F2-F4-O.Reg 153/04 (July 2011)	EPA 3511/CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, 2001.

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

HG-D-UG/L-CVAA-WT	Water	Diss. Mercury in Water by CVAAS (ug/L)	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

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

MET-D-UG/L-MS-WT	Water	Diss. Metals in Water by ICPMS (ug/L)	EPA 200.8

The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

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

PH-WT	Water	pH	APHA 4500 H-Electrode

Water samples are analyzed directly by a calibrated pH meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011). Holdtime for samples under this regulation is 28 days

VOC-1,3-DCP-CALC-WT	Water	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Water	VOC by GCMS HS O.Reg 153/04 (July 2011)	SW846 8260

Liquid samples are analyzed by headspace GC/MSD.

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

XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION

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

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

Chain of Custody numbers:

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

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

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2637513 Report Date: 13-SEP-21

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-IC-N-WT	**Water**							
Batch R5583036								
WG3615061-9 DUP		**WG3615061-8**						
Chloride (Cl)		33.8	33.8		mg/L	0.1	20	10-SEP-21
WG3615061-7 LCS								
Chloride (Cl)			102.5		%		90-110	10-SEP-21
WG3615061-6 MB								
Chloride (Cl)			<0.50		mg/L		0.5	10-SEP-21
WG3615061-10 MS		**WG3615061-8**						
Chloride (Cl)			99.7		%		75-125	10-SEP-21
CN-WAD-R511-WT	**Water**							
Batch R5583377								
WG3615143-24 DUP		**WG3615143-23**						
Cyanide, Weak Acid Diss		<2.0	<2.0	RPD-NA	ug/L	N/A	20	10-SEP-21
WG3615143-22 LCS								
Cyanide, Weak Acid Diss			96.2		%		80-120	10-SEP-21
WG3615143-21 MB								
Cyanide, Weak Acid Diss			<2.0		ug/L		2	10-SEP-21
WG3615143-25 MS		**WG3615143-23**						
Cyanide, Weak Acid Diss			102.7		%		75-125	10-SEP-21
CR-CR6-IC-R511-WT	**Water**							
Batch R5583299								
WG3615903-4 DUP		**WG3615903-3**						
Chromium, Hexavalent		<0.50	<0.50	RPD-NA	ug/L	N/A	20	10-SEP-21
WG3615903-2 LCS								
Chromium, Hexavalent			97.8		%		80-120	10-SEP-21
WG3615903-1 MB								
Chromium, Hexavalent			<0.50		ug/L		0.5	10-SEP-21
WG3615903-5 MS		**WG3615903-3**						
Chromium, Hexavalent			93.7		%		70-130	10-SEP-21
EC-R511-WT	**Water**							
Batch R5582750								
WG3614795-4 DUP		**WG3614795-3**						
Conductivity		1.96	1.97		mS/cm	0.4	10	10-SEP-21
WG3614795-2 LCS								
Conductivity			98.5		%		90-110	10-SEP-21
WG3614795-1 MB								
Conductivity			<0.0030		mS/cm		0.003	10-SEP-21
F1-HS-511-WT	**Water**							

