PHASE TWO ENVIRONMENTAL SITE ASSESSMENT 78 ROSEMOUNT AVENUE, OTTAWA, ON



Project No.: CCO-22-1129

Prepared for:

78 Rosemount Avenue Inc. 33 Douglas Street Ottawa, Ontario K1M 1G3

Prepared by:

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Executive Summary

McIntosh Perry Consulting Engineers Ltd. (McIntosh Perry) was retained by 78 Rosemount Avenue Inc. ('the Client') to conduct a Phase Two Environmental Site Assessment (ESA) at 78 Rosemount Avenue, Ottawa, Ontario ('the Site', see Figure 1). The property is currently developed with a two-storey multi-unit residential home, a garage located at the west end of the Site, as well as paved parking spaces surrounding the building and a grass lawn south of the building.

It is understood that this Phase Two ESA is being completed as a component of the City of Ottawa site plan submission process, in support of the future redevelopment of the Site with a twelve-unit residential building. This does not represent a change to a more sensitive land use, and as such, a Record of Site Condition (RSC) would be not be required under O.Reg. 153/04. However, a Phase Two ESA completed in general accordance with O.Reg. 153/04 would be required for the City of Ottawa Site Plan Approval (SPA) process.

McIntosh Perry completed a Phase One Environmental Site Assessment (ESA) (July 21, 2021) for the subject property. The Phase I ESA identified the following potential environmental concern in relation to the Site:

• Presence of an automotive garage at 1150 Gladstone Avenue (address also given as 1156 Gladstone Avenue)

Based on this information, a Phase Two Environmental Site Assessment (ESA) was recommended for Site to assess soil and groundwater quality.

The Phase Two ESA involved the drilling of three boreholes and installation of three monitoring wells on the Site; One was located at the northwestern corner of the Site, as close as possible to the adjacent automotive garage, one was located at the northeast corner of the Site, and the third was one located in the southwestern corner of the driveway. Five (5) soil samples and four (4) groundwater samples were collected and submitted for laboratory analysis of benzene, toluene, ethylbenzene and xylenes (BTEX), petroleum hydrocarbons (PHCs) in four fractions (F1-F4), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), metals and inorganics.

The findings of the Phase Two ESA are summarized as follows:

- Site stratigraphy consists of asphalt overlying sand fill, underlain by native sand and limestone bedrock;
- A metal exceedance of lead at 78Ros-BH3-SS1 (438 μg/g) exceeded the MECP Table 3 SCS of 120 μg/g as well as the MECP Table 1 SCS of 120 μg/g;
- Results from soil samples from all other boreholes were below guideline limits and therefore in compliance with MECP Table 3 SCS;
- Additionally, analytical data from the soil samples was compared to O.Reg. 153/04 (2011) Table 1 SCS. It is important to note that MECP Table 1 SCS are not strictly applicable to this investigation, however in the event of future excavation at the Site, soils which meet Table 1 SCS may be considered as "clean fill" for soil management purposes. It is noted that all other facets of O.Reg. 406/19 will need to be met when considering excess soil management; and
- Results from groundwater samples were below guideline limits and therefore in compliance with MECP Table 3 SCS.

Executive Summary

Based on the analytical results, all soil at the Site is in compliance with applicable Table 1 and Table 3 SCS with the exception of the lead exceedance at 78Ros-BH3-SS1, from the fill layer underlying the asphalt at the Site. Given the age of the Site, lead exceedances are not uncommon and may be associated with historical building materials, lead piping, paint, etc. The fill material in which the lead exceedance was noted is isolated from human and ecological receptors by a layer of asphalt, and as such, is not considered to represent a concern to the continued use of the Site for its present purposes.

Given the nature of the exceedances in soil, the lack of exceedances in groundwater, and the groundwater flow direction, the presence of the automotive service garage is not considered to have impacted the Site.

In the event that the Site is redeveloped, any excess soil should be disposed of or reused according to O.Reg. 406/19 (On-Site and Excess Soil Management). Due to the noted lead exceedance, it is anticipated that disposal of a licensed waste disposal facility will be required.

McIntosh Perry does not recommend any further investigative or remedial action for the Site at this time. The environmental condition of the Site is considered suitable for the proposed development.

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Appendix B Laboratory Certificates of Analysis and Grain Size Analysis

1.0 INTRODUCTION

McIntosh Perry Consulting Engineers Ltd. (McIntosh Perry) was retained by 78 Rosemount Avenue Inc. ('the Client') to conduct a Phase Two Environmental Site Assessment (ESA) at 78 Rosemount Avenue, Ottawa, Ontario ('the Site', see Figure 1). The property is currently developed with a two-storey multi-unit residential home, a garage located at the west end of the Site, as well as paved parking spaces surrounding the building and a grass lawn south of the building.

It is understood that this Phase Two ESA is being completed as a component of the City of Ottawa site plan submission process, in support of the future redevelopment of the Site with a twelve-unit residential building. This does not represent a change to a more sensitive land use, and as such, a Record of Site Condition (RSC) would be not be required under O.Reg. 153/04. However, a Phase Two ESA completed in general accordance with O.Reg. 153/04 would be required for the City of Ottawa Site Plan Approval (SPA) process.

McIntosh Perry completed a Phase One Environmental Site Assessment (ESA) (July 21, 2021) for the subject property. The Phase I ESA identified the following potential environmental concern in relation to the Site:

 Presence of an automotive garage at 1150 Gladstone Avenue (address also given as 1156 Gladstone Avenue)

Based on this information, a Phase Two Environmental Site Assessment (ESA) was recommended for Site to assess soil and groundwater quality.

A Phase Two ESA is typically used to confirm the presence (or absence) of contaminant(s) of concern and to characterize impacts, if any, to soil and/or groundwater. The Phase Two ESA was conducted in accordance with McIntosh Perry's standard procedures.

1.1 Property Information

The property is addressed as 78 Rosemount Avenue and is currently a residential duplex building.

The Site has an official plan designation as Residential Fourth Density Zone (R4-UB) as shown on the City of Ottawa Zoning By-law (Sections 161 and 162).

The total area of the Site is approximately 5, 737 ft² (approx. 0.05 hectares).

1.1.1 Property Identification

The legal description of the entire property is as follows;

PT LT 20, PL 94, AS IN NS246899; Ottawa/Nepean (PIN: 040920141).

1.1.2 Property Ownership and Contact Details

McIntosh Perry was retained to complete this Phase One ESA by Mr. Jake Levinson of 78 Rosemount Avenue Inc.. Mr. Jake Levinson can be contacted via email at jakelevinson@gmail.com. The property is currently owned by 78 Rosemount Avenue Inc.

1.1.3 Current and Proposed Future Uses

The Site is currently used as a multi-unit residential building. It is MP's understanding that the Client intends to purchase the property with the intention of redeveloping the Site with a twelve-unit residential building.

1.2 Applicable Site Condition Standard

The following parameters were used to select the most appropriate Site Condition Standards (SCS) for the site:

- Proposed property use is residential;
- The Site and surrounding properties in the area are serviced by municipal water supply and not by water wells (i.e., the subject site will continue to have treated potable water available, and potable groundwater standards do not need to be applied);
- Soil depth across the property is more than two metres on average (i.e., the site does not have shallow soil);
- The site is not located within 30 metres of a water body; the closest significant water body, the Ottawa River, is approximately 1.25 kilometers (km) to the north of the Site;
- The site is not located near any areas of natural significance (e.g. Provincially Significant Wetland), and
- Native soil at the site is coarse textured (based on classification of borehole samples collected during the environmental investigation completed at the Site by McIntosh Perry, and analytical results of the grain size analysis).

Given these parameters, it was determined that Ministry of the Environment, Conservation, and Parks (MECP) Ontario Regulation (O.Reg.) 153/04, as amended (Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act) is the most applicable reference criteria for the site. The following SCS were selected:

MECP Table 3 – Full Depth Generic Site Condition Standards in a non-potable groundwater condition, for residential land use, with coarse textured soils.

Soil analytical results were also compared to MECP Table 1 Background SCS for the purpose of assessing potential disposal options for excess soil generated during site redevelopment.

2.0 BACKGROUND INFORMATION

2.1 Physical Setting

2.1.1 Water Bodies and Areas of Natural Significance

The closest permanent waterbody is the Ottawa River (located 1.25 km north of the Site at its closest point).

No areas of natural significance were observed within the Site.

2.1.2 Topography and Surface Water Drainage Features

Elevation at the Site ranges from approximately 64 m above mean sea level. The topography is generally flat, with a slight slope in a northern direction.

The Site occurs within the Ottawa River watershed. The Ottawa River is located approximately 1.25 km north of the Site, at its closest point. Site drainage consists primarily of sheet flow to storm drains along Gladstone Avenue, with infiltration occurring in permeable areas such as lawns.

2.1.3 Geology and Hydrogeology

Geological maps of the area classify the overburden at the Site as stone-poor, sandy silt to silty sand-textured till on Paleozoic terrain (OGS, 2021).

Geological maps of the area classify the bedrock under the Site as predominantly shale, limestone, dolostone, arkose and sandstone. (OGS, 2021).

Based on a review of site geology and topography, groundwater is likely to flow northwest toward the Ottawa River. As ground surface at the Site is predominantly paved, on-site drainage is dominated by overland flow to stormwater drains and catch basins in the roadway

2.1.4 Potable Water Source

The Site is situated in the City of Ottawa. It is our understanding 78 Rosemont Avenue is currently serviced by the City of Ottawa municipal water distribution system; ground water is not used as a source of potable water.

2.2 Past Investigations

A Phase One ESA was conducted on the subject property by McIntosh Perry in July of 2021. The Phase One ESA identified potential contaminating activities (PCAs) and Areas of Potential Environmental Concern (APECs) on site and/or in the Phase One Study area.

One potentially contaminating activity (PCA) was identified within the Phase One Study Area (including the Phase One Property). The following PCA was identified immediately north of the Phase One Property:

 Presence of an automotive service garage at 1150 Gladstone Avenue (address also given as 1156 Gladstone Avenue)

Based on the nature of the operations and the proximity to the Site, the PCA is considered to have the potential to result in environmental impacts to the Site and is therefore considered an APEC with respect to the Site.

2.3 Overview of Soil and Groundwater Data and Regulation Changes

It is noted that in December of 2019, new regulation amendments associated with salt impacts were enacted. These amendments permitted the exemption of salt impacts if the impacts were deemed by the Qualified Person (QP) to be resultant from de-icing activities for the purpose of human and vehicular safety.

Soil results were evaluated in the context of current regulations. Based on this evaluation, the QP determined that as EC and SAR were eligible for the exemption application. Accordingly, with application of the regulatory amendment that provides exemption relief for impact resulting from de-icing activities, EC, SAR, sodium and chloride are not considered contaminants of concern for the Site. However, these parameters must still be considered when determining destinations for excess soil from the Site, per the requirements of O.Reg. 406/19 (On-Site and Excess Soil Management).

3.0 SCOPE OF THE INVESTIGATION

The Phase Two ESA site investigation at the Site consisted of the following components:

- Underground service locate clearance was provided by public utility service provides through Ontario One Call and a private utility locating service;
- In coordination with an environmental investigation at the Site, the advancement of three (3) boreholes to a maximum depth of 6.1 m bgs, all three (3) of which were completed as monitoring wells by a licensed water well contractor to the requirements of O.Reg. 903;
- Submission of select "worst case" soil samples collected from each borehole, as determined through field screening, for laboratory analyses of VOCs (including BTEX), PHCs, PAHs, metals & inorganics;
- Submission of ground water samples collected from each monitoring well for laboratory analysis of VOCs (including BTEX), PHCs, PAHs, and metals & inorganics;
- Submission of representative soil samples for analysis of pH and grain size, for determination of the appropriate MECP standards for the Site (undertaken as part of the environmental investigation);
- Completion of a quality assurance/quality control (QA/QC) program consisting of the submission of field duplicate samples; and
- Completion of a relative elevation survey of the ground surface elevation of each borehole advanced at the Site.

The Phase Two ESA was completed in general accordance with the requirements of O. Reg. 153/04 (as amended).

3.1 Media Investigated

Soil samples were obtained from each borehole advanced during the investigation and submitted for laboratory analyses of the selected contaminants of potential concern (COPCs). Each borehole was instrumented with a monitoring well and subsequently sampled for each of the selected COPCs.

No water bodies were present on the Site and, as such, no sediment samples were collected as part of this Phase Two ESA.

3.1.1 Contaminants of Potential Concern

The following contaminants of potential concern (COCs) are suspected and should be tested at the Site:

- Petroleum hydrocarbons Fractions 1 to 4 (PHCs): This parameter group consists of petroleum hydrocarbons of various carbon chain lengths commonly encountered in gasoline (PHC F1), diesel and furnace oil (PHC F2), and heavy oils and asphalts (PHC F3-F4).
- Volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, and xylenes (BTEX): This parameter group consists of soluble components in gasoline, diesel, and fuel oil.
- Polycyclic aromatic hydrocarbons (PAHs): This parameter group consists of various complex hydrocarbons associated with heavy oils as well as combustion byproducts, coal, etc.

• Metals and inorganic parameters: this parameter group includes metals such as arsenic, antimony, selenium, boron, mercury, and chromium IV.

The contaminants of concern are primarily associated with the activities that may have occurred at the automotive service garage, located at 1150 Gladstone Avenue, as well as with potential fill material of unknown quality present at the Site.

4.0 METHODOLOGY

4.1 General

Prior to the commencement of subsurface investigations, a private underground service locating company, Ottawa Locates of Ottawa, Ontario, obtained all applicable public and private underground service location reports/clearances (i.e., hydro, natural gas, telephone and cable).

4.2 Drilling

Stefan Holik (Environmental Technician) and Kevin Cortez (Environmental Engineering Intern) of McIntosh Perry supervised a drilling and sampling program at the Site on July 12, 2021. McIntosh Perry advanced three (3) boreholes (78Ros-BH1, 78Ros-BH2, and 78Ros-BH3) at the locations indicated on Figure 2. All three boreholes were instrumented with monitoring wells.

Drilling services were provided by Aardvark Drilling using a CME 55m track mounted drill rig. All boreholes were advanced into bedrock using air percussion methods to facilitate groundwater monitoring well installation. Soil samples were collected on a continuous basis from ground surface through the overburden strata. The drilling equipment was decontaminated between runs and borehole locations to minimize the possibility of cross-contamination.

4.3 Impediments

No physical impediments or denial of access were encountered at the Site during this Phase Two ESA.

4.4 Soil Sampling

Soil samples were taken from the 0.61 m (2') split spoons at regular intervals across multiple stratigraphic layers. In general, one sample per stratigraphic layer was considered sufficient, unless an area of concern was noted or change in moisture content. Soil samples were collected with a gloved hand and deposited directly into sealed bags. The samples were then divided into two representative portions; one portion in a glass container for possible laboratory analysis (if selected based on screening results), and one portion in a plastic bag for soil headspace combustible gas screening, which was performed on site. Recovered soil samples were generally logged for soil type, moisture, colour, texture, and visual evidence of impacts.

Based on field observations and CGI/PID readings it was determined that the submission of nine (9) soils samples, three from 78Ros-BH1, three from 78Ros-BH2, one blind duplicate from 78Ros-BH2 for QA/QC purposes, and two from 78Ros-BH3 would be sufficient to determine potential impacts to the Study Area. Samples that were chosen for laboratory analysis were placed into laboratory supplied sample jars, stored in a cooler with ice, and delivered directly to ALS Laboratories (ALS) of Ottawa, Ontario.

Soil samples that were selected for VOC, BTEX and F1 Hydrocarbon analysis were preserved immediately after sampling with laboratory supplied vials containing methanol.

Soil sample identification and details are included on the graphic borehole logs presented in Appendix A.

4.5 Field Screening Measurements

Soil headspace vapour concentration readings of soil samples obtained from the boreholes were taken using a RKI Eagle 2 Gas (combined CGI and PID). The CGI was operated in methane elimination mode and both the CGI and PID were calibrated prior to use in the field. Calibration was performed following the manufacturer's instructions.

4.6 Groundwater – Monitoring Well Installation

Three monitoring wells (78Ros-MW1, 78Ros-MW2 and 78Ros-MW3) were installed July 12, 2021, by Aardvark Drilling, under the supervision of McIntosh Perry personnel.

The boreholes were instrumented with PVC monitoring well components and protected at the surface with a stick-up monument well casing (Photo 5).

78Ros-MW1, 78Ros-MW2 and 78Ros-MW3 were constructed using 50.8 mm (2") diameter, Schedule 40 PVC well screen (10 slot), flush-threaded to Schedule 40 PVC riser pipe. A silica sand 'filter pack' was installed in the annular space around the well screen. A bentonite clay seal was installed above the screened interval to prevent infiltration of surface water into the well. The screened interval was positioned to intersect the estimated water table elevation, based on moisture content observations of recovered soil samples obtained during drilling and from measured water levels in existing on-site wells. Monitoring well installation was conducted in conformance with O.Reg. 903, as amended.

Detailed graphic logs showing the monitoring well installation details are included in Appendix A. Monitoring well completion details are included in Table 2.

4.7 Field Measurement of Water Quality Parameters

Field measurement of water quality parameters was not undertaken as part of this investigation.

4.8 Groundwater – Monitoring and Sampling

McIntosh Perry carried out initial groundwater level monitoring and sampling activities on July 23, 2021. Groundwater level monitoring and sampling activities occurred again following the receipt of initial 2021 sample results on August 9, 2021. The static water level was measured at the well using an electronic water level tape. Groundwater levels ranged between 3.05 and 3.51 m below ground surface (m bgs).

Prior to water sample collection, an attempt was made to purge the wells by removing a minimum of three well volumes using dedicated polyethylene tubing and a positive displacement foot valve. The recharge rate of all wells was good to moderate, and the wells were purged three well volumes or three time dry.

Groundwater was sampled directly into laboratory provided bottles and delivered directly to ALS Laboratory Group of Ottawa, Ontario.

78Ros-MW1, 78Ros-MW2 and 78Ros-MW3 were sampled for BTEX, F1-F4 PHCs, VOC, PAHs and inorganics including metals.

4.9 Sediment: Sampling

No water bodies are present on the Site. As such, sediment sampling was not conducted as part of this Phase Two ESA.

4.10 Analytical Testing

All soil and water samples selected for laboratory analysis were submitted to ALS Laboratory Group of Ottawa, Ontario, under strict 'chain of custody' documentation protocols.

Samples were submitted for laboratory analysis of the following parameter groups:

- Volatile organic compounds (VOC)
- Benzene, toluene, ethylbenzene and xylenes (BTEX), which are a sub-set of the volatile organic compound (VOC) parameter set
- Petroleum hydrocarbons (PHCs) in four fractions (F1-F4) according to MECP requirements
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Metals and inorganic parameters (M&I)

Copies of all laboratory Certificates of Analysis and chain of custody documentation are included in Appendix B.

4.11 Residue Management Procedures

Soil cuttings and purge water generated as part a of this Phase Two ESA were retained on-Site.

4.12 Elevation Surveying

All monitoring wells were surveyed to a temporary site benchmark, a catchbasin on Rosemount Avenue (assumed elevation of 100 m). Groundwater elevations were calculated and plotted on Figure 3 to determine groundwater elevation. Groundwater flow was interpreted to be in a northwesterly direction.

4.13 Quality Assurance and Quality Control Measures

All activities completed as part of this Phase Two ESA were conducted in accordance with McIntosh Perry's Standard Operating Procedures (SOPs). Details of QA/QC measures, including sampling containers, preservation, labelling, handling, and custody, equipment cleaning procedures, and field quality control measurements can be provided upon request.

Additionally, all soil and ground water samples submitted as part of this assessment were handled in accordance with laboratory analytical protocols with respect to holding time, preservation method, storage requirements, and container type. All Certificates of Analysis provided by the laboratory are appended to this report in Appendix B.

5.0 RESULTS

5.1 Geology

Overburden at the site consisted of asphalt overlying sand starting from 0.02 – 0.61 m bgs to approximately 2.89 meters below ground surface (m bgs), underlain by bedrock. All of the boreholes and monitoring wells were terminated in bedrock. Geological maps of the area classify the overburden at the Site as stone-poor, sandy silt to silty sand-textured till on Paleozoic terrain (OGS, 2021). This is generally consistent with on-Site observations made by McIntosh Perry.

Geological maps of the area classify the bedrock under the Site as predominantly shale, limestone, dolostone, arkose and sandstone. (OGS, 2021). Based on the results of this investigation, bedrock was encountered at depths ranging from 2.13 – 2.89 m bgs.

Stratigraphic details are provided on the borehole logs (Appendix A) appended to this report.

5.2 Groundwater: Elevations and Flow Direction

Groundwater elevations were calculated for all groundwater monitoring and sampling events and are summarized in Table 1, appended to this report. Groundwater elevations varied between approximately 97.095 and 97. 665 m above datum (m AD) at the Site.

Using the groundwater elevations from the July 2021 sampling event, groundwater contour mapping was completed for the Site. Groundwater elevation contours are shown on Figure 3. Groundwater at the Site is interpreted to flow in a northwesterly direction.

5.3 Coarse Soil Texture

One representative soil sample was submitted for grain size analysis to determine appropriate Site Condition Standards. Sample 78Ros-BH1-SS2 was selected as it was considered to be generally representative of soil conditions at the Site based on texture and visual appearance. Based on the grain size analysis, the sample was characterized as a fine to medium sand, and therefore coarse-grained Site Condition Standards are considered appropriate.

The grain size analysis results are provided in Appendix B.

5.4 Soil: Field Screening

Soil headspace for combustible gas readings and volatile organic compounds were taken using a combustible gas indicator (CGI) operated in methane elimination mode and a photoionization detector (PID) respectively. The CGI/PID readings were intended to identify "worst-case" samples from each borehole. However, the CGI and PID readings were not indicative of significant contamination.

5.5 Soil Quality

Soil vapour readings ranged from 0 to 2 ppm (photoionization detector calibrated to isobutylene) and from 0 to 25 ppm (combustible gas indicator calibrated to hexane). These readings are not indicative of significant hydrocarbon or volatile organic compound impacts in soil samples. The soil samples did not exhibit visual or olfactory evidence of contamination.

All soil analysis results were compared to the applicable SCS (MECP Table 3 SCS) as presented in the following table appended to this report:

Table 3 – Soil Analytical Results: VOC, BTEX, PHCs, PAHs, Metals and Inorganics

Additionally, analytical data from the soil samples was compared to O.Reg. 153/04 (2011) Table 1 SCS, as seen in Table 3 appended to this report. It is important to note that MECP Table 1 SCS are not strictly applicable to this investigation, however in the event of future excavation at the Site, soils which meet Table 1 SCS may be considered as "clean fill" for soil management purposes. It is noted that all other facets of O.Reg. 406/19 will need to be met when considering excess soil management.

Sample depths are indicated on the tables and borehole logs presented in Appendix A. Laboratory Certificates of Analysis are included in Appendix B.

The analytical data is summarized as follows:

Metals

The following metal exceedance was noted:

• The concentration of lead at 78Ros-BH3 SS1 (438 μ g/g) exceeded the MECP Table 3 SCS of 120 μ g/g, as well as MECP Table 1 SCS of 120 μ g/g.

Results for the boreholes 78Ros-BH1 and 78Ros-BH2, soil samples that were submitted for analysis of metal parameters indicate that all parameters were below laboratory detection limits and therefore in compliance with MECP Table 3 SCS.

VOCs

Results for the boreholes 78Ros-BH1, 78Ros-BH2, and 78Ros-BH3 soil samples that were submitted for analysis of VOC parameters indicate that all parameters were below laboratory detection limits and therefore in compliance with MECP Table 3 SCS.

BTEX

Results for the boreholes 78Ros-BH1, 78Ros-BH2, and 78Ros-BH3 soil samples that were submitted for analysis of BTEX parameters indicate that all parameters were below laboratory detection limits and therefore in compliance with MECP Table 3 SCS.

PHCs

Results for the boreholes 78Ros-BH1, 78Ros-BH2, and 78Ros-BH3 soil samples that were submitted for analysis of PHCs parameters indicated that all parameters were below laboratory detection and therefore in compliance with MECP Table 3 SCS.

PAHs

Results for the boreholes 78Ros-BH1, 78Ros-BH2, and 78Ros-BH3 soil samples that were submitted for analysis of PAH parameters indicated that all parameters were below laboratory detection limits and therefore in compliance with MECP Table 3 SCS.

The soil exceedance found at 78 Rosedale Avenue is outlined in Figure 4, appended to this report.

5.6 Groundwater Quality

All groundwater analysis results were compared to the applicable SCS, as shown on the following table:

Table 4 – Groundwater Analytical Results: VOC, BTEX, PHCs, PAHs, Metals and Inorganics

Laboratory Certificates of Analysis are included in Appendix B.

The analytical data is summarized as follows:

Metals and Inorganics

Results for the monitoring wells 78Ros-MW1, 78Ros-MW2 and 78Ros-MW3 groundwater samples that were submitted for analysis of metals and inorganic parameters indicate that all parameters were below laboratory detection limits and therefore below MECP Table 3 SCS.

VOCs

Results for the boreholes 78Ros-MW1, 78Ros-MW2 and 78Ros-MW3 groundwater samples that were submitted for analysis of VOC parameters indicate that all parameters were below laboratory detection limits and therefore below MFCP Table 3 SCS.

BTEX

Results for the boreholes 78Ros-MW1, 78Ros-MW2 and 78Ros-MW3 groundwater samples that were submitted for analysis of VOC parameters indicate that all parameters were below laboratory detection limits and therefore below MECP Table 3 SCS.

PHCs

Initial results for the boreholes 78Ros-MW1, 78Ros-MW2 and 78Ros-MW3 groundwater samples collected for PHCs indicate that all parameters were below laboratory detection limits and therefore below MECP Table 3 SCS.

PAHs

Results for the boreholes 78Ros-MW1, 78Ros-MW2 and 78Ros-MW3 groundwater samples that were submitted for analysis of PAH parameters indicate that all parameters were below laboratory detection limits and therefore below MECP Table 3 SCS.

5.7 Sediment Quality

Sediment quality was not assessed as part of this Phase Two ESA.

5.8 Quality Assurance and Quality Control Results

All soil and groundwater samples submitted as part of this assessment were handled in accordance with laboratory analytical protocols with respect to holding time, preservation method, storage requirements, and container type. A Certificate of Analysis has been received for each sample submitted for analysis, and all Certificates of Analysis are appended to this report.

Overall, the quality of the field data collected during this Phase Two ESA are considered to be sufficient to meet the overall objectives of this assessment. No significant discrepancies between soils samples 78ROS-BH2-SS2 and 78ROS-BH2-SS2-DUP, which was a duplicate of 78ROS-BH2-SS2 were noted. Relative percent differences were generally within 20% and no discrepancies in SCS exceedances were noted between original and duplicate samples.

All tasks completed as a part of this investigation were completed in accordance with McIntosh Perry's Standard Operating Procedures and in general accordance with O.Reg. 153/04 (as amended).

5.9 Phase Two Conceptual Site Model

The Phase Two Property is located at 78 Rosemount Avenue in Ottawa ("the Site") is approximately 0.05 hectares in area. The Phase Two Property is currently developed with a two-storey multi-unit residential home, a garage located at the west end of the Site, as well as paved parking spaces surrounding the building and a grass lawn south of the building. Plans showing the location and layout of the Phase Two Property are provided as Figures 1 and 2, respectively.

5.9.1 Potentially Contaminating Activities

The following PCAs were identified in on the Phase Two Property, in the previous Phase One ESA:

Table 10: Potentially Contaminating Activities						
No.	Potential Contaminating Activity	Location of PCA	Proximity of PCA to Phase One ESA Property	Time Frame Associated with PCA	Information Source	Does the PCA warrant an area of potential environmental concern
1	Item 10, Schedule D, Table 2: Commercial Autobody Shop	1150 Gladstone Avenue	Immediately north of the Site	Historic and Current	Site Reconnaissance	YES
2	Item 10, Schedule D, Table 2: Commercial Autobody Shop	1086 Gladstone Avenue	188 m east	Historic and Current	ERIS	NO, based on separation distance
3	Item 28, Schedule D, Table 2: Gasoline and Associated Products Storage in Fixed Tanks	1185 Wellington Street West	250 m northwest	Historic	FIPs	NO, based on separation distance
4	Item 28, Schedule D, Table 2: Gasoline and Associated Products Storage in Fixed Tanks	402 Parkdale Avenue	250 m northwest	Historic	FIPs	NO, based on separation distance
5	Item 37, Schedule D, Table 2: Operation of Dry Cleaning Equipment	1200 Wellington Street West	250 m northwest	Historic	FIPs	NO, based on separation distance
6	Item 46, Schedule D, Table 2: Rail Yards, Tracks and Spurs	Present-day Highway 417	140 m south	Historic	FIPs	NO, based on separation distance
7	Item 28, Schedule D, Table 2: Gasoline and Associated Products Storage in Fixed Tanks	1140 Wellington Street West	170 m north	Historic	FIPs	NO, based on separation distance
8	Item 10, Schedule D, Table 2: Commercial Autobody Shop	1 Grant Avenue	250 m north	Historic	FIPs	NO, based on separation distance
9	Item 28, Schedule D, Table 2: Gasoline and Associated Products Storage in Fixed Tanks	1067 Wellington Street West	250 m north	Historic	FIPs	NO, based on separation distance
10	Spill record: oil leak from oil filter at residential dwelling	1164 Gladstone Avenue	80 m west	2012	ERIS	NO, based on separation distance
11	Spill record: 15-25 L of furnace oil from tank at private residence	116 Melrose Avenue	180 m southeast	2002	ERIS	NO, based on separation distance

Table 10: Potentially Contaminating Activities						
No.	Potential Contaminating Activity	Location of PCA	Proximity of PCA to Phase One ESA Property	Time Frame Associated with PCA	Information Source	Does the PCA warrant an area of potential environmental concern
12	Spill record: furnace oil	19 Westmount	160 m	2012	ERIS	NO, based on
	leak	Avenue	southwest	2012		separation distance
13	Furnace oil tank leak	479 Parkdale	220 m	1990	ERIS	NO, based on
		Avenue	southwest			separation distance
14	136 L of furnace oil leaked	483 Parkdale	230 m	2004, 2012	ERIS	NO, based on
	into sanitary sewer	Avenue	southwest	2004, 2012		separation distance

No additional PCAs were identified within the Phase Two Study Area, including on the Phase Two Property, during the 2021 McIntosh Perry Phase Two ESA. The location of the PCAs are shown on Figure 5.

5.9.2 Area of Potential Environmental Concern

The following identified PCAs were determined to be representative of APECs in relation to the Phase Two Property. Details of the APECs and the investigation into them are provided below.

Table 11: Areas of Potential Environmental Concern					
Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Location of PCA (on-Site or off- Site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or sediment)
APEC-1 (Off-Site Automotive Garage)	Northwest portion of the property	#10 Commercial Autobody Shops	Off-Site	PHCs, PAHs, VOCs, Metals	Soil and Groundwater

The location of the APECs are shown on Figure 5.

5.9.3 Subsurface Structures and Utilities

As part of the Phase Two ESA, utility service clearances were provided by public and private locating companies. The depths of these utilities were not determined during the Phase Two ESA.

5.9.4 Physical Setting

5.9.4.1 Stratigraphy

During the field program conducted at the Phase Two Property, subsurface soil was determined to consist of asphalt overlying sand to a maximum depth of 2.89 m bgs. Bedrock was encountered in all boreholes, depths ranging from 2.13 to 2.89 m bgs. A detailed description of the stratigraphy observed during the Phase Two ESA is provided on borehole logs within Appendix C. Geological Cross-Sections A-A' is shown on Figures 5.

5.9.4.2 Hydrogeology

Based on the ground water measurements taken as part of the 2021 McIntosh Perry Phase Two ESA, ground water at the Phase Two Property is inferred to be located at a depth between approximately 3.05 – 3.51 m bgs. The Site occurs within the Ottawa River watershed. The Ottawa River is located approximately 1.27 kilometres (km) north of the Site, at its closest point. Site drainage consists primarily of sheet flow to storm drains along Gladstone Avenue, with infiltration occurring in permeable areas such as grass lawns.

5.9.4.3 Bedrock

Bedrock was encountered in all boreholes. A detailed description of the stratigraphy observed during the Phase Two ESA is provided on borehole logs within Appendix C and on Figure 5.

5.9.5 Potable Site Condition Standards

The Phase Two Property is serviced by the City of Ottawa municipal water distribution system; ground water is not used as a source of potable water.

5.9.6 Water Bodies and Areas of Natural Significance

There are no water bodies within the Phase One Study Area. The closest permanent waterbody is the Ottawa River, which is located approximately 1.27 km north of the Phase Two Property. When completing the 2021 McIntosh Perry Phase One ESA, considerations were made for the following MNRF-maintained areas of natural significance:

- Areas of Natural and Scientific Interest;
- Provincially Significant Wetlands; and
- Wildlife Management Areas.

No areas of natural significance were identified within the Phase One Study Area.

Based on our review of the above-noted information, it was determined that the Phase Two Property is not located in or within 30 m of an area of natural and scientific interest and, as such, the Phase Two Property is not located within an environmentally sensitive area.

5.9.7 Site Condition Standards - N/A or N/V Values

During this Phase Two ESA, an exceedance of lead was found at the Phase Two Property, corresponding to the criteria listed within both the Table 1 and Table 3 Standards, as seen in Figure 4.

5.9.8 Approximate Locations of Proposed Buildings and Other Structures

It is understood that the Client is considering demolishing the existing building at 78 Rosemont Avenue, Ottawa and constructing a new twelve-unit residential building.

5.9.9 Concentrations of COPCs above the Table 3 Standards

Analytical results from one location (78Ros-BH3 SS1) indicate SCS exceedance of lead in the top layer of sand. It is possible that SCS exceedances of lead is likely related to historical lead paint or lead piping. Additionally, the lead exceedance may be related to poor quality fill.

Based on the results of the Phase Two ESA, McIntosh Perry is of the opinion that the lead contamination does not extend laterally across the entirety of the Site. The lead contamination does not extend vertically beyond the lower layer of sand, at a depth of 2.29 m bgs at 78Ros-BH3.

The concentrations of the tested parameters for all ground water samples were below the MECP Table 3 Standards.

5.9.9.1 Each Area Where A Contaminant Is Present on, in or under the Phase Two Property

The investigations for the Phase Two ESA identified soil impacted with a metal (lead) exceeding MECP Table 3 Standards in soil samples collected from 78Ros-BH3. McIntosh Perry is of the opinion that the lead contamination does not extend laterally across the entirety of the Site. The lead exceedance at 78Ros-BH3 is likely to be isolated within the top layer (0-0.6 m bgs), as it does not extend into the SS4, located at the interval of 2.29-2.89 m bgs.

Figures 5 depicts the lateral and vertical extents of the soil exceedance at the Site.

It is understood that soil contaminants (metal (lead)) exceeding MECP Table 3 Standards were found in the soil at the surface of the Site to a depth of 0.60 m bgs. With the proposed redevelopment of the Site it is anticipated that the contaminated soils will be excavated to account for foundation/footing for the proposed building.

5.9.9.2 The Contaminants Associated with Each of Areas Investigated

Contaminants associated with the lead exceedance in the sand layer was isolated at 78Ros-BH3. The parameter exceedance at the Site is unknown, but may be related to historical lead paint or lead piping. Additionally, the lead exceedance may be related to poor quality fill.

5.9.9.3 Each Medium in Which A Contaminant Is Present

Contaminants (lead) exceeded the applicable SCS in soil. All groundwater results were in compliance with applicable SCS. Sediment was not tested as part of this Phase Two ESA as no water bodies were present on-Site.

5.9.9.4 A Description and Assessment of Each Area Where Contaminant Identified

It is understood that soil contaminant (lead) exceeded MECP Table 3 Standards and were found in the soil at the surface of 78Ros-BH3 to a depth of approximately 0.60 m bgs. With the proposed redevelopment of the Site it is anticipated that the contaminated soils will be excavated to account for foundation/footing for the proposed building. Based on an assessment of subsurface conditions at the Site, the area of contaminants is interpreted to be associated with historical lead paints and lead pipes. It is also likely to be associated with the presence of fill material at the Site. This fill material was likely deposited at the time the Site was developed with the present-day buildings and likely included debris from previous buildings on the Site.