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	**Water**							
Batch R5583391								
WG3615798-4 DUP		**WG3615798-3**						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	13-SEP-21
WG3615798-1 LCS								
F1 (C6-C10)			109.3		%		80-120	13-SEP-21
WG3615798-2 MB								
F1 (C6-C10)			<25		ug/L		25	13-SEP-21
Surrogate: 3,4-Dichlorotoluene			102.3		%		60-140	13-SEP-21
WG3615798-5 MS		**WG3615798-3**						
F1 (C6-C10)			92.2		%		60-140	13-SEP-21
F2-F4-511-WT	**Water**							
Batch R5583202								
WG3614620-2 LCS								
F2 (C10-C16)			101.8		%		70-130	13-SEP-21
F3 (C16-C34)			104.8		%		70-130	13-SEP-21
F4 (C34-C50)			101.4		%		70-130	13-SEP-21
WG3614620-1 MB								
F2 (C10-C16)			<100		ug/L		100	13-SEP-21
F3 (C16-C34)			<250		ug/L		250	13-SEP-21
F4 (C34-C50)			<250		ug/L		250	13-SEP-21
Surrogate: 2-Bromobenzotrifluoride			85.9		%		60-140	13-SEP-21
HG-D-UG/L-CVAA-WT	**Water**							
Batch R5583238								
WG3615265-4 DUP		**WG3615265-3**						
Mercury (Hg)-Dissolved		<0.0050	<0.0050	RPD-NA	ug/L	N/A	20	13-SEP-21
WG3615265-2 LCS								
Mercury (Hg)-Dissolved			96.6		%		80-120	13-SEP-21
WG3615265-1 MB								
Mercury (Hg)-Dissolved			<0.0050		ug/L		0.005	13-SEP-21
WG3615265-6 MS		**WG3615265-5**						
Mercury (Hg)-Dissolved			94.8		%		70-130	13-SEP-21
MET-D-UG/L-MS-WT	**Water**							
Batch R5581509								
WG3614463-4 DUP		**WG3614463-3**						
Antimony (Sb)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	10-SEP-21
Arsenic (As)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	10-SEP-21
Barium (Ba)-Dissolved		404	406		ug/L	0.4	20	10-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R5581509								
WG3614463-4 DUP		**WG3614463-3**						
Beryllium (Be)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	10-SEP-21
Boron (B)-Dissolved		<100	<100	RPD-NA	ug/L	N/A	20	10-SEP-21
Cadmium (Cd)-Dissolved		0.113	0.105		ug/L	6.9	20	10-SEP-21
Chromium (Cr)-Dissolved		<5.0	<5.0	RPD-NA	ug/L	N/A	20	10-SEP-21
Cobalt (Co)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	10-SEP-21
Copper (Cu)-Dissolved		4.3	4.0		ug/L	7.6	20	10-SEP-21
Lead (Pb)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	10-SEP-21
Molybdenum (Mo)-Dissolved		0.63	0.54		ug/L	15	20	10-SEP-21
Nickel (Ni)-Dissolved		<5.0	<5.0	RPD-NA	ug/L	N/A	20	10-SEP-21
Selenium (Se)-Dissolved		1.78	1.83		ug/L	2.5	20	10-SEP-21
Silver (Ag)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	10-SEP-21
Sodium (Na)-Dissolved		885000	906000		ug/L	2.3	20	10-SEP-21
Thallium (Tl)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	10-SEP-21
Uranium (U)-Dissolved		3.95	4.00		ug/L	1.1	20	10-SEP-21
Vanadium (V)-Dissolved		<5.0	<5.0	RPD-NA	ug/L	N/A	20	10-SEP-21
Zinc (Zn)-Dissolved		<10	<10	RPD-NA	ug/L	N/A	20	10-SEP-21
WG3614463-2 LCS								
Antimony (Sb)-Dissolved			92.4		%		80-120	09-SEP-21
Arsenic (As)-Dissolved			94.4		%		80-120	09-SEP-21
Barium (Ba)-Dissolved			94.2		%		80-120	09-SEP-21
Beryllium (Be)-Dissolved			92.1		%		80-120	09-SEP-21
Boron (B)-Dissolved			85.8		%		80-120	09-SEP-21
Cadmium (Cd)-Dissolved			92.8		%		80-120	09-SEP-21
Chromium (Cr)-Dissolved			92.5		%		80-120	09-SEP-21
Cobalt (Co)-Dissolved			93.3		%		80-120	09-SEP-21
Copper (Cu)-Dissolved			91.6		%		80-120	09-SEP-21