5.9.9.5 The Distribution of Contaminants in Each Area for Each Medium Investigated

The Site investigations for the Phase Two ESA identified the sand layer impacted with a lead exceedance above the MECP Table 3 Standards. Vertically, the metal (lead) soil contamination did not extend beyond the uppermost layer of sand at the Site to a depth of approximately 0.60 m bgs.

It is understood that soil contaminants (metals) exceeding the MECP Table 3 Standards were found in the soil at the surface of the Site to a depth of approximately 0.60 m bgs. With the proposed redevelopment of the Site it is anticipated that the contaminated soils will be excavated to account for foundation/footing for the proposed building.

5.9.9.6 The Reason for Discharge of Contaminants Present on, in or under the Phase Two Property

The soil impact was primarily identified in the upper layer of sand at 78Ros-BH3 at the Phase Two Property. The nature of the fill material (sand) suggests that the previous structures at the Site had been demolished.

Fill material could be the main reason for the metal detected in soil above the MECP Table 3 Standards at the Phase Two Property.

5.9.9.7 Migration of Contaminants Present on, in or under the Phase Two Property

Migration of contaminants at the Site is currently considered to be limited. Contaminants exceeded applicable SCS in soil but not in groundwater, suggesting that significant migration of contaminants from soil to groundwater is not occurring, and that transport of contaminants on-site or off-site through the groundwater flow system is negligible. Also, downward leaching of contaminants is limited by asphalt paving and impermeable building surfaces over much of the Site. It is further noted that no physical transportation (i.e. excavation) of Site soils is currently occurring.

5.9.9.8 Climatic or Meteorological Conditions That May Have Influenced Distribution and Migration of the Contaminants

The distribution of contaminants is not expected to be strongly influenced by climatic or meteorological conditions as the area with elevated contaminants was within the paved area on the Site.

5.9.9.9 Information Concerning Soil Vapour Intrusion of Contaminants into Buildings

Due to the non-volatile nature of lead, no concern of soil vapour intrusion into the proposed newly constructed buildings is anticipated following the excavation and confirmatory sampling.

5.10 Cross-sections Showing Contaminants Greater Than the Standards

5.10.1 The Lateral and Vertical Distribution of Contaminants in Each Area and for Each Medium

The lateral and vertical distributions of contaminants in soil were presented on the following figures:

• Figure 6 depicts the vertical soil exceedances with metals at the Site- Cross Section A-A';

5.10.1.1 Approximate Depth to Water Table in Each Area

Based on ground water tables measured on the July 23, 2021, depths to the shallower water table within the sand layer range from 3.05 m bgs to 3.51 m bgs. The interpreted shallower ground water flow direction is expected to be towards the northwest, and in a similar manner with the topography of the Site. Ground water contours and groundwater flow direction map are presented on Figure 3. Measured depths to water table are also illustrated on cross-sectional figures.

5.10.1.2 Stratigraphy from Ground Surface to the Deepest Aquifer or Aquitard Investigated

In general, the soil stratigraphy at the borehole locations comprised of ashphalt, underlain by sand. Below the sand layer lies bedrock. Geological Cross Section A-A', illustrating the soil profile, monitoring well constructions and groundwater elevations, are shown on Figure 6.

5.10.1.3 Any Subsurface Structures and Utilities That May Affect Contaminant Distribution and Transport

Several underground utilities were noted be likely present at the Site including, but not limited to, municipal water and sewer services, electricity, natural gas and telecommunications services. The locations and depths of these underground utilities were not determined as part of this Phase One ESA. No Site-specific concerns regarding underground utility service trenches were identified.

5.11 Potential Contaminant Sources, Exposure Pathways and Receptors

The contaminants identified in soil at the Phase Two Property included lead (metal). The source of the lead contaminants is most likely related to historical lead paint and lead pipes, as well as poor quality fill.

The contaminants are not expected to have mechanisms via soil, groundwater and air exposure pathways to humans and ecological receptors at or in the vicinity of the Phase Two Property. The impacted soil is isolated from human and ecological receptors by overlying asphalt, and groundwater results indicate that lead impacts in soil have not entered the groundwater to any significant degree.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

Based on the analytical results, all soil at the Site is in compliance with applicable Table 1 and Table 3 SCS with the exception of the lead exceedance at 78Ros-BH3-SS1, from the fill layer underlying the asphalt at the Site. Given the age of the Site, lead exceedances are not uncommon and may be associated with historical building materials, lead piping, paint, etc. The fill material in which the lead exceedance was noted is isolated from human and ecological receptors by a layer of asphalt, and as such, is not considered to represent a concern to the continued use of the Site for its present purposes.

All groundwater results were in compliance with applicable SCS for the parameters tested.

Given the nature of the exceedances in soil, the lack of exceedances in groundwater, and the groundwater flow direction, the presence of the automotive service garage is not considered to have impacted the Site.

In the event that the Site is redeveloped, any excess soil should be disposed of or reused according to O.Reg. 406/19 (On-Site and Excess Soil Management). Due to the noted lead exceedance, it is anticipated that disposal of a licensed waste disposal facility will be required.

6.2 Recommendations

McIntosh Perry does not recommend any further investigative or remedial action for the Site at this time. The environmental condition of the Site is considered suitable for the proposed development.

7.0 LIMITATIONS

This report has been prepared, and the work referred to in this report has been undertaken by, McIntosh Perry Consulting Engineers Ltd. for 78 Rosemount Avenue Inc. It is intended for the sole, and exclusive use of 78 Rosemount Avenue Inc. and any affiliated companies and partners and their respective financial institutions, insurers, agents, employees and advisors (collectively, 78 Rosemount Avenue Inc.). The report may not be relied upon by any other person or entity without the express written consent of McIntosh Perry Any use which a third party makes of this report, or any reliance on decisions made based on it, without a Reliance Letter are the responsibility of such third parties. McIntosh Perry Consulting Engineers Ltd. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

The investigation undertaken by McIntosh Perry Consulting Engineers Ltd. with respect to this report and any conclusions or recommendations made in this report reflect McIntosh Perry Consulting Engineers Ltd.'s judgment based on the site conditions observed at the time of the site investigations, inspections and sampling on the date(s) set out in this report and on information available at the time of the preparation of this report.

This report has been prepared for specific application to this site and it is based, in part, upon visual observation of the site, subsurface investigation at discrete locations and depths, and specific analysis of specific chemical parameters and materials during a specific time interval, all as described in this report. Unless otherwise stated, the findings cannot be extended to previous or future site conditions, portions of the site which were unavailable for direct investigation, subsurface locations which were not investigated directly, or chemical parameters, materials or analysis which were not addressed. Substances other than those addressed by the investigation described in this report may exist within the site, substances addressed by the investigation may exist in areas of the site not investigated and concentrations of substances addressed which are different than those reported may exist in areas other than the locations from which samples were taken.

If site conditions or applicable standards change or if any additional information becomes available at a future date, modifications to the findings, conclusions and recommendations in this report may be necessary.

CLOSURE 8.0

We trust that this information is satisfactory for your present requirements. Should you have any questions or require additional information, please do not hesitate to contact the undersigned.

Respectfully submitted,

McIntosh Perry Consulting Engineers Ltd.

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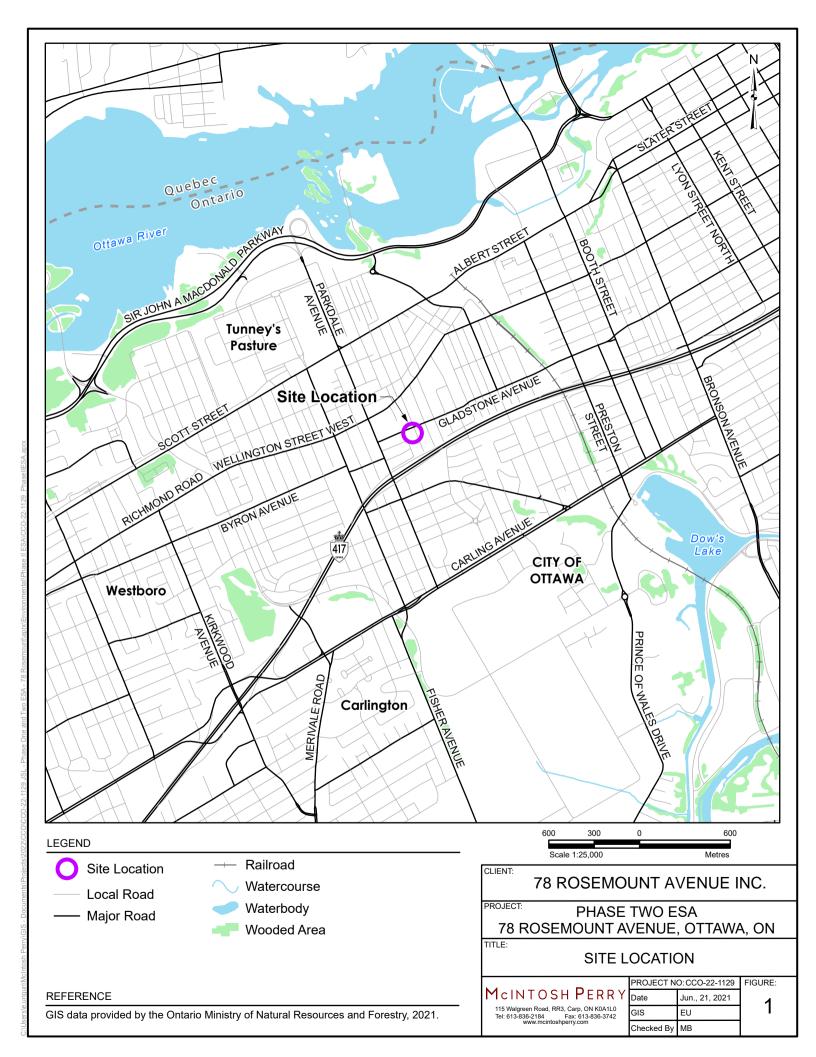
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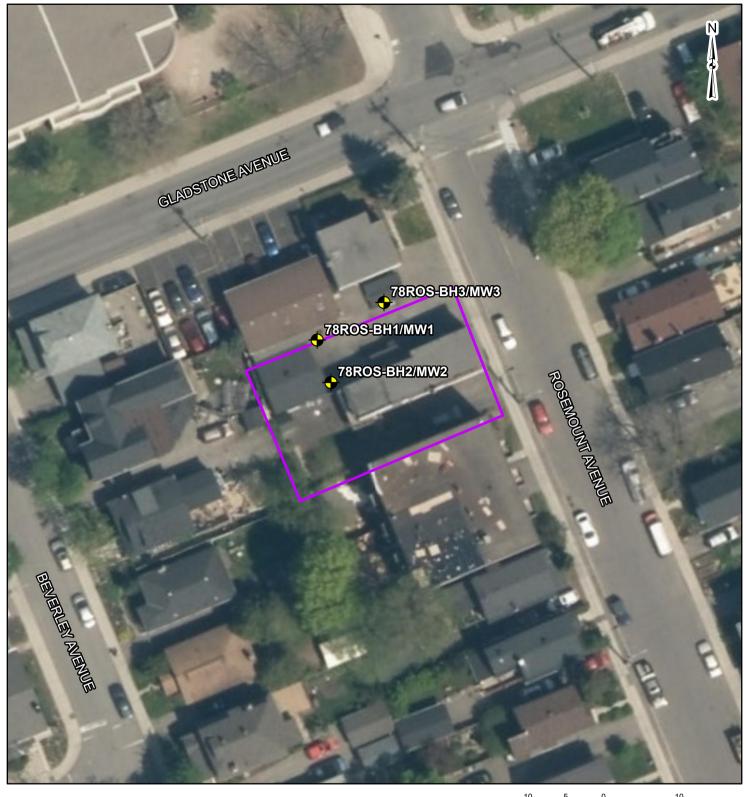
'Phase One Environmental Assessment, 78 Rosement Avenue, Ottawa, Ontario.' McIntosh Perry Consulting Engineers Ltd., July 21, 2021.

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT 78 ROSEMOUNT AVENUE, OTTAWA, ON



FIGURES





LEGEND

Site Boundary



Borehole/Monitoring Well Location

REFERENCE

GIS data provided by the Ontario Ministry of Natural Resources and Forestry, 2021.



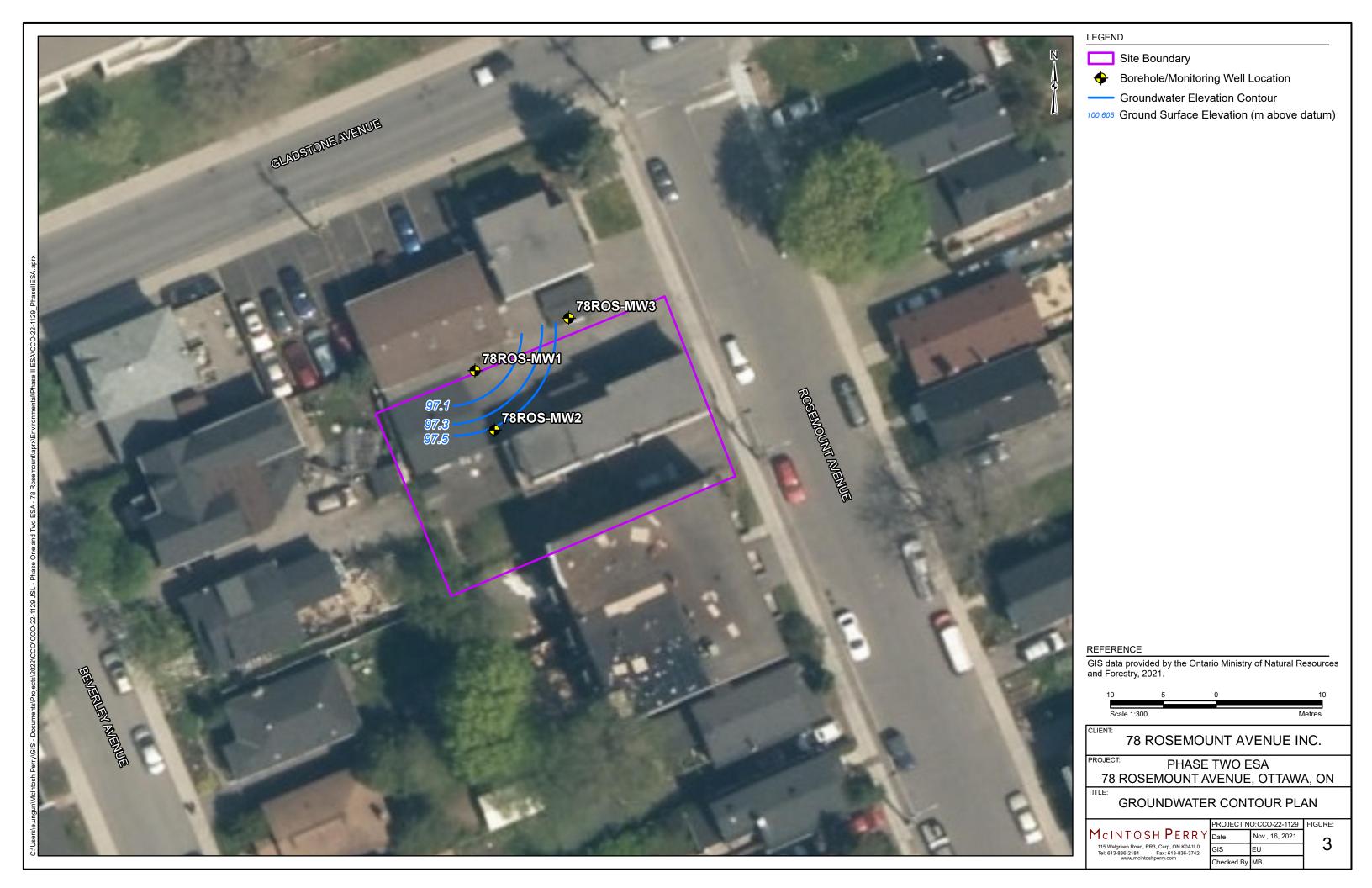
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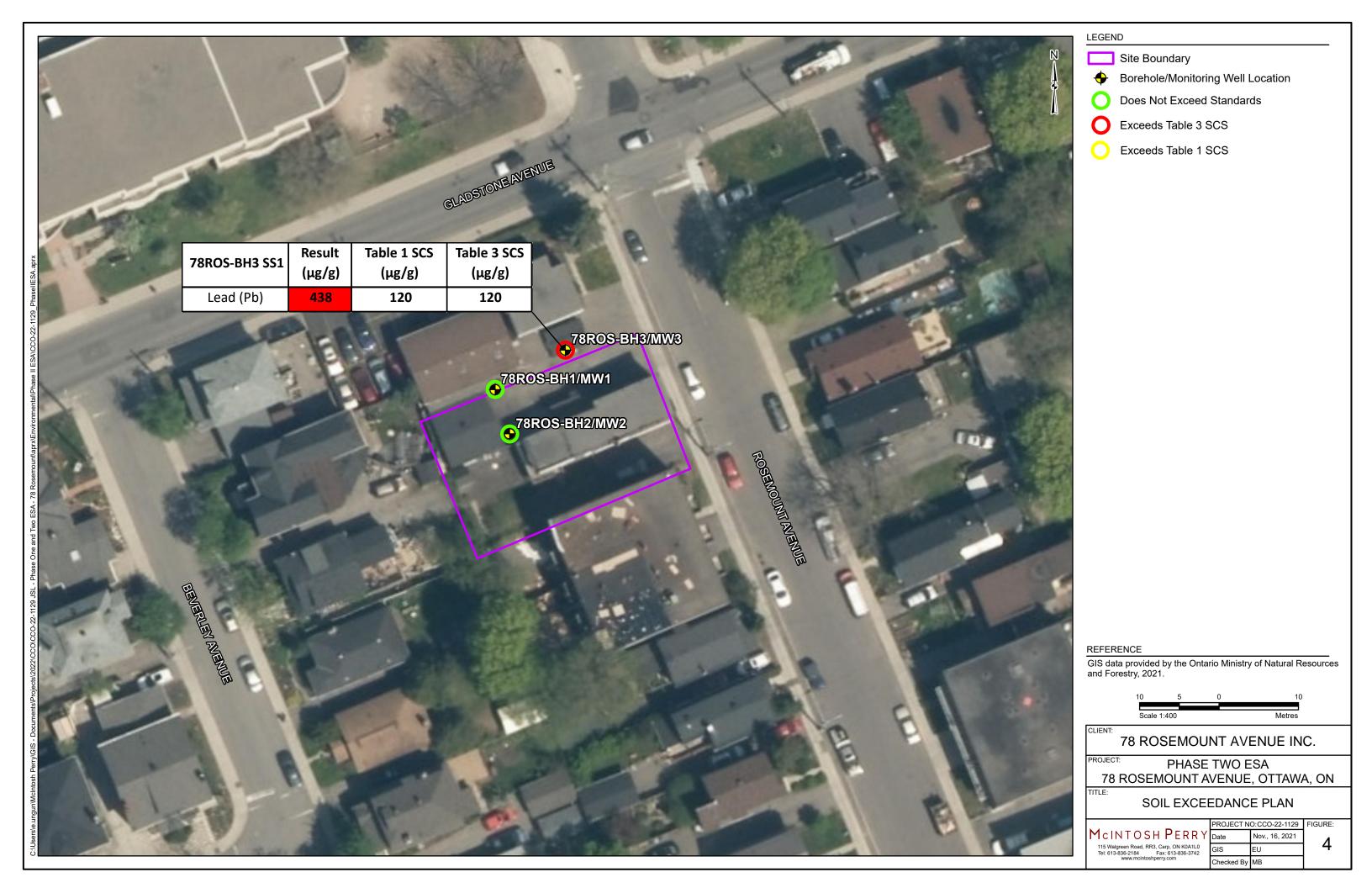
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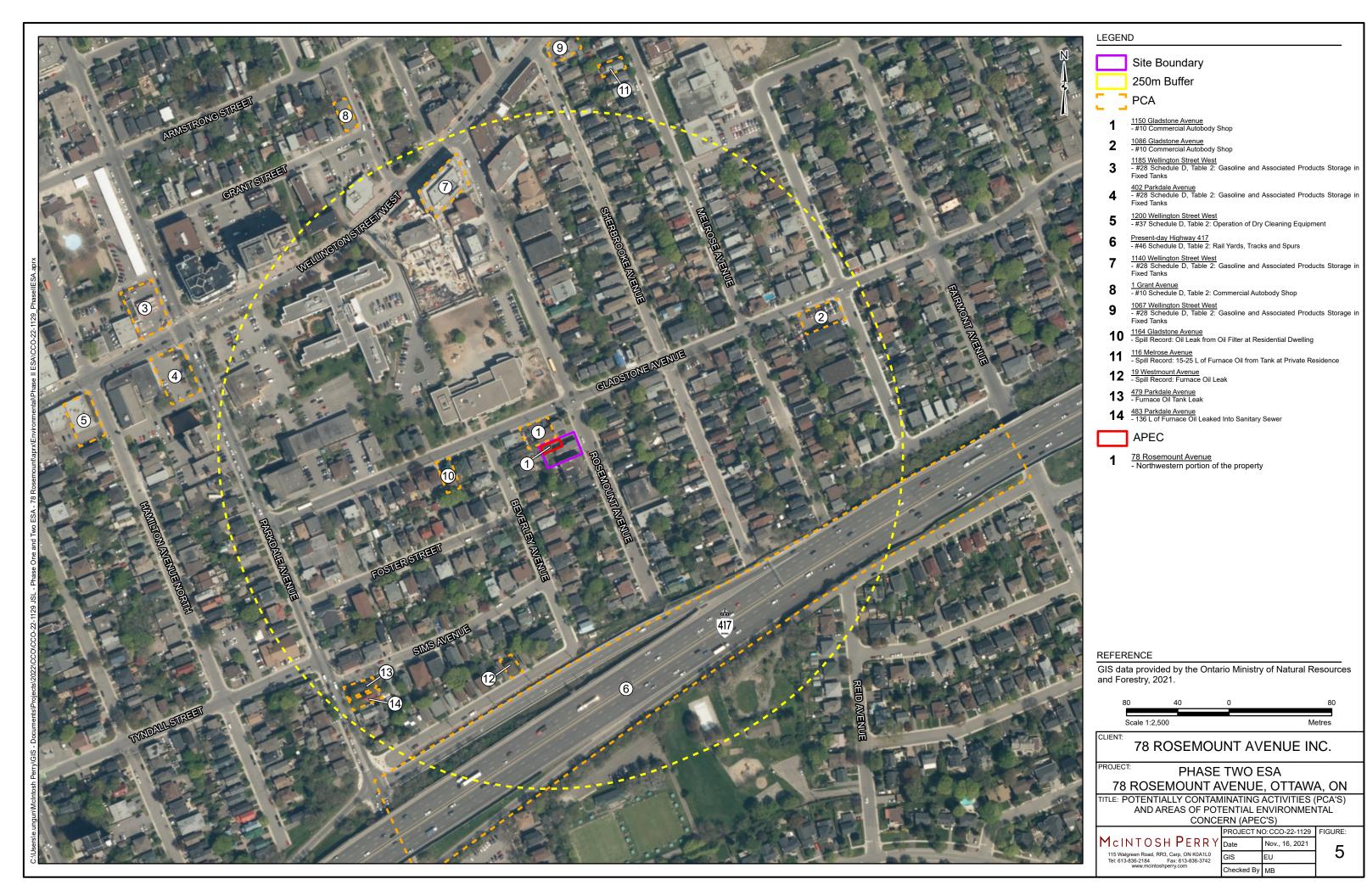
SITE LAYOUT

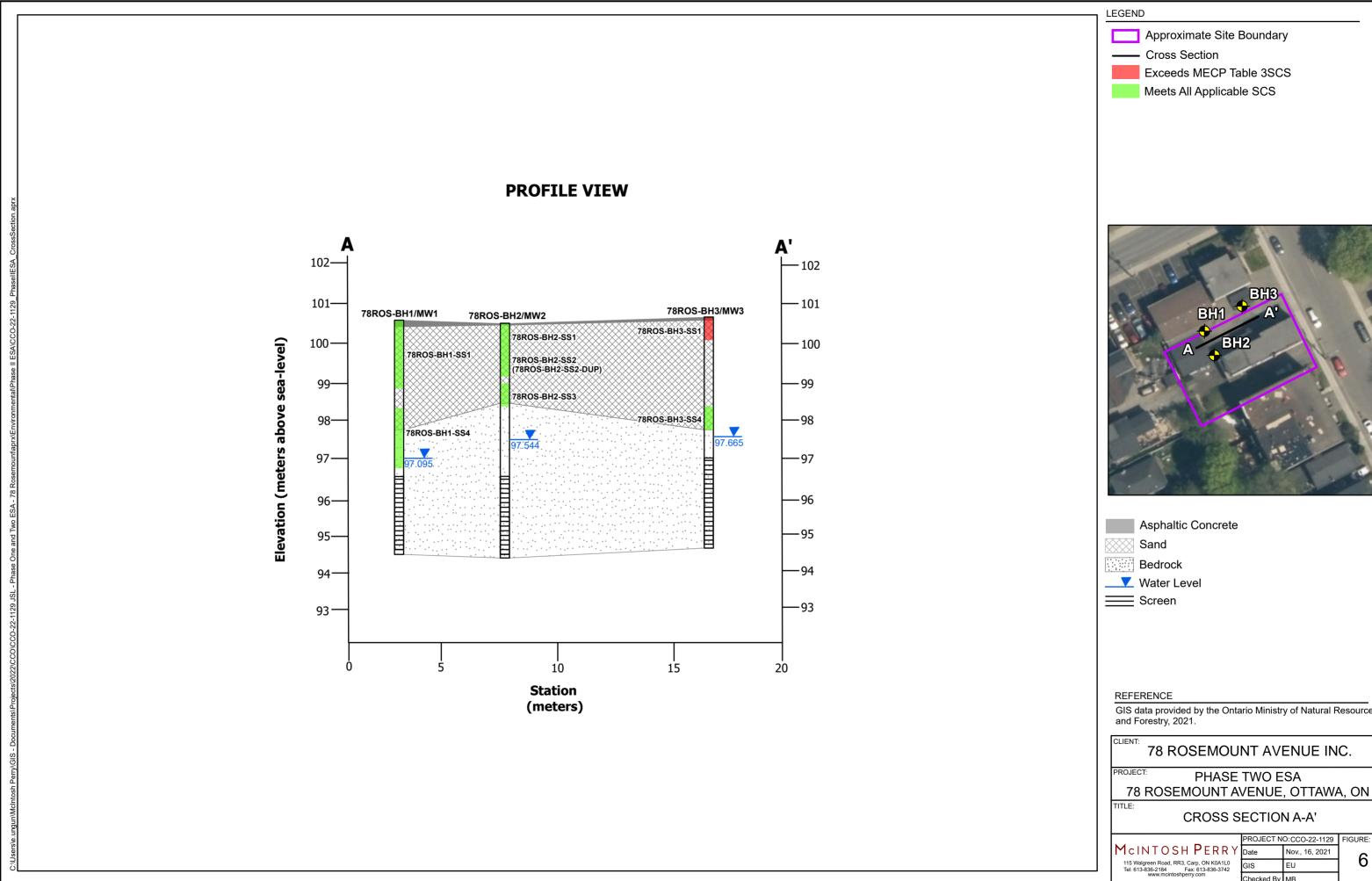
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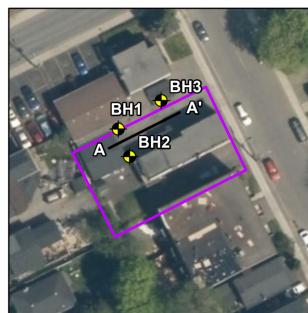








Exceeds MECP Table 3SCS



GIS data provided by the Ontario Ministry of Natural Resources and Forestry, 2021.

78 ROSEMOUNT AVENUE INC.

78 ROSEMOUNT AVENUE, OTTAWA, ON

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PHASE TWO ENVIRONMENTAL SITE ASSESSMENT 78 ROSEMOUNT AVENUE, OTTAWA, ON



TABLES

Monitoring Well ID	Total Depth (m)	Screened Interval (m BGS)	Ground Elevation (m AD)	Water Level Measurement (m BGS)	Water Elevation (m AD)	Date	Comments
78Ros-MW1	6.1	3.46 - 6.0	100.605	3.51	97.095	23-Jul-21	Flush mount casing
78Ros-MW2	6.1	3.46 - 6.0	100.594	3.05	97.544	23-Jul-21	Flush mount casing
78Ros-MW3	6.1	3.65 - 6.0	100.735	3.07	97.665	23-Jul-21	Flush mount casing

Notes:

BGS	below ground surface
AD	above datum (above datum is the top of the fire hydrant, assigned local

		Sample Date:				July 1	2,2021									
		Sample ID:	78ROS-BH1- SS1	78ROS-BH1- SS4	78ROS-BH2- SS1	78ROS-BH2- SS2	78ROS-BH2- SS2-DUP	78ROS-BH2- SS3	78ROS-BH3- SS1	78ROS-BH3- SS4	MECP Table 1 SCS	MECP Table 3 SCS				
	San	Sample Depth (m bgs)		Sample Depth (m bgs)		Sample Depth (m bgs)		2 20 2 74	0.06	0.60 4.27	0.60 4.27	4.52.242	0.06	2.20. 2.00		
PARAMETER	UNITS	Detection Limit	0 - 0.61	2.29 - 2.74	0 - 0.6	0.60 - 1.37	0.60 - 1.37	1.52 - 2.13	0 - 0.6	2.29 - 2.89						
Metals									-	-						
Antimony (Sb)	ug/g	1	1.1	-	<1.0	-	-	-	1.1	-	1.3	50				
Arsenic (As)	ug/g	1	2.3	-	1.1	-	-	-	4.7	-	18	18				
Barium (Ba)	ug/g	1	63.5	-	35.3	-	-	-	178	-	220	670				
Beryllium (Be)	ug/g	0.5	<0.50	-	<0.50	-	-	-	<0.50	-	2.5	10				
Boron (B), Hot Water Ext.	ug/g	0.1	0.18	-	0.3	-	-	-	0.15	-	N/A	2				
Boron (B)	ug/g	5	<5.0	-	<5.0	-	-	-	8.7	-	36	120				
Cadmium (Cd)	ug/g	0.5	<0.50	-	<0.50	-	-	-	<0.50	-	1.2	1.9				
Chromium (Cr)	ug/g	1	9.7	-	7.4	-	-	-	21.7	-	70	160				
Hexavalent Chromium (Cr(VI))	ug/g	0.2	<0.20	-	<0.20	-	-	-	0.27	-	0.66	10				
Cobalt (Co)	ug/g	1	3.4	-	2.5	-	-	-	6.4	-	21	100				
Copper (Cu)	ug/g	1	32.4	-	5	-	-	-	37.3	-	92	300				
Lead (Pb)	ug/g	1	82.9	-	9.7	-	-	-	438	-	120	120				
Mercury (Hg)	ug/g	0.005	0.0309	-	0.0163	-	-	-	0.105	-	0.27	20				
Molybdenum (Mo)	ug/g	1	<1.0	-	<1.0	-	-	-	1.1	-	2	40				
Nickel (Ni)	ug/g	1	8.9	-	4.3	-	-	-	14.8	-	82	340				
Selenium (Se)	ug/g	1	<1.0	-	<1.0	-	-	-	<1.0	-	1.5	5.5				
Silver (Ag)	ug/g	0.2	<0.20	-	<0.20	-	-	-	<0.20	-	0.5	50				
Thallium (TI)	ug/g	0.5	<0.50	-	<0.50	-	-	-	<0.50	-	1	3.3				
Uranium (U)	ug/g	1	<1.0	-	<1.0	-	-	-	<1.0	-	2.8	33				
Vanadium (V)	ug/g	1	19.2	-	18.1	-	-	-	33.6	-	86	86				
Zinc (Zn)	ug/g	5	50.1	-	16.1	-	-	-	109	-	290	340				

		Sample Date:				July 1	2,2021					
		Sample ID:	78ROS-BH1- SS1	78ROS-BH1- SS4	78ROS-BH2- SS1	78ROS-BH2- SS2	78ROS-BH2- SS2-DUP	78ROS-BH2- SS3	78ROS-BH3- SS1	78ROS-BH3- SS4	MECP Table 1 SCS	MECP Table 3 SCS
	San	nple Depth (m bgs)										
PARAMETER	UNITS	Detection Limit	0 - 0.61	2.29 - 2.74	0 - 0.6	0.60 - 1.37	0.60 - 1.37	1.52 - 2.13	0 - 0.6	2.29 - 2.89		
VOCs (including BTEX)	•	•			•					•		
Acetone	ug/g	0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	<0.50	0.5	16
Benzene	ug/g	0.0068	-	<0.0068	-	<0.0068	<0.0068	<0.0068	-	<0.0068	0.02	0.21
Bromodichloromethane	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	13
Bromoform	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.27
Bromomethane	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.05
Carbon tetrachloride	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.05
Chlorobenzene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	2.4
Dibromochloromethane	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	9.4
Chloroform	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.05
1,2-Dibromoethane	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.05
1,2-Dichlorobenzene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	3.4
1,3-Dichlorobenzene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	4.8
1,4-Dichlorobenzene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.083
Dichlorodifluoromethane	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	16
1,1-Dichloroethane	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	3.5
1,2-Dichloroethane	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.05
1,1-Dichloroethylene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.05
cis-1,2-Dichloroethylene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	3.4
trans-1,2-Dichloroethylene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.084
Methylene Chloride	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.1
1,2-Dichloropropane	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.05
cis-1,3-Dichloropropene	ug/g	0.03	-	<0.030	-	<0.030	<0.030	<0.030	-	<0.030	No SCS	No SCS
trans-1,3-Dichloropropene	ug/g	0.03	-	<0.030	-	<0.030	<0.030	<0.030	-	<0.030	No SCS	No SCS
1,3-Dichloropropene (cis & trans)	ug/g	0.042	-	<0.042	-	<0.042	<0.042	<0.042	-	<0.042	0.05	0.05
Ethylbenzene	ug/g	0.018	-	<0.018	-	<0.018	<0.018	<0.018	-	<0.018	0.05	2
n-Hexane	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	2.8
Methyl Ethyl Ketone	ug/g	0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	<0.50	0.5	16
Methyl Isobutyl Ketone	ug/g	0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	<0.50	0.5	1.7
МТВЕ	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.75
Styrene	ug/g	0.05	-	<0.050	_	<0.050	<0.050	<0.050	-	<0.050	0.05	0.7

		Sample Date:				July 1	2,2021					
		Sample ID:		78ROS-BH1- SS4	78ROS-BH2- SS1	78ROS-BH2- SS2	78ROS-BH2- SS2-DUP	78ROS-BH2- SS3	78ROS-BH3- SS1	78ROS-BH3- SS4	MECP Table 1 SCS	MECP Table 3 SCS
	San	nple Depth (m bgs)										
PARAMETER	UNITS	Detection Limit	0 - 0.61	2.29 - 2.74	0 - 0.6	0.60 - 1.37	0.60 - 1.37	1.52 - 2.13	0 - 0.6	2.29 - 2.89		
1,1,1,2-Tetrachloroethane	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.058
1,1,2,2-Tetrachloroethane	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.05
Tetrachloroethylene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.28
Toluene	ug/g	0.08	-	<0.080	-	<0.080	<0.080	<0.080	-	<0.080	0.2	2.3
1,1,1-Trichloroethane	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.38
1,1,2-Trichloroethane	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	0.05
Trichloroethylene	ug/g	0.01	-	<0.010	-	<0.010	<0.010	<0.010	-	<0.010	0.05	0.061
Trichlorofluoromethane	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.25	4
Vinyl chloride	ug/g	0.02	-	<0.020	-	<0.020	<0.020	<0.020	-	<0.020	0.02	0.02
o-Xylene	ug/g	0.02	-	<0.020	-	<0.020	<0.020	<0.020	-	<0.020	No SCS	No SCS
m+p-Xylenes	ug/g	0.03	-	<0.030	-	<0.030	<0.030	<0.030	-	<0.030	No SCS	No SCS
Xylenes (Total)	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.05	3.1
4-Bromofluorobenzene	%	%	-	112.1	-	101.3	105.5	101.5	-	104.8	No SCS	No SCS
1,4-Difluorobenzene	%	%	-	117	-	105.7	110.7	106.4	-	110.2	No SCS	No SCS
PHCs	<u>'</u>			!	!	!	!			!	•	
F1 (C6-C10)	ug/g	5	-	<5.0	-	<5.0	<5.0	<5.0	-	<5.0	25	55
F1 (C6 to C10) minus BTEX	ug/g	5	-	<5.0	-	<5.0	<5.0	<5.0	-	<5.0	No SCS	55
F2 (C10-C16)	ug/g	10	-	<10	-	<10	<10	<10	-	<10	10	230
F2 (C10 to C16) minus Naphthalene	ug/g	10	-	<10	-	<10	<10	<10	-	<10	No SCS	No SCS
F3 (C16-C34)	ug/g	50	-	<50	-	<50	<50	<50	-	<50	240	1,700
F3 (C16 to C34) minus PAHs	ug/g	50	-	<50	-	<50	<50	<50	-	<50	No SCS	No SCS
F4 (C34-C50)	ug/g	50	-	<50	-	<50	<50	<50	-	<50	120	3,300
Total Hydrocarbons (C6-C50)	ug/g	72	-	<72	-	<72	<72	<72	-	<72	No SCS	No SCS
PAHs	•											
Acenaphthene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.072	7.9
Acenaphthylene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.093	0.15
Anthracene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.16	0.67
Benzo(a)anthracene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.36	0.5
Benzo(a)pyrene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.3	0.3
Benzo(b&j)fluoranthene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.47	0.78
Benzo(g,h,i)perylene	ug/g	0.05	-	<0.050	_	<0.050	<0.050	<0.050	-	<0.050	0.68	6.6