Lead (Pb)-Dissolved			92.8		%		80-120	09-SEP-21
Molybdenum (Mo)-Dissolved			92.4		%		80-120	09-SEP-21
Nickel (Ni)-Dissolved			91.8		%		80-120	09-SEP-21
Selenium (Se)-Dissolved			94.2		%		80-120	09-SEP-21
Silver (Ag)-Dissolved			93.3		%		80-120	09-SEP-21
Sodium (Na)-Dissolved			93.5		%		80-120	09-SEP-21
Thallium (Tl)-Dissolved			92.6		%		80-120	09-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R5581509								
WG3614463-2 LCS								
Uranium (U)-Dissolved			96.0		%		80-120	09-SEP-21
Vanadium (V)-Dissolved			94.6		%		80-120	09-SEP-21
Zinc (Zn)-Dissolved			88.7		%		80-120	09-SEP-21
WG3614463-1 MB								
Antimony (Sb)-Dissolved			<0.10		ug/L		0.1	09-SEP-21
Arsenic (As)-Dissolved			<0.10		ug/L		0.1	09-SEP-21
Barium (Ba)-Dissolved			<0.10		ug/L		0.1	09-SEP-21
Beryllium (Be)-Dissolved			<0.10		ug/L		0.1	09-SEP-21
Boron (B)-Dissolved			<10		ug/L		10	09-SEP-21
Cadmium (Cd)-Dissolved			<0.0050		ug/L		0.005	09-SEP-21
Chromium (Cr)-Dissolved			<0.50		ug/L		0.5	09-SEP-21
Cobalt (Co)-Dissolved			<0.10		ug/L		0.1	09-SEP-21
Copper (Cu)-Dissolved			<0.20		ug/L		0.2	09-SEP-21
Lead (Pb)-Dissolved			<0.050		ug/L		0.05	09-SEP-21
Molybdenum (Mo)-Dissolved			<0.050		ug/L		0.05	09-SEP-21
Nickel (Ni)-Dissolved			<0.50		ug/L		0.5	09-SEP-21
Selenium (Se)-Dissolved			<0.050		ug/L		0.05	09-SEP-21
Silver (Ag)-Dissolved			<0.050		ug/L		0.05	09-SEP-21
Sodium (Na)-Dissolved			<50		ug/L		50	09-SEP-21
Thallium (Tl)-Dissolved			<0.010		ug/L		0.01	09-SEP-21
Uranium (U)-Dissolved			<0.010		ug/L		0.01	09-SEP-21
Vanadium (V)-Dissolved			<0.50		ug/L		0.5	09-SEP-21
Zinc (Zn)-Dissolved			<1.0		ug/L		1	09-SEP-21
WG3614463-5 MS		**WG3614463-6**						
Antimony (Sb)-Dissolved			90.9		%		70-130	09-SEP-21
Arsenic (As)-Dissolved			93.1		%		70-130	09-SEP-21
Barium (Ba)-Dissolved			N/A	MS-B	%		-	09-SEP-21
Beryllium (Be)-Dissolved			90.2		%		70-130	09-SEP-21
Boron (B)-Dissolved			N/A	MS-B	%		-	09-SEP-21
Cadmium (Cd)-Dissolved			90.0		%		70-130	09-SEP-21
Chromium (Cr)-Dissolved			90.8		%		70-130	09-SEP-21
Cobalt (Co)-Dissolved			82.8		%		70-130	09-SEP-21
Copper (Cu)-Dissolved			75.2		%		70-130	09-SEP-21
Lead (Pb)-Dissolved			89.7		%		70-130	09-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R5581509								
WG3614463-5 MS		**WG3614463-6**						
Molybdenum (Mo)-Dissolved			85.2		%		70-130	09-SEP-21
Nickel (Ni)-Dissolved			79.5		%		70-130	09-SEP-21
Selenium (Se)-Dissolved			95.6		%		70-130	09-SEP-21
Silver (Ag)-Dissolved			88.9		%		70-130	09-SEP-21
Sodium (Na)-Dissolved			N/A	MS-B	%		-	09-SEP-21
Thallium (Tl)-Dissolved			89.5		%		70-130	09-SEP-21
Uranium (U)-Dissolved			N/A	MS-B	%		-	09-SEP-21
Vanadium (V)-Dissolved			90.0		%		70-130	09-SEP-21
Zinc (Zn)-Dissolved			75.0		%		70-130	09-SEP-21
PH-WT	**Water**							
Batch R5582750								
WG3614795-4 DUP		**WG3614795-3**						
pH		8.00	8.00	J	pH units	0.00	0.2	10-SEP-21
WG3614795-2 LCS								
pH			6.99		pH units		6.9-7.1	10-SEP-21
VOC-511-HS-WT	**Water**							
Batch R5583391								
WG3615798-4 DUP		**WG3615798-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	13-SEP-21
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	13-SEP-21
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	13-SEP-21
Bromoform		<5.0	<5.0					