			Ι		Nosembunt Aven	•						
		Sample Date:		1	Γ	July 1	2,2021		T	,		
		Sample ID:	78ROS-BH1- SS1	78ROS-BH1- SS4	78ROS-BH2- SS1	78ROS-BH2- SS2	78ROS-BH2- SS2-DUP	78ROS-BH2- SS3	78ROS-BH3- SS1	78ROS-BH3- SS4	MECP Table 1 SCS	MECP Table 3 SCS
	Sam	ple Depth (m bgs)	0 - 0.61	2.29 - 2.74	0 - 0.6	0.60 - 1.37	0.60 - 1.37	1.52 - 2.13	0 - 0.6	2.29 - 2.89		
PARAMETER	UNITS	Detection Limit	0-0.61	2.29 - 2.74	0 - 0.6	0.60 - 1.57	0.60 - 1.57	1.52 - 2.15	0 - 0.6	2.29 - 2.09		
Benzo(k)fluoranthene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.48	0.78
Chrysene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	2.8	7
Dibenz(a,h)anthracene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.1	0.1
Fluoranthene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.56	0.69
Fluorene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.12	62
Indeno(1,2,3-cd)pyrene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	0.23	0.38
1+2-Methylnaphthalenes	ug/g	0.0424	-	<0.042	-	<0.042	<0.042	<0.042	-	<0.042	0.59	0.99
1-Methylnaphthalene	ug/g	0.03	-	<0.030	-	<0.030	<0.030	<0.030	-	<0.030	0.59	0.99
2-Methylnaphthalene	ug/g	0.03	-	<0.030	-	<0.030	<0.030	<0.030	-	<0.030	0.59	0.99
Naphthalene	ug/g	0.013	-	<0.013	-	<0.013	<0.013	<0.013	-	<0.013	0.09	0.6
Phenanthrene	ug/g	0.046	-	<0.046	-	<0.046	<0.046	<0.046	-	<0.046	0.69	6.2
Pyrene	ug/g	0.05	-	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	1	78
**	O.Reg. 153/04 (as amended) -											
-	No analytical res	ult										
No SCS	No Site Condition	No Site Condition Standard										
ND	Non Detectable (Non Detectable (i.e. the analytical result was below the method reporting limit for the test)										
<u>100</u>		Exceeds Table 1 SCS										
<u>100</u>	Exceeds Table 3 S	SCS .										

		Sample Date:		July 2	3,2021		
		Sample ID:	78 ROS-MW1	MW1-DUP	78 ROS-MW2	78 ROS-MW3	MECP Table 3 SCS
PARAMETER	UNITS	Detection Limit					
Metals and Inorganic Parameters							
Antimony (Sb)-Dissolved	ug/g	0.1	<1.0	<1.0	1.14	0.9	20000
Arsenic (As)-Dissolved	ug/g	0.1	<1.0	<1.0	0.51	0.46	1900
Barium (Ba)-Dissolved	ug/g	0.1	174	154	228	224	29000
Beryllium (Be)-Dissolved	ug/g	0.1	<1.0	<1.0	<0.10	<0.10	67
Boron (B)-Dissolved	ug/g	10	<100	<100	81	92	45000
Cadmium (Cd)-Dissolved	ug/g	0.01	<0.050	<0.050	<0.010	<0.010	2.7
Chromium (Cr)-Dissolved	ug/g	0.5	<5.0	<5.0	<0.50	<0.50	810
Chromium, Hexavalent	ug/g	0.5	<0.50	<0.50	<0.50	<0.50	140
Cobalt (Co)-Dissolved	ug/g	0.1	1.2	1.2	0.6	0.44	66
Copper (Cu)-Dissolved	ug/g	0.2	<2.0	<2.0	1.17	0.72	87
Lead (Pb)-Dissolved	ug/g	0.05	4.76	4.14	0.138	0.113	25
Mercury (Hg)-Dissolved	ug/g	0.005	<0.0050	<0.0050	<0.0050	<0.0050	0.29
Molybdenum (Mo)-Dissolved	ug/g	0.05	7.18	7.35	5	5.65	9200
Nickel (Ni)-Dissolved	ug/g	0.5	<5.0	<5.0	3.67	2.72	490
Selenium (Se)-Dissolved	ug/g	0.05	1.11	1.28	1.82	1.24	63
Silver (Ag)-Dissolved	ug/g	0.05	<0.50	<0.50	<0.050	<0.050	1.5
Sodium (Na)-Dissolved	ug/g	500	58500	64100	22200	60100	2300000
Thallium (TI)-Dissolved	ug/g	0.01	<0.10	<0.10	0.033	0.032	510
Uranium -Dissolved	ug/g	0.01	1.88	1.88	2.3	3.23	420
Vanadium (V)-Dissolved	ug/g	0.5	<5.0	<5.0	<0.50	<0.50	250
Zinc (Zn)-Dissolved	ug/g	1	<10	15	3.8	<1.0	1100
Conductivity	mS/cm	0.003	0.68	0.728	0.718	0.876	No SCS
рН	pH units	0.1	7.79	7.8	8.02	7.72	No SCS
Chloride (CI)	mg/L	0.5	54.3	23.2	23.6	44.4	No SCS
Cyanide, Weak Acid Diss	ug/L	2	<2.0	<2.0	<2.0	<2.0	No SCS

		Sample Date:		July 2	3,2021		
		Sample ID:	78 ROS-MW1	MW1-DUP	78 ROS-MW2	78 ROS-MW3	MECP Table 3 SCS
PARAMETER	UNITS	Detection Limit					
VOCs (including BTEX)							
Acetone	ug/g	30	30	<30	<30	<30	130000
Benzene	ug/g	0.5	0.5	<0.50	<0.50	<0.50	44
Bromodichloromethane	ug/g	2	2	<2.0	<2.0	<2.0	85000
Bromoform	ug/g	5	5	<5.0	<5.0	<5.0	380
Bromomethane	ug/g	0.5	0.5	<0.50	<0.50	<0.50	5.6
Carbon tetrachloride	ug/g	0.2	0.2	<0.20	<0.20	<0.20	0.79
Chlorobenzene	ug/g	0.5	0.5	<0.50	<0.50	<0.50	630
Dibromochloromethane	ug/g	2	2	<2.0	<2.0	<2.0	82000
Chloroform	ug/g	1	1	<1.0	<1.0	<1.0	2.4
1,2-Dibromoethane	ug/g	0.2	0.2	<0.20	<0.20	<0.20	0.25
1,2-Dichlorobenzene	ug/g	0.5	0.5	<0.50	<0.50	<0.50	4600
1,3-Dichlorobenzene	ug/g	0.5	0.5	<0.50	<0.50	<0.50	9600
1,4-Dichlorobenzene	ug/g	0.5	0.5	<0.50	<0.50	<0.50	8
Dichlorodifluoromethane	ug/g	2	2	<2.0	<2.0	<2.0	4400
1,1-Dichloroethane	ug/g	0.5	0.5	<0.50	<0.50	<0.50	320
1,2-Dichloroethane	ug/g	0.5	0.5	<0.50	<0.50	<0.50	1.6
1,1-Dichloroethylene	ug/g	0.5	0.5	<0.50	<0.50	<0.50	1.6
cis-1,2-Dichloroethylene	ug/g	0.5	0.5	<0.50	<0.50	<0.50	1.6
trans-1,2-Dichloroethylene	ug/g	0.5	0.5	<0.50	<0.50	<0.50	1.6
Methylene Chloride	ug/g	5	5	<5.0	<5.0	<5.0	610
1,2-Dichloropropane	ug/g	0.5	0.5	<0.50	<0.50	<0.50	16
cis-1,3-Dichloropropene	ug/g	0.3	0.3	<0.30	<0.30	<0.30	No SCS
trans-1,3-Dichloropropene	ug/g	0.3	0.3	<0.30	<0.30	<0.30	No SCS
1,3-Dichloropropene (cis & trans)	ug/g	0.5	0.5	<0.50	<0.50	<0.50	5.2
Ethylbenzene	ug/g	0.5	0.5	<0.50	<0.50	<0.50	2300
n-Hexane	ug/g	0.5	0.5	<0.50	<0.50	<0.50	51
Methyl Ethyl Ketone	ug/g	20	20	<20	<20	<20	470000
Methyl Isobutyl Ketone	ug/g	20	20	<20	<20	<20	140000
МТВЕ	ug/g	2	2	<2.0	<2.0	<2.0	190
Styrene	ug/g	0.5	0.5	<0.50	<0.50	<0.50	1300
1,1,1,2-Tetrachloroethane	ug/g	0.5	0.5	<0.50	<0.50	<0.50	3.3

		Sample Date:		July 2	3,2021		
		Sample ID:	78 ROS-MW1	MW1-DUP	78 ROS-MW2	78 ROS-MW3	MECP Table 3 SCS
PARAMETER	UNITS	Detection Limit					
1,1,2,2-Tetrachloroethane	ug/g	0.5	0.5	<0.50	<0.50	<0.50	3.2
Tetrachloroethylene	ug/g	0.5	0.5	<0.50	<0.50	<0.50	1.6
Toluene	ug/g	0.5	0.5	<0.50	<0.50	0.53	18000
1,1,1-Trichloroethane	ug/g	0.5	0.5	<0.50	<0.50	<0.50	640
1,1,2-Trichloroethane	ug/g	0.5	0.5	<0.50	<0.50	<0.50	4.7
Trichloroethylene	ug/g	0.5	0.5	<0.50	<0.50	<0.50	1.6
Trichlorofluoromethane	ug/g	5	5	<5.0	<5.0	<5.0	2500
Vinyl chloride	ug/g	0.5	0.5	<0.50	<0.50	<0.50	0.5
o-Xylene	ug/g	0.3	0.3	<0.30	<0.30	<0.30	No SCS
m+p-Xylenes	ug/g	0.4	0.4	<0.40	<0.40	<0.40	No SCS
Xylenes (Total)	ug/g	0.5	0.5	<0.50	<0.50	<0.50	4200
4-Bromofluorobenzene	%	%	90.7	100.4	90.3	89.9	No SCS
1,4-Difluorobenzene	%	%	98.7	99.3	98.1	98.1	No SCS
PHCs	•	•					
F1 (C6-C10)	ug/g	25	<25	<25	<25	<25	750
F1 (C6 to C10) minus BTEX	ug/g	25	<25	<25	<25	<25	750
F2 (C10-C16)	ug/g	100	<100	<100	<100	<100	150
F2 (C10 to C16) minus Naphthalene	ug/g	100	<100	<100	<100	<100	No SCS
F3 (C16-C34)	ug/g	250	<250	<250	<250	410	500
F3 (C16 to C34) minus PAHs	ug/g	250	<250	<250	<250	410	No SCS
F4 (C34-C50)	ug/g	250	<250	<250	<250	490	500
Total Hydrocarbons (C6-C50)	ug/g	370	<370	<370	<370	890	No SCS
PAHs							
Acenaphthene	ug/g	0.02	<0.020	<0.020	<0.020	<0.020	600
Acenaphthylene	ug/g	0.02	<0.020	<0.020	<0.020	<0.020	1.8
Anthracene	ug/g	0.02	<0.020	<0.020	<0.020	<0.020	2.4
Benzo(a)anthracene	ug/g	0.02	<0.010	<0.010	<0.010	<0.010	4.7
Benzo(a)pyrene	ug/g	0.01	<0.020	<0.020	<0.020	<0.020	0.81
Benzo(b&j)fluoranthene	ug/g	0.02	<0.020	<0.020	<0.020	<0.020	0.75
Benzo(g,h,i)perylene	ug/g	0.02	<0.020	<0.020	<0.020	<0.020	0.2
Benzo(k)fluoranthene	ug/g	0.02	<0.020	<0.020	<0.020	<0.020	0.4
Chrysene	ug/g	0.02	<0.020	<0.020	<0.020	<0.020	1
Dibenz(a,h)anthracene	ug/g	0.02	0.025	<0.020	<0.020	0.067	0.52

		Sample Date:		July 2	3,2021					
		Sample ID: 78 UNITS Detection Limit		MW1-DUP	78 ROS-MW2	78 ROS-MW3	MECP Table 3 SCS			
PARAMETER	UNITS									
Fluoranthene	ug/g	0.02	0.05	0.051	<0.020	0.026	130			
Fluorene	ug/g	0.02	<0.020	<0.020	<0.020	<0.020	400			
Indeno(1,2,3-cd)pyrene	ug/g	0.02	0.188	0.166	0.058	0.104	0.2			
1+2-Methylnaphthalenes	ug/g	0.0283	0.06	0.048	0.023	0.043	1800			
1-Methylnaphthalene	ug/g	0.02	0.128	0.118	0.035	0.061	1800			
2-Methylnaphthalene	ug/g	0.02	0.061	0.057	<0.050	0.055	1800			
Naphthalene	ug/g	0.05	<0.160	<0.140	<0.036	<0.083	1400			
Phenanthrene	ug/g	0.036	0.052	0.042	0.034	0.159	580			
Pyrene	ug/g	0.02					68			
**	O.Reg. 153/04 (as amended) -									
-	No analytical resu	lt								
No SCS	No Site Condition .	Standard								
ND	Non Detectable (i.	e. the analytical resul	t was below the me	thod reporting limi	t for the test)					
<u>100</u>	Exceeds Table 3 SCS									

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT 78 ROSEMOUNT AVENUE, OTTAWA, ON



APPENDIX A: BOREHOLE LOGS

BORING NUMBER 78Ros-BH1 McIntosh Perry 115 Walgreen Road PAGE 1 OF 1 McINTOSH PERRY Carp, ON, K0A 1L0 Telephone: (613) 836-2184 CLIENT JSL Holdings PROJECT NAME Phase II ESA PROJECT NUMBER CCO-22-1129 **PROJECT LOCATION** 78 Rosemount Avenue, Ottawa, Ontario **DATE STARTED** 21-7-12 **COMPLETED** 21-7-12 GROUND ELEVATION HOLE SIZE 0.05 DRILLING CONTRACTOR Strata **GROUND WATER LEVELS:** DRILLING METHOD Hollow stem AT TIME OF DRILLING _---LOGGED BY S.H CHECKED BY AT END OF DRILLING _---NOTES AFTER DRILLING _---ENVIRONMENTAL DATA SAMPLE TYPE NUMBER GRAPHIC LOG MATERIAL DESCRIPTION WELL DIAGRAM PID = 1 ASPHALT 0.15 Vapor = 15 SAND SAND - black, dry, gravel SS1 0.61 PID = 0SAND - brown, some black sand, dry, gravel Vapor = 10 SS2 PID = 2 SAND - brown, fine, dry, layers of rock Vapor = 20 SS3 2 → BENTONITE PID = 2 SAND - moist, brown, gravel Vapor = 25 SS4 BEDROCK 3 ENVIRONMENTAL BH BOREHOLE LOGS.GPJ GINT STD CANADA.GDT 21-7-28 -SAND

SCREEN

5

BORING NUMBER 78Ros-BH2 McIntosh Perry 115 Walgreen Road PAGE 1 OF 1 McINTOSH PERRY Carp, ON, K0A 1L0 Telephone: (613) 836-2184 CLIENT JSL Holdings PROJECT NAME Phase II ESA PROJECT NUMBER CCO-22-1129 **PROJECT LOCATION** 78 Rosemount Avenue, Ottawa, Ontario **DATE STARTED** 21-7-12 **COMPLETED** 21-7-12 GROUND ELEVATION HOLE SIZE 0.05 DRILLING CONTRACTOR Strata **GROUND WATER LEVELS:** DRILLING METHOD Hollow stem AT TIME OF DRILLING _---LOGGED BY S.H CHECKED BY AT END OF DRILLING _---NOTES AFTER DRILLING _---ENVIRONMENTAL DATA GRAPHIC LOG SAMPLE TYPE NUMBER MATERIAL DESCRIPTION WELL DIAGRAM PID = 0ASPHALT 0.02 Vapor = 5 SAND SAND - brown, fine, dry, gravel SS1 PID = 0SAND - brown, dry, fine, layers of rock Vapor = 5 SS2 PID = 0SAND - brown, fine, moist, white rock mixed in, orange tinge Vapor = 5 SS3 2 → BENTONITE BEDROCK 3 -SAND SCREEN

ENVIRONMENTAL BH BOREHOLE LOGS.GPJ GINT STD CANADA.GDT 21-7-28

BORING NUMBER 78Ros-BH3 McIntosh Perry 115 Walgreen Road McINTOSH PERRY Carp, ON, K0A 1L0 Telephone: (613) 836-2184 CLIENT JSL Holdings PROJECT NAME Phase II ESA PROJECT NUMBER CCO-22-1129 **PROJECT LOCATION** 78 Rosemount Avenue, Ottawa, Ontario **DATE STARTED** 21-7-12 **COMPLETED** 21-7-12 GROUND ELEVATION HOLE SIZE 0.05 DRILLING CONTRACTOR Strata **GROUND WATER LEVELS:** DRILLING METHOD Hollow stem AT TIME OF DRILLING _---LOGGED BY S.H CHECKED BY AT END OF DRILLING _---NOTES AFTER DRILLING _---ENVIRONMENTAL DATA SAMPLE TYPE NUMBER GRAPHIC LOG MATERIAL DESCRIPTION WELL DIAGRAM PID = 0ASPHALT SAND Vapor = 0 SAND - coarse, dry, black, some gravel, dry, no odour SS1 PID = 1 SAND - black/brown, fine, dry, gravel, layer of white rock, no Vapor = 0 odour SS2 PID = 0SAND - brown, moist Vapor = 0 SS3 BENTONITE 2 PID = 1 SAND - brown, moist to wet, layers of white rock Vapor = 0 SS4 BEDROCK 3 SAND SCREEN 5

ENVIRONMENTAL BH BOREHOLE LOGS.GPJ GINT STD CANADA.GDT 21-7-28

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT 78 ROSEMOUNT AVENUE, OTTAWA, ON



APPENDIX B: LABORATORY CERTIFICATES OF ANALYSIS AND GRAIN SIZE ANALYSIS



Mcintosh Perry Limited (Vaughan)

ATTN: STEFAN HOLIK 2010 Winston Park Dr Oakville, ON L6H 5R7 Date Received: 13-JUL-21

Report Date: 09-AUG-21 08:42 (MT)

Version: FINAL REV. 3

Client Phone: 289-351-1546

Certificate of Analysis

Lab Work Order #: L2613337
Project P.O. #: NOT SUBMITTED
Job Reference: CC0-22-1129

C of C Numbers: Legal Site Desc:

Comments: Report revised to update criteria for comparison - E. Smith (08 Aug 2021).