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5583391								
WG3615798-4 DUP		**WG3615798-3**						
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	13-SEP-21
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	13-SEP-21
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	13-SEP-21
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	13-SEP-21
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	13-SEP-21
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	13-SEP-21
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	13-SEP-21
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	13-SEP-21
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	13-SEP-21
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	13-SEP-21
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	13-SEP-21
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	13-SEP-21
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
Toluene		0.53	0.54		ug/L	1.9	30	13-SEP-21
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	13-SEP-21
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	13-SEP-21
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	13-SEP-21
WG3615798-1 LCS								
1,1,1,2-Tetrachloroethane			77.0		%		70-130	13-SEP-21
1,1,2,2-Tetrachloroethane			78.0		%		70-130	13-SEP-21
1,1,1-Trichloroethane			81.4		%		70-130	13-SEP-21
1,1,2-Trichloroethane			81.0		%		70-130	13-SEP-21
1,1-Dichloroethane			85.4		%		70-130	13-SEP-21
1,1-Dichloroethylene			87.1		%		70-130	13-SEP-21
1,2-Dibromoethane			77.2		%		70-130	13-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5583391								
WG3615798-1 LCS								
1,2-Dichlorobenzene			85.9		%		70-130	13-SEP-21
1,2-Dichloroethane			81.4		%		70-130	13-SEP-21
1,2-Dichloropropane			86.9		%		70-130	13-SEP-21
1,3-Dichlorobenzene			85.8		%		70-130	13-SEP-21
1,4-Dichlorobenzene			85.1		%		70-130	13-SEP-21
Acetone			89.5		%		60-140	13-SEP-21
Benzene			90.8		%		70-130	13-SEP-21
Bromodichloromethane			85.2		%		70-130	13-SEP-21
Bromoform			77.1		%		70-130	13-SEP-21
Bromomethane			79.4		%		60-140	13-SEP-21
Carbon tetrachloride			80.3		%		70-130	13-SEP-21
Chlorobenzene			87.3		%		70-130	13-SEP-21
Chloroform			81.0		%		70-130	13-SEP-21
cis-1,2-Dichloroethylene			83.4		%		70-130	13-SEP-21
cis-1,3-Dichloropropene			74.4		%		70-130	13-SEP-21
Dibromochloromethane			79.6		%		70-130	13-SEP-21
Dichlorodifluoromethane			71.1		%		50-140	13-SEP-21
Ethylbenzene			97.5		%		70-130	13-SEP-21
n-Hexane			90.4		%		70-130	13-SEP-21
m+p-Xylenes			90.4		%		70-130	13-SEP-21
Methyl Ethyl Ketone			83.5		%		60-140	13-SEP-21
Methyl Isobutyl Ketone			75.6		%		60-140	13-SEP-21
Methylene Chloride			81.6		%		70-130	13-SEP-21
MTBE			99.5		%		70-130	13-SEP-21
o-Xylene			94.0		%		70-130	13-SEP-21
Styrene			91.9		%		70-130	13-SEP-21
Tetrachloroethylene			85.7		%		70-130	13-SEP-21
Toluene			94.8		%		70-130	13-SEP-21
trans-1,2-Dichloroethylene			89.5		%		70-130	13-SEP-21
trans-1,3-Dichloropropene			75.3		%		70-130	13-SEP-21
Trichloroethylene			80.8		%		70-130	13-SEP-21
Trichlorofluoromethane			84.0		%		60-140	13-SEP-21
Vinyl chloride			79.8		%		60-140	13-SEP-21
WG3615798-2 MB								

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5583391								
WG3615798-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	13-SEP-21
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	13-SEP-21
1,1,1-Trichloroethane			<0.50		ug/L		0.5	13-SEP-21
1,1,2-Trichloroethane			<0.50		ug/L		0.5	13-SEP-21
1,1-Dichloroethane			<0.50		ug/L		0.5	13-SEP-21
1,1-Dichloroethylene			<0.50		ug/L		0.5	13-SEP-21
1,2-Dibromoethane			<0.20		ug/L		0.2	13-SEP-21
1,2-Dichlorobenzene			<0.50		ug/L		0.5	13-SEP-21
1,2-Dichloroethane			<0.50		ug/L		0.5	13-SEP-21
1,2-Dichloropropane			<0.50		ug/L		0.5	13-SEP-21
1,3-Dichlorobenzene			<0.50		ug/L		0.5	13-SEP-21
1,4-Dichlorobenzene			<0.50		ug/L		0.5	13-SEP-21
Acetone			<30		ug/L		30	13-SEP-21
Benzene			<0.50		ug/L		0.5	13-SEP-21
Bromodichloromethane			<2.0		ug/L		2	13-SEP-21
Bromoform			<5.0		ug/L		5	13-SEP-21
Bromomethane			<0.50		ug/L		0.5	13-SEP-21
Carbon tetrachloride			<0.20		ug/L		0.2	13-SEP-21
Chlorobenzene			<0.50		ug/L		0.5	13-SEP-21
Chloroform			<1.0		ug/L		1	13-SEP-21
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	13-SEP-21
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	13-SEP-21
Dibromochloromethane			<2.0		ug/L		2	13-SEP-21
Dichlorodifluoromethane			<2.0		ug/L		2	13-SEP-21
Ethylbenzene			<0.50		ug/L		0.5	13-SEP-21
n-Hexane			<0.50		ug/L		0.5	13-SEP-21
m+p-Xylenes			<0.40		ug/L		0.4	13-SEP-21
Methyl Ethyl Ketone			<20		ug/L		20	13-SEP-21
Methyl Isobutyl Ketone			<20		ug/L		20	13-SEP-21
Methylene Chloride			<5.0		ug/L		5	13-SEP-21
MTBE			<2.0		ug/L		2	13-SEP-21
o-Xylene			<0.30		ug/L		0.3	13-SEP-21
Styrene			<0.50		ug/L		0.5	13-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5583391								
WG3615798-2 MB								
Tetrachloroethylene			<0.50		ug/L		0.5	13-SEP-21
Toluene			<0.50		ug/L		0.5	13-SEP-21
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	13-SEP-21
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	13-SEP-21
Trichloroethylene			<0.50		ug/L		0.5	13-SEP-21
Trichlorofluoromethane			<5.0		ug/L		5	13-SEP-21
Vinyl chloride			<0.50		ug/L		0.5	13-SEP-21
Surrogate: 1,4-Difluorobenzene			100.2		%		70-130	13-SEP-21
Surrogate: 4-Bromofluorobenzene			87.6		%		70-130	13-SEP-21
WG3615798-5 MS		**WG3615798-3**						
1,1,1,2-Tetrachloroethane			75.5		%		50-140	13-SEP-21
1,1,2,2-Tetrachloroethane			81.9		%		50-140	13-SEP-21
1,1,1-Trichloroethane			79.2		%		50-140	13-SEP-21
1,1,2-Trichloroethane			84.4		%		50-140	13-SEP-21
1,1-Dichloroethane			85.8		%		50-140	13-SEP-21
1,1-Dichloroethylene			83.7		%		50-140	13-SEP-21
1,2-Dibromoethane			80.6		%		50-140	13-SEP-21
1,2-Dichlorobenzene			84.6		%		50-140	13-SEP-21
1,2-Dichloroethane			85.6		%		50-140	13-SEP-21
1,2-Dichloropropane			89.4		%		50-140	13-SEP-21
1,3-Dichlorobenzene			81.5		%		50-140	13-SEP-21
1,4-Dichlorobenzene			80.7		%		50-140	13-SEP-21
Acetone			97.1		%		50-140	13-SEP-21
Benzene			90.5		%		50-140	13-SEP-21
Bromodichloromethane			87.1		%		50-140	13-SEP-21
Bromoform			79.6		%		50-140	13-SEP-21
Bromomethane			76.6		%		50-140	13-SEP-21
Carbon tetrachloride			76.5		%		50-140	13-SEP-21
Chlorobenzene			85.5		%		50-140	13-SEP-21
Chloroform			81.1		%		50-140	13-SEP-21
cis-1,2-Dichloroethylene			83.1		%		50-140	13-SEP-21
cis-1,3-Dichloropropene			72.7		%		50-140	13-SEP-21
Dibromochloromethane			81.1		%		50-140	13-SEP-21
Dichlorodifluoromethane			65.6		%		50-140	13-SEP-21