Report revised to update criteria for comparison - E. Smith (09 Aug 2021).

Emily Smith Account Manager

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ADDRESS: 60 Northland Road, Unit 1, Waterloo, ON N2V 2B8 Canada | Phone: +1 519 886 6910 | Fax: +1 519 886 9047

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ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page 2 of 16 09-AUG-21 08:42 (MT)

Sample Details Grouping D.L. Units Analyte Result Qualifier Analyzed **Guideline Limits** Date Received: 13-JUL-21 L2613 Micintosko Pernyskimited (Vaughan) Report Date: Sample PT: N.CLETTEMANIMOLOM 6:50 09-AUG-21 08:42 (MT) Version: Matrix: 2010 Winston Park Dr FINAL REV. 3 Physical Tests ON L6H 5R7 % Moisture 11.6 0.25 15-JUL-21 % Metals Client Phone: 289-351-1546 23-JUL-21 Antimony (Sb) 1.1 1.0 1.3 ug/g 2.3 Arsenic (As) 1.0 ug/g 23-JUL-21 18 23-JUL-21 Barium (Ba) 220 ug/g Certificate of Beryllium (Be) 2.5 Boron (B) 36 Boron (B), Hot Water Ext. ⁰Lab Work Order #: "2613337-21 36 <0.50 Project P.O. #: 0.50 Cadmium (Cd) 1.2 Chromium (Cr) 70 3.40b Reference: 1.0 u QQC 0-2231/12921 21 Cobalt (Co) 23-JUL-21 Copper (Cu) ug/g 92 ³€⁴of C Numbers:^{1.0} 23-JUL-21 gal Site Desc: 1.0 120 Lead (Pb) ug/g Mercury (Hg) 23-JUL-21 0.27 ug/g Molybdenum (Mo) <1.0 23-JUL-21 1 0 ug/g 2 Nickel (Ni) 8.9 1.0 ug/g 23-JUL-21 82 23-JUL-21 Selenium (Se) <1.0 1.0 ug/g 1.5 <0.20 0.20 23-JUL-21 Silver (Ag) ug/g 0.5 Tha Comments: Report revised to upodate criteria for comparison g/gE. \$notholognAug 2021). Report revised to update criteria for comparison g/cE. \$nothu(091Aug 2021). Uranium (U) 19.2 23-JUL-21 Vanadium (V) 1.0 ug/g 86 50.1 23-JUL-21 Zinc (Zn) 5.0 ug/g 290 **Speciated Metals** <0.20 0.20 Chromium, Hexavalent 20-JUL-21 ug/g 0.66 L2613337-2 78ROS-BH1-SS4 CLIENT on 12-JUL-21 @ 16:50 Sampled By: #1 SOIL Matrix: **Physical Tests** % Moisture 7.09 0.25 15-JUL-21 % **Volatile Organic Compounds** 0.50 19-JUL-21 Acetone < 0.50 ug/g 0.5 Benzene <0.0068 0.0068 19-JUL-21 ug/g 0.02 Bromodichloromethane 0.050 19-JUL-21 < 0.050 0.05 ug/g **Bromoform** < 0.050 0.050 ug/g 19-JUL-21 0.05 **Bromomethane** < 0.050 0.050 ug/g 19-JUL-21 0.05 Carbon tetrachloride 19-JUL-21 < 0.050 0.050 ug/g 0.05 < 0.050 0.050 19-JUL-21 Chlorobenzene ug/g 0.05 < 0.050 0.050 Dibromochloromethane ug/g 19-JUL-21 0.05 Chloroform < 0.050 0.050 19-JUL-21 0.05 ug/g 1,2-Dibromoethane 0.050 19-JUL-21 0.05 <0.2种ilv Smith ug/g 19-JUL-21 <0 A&count Manager050 0.05 1,2-Dichlorobenzene ug/g 1,3-Dichlorobenzene [This report shall not be reproduced except in full without the written authority of the Laboratory.] 19-JUL-21 1.4-Dichlorobenzene < 0.050 0.050 ug/g 0.05 Dichlorodifluoromethan DRESS: 60 Northland Road, UAFO, Waterloo, ON N2/V2EB Canad (Phone: 19-919-866 6910 | Pak5+1 519 886 9047 ALS CANADA LTD Part of the ALS Group An ALS Limited Company

^{**} 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:



ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page 2 of 16 09-AUG-21 08:42 (MT)

Sample Details						09-AUG-21 08:42 (MT)
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2613 Mcintosko Berryskimited (Vau	ghan)				Date Received:	13-JUL-21
Sampled By: NCLOST PEOPLAN IN (16:50					Report Date:	09-AUG-21 08:42 (MT)
Matrix: 2010 Winston Park Dr					Version: #1	FINAL REV. 3
Physical Dieses Compounds H 5R7						
1 Oakville, ON L6H 5R7 %1Mbiishlureoethane	< 0.1060		00 02550	u‰g	19-JUL-21 0.05	
Metals Dichloroethane	< 0.050		0.050	ug/g	19-Jelient Phones 2	89-351-1546
ArttiDichlo(Sethylene	<01.0150		0 :1 Q 5 0	ug/g	29-JUL-21 0.05	
Airsenic Diasyoroethylene	<02.0350		0 :1 Q 5 0	ug/g	29-JUL-21 01 % 5	
Barismi, 2Baichloroethylene	< 63050		0.1050	ug/g	29-JUL-21 0.25	
Bletytylleme(Bel)oride		cate	6.0	· An	3 48 IS 60 15	
	<05000	Jul	05060	ug/g	29-JeL-21 0365	
Berán3(B)¢MoropropenExt.	<0.₽ 8 0b	Work (or lder #	: ^u ⊉⁄ 2 61	3.3-3-4-21 36	
taganium Dichloropropene	~0n0 :21 0	ct P.O. #	OrOcaro	ug/g	29-JUL-21 1.2 SURMITTED 2.25	
CarDichleropropene (cis & trans)		1			SLABIMITATED 0705	
Ethylinerosene		eference		00	2 291JU29 21 0295	
CHANA(€u)	<9200 C	Numbe	rs. 1000	ug/g	29-JUL-21 0925	
Methylpshyl Ketone	≪ <u>92,5</u> 90 Leadal	Site Des	0,50 SC:0.50	ug/g	29-JUL-21 025	
Methylysphytyl Ketone				ug/g	29-JUL-21 0.257	
Morpedenum (Mo)	<0.050		0:10:50	ug/g	29-JUL-21 0.25	
和Keneni)	<08.0450		0:10:50	ug/g	29-JUL-21 0 ₈ 95	
\$414.3.3 Tetraphlareathane	<2.050		0:10:50	ug/g	29-JUL-21 0.05	
\$ilv2;2,7,5 trachloroethane	<0.0250		00000	ug/g	29-JUL-21 0,05	
Training the Report revised to					nnneth (1081 Aug 201251).	
Triangle (U) Report revised to	-	iteria ior			nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn	
Vanadium (orpethane	<090,50		0:10:50	ug/g	29-JUL-21 0965	
方法の(表示)chloroethane	< 9 09 5 0 <0.010		0 <u>ғ</u> 0 5 0	ug/g	29-JUL-21 0.05	
Specialter websitene			0.010	ug/g	19-JUL-21 0.05	
전하아에서 다하다.	<0.020		<u> </u>	Ug/g ug/g	28:JUL:21 0:66 19-JUL-21 0.02	
L2613337Ene 78ROS-BH1-SS4	<0.020		0.020	ug/g ug/g	19-JUL-21 0.02	
Sampled Rylen & LIENT on 12-JUL-21 @ 16:50	<0.020		0.030	ug/g ug/g	19-JUL-21	
Mativalenes (To SO)IL	< 0.050		0.050	ug/g	19-JUL-21 #1 0.05	
Physical fests 4-Bromofluorobenzene	112.1		50-140	%	19-JUL-21	
Surrogate: 1,4-Difluorobenzene	117.0 7.09		50-140	%	19-JUL-21 15-JUL-21	
Hydrocarbons Volatile Organic Compounds	7.09		0.25	%	15-JUL-21	
F1 (C6-C10)	<5.0		5.0	ug/g	19-JUL-21 25	
Acetone	<0.50 <5.0		0.50 0.0068	uğ/ğ ug/g	18-JUL-21	
Benzene F2 (C10-C16)	<0.0068 <10		0.0068 10	uğ/ğ ug/g	18-JUE-21	
Benzene F2 (C10-C16) Bromodichloromethane F2-Naphth Bromoform	<0.050 <10		0.050 10	30000000000000000000000000000000000000	18 <u>-</u> 18 <u>-</u> 18 <u>-</u> 21 0.05	
F3~(C16-C34)	<0.050 <50		0.050	uğ/ğ uğ/g	18-3UE-21	
Bromomethane F3-PAH	<0.050 <50		0.050	90000000000000000000000000000000000000	18598E521 0.05	
Carbon tetrachloride	<0.050 <50		0.050	ug/g	18-JUL-21 9:25	
Chlorobenzene Total Hydrocarbons (C6-C50)	<0.050 <72		0.050	ug/g	19-JYL-21 0.05	
Pibrom ochloromethan RC50	< ₽₽ §0		0.050	N890hit	18-JYL-21 0.05	
Shlorofalen 2-Bromobenzotrifluoride	< 9+0.5 0		& <u>954</u>	ug/g	18-JUL-21 0.05	
\$370bangetheren	<9 4£2 91ily		68º0540	u g /g	19:JUL:21 0.05	
PolyeyeliehArohanze Phydrocarbons		ınt Mana		ug/g	19-JUL-21 0.05	
A3-Dichlorehenzene [This report sh	all neo be pro	duced exce	ot iki iki iki iki	out the fritter	all 10 10 10 10 10 10 10 10 10 10 10 10 10	
A4-Dichlorobenzene	<0.050		0:0 5 0	Ug/g	18-JUL-21 0.095	
DichlorodifuoromethaneDRESS: 60 Northland	Roa ⊈ქქტე , W	aterloo, ON	N26/65668 C	anad #9 / 9 hon	e: 18:5 UL86 6910 6 an 8+1	519 886 9047
* Detection Limit for result exceeds Guideline Limi					Limited Company	

^{**} 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:



ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page 2 of 16 09-AUG-21 08:42 (MT)

CC0-22-1129							09-AU	G-21 08:42 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guideline Lin	nits
L2613 Mozintosko Pernyski mited (Va	ghan)				Date F	eceived:	13-JUL-21	
Sampled By: NCLOST PER A PUM (2) (@) (6:50	,				Report		09-AUG-21 0	8:42 (MT)
Matrix: 2010 Winston Park Dr					Versio	<u>n:</u> #1	FINAL REV. 3	3
Polyetiya (Tradaksio Aliophydrockar bons Oakville, Un Lon 5R7 Bel Maish)aeubitaeeee	<0.1060		00 02560	ug⊮g	10-JUL-21	0.06		
Metaks Zio(h)pyrethane	<0.050		0.050	ug/g			9-351-1546	
B.dri@ii(h)ci)(Set trylethæne	<01.0150		0:1050	ug/g	29-JUL-21	01.988	19-331-1340	
Bieseta (A) A si) peoplet ny dene	<02.0350		0:1050	ug/g	29-JUL-21	0108		
Barison (Kata) portato the they lene	<03050		0:1050	ug/g	26-JUL-21	2.96		
Sterlytsterme (Set) oride	ertif i	cate	E O	An	244 8i	S (2(85		
Bin Diz (Bin) protipacene	<95060	Jul	05050	ug/g	26-JUL-21	009095		
Blandram B) plator out varient text.	<0.080b	Work (t felbro		39-34L-21	03 % 6		
Camana Qcb) oropropene	<00030 Proje	ct P.O. #	000300	ug/g	29-JUL-21	01.122		
Commission of the Commission 	-		_	ugyg '	49-99E-E	D ₀₇₂₀₅		
Etz/weronephthalenes	_	Reference	_		2291112221	0295		
(Caphthalene	89.2930 f (Numbe	rs ^{0:1000}	ug/g	29-JUL-21	0995		
2/64/8 չ/Իր4/) ayd Krestone Masteuns/ene /y/ Ketone	< 9 201 9 00 201.e gal	Site Des	09(550) SC:00(560)	ug/g	29=JUL=21 29=JUL=21	0).259 0).259		
Moderatengy / Tecono	< 0.10909		0:1050	ug/g ug/g	29-99E-21 29-JUL-21	0: <u>9</u> 5		
Micros Richitation (MO)	< 0 8 0 50		0: <u>Q</u> 5 0	ug/g	29-50E-21 29-JUL-21	0 % 25		
Schoolaters such large tiphen y	< 22050		5001215400	ug/g ug/g	29-JUL-21	0 <u>1,05</u>		
Silvengates the transfer of the same	<000250		500 925600	ugøg ugø/g	29-JUL-21	0,05		
Report revised	o upado esta ci	teria for	c onspo ar	songe/eE.	SnægtthU(Q81A			
Take (1933) (1934) (1933) (193	to up@la6e cı	iteria for	c om opoar	songe/gE.\$	Snægitbly(1091A			
Vanadium (wpethane	< 090 <u>5</u> 0		0:10.50	ug/g	29-JUL-21	0,965		
Matrix: Zind-2(₹richloroethane	<90050		0 £ 0 5 0	ug/g	29-JUL-21	2.95		
Spreiater metale ne	<0.010		0.010	ug/g	19-JUL-21	0.05		
Production of the state of the	< 9 0,9 <u>5</u> 60		99.250	A 8 %B	19=JUL=21	9:65		
Metals/ chloride L2613337-2 78ROS-BH1-SS4 Antimony (Sb)	<0.020		0.020	ug/g	19-JUL-21	0.02		
Sampled Sylen GLIENT on 12-JUL-21 @ 16:50	<0 <u>,03</u> 0 <0,030		040 3 0 04030	Ug/g Ug/g	29:JUL:21 29:JUL:21	1.3		
Arsene (AS) Mategines (Ea)IL	<9.950 <9.5050		0 ₁ 0 <u>6</u> 0	yg/g ug/g	28-90E- 2 1 28-JUL-21	#8 		
Surrogatez 4-Bromofluorobenzene	1825		5 0. 40	₩ 9 / 9	23-30L-21 28-JUL-21	2.5		
Surrogate: 1,4-Difluorobenzene	117.0 7509		50-140 0.25	ug/g ug/g	19-JHL-21	36		
Hydrovenským Volgalierolegiamierov ante ro t vids	0.30		0.10	ug/g	23-JUL-21	36		
E1-00-61 (Cd)								
Shrantim (Cr)	<0.0068		0.50		18-39E-31	0.05 0.05 0.05 0.05		
F2 (C10 C16) RHYdhdicHloromethane	<0.9000 \$10 <6050		0.9000	Hg/g	28-JUE-21	0,02		
Brotter (man)	<0.050 <0.050		0.050		18-39E-31	0.00		
F3 (C16 C34) Biomomethane	<0.050		0.050	l ÿg/g	16-JUE-21	240 0. 0 5		
Carbuttel achloride	26.933		%<u>%</u>5 €		19-111-2 1	9:83		
MAN 12 (Mo)	< 5,530				18-111-2 1	0.05		
Phomochocomethane (50	< 0 20€0		o.1090	NS Air	18 11 31	0 96 5		
Selenium (Se) Surrogate, 2-Bromobenzotrifluoride	< 9 500		<u>69¹9</u>	ĬĬŖĬġ	A CAT CAT CAT CAT CAT CAT CAT CAT CAT CA	_ 01.65		
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	< ∮£2 9	Smith	686	H 8 %€	79:50 E-21	0.65		
Polycyelle Archaire Prydrocarbons	- <0 Agecoi	nt Mana	idęj _{ożo}	Ug/g	49-JUL-21	0.05		
Acerta Children (This report s	hall not be pro	duced exce	ot in the title	out the gritter	18-14-31he	Lab 019762 y.]		
Fig. (Ca. Child) Spiritum (Cr) Brondsdichloromethane Brondsdichloromethane Brondsdichloromethane Brondsdichloromethane Brondsdichloromethane Fig. (Ca. Ca.) Brondsdichloromethane Fig. (Ca. Ca.) Brondsdichloromethane Fig. (Ca. Ca.) Brondsdichloromethane Fig. (Ca. Ca.) Brondsdichloromethane Folgen (Ca. Ca.) Brondsdichloromethane Folgen (Ca. Ca.) Fig. (Ca.) Fig	₹ 9.959		9,950		想	0,000		
Anthracene DRESS: 60 Northland	Roa ⊈(9.10) 1 1 1 1 1 1 1 1 1 1	aterloo, ON	N2979568 C	anad hon	e: 18-9 (1-86) 6	910 (j a) (j a) (j a)	19 886 9047	
	ALS CANA	NDALID Pa	rt of the ALS	roup An AL\$	S Limited Compan	у	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:



ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page **5** of 16 09-AUG-21 08:42 (MT)

CC0-22-1129						09-AUG-21 08:42 (M
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2613MointoskoBennysbimited (Vau	ghan)				Date Received	: 13-JUL-21
Sampled By: NCLOST PE on A 2-1 WH 21 @A 6:50	,				Report Date:	09-AUG-21 08:42 (MT)
Matrix 2010 Winston Park Dr					Version: #1	FINAL REV. 3
Betwie Control of the	≪001025 00		0002560	ug√g	29 -JUL-21 0.66	
Metals Didhlorgethane	<0.050		0.050	ug/g	18-JUlie/11t Pho@es 2	280-351-1546
Metals Dirich) projectione L2613337-47/8ROS-BH2-SS2 Additional timene Sampled By: CLIENT on 12-JUL-21 @ 15:30 Bestard Metallic Control of the	<01.0150		0:1050	ug/g	26-JUL-21 0.08	109-331-1340
Sampled By: "CLIENT on 12-JUL-21 @ 15:30	<02.0350		0:10:50	ug/g	19-JUL-21 0498	
Matrix: Banari (2000) Matrix: Banari (2000) Matrix: Banari (2000) Matrix: Matr	<03050		0:1050	ug/g	26-JUL-21	
	ertrfi	cate	3 000	An		
Рамондрику и de la companie ne	<9596 0	Dat	OBO080	uggg	29-JUL-21 0005	
Vol Buidian Dentor Open Protect ds	<0.080 Lab	Work (Drefer #	‡: ^u ⊉⁄ 9 261		
The Control of the Co	≪0,050 0 Ligie	ct P.O. #	000000	UD/G	26-JUL-21 0.122 SLABIMI 5 I ED 6-25	
BADISTIC PROPRIEM (See Land)	<0.0000000 E	oforono	0.00	HENG '	49-99E-21 9/92	
EHRANGERICA DATEMENES		Reference		- 5.5	2491/14291 9295	
医动物的 用和phthalene 图如例 用的比较级	≪2004540b ≪2004540b	Numbe	189:1999 189:1999	H8/8 H8/8	29:JUL:21 9:39 29:JUL:21 9:39	
Mateun Answer Mateur Mateu	endande al	Site De	sc ^{9:099}	H8/8	49=99===1 9:09 49=JUL=21 9:09	
Marsh (2064)	₹0:050		9:959	H8/8	49-90E-21 9:09 49-14E-21 9:29	
Bit Mobili loromethane	<0:090 €8:09 0		0:050 0:050	4 9 / 9	19:JUL:21 9:95	
Ballenger 25 Noroetiphenyl	< 9.2959		500050	₩ 9 /9	29:JUL:21 9:95	
\$ WART STATE THE PROPERTY OF T	₹9 98 5 9		5 90,915 90	₩ 6	29=JUL=21 8995	
L26 Table Market BH2 Seport revised to San Web Processor 12-90-21 revised to	on 5@1926 cı			song∰nÆ.S	npojeby (1224) Aug 2609261	
Sample By 640 Senzeneon 12-JUL-21 @ 15:30	on 56∤966 cı	teria for		songa∳aE.S	n ngthul@ Aug 20231).
Mat Man Broth Hollow left zette	<6668686		9:959	ug/g	29=JUL=21 9905	
Pichic+Oulflubyothlethane	< 9 9 95 9		9:959	A@/@	29=JUL=21 2:95	
Spiriture and the state of the	<0:050		9:959	H8/8	19:JUL:21 0:05	
Massing charids.	≤0.95 0		99959	₩ 9	19:49E21 9:85	
Metalish felhordet averient Metalish felhordet plane L261333624 (8ROS-BH1-SS4 CHARLES LENT on 12-JUL-21 @ 16:50 CHARLES LENT on 12-JUL-21 @ 16:50 CHARLES LA Bromofluorobenzene Surrogate: 1 4-Difluorobenzene Hydrogate: 1 4-Difluorobenzene	≤9:939 ≤9:939		9:939 9:9 3 9	₩ <u>8</u> /8	19:JUL:21 9:03 19:JUL:21 0:05	
Sampled Sylph Callen I on 12-JUL-21 @ 16:50	<8:090 <8:090		8:090 8:098	₩ 9 / 9	40 1111 04	
Mateures (Tabul)	<0.080 \$85058		8:858		\$\$=JUE=\$1 04@5 \$\$=JUE=\$1 \$2\$	
Physical Section and Physical Section 2019	₹0.055 0		50.030	ug/g ug/g	18-JUE-21 0.05	
Surrogate: 1,4-Difluorobenzene	1170 < 9509 0		50-140	u g /g	19-JUE-21 36	
Hydrocarbons Volume Olevante Composition	<0.860		00.01300	ug/g	29-JUL-21 36	
Washithio(Opi) ppene (Cis & trans)	₹ 0.590		06_08_05	H9/9	1 8= <u>1</u> 4= <u>2</u> 1 065=	
Striph more (Gr) 527 (1907) 100 (<0.000€8		0.300	HE HE		
Sign (10)	< 6 . 93 9		6.698 0.690	<u>49/9</u>		
(Territorial Control C	<€.000		0.000			
Herby 15 Mary Ketone	<0.000		0.550		28 3 520 620	
Manager Hard Control of the Control	9979150		(9)(9)(4)(9)		1 8-90E-21	
ENNAUE (1400) [Mig. B. Welfocathons. (C6-C50)	<8.6666 -016€0		9:959		Color Colo	
Caroni to passing at 1050	≥84.63 6		9:959	New just	19	
Surrection of the control of the con	<9±939 ≪00000		60-139 A) (24)		18-301-21 0:03 28-301-21 0005	
Sind Bate 19 19 19 19 19 19 19 19 19 19 19 19 19	< 97£27 Aily ≪Andaran	Smith	600 47440 40 47440	nαγα α ខ %β	19:38E:21 0:05 28-JUL-21 .012-	
Polycyclic Architic Procarbons Unantino Unantino Compania	< 0.74.6.0 01 ≤8.18 . 88	ınt Mana	19 6 1999	µg/g ug/g	19-30E-21 0:05 28-JUL-21 £265	
Ace the filter of the country of the	all n ot to 5 0 pro	duced exce	ot i 0.1030 vith	out the Fritter	1 a160 a17 a21 he Labora 29	.]
Rolling Horomethane Fig. 18 (1786) Ketone F	>0:050 20:050 30:050	aterico ON	Na sala	Henadus (B)	18-JUE-21 07093 149-140-22 6010 2293	1 519 886 9047
Anniacene Samuel Aboress. 60 Northland	ALS CANA	DA LTD Pa	rt of the ALS	anaq ueg yng non Group An ALS	E Timited Company	1 913 000 3047
** Detection Limit for regult exceeds Guideline Limi			ا ممثلمامانی		ha mada	

^{**} 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:



ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page 8 of 16 09-AUG-21 08:42 (MT)

Sample Details						09-AUG-21 08:42 (MT)
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2613 Mointosko Renzyski mited (Vau	ghan)				Date Received	l: 13-JUL-21
Sampled By: NCLOPNE on ARUWI 21 QC 6:50					Report Date:	09-AUG-21 08:42 (MT)
Matrix 2010 Winston Park Dr					Version: #1	FINAL REV. 3
Sphysion of the state of the st	<00050		0002560	u‰g	20-JUL-21 0.06	
Metals Diddelpridetheane	<0.050		0.050	ug/g	19-JUlieAt Phones	280-351-1546
L2613337-4778ROS-BH2-SS2	<01.0120		0:1050	ug/g	29-JUL-21 0.98	203 331 1340
Sampled By: CLIENT on 12-JUL-21 @ 15:30	<02080		0:080	ug/g	29-JUL-21 0498	
Metals Digital pride theme L2613337-47 / 8ROS-BH2-SS2 Red (1994)	<03050		0:050	ug/g	20-JUL-21 0.205	
Physical designation of the control		cate		t An	atysis 205	
hydrogathan du did horebenzene				ugkg	29 49 L 21 0905	
Vision នៃ ប្រាក់ ប្រាក	<0.Panb	Work (Dryggy #	#: "2/2 61	39-34-21 0366	
நூரைகாடியிலால் keis & trans)	e and pie	ct P.O. #	0.50 .6 0	Ug/g	29-JUL-21 08-52 SABMI-21 ED 97-55	
ERMINITATION HEALENES		Reference			2 491JU291 9.95	
Explicacy hthalene		Numbe		H8/8	49-30E-21 9:99	
SAMONTARY KETAGO	₹6299 0	O:4- D-	_ 69.6666 69.6666	Hā/ā	19:JUL:21 9:59	
Figure A transport of the control	e gal	Site De	(19.500) (19.500)	HQ/Q	\$9:JUL:21 0:09	
EMATERIER MO)	₹999		9:999	16/64	29:JUL:21 0:39	
British diocarbons (C6-C50)	₹9 . 9 . 9		0:000	yg/g		
SHERMAN STORY OF THE SHERMAN SHEET S	₹879 9		500,61840 600,51≈40			
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Polycyclic Aromanc Hydrosarbons revised t	O ΠΒΘΑΘΑΘΕΙΟΙ Ο ΠΒΘΑΘΑΘΕΙΟΙ	riteria for	Centage Sari	isonne⊮eE.S	in 한 한 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1	<u> </u>
Sample By Celerton 12-JUE-21 @ 15:30	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	liona ioi	8:858		19 JUL 21 9 19 19 19 19 19 19 19 19 19 19 19 19	^{''}
Mati Cenaphili Continue	₹90959					
Bhataile Caracter Share	₹9 : 959		9:959	Hg/g	18=9VE=21	
The problem of the pr	₹		6	₩ 9 /9		
Metals of the light of the ligh	₹9:929		9:959	H 9 /9	19391521 9:93	
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Material And Children Hard Material And Children	≥81.868 <0.050		8:688 0.050		25-755-21 0485 16-JUL-21 048	
Shrigene 4-Bromofluorobenzene	<0.0050 <0.250		0:10 9 0 500,93540	₫₫/₫ ឣ ₡ %Ω	49-JUL-21 2.05 29-JUL-21 2.05	
Sirengrach partibilities mebenzene	₹0,050 ₹0,750		5000	ug/g H 2 92	19-JHL-21 0.05	
Hydrocational money	₹8:95 8		8085		19-JUL-21 0.7 36 29-JUL-21 0.56	
(cis & trans)	≨05050		6505 2	Hg/g	18:4H=31 865	
Tribute (12)	<0.0000 <0.00008			Ŭ O		
RAZ (Meray maphthalenes Biblitalie) loromethane						
Carling (Carl) Ketone						
Serio (1986) Trans	\$ 100 mg					
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Portene Hand (C6-C50)	₹8.93 9		9.1959		19341531 9.93	
	>5:93 0 >8:19 6		50.050	Noghit	19 10 = 21 0908 28 10 = 21 0108	
Surrodate a faromothemyotrifluoride	< 9 ≠950	0'''	60 140		78-301-21 U.05 28-301-21 0005	
Strictate 19:44 Dichlorotoluene	`96±27 9ily ≶ (0)6430,	Smith	602P40 (D)(F140)	H8\8 ⊓ a è %a	19=301=21 0:03 29 =3 11 -21 0:12	
San the management of the state	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	uni iviana	9999	. H8/8	18-JHE-21	
Void is Constitution of the Constitution of th	1all no population of the pro	duced exce	ot in 100 100 100 With	nout the Aritter	n althorn 7-37 the Laborator	/-[
Entrange Invited Physical Phys	Roa (DAR II. W	/aterloo, ON	Na Maria	anade ahon	28-111-21 295 18-911-36 6910 18-88-	1 519 886 9047
yanaanoodo	ALS CANA	DA LTD Pa	rt of the ALS	Group An AL	S Limited Company	

^{**} 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:



ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page 5 of 16 09-AUG-21 08:42 (MT)

CC0-22-1129						09-AUG-21 08:42 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2613341CintoskoBenzysbirmited (Vau	ghan)				Date Received:	13-JUL-21
Sampled By: NCLOST TE on 124 WH 21 @ 16:50	,				Report Date:	09-AUG-21 08:42 (MT)
Matrix 2010 Winston Park Dr					Versio <u>n:</u> #1	FINAL REV. 3
2010 Winston Park Dr						
Sphysion Control of State of 	≪60(9/80)		0002560	9//a	29-JUL-21 0.06	
Melitibe Ottoministi Commounts	<0.050		0.020	ug/g ug/g	26-JUL-21 0.06 16-JUH 2 11t Pho∰ 2	00.054.4540
L2613337-4 78ROS-BH2-SS2	<0.020 <000000		0.020	ug/g	19-JUL-21 0098	89-351-1546
Sampled By: CLIENT on 12-JUL-21 @ 15:30	<020860 8		00.000008	ug/g	19-JUL-21 0495	
Metal Berthanis Gompounds L2613337-44 8ROS-BH2-SS2 Berthanis General Hersell Bulleting	<0 3050		0:050	ug/g	19-JUL-21 _ 0:95	
Physicial and the second of th		cat			alysis cos	
வருக்கும் சுழ்க்க ebenzene	<9.960	Jul	00000	uggg	29-JUL-21 0305	
A Subsection of the subsection	<0 <u>.₽50</u> b	Work (Dreff #	#: u <u>u/</u> 9261	319-314L-21 0366	
The Table of the second of the	⊿a∺n a n	t P.O. #	. 0 0 0000		29-JUL-21 08-58 SAABIMIJA ED 2005	
500 (Market Shape)					49-99 E-21 9:92	
ENANGEMENTALIS		eferenc		- 5 5	2 2011U221 0205 2011U221 0205	
Ealing Machtalone Ealing Mealth Serie	≈8:89 86 (Numbe	.rSei.6600	48/8 48/8	19:JUL:21 0:05 19:JUL:21 0:05	
File that the transport of the transport	************************	Site De	SC PROPERTY	H 8 /8	19:50EE1 0:00	
Garbûhkok abéhaséhene Garbûthas akazène	₹999		0:000	49/9	19:JUL:21 0:09	
BRIGHT SUPPOSE (C.G. -C.50)	€8 . 7		0:000	¥ 6/6	19:JUL:21 9:95	
SA COSOTO (SEGNICIO DE PROPO)	₹199 0		500.005 00	Nonemit	16-JUL-21 0:05	
SILL BOOK OF THE PROPERTY OF T	₹			U g ₩g_		
Legistic Aronance Thurse room	upolico cr				n	•
Sample By the September 15:30	ou ⊵@!@@ cr	iteria for	c e ingagear	isonge/eg=.S	nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn	•
Mat Moen aphthyle het page	₹9999 ≤0 .450		9:959 9:959			
Partification of the same	≲8.858 89.858					
BECKO STATISTICS TO STATISTICS OF THE STATIST	₹9:99		9:999			
Metalogical description of the control of the contr	₹8:888		9:959		19:50 - 21 0.06	
L26 13 13 13 13 13 13 13 13 13 13 13 13 13	₹0.0 000		9:959			
Samuel County 1 (2) Samuel	≨ 9:9€9		9:959	₩ ĕ / ĕ		
Mathematic Chloride	₹9.99		9:959	₩ ĕ / ĕ		
Physical Bromariuorobenzene Physical Bromariuorobenzene Physical Bromariuorobenzene	₹0.72		5999			
Hydrocar physics and the second secon	≥6.65 6					
Voiring to the transfer of the second of the	≨ 0 :9 5 0 < 2:05 0		909519 95959	₩ 6 /6	16 = 1 16 = 1	
Region English (CIS & trans)	Set and a					
	< 70,000 38 ≨ 85,846 6					
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Method Sprithalene						
The light of the l						
Ship in the top to an e	₹1			Ŭ ë /ë		
Totale Valencarhans (C6-C50)						
Surodate: a 12 compression of the control of the co	₹919 19		31959			
Vollegia de la composition del	₹	Smith		H S		
Polycyclic Aromatic Hydrocarbons	SHAR OL	nt Mana	981050	H8/8	49=99E=21 0.065 49=.1111=31 0.075	
Sample with the part of the second se	all ne g jaga pro	duced exce	pti ng ing sp yith	out the ritter	alengurajhe Labonary.	
Walnate Chilingentene						
Physical 34-Diffuorobenzene: 60 Northland	Roa ₫∄∄ , W ALS CANA	aterloo, ON	N STATE OF THE ALS	anad hon Group An ALS	e: 78:56:26: 6910 6:378 +1 B Limited Company	519 886 9047
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^{**} 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:



ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page 5 of 16 09-AUG-21 08:42 (MT)