Quality Control Report

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5583391								
WG3615798-5 MS		**WG3615798-3**						
Ethylbenzene			92.9		%		50-140	13-SEP-21
n-Hexane			84.3		%		50-140	13-SEP-21
m+p-Xylenes			86.3		%		50-140	13-SEP-21
Methyl Ethyl Ketone			86.2		%		50-140	13-SEP-21
Methyl Isobutyl Ketone			81.7		%		50-140	13-SEP-21
Methylene Chloride			84.1		%		50-140	13-SEP-21
MTBE			99.8		%		50-140	13-SEP-21
o-Xylene			90.4		%		50-140	13-SEP-21
Styrene			88.2		%		50-140	13-SEP-21
Tetrachloroethylene			79.0		%		50-140	13-SEP-21
Toluene			91.4		%		50-140	13-SEP-21
trans-1,2-Dichloroethylene			85.5		%		50-140	13-SEP-21
trans-1,3-Dichloropropene			72.9		%		50-140	13-SEP-21
Trichloroethylene			76.8		%		50-140	13-SEP-21
Trichlorofluoromethane			78.8		%		50-140	13-SEP-21
Vinyl chloride			75.9		%		50-140	13-SEP-21

Quality Control Report

Workorder: L2637513 Report Date: 13-SEP-21

Client: ECOH MANAGEMENT INC (Mississauga)
75 Courtney Park Drive West Unit 1
Mississauga ON L5W 0E3
Contact: Ian Duncan

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.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

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

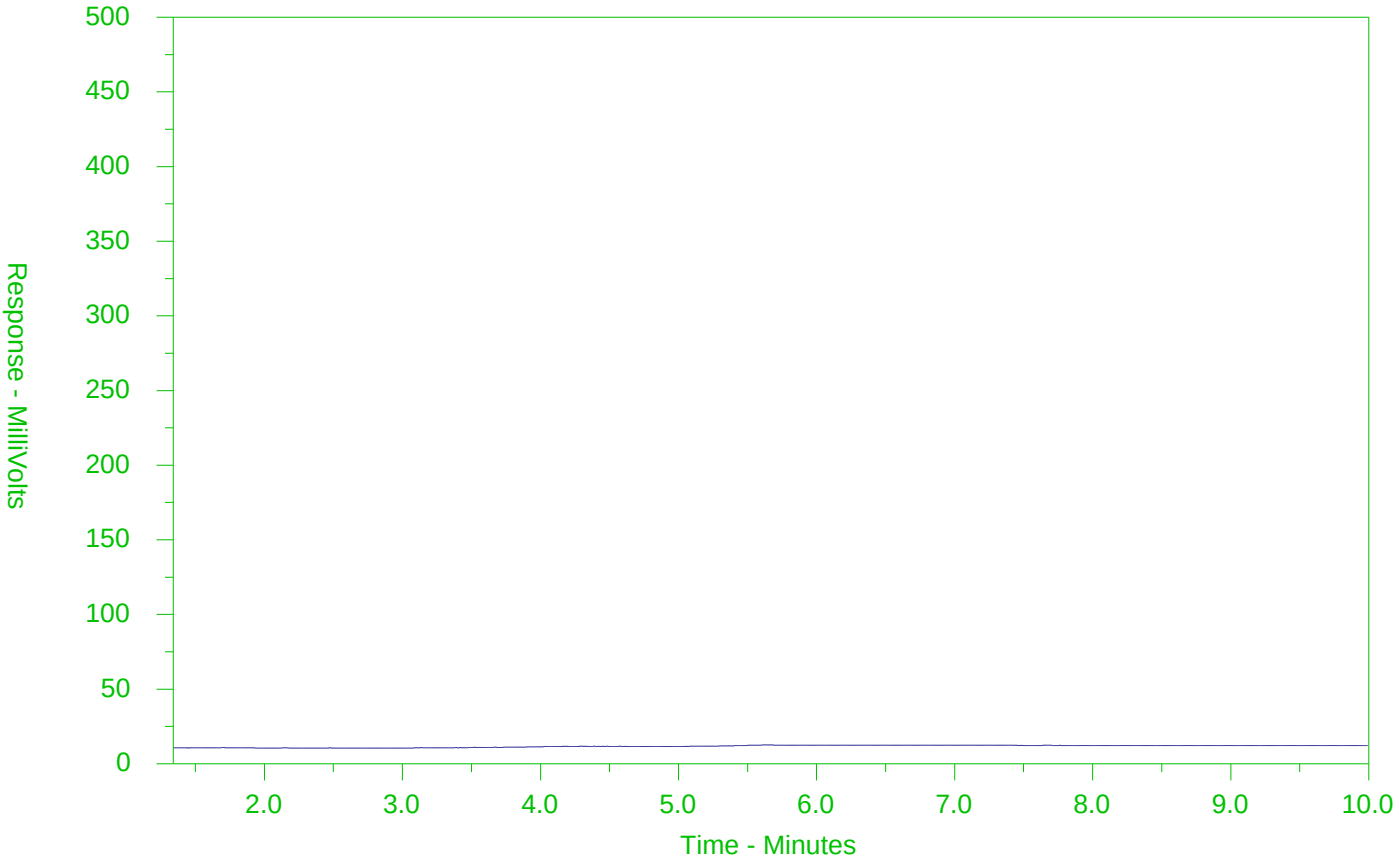
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where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

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

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

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2637513-1
Client Sample ID: BHMW-1



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

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

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

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

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

Chain of C

L2637513-COFC

COC Number: 20 -

Page of

www.alsglobal.com

Report To	Contact and company name below will appear on the final report	Reports / Recipients	Turnaround Time (TAT) Requested
Company:		Select Report Format: PDF EXCEL EDD (DIGITAL)	☐ Routine [R] if received by 3pm M-F - no surcharges apply
Contact:		Merge QC/QCI Reports with COA YES NO N/A	☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
Phone:		☐ Compare Results to Criteria on Report - provide details below if box checked	☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
	Company address below will appear on the final report	Select Distribution: EMAIL MAIL FAX	☒ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
Street:		Email 1 or Fax	☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
City/Province:		Email 2	☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests
Postal Code:		Email 3	Date and Time Required for all E&P TATs:
Invoice To	Same as Report To YES NO	**Invoice Recipients**	For all tests with rush TATs requested, please contact your AM to confirm availability.
	Copy of Invoice with Report YES NO	Select Invoice Distribution: EMAIL MAIL FAX	
Company:		Email 1 or Fax	
Contact:		Email 2	

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:		Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (ALS use only):		ALS Contact:	Sampler:

Analysis Request

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

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)

Drinking Water (DW) Samples[1] (client use)

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

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

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

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				FINAL COOLER TEMPERATURES °C			
22.1				15.4			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
	/ /			9/9/2021	14:00		9.9.21	17:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

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

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