Sample Details							09-AUG-21 08:42 (MT)
Grouping Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2613301CintO	skoBenzyskamited (Vau	ghan)				Date Received:	13-JUL-21
						Report Date:	09-AUG-21 08:42 (MT)
Matrix: 2010 V	OIL /inston Park Dr					Version: #1	FINAL REV. 3
	ka Gingah belan distribens B. LOH SR7 dana distribe						
ENCONTROL	decrete de mé	≪903003 00		0000000	u % /g	29-JUL-21 0256	
Melantia Gruporis L2613337-4 78	nGompounds 3RQS-BH2-SS2	< 05000		050Ø0	ug/g	19-JUlient Phones 2	89-351-1546
Sampled By. C	itimalethene LIENT on 12-JUL-21 @ 15:30	< 900,05 00 <020,05 08		0010990 0010998	ug/g ug/g	29-JUL-21 01998 29-JUL-21 01998	
Matrix:	Ricompounds BROS-BH2-SS2 throttone LENT on 12-JUL-21 @ 15:30 contemptene OIL	<0:505 0		0:050	ug/g	19-JUL-21 0495 19-JUL-21 0.95	
Phylliphylli	Son mofluorobenzene	e referi	cat		An	at vs S @ 65	
	Herebenzene	<9.590	Dat	1000000	ugyg	219=1461=121 USB5	
ANTEGORALION OF THE PROPERTY O	Piùphiquitair (d'3 ^U)	<6.080b	Work (ct P.O. #	Dregger #	: 4<u>1/9</u>61	319-314L-21 0366 20-114L-21 0868	
	Romabeaso triflanside	And pie	ct P.O. #	100 (100 (100 (100 (100 (100 (100 (100	T	20:JUL:21 08:58 SABBUL:11 ED 07:55	
	4-Dichlorotoluene	(€) (10000 F	Reference		y 7 0-	24911421 0295	
Polyeyelic Aron	Seliopletee60 Separate cariflusside 1-Dicheratoluene Horistana Horistana Horistana Horistana	≨8:285 0. €	Numbe		ug/g	19:JUL:21 9:95	
			Site Des	S Canaga	4 9/ 9	19:JUL:21 995	
	Marine Inc	₹8:65 8		6:62 0	A8/8 A8/8	19:JUL:21 0:00 19:JUL:21 0:00	
Bottle State	10000000 (C6-C50)	₹8:05 0		8:85 8	A 8/8	19:99 = 121 9:06 149:95 15:06	
	green to the control of the control	₹100 00		50.050	Noganit		
	A Displace trifluoride	₹0,000			H W		
LP6 CYCLIC ALO	And the state of t	D N ≸@i@a@ CI	iteria for	c ente nder Centender	SONGMELS	right (1994) Aug 2006 (1) Fright (1994) Aug 2006 (1)	.
Sample By Control	######################################	\$ 9 9999 CI	iteria ioi				
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Spanish Control	A PRIME				H Ö		
	MANAGER -	\$8 ,050		90939	H9/9		
L26 Bank A Sulfa	nnsnaprødene Internationals Stans)	₹ 0:05 0		0:050 0:050		19:5UE:21 9:93 19:5UE:21 9:53	
San	er Niene a trailo, er Niene a trailo, er Niene a trailo, nioroethylene	<8:090 €9:050			# 6/6		
Mat Market 1	Multene Noride	₹9:9 59		9:050	Ÿ Ŏ /Ŏ	19:191:21 9:69 19:191:21 - 2:09	
Physical Phy	Bromafluorobenzene Poparie Hilladikensehenzene	\$00,000		500,000,000 500,000,000	H H		
Hydrocathinese	or oproperie	₹8,858 ₹8,858		0,050 6,050	H a /a		
	Fluorobiphenyl Topene (cis & trans)	₹0:00 0 ₹0:00 0		5		19-9UE-21 0365	
	AG Trevet manye						
L26	Aphthalangas Graengangas						
San Methodogach	MEON 12-JUL-21 @ 15:30	\$ 35,03 0 \$ 3,53 0		90 92 9			
Mat Kon Williams	Miketone oethane	\$19.79.88 \$15.78.66		8.7898 18.7898			
Physical	ntoride bet bane	×8.1666					
	Thons (C6-C50)						
VOI PHIAIDAIN	STANTE POUR DE STOROBEN SON STANTE STOROBEN SON SON SON SON SON SON SON SON SON SO	₹198 9		3000			
	4-Bichlorotoluene	STATE	Smith			29=3日 = 21 19 (日本)	
Follower Arch	HATE HYdrocarbons	₹0.1030 ;OI ≰0.1000	nt Mana	19 81030	₩	19:38E:21 0:65 19:JUL:21 0:06	
Mat 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TO STATE OF THE PROPERTY OF TH	all na pro	duced exce _l	ot i n 10 km /ith	out the ritter	h alan he Laboratory.]	
Physical	Momofluorobenzene	Roa s Jak W	/aterloo. ON	N L L	anada Phon	e: 18 - 19 - 30 -	519 886 9047
· · · Curbulatetra c	shidiidoropenzene.	2 9.95 6, V ALS CANA	DA LTD Pa	380 (1889) Int of the ALS	Group An ALS	S Limited Company]

^{**} 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:



ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page 5 of 16 09-AUG-21 08:42 (MT)

CC0-22-1129 Sample Details Grouping Analyte Result Qualifier D.L. Units Analyzed **Guideline Limits** L2613 Maintosko Renzystamited (Vaughan) Date Received: 13-JUL-21 Report Date: Sampled By: NCLOSEN Equal 24-1144 (21) (@)(16:50 09-AUG-21 08:42 (MT) Version: Matrix: 2010 Winston Park Dr FINAL REV. 3 Uptribute Cimpholunds: bons R7 **≪Ø3108**0 (HXXH) 29-JUL-21 u‰g 0296 Metal Chipshia Genagunds
L2613337-4 78 ROS-BH2-SS2
Each Chipship of theme
Samples By CLIEN I on 12-JUL-21 @ 15:30
Matrix: Chipship action lene < 05000 050Ø0 19-JUlient Phomes 289-351-1546 ug/g < 0000000 0010990 20-JUL-21 ug/g ONORES **<02006**08 00000008 29-JUL-21 ug/g 0495 Certain 49.3050 0:050 19-JUL-21 ug/g 0.05 Physical Process uorobenzene 02055 **FX** CANCELLO TO HUDISHING TO BE THE TO B 50,500 (DADE AND CONTROL OF THE SECOND CONTROL OF THE SEC **u<u>@</u>/⊉**61 39-314L-21 10-111-21 03665 Philipping appending appending a 0A SABMITA SALE TRANSPORT OF THE PROPERTY 67**6**6 Polygonia de la composition della composition de Reference: y 60-2201/14201 **628**5 *0.000 C Numbers 0.000 Ma/a 29-JUL-21 10:JUL:21 ye/e CONTRACT OF THE PERSON OF THE Site Desc | Site Desc. | Compare | C Manager Charles 10:JUL:21 999 MB/B THE REPORT OF THE PROPERTY OF **€8:1916**8 0.000 **20:JUL:21 46/6 1.24** 10=JUL=21 0:06 16:JUL:21 **6**266 0.00 **2000** (1) \$nth LOMA Aug **200** 9:08 18:JUL:9: PA 9.00 19:44L:21 19:JUL:21 19:JUL:21 09,619 0.55 **A30**5 8102 ritten 1200 1320 141 519 886 9047

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

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



ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page 10 of 16 09-AUG-21 08-42 (MT)

CC0-22-1129	ANALII	ICAL	GUID		KEPOKI	Page 10 of 16 09-AUG-21 08:42 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed Guid	leline Limits
L2613340intoskoBenzysbimiteo		Qualifier		0.1110	Date Received: 13-JUL	
Sampled By: N.C.LOENE on A. R. JULIAN C.	. 1-					G-21 08:42 (MT)
					124	REV. 3
Matrix: 2010 Winston Park Dr						
Physical Control of the Control of t	7 ≪€395 0		(0)(0)(0)(0)	u‱g	29-JUL-21 0256	
Malana Marking Composition L26 232 L26 232 L26 232 L26 L26 L26 L26 L26 L26 L26 L26 L26 L2	< 0.50 00		05000	No.d/Ignit	10-JUII-21t Phomes 289-351-	1546
Sampled By CLIENT on 12-1UL-21 @	2 15:30			ug⁄/g	16-JUL-21 01995 16-JUL-21 01995	
Malicipal Arabelle Hydrocarbons	₹0.05 0		9020000438 9:4050	ug/g ug/g	28-JUL-21 0465 28-JUL-21 2265	
Physical design of the second	Cartes	cat		A	atysis	
San Control of the Selection	Certi	Cat				
Valuation of the contract of t	€8:1050 b	Work (DATE #	#: ug/9 61	ქჭ-ქ⊎L-21 0:#6	
Polygonia in the property of t	4000		60,00000 60,000000	Notati	20-JUL-21 0055	
Butterenters A. Dichleretellione	400000 F	ct P.O. #	(0.000000)	U W		
Polyavolic Aromatic Hydrocarbons	₹8,960) h	Reference		u 1 0-	3.55	
A CONTRACTOR OF THE PROPERTY O	₹8:898 f (Numbe	rs 9:1999 Anasia	ne <i>j</i> e	49:JUL:21	
Company of the Control of the Contr	and a	Site Des		ua/a	49-942-21 9:30 49-JUL-21 9:30	
FAIR CONTROL OF THE 	40400		0.000	M a/a	19-1UL-21 0:09	
Shirt de Constant (Constant Constant Co	€B746		0.000	H 4/ 4	19:JUL:21 9:05	
Elementarial de la page 91	₹100 0		10.050	Nonit		
LESSION	₹ 000		90000	₩ 	19:44:41 0:05	
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^{**} 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:



ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page 10 of 16 09-AUG-21 08:42 (MT)

Sample Details						09-AUG-21 08:42 (MT)
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2613 Maintosko Berryskimited (Vau	ghan)				Date Receive	ed: 13-JUL-21
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Matrix: 2010 Winston Park Dr					Version: #1	FINAL REV. 3
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Oakville, UN Lon 5R7	≪€£7025 00		0000000	u g ⊮g	29-JUL-21 029	
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^{**} 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:



ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page 19 of 16 09-AUG-21 08:42 (MT)

Sample Details								09-	AUG-21 0	3:42 (MT)
Grouping Analyte	;	Result	Qualifier	D.L.	Units	Analyzed		Guideline	Limits	
L2613361QintoskoB-B	naystamited (Vaug	ghan)				Date R	eceived:	13-JUL-21		
Sampled By: NCLOPNE of	лД Ж И Щ 231_@ (1 5 :50	-				Report		09-AUG-21		MT)
Matrix 2010 Winsto	n Park Dr					Versio	<u>n:</u> #1	FINAL REV	/. 3 	
Oakville. O	nunds bensez									
	26 -C50)	<€203 00		(0.900,000)	u ‰ g	29 -JUL-21	0296			
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^{**} 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:



ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page 19 of 16

CC0-22-1129		ANALII	IICAL	GOID		KEPOKI	Page 1 09-AUG-21 (of 16 08:42 (MT)
Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits	
	sko Rena yskimited (Va		1			Date Received:		
						Report Date:	09-AUG-21 08:42	MT)
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Samoled By	มีหัวเด้าสู่เครื่อง trifluoride <u>ไปENT on 12-JUL-21 @ 15:30</u>	₹ 0000		600(tati)	u g /g	20-JUL-21 (1)(85		
126 1352 (12 A-12	MUSEBHT-SS2	₹₩₩		012000000 0:050	ug/g ug/g	29-JUL-21 0495 29-JUL-21 295		
Sampled By: C	CIENT on 12-JUL-21 @ 19:00	<0.050 C (400)	cat			atysis		
Matrix	OIL Marie Benzene	ertifi	Lau			Med IIII W Water		
AN dersona	Manager (disco)	<6.250 b	Work (t Perenc	#: \u g/g 6	319-31-1-21 0365		
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^{**} Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

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

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

Reference Information

ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page 10 of 16

CMethods listed (if applicable): 09-AUG-21 08:42 (MT) Matrix Test Description Method Reference** Slash bles Detaids Result Qualifier Boron-HWE-Q.Reg_l153/04 (July D.L. Units Analyzed HW EXTR, EPA 6010B **Guideline Limits** Grouping Analyte B-HWS-R511-WT Date Received: 13-JUL-21 126133640intoskoBenaysbimited (26aughan) Sampled By INCLES TO A ALLE CALL COLOR COL 2010 Winston Park Dr Versioh: FINAL REV. 3 The Environmental of the Environmental (the Environmental Supply of the Environmental Supply of the Environmental (the Environmental Supply of the Environmental (the Environmental Supply of the Environmental (the Environmental Supply of the Environmental Supply of the Environmental (the Environmental Supply of the Environmental Supply of the Environmental (the Environmental Supply of the Env Certificate of the Protocol Manual Method of the Color of in the sees of the Properties of the Environmental F1-F4-H90 Calouter Work Orter # **QUARTO** 0750 E26 F1-F4 H9 F2 F1-F4 H9 H9 F1-F4 H9 ROROWA eference: The control of the co f C Numbers 29-JUL-21 yg/g eference Method for the CWS PHC. 0.206 In the state of th sum constant application sum constant and sum constant application sum application of the CWS PHC guidelines and Tolu Ethylbenzene and total Xylenes has Bit with the control of the control

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:

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

Reference Information

ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page 10 of 16

CMethods listed (if applicable): 09-AUG-21 08:42 (MT) ShafifesDetecte Matrix Test Description Method Reference*** Result Qualifier D.L. Units Analyzed Barba-BirkesOl5xioy4(\$200) BOMEXTIR: EPA 6010B_ **Guideline Limits** Date Received: 13-JUL-21

L261334C int Osko Serias seriated (20aughan)

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel Sannia British and the control of the MarixOES 010 Winston Park Dr Versioh: FINAL REV. 3 Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties under Part XV.1 of the Environmental Process - The Assessment of Properties - Processing and the processing additional and the processing and the processing and the processing and the processing additional additional and the processing additional a Consider the continue and during double statement statement and seasons and the continue an STEEDER OF THE PROPERTY OF THE Mercury Supply Specific and hydrochide that the supply specific and hydrochide the sup Ŋ'nwpers eference Method for the CWS PHC. A STEP TOY analysis of CCME Period By Stephens S Phy 0.06

Analysis conducted in accordance with the Profide Sidil-Resi/Rask/Inst/Itsd/Sorm/Cerhesus BropertyPulserties under Part XV.1 of the Environmental

Detertion Limit for result թաշցին Հրկվеկից ի imit_{th} Assessment against Guideline Limit garnot be made. Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Reference Information

ANALYTICAL GUIDELINE REPORT

L2613337 CONTD....

Page 19 of 16 09-AUG-21 08:42 (MT)

CMethods listed (if applicable): Sla Sn Ties Detade Matrix Test Description Method Reference*** Qualifier Grouping Analyte **Guideline Limits** Date Received: 13-JUL-21
Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel samples British Briti String in the property of the common and the common and the property of the common and the property of the common and the common a Note: 010 Winston Park Dr Versioh: FINAL REV. 3

Analysis conducted in accordance with the Profide Sidil-Resi/Rask/Inst/Itsd/Sorm/Cerhesus BropertyPulserties under Part XV.1 of the Environmental

^{**} Detertion Limit for result exceeds Quideline I imith Assessment egginst Quideline Limit segnot be made. ** Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:



Qualifier

Workorder: L2613337 Report Date: 09-AUG-21 Page 1 of 13

RPD

Limit

Analyzed

Units

Client: Mcintosh Perry Limited (Vaughan)

2010 Winston Park Dr Oakville, ON L6H 5R7

Matrix

Reference

Result

Contact: STEFAN HOLIK

Test

	IVIALITX	Reference	Resuit	Qualifier	Units	KFU	LIIIIII	Analyzeu
B-HWS-R511-WT	Soil							
Batch R5	528090							
WG3582010-4 Boron (B), Hot V	DUP Vater Ext.	L2613747-2 0.19	0.19		ug/g	1.4	30	23-JUL-21
WG3582010-2 Boron (B), Hot \		WT SAR4	102.1		%		70-130	23-JUL-21
WG3582010-3 Boron (B), Hot V			101.0		%		70-130	23-JUL-21
WG3582010-1 Boron (B), Hot V	MB Vater Ext.		<0.10		ug/g		0.1	23-JUL-21
CR-CR6-IC-WT	Soil							
Batch R5	525871							
WG3576223-4		WT-SQC012						
Chromium, Hex	avalent		90.9		%		70-130	20-JUL-21
WG3576223-3 Chromium, Hex	-	L2612755-3 <0.20	<0.20	RPD-NA	ug/g	N/A	35	20-JUL-21
WG3576223-2 Chromium, Hex			97.8		%		80-120	20-JUL-21
WG3576223-1 Chromium, Hex	MB avalent		<0.20		ug/g		0.2	20-JUL-21
F1-HS-511-WT	Soil							
Batch R5	524889							
WG3575896-4 F1 (C6-C10)	DUP	WG3575896- 3 <5.0	3 <5.0	RPD-NA	ug/g	N/A	30	19-JUL-21
WG3575896-2 F1 (C6-C10)	LCS		106.6		%		80-120	19-JUL-21
WG3575896-1	МВ							
F1 (C6-C10)			<5.0		ug/g		5	19-JUL-21
Surrogate: 3,4-D	Dichlorotoluene		119.3		%		60-140	19-JUL-21
WG3575896-5 F1 (C6-C10)	MS	WG3575896-3	3 118.7		%		60-140	19-JUL-21
F2-F4-511-WT	Soil							
Batch R5	524271							
WG3576240-3 F2 (C10-C16)	DUP	WG3576240 -5	5 <10	RPD-NA	ug/g	N/A	30	16-JUL-21
F3 (C16-C34)		<50	69	RPD-NA	ug/g	N/A	30	16-JUL-21
F4 (C34-C50)		54	122	J	ug/g	68	100	16-JUL-21
WG3576240-2	LCS			-				
F2 (C10-C16)	200		90.3		%		80-120	16-JUL-21



Qualifier

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RPD

Limit

Analyzed

Units

Client: Mcintosh Perry Limited (Vaughan)

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Matrix

Reference

Result

Contact: STEFAN HOLIK

Test

F2-F4-511-WT		Soil							
	524271								
WG3576240-2	LCS			00.2		%		00.400	40 1111 61
F3 (C16-C34)				89.3		%		80-120	16-JUL-21
F4 (C34-C50)				83.0		70		80-120	16-JUL-21
WG3576240-1 F2 (C10-C16)	MB			<10		ug/g		10	16-JUL-21
F3 (C16-C34)				<50		ug/g		50	16-JUL-21
F4 (C34-C50)				<50		ug/g		50	16-JUL-21
Surrogate: 2-Bro	omobenz	otrifluoride		74.8		%		60-140	16-JUL-21
WG3576240-4	MS		WG3576240-5						
F2 (C10-C16)				87.9		%		60-140	16-JUL-21
F3 (C16-C34)				93.1		%		60-140	16-JUL-21
F4 (C34-C50)				103.0		%		60-140	16-JUL-21
HG-200.2-CVAA-W	Т	Soil							
Batch R5	527992								
WG3582009-2	CRM		WT-SS-2						
Mercury (Hg)				93.0		%		70-130	23-JUL-21
WG3582009-6 Mercury (Hg)	DUP		WG3582009-5 < 0.0050	<0.0050		ua/a	N/A	40	22 1111 24
	1.00		\0.0000	<u> </u>	RPD-NA	ug/g	IN/A	40	23-JUL-21
WG3582009-3 Mercury (Hg)	LCS			98.5		%		80-120	23-JUL-21
WG3582009-1	MB								
Mercury (Hg)	-			<0.0050		mg/kg		0.005	23-JUL-21
MET-200.2-CCMS-\	wT	Soil							
	528203								
WG3582009-2	CRM		WT-SS-2						
Antimony (Sb)				103.6		%		70-130	23-JUL-21
Arsenic (As)				103.9		%		70-130	23-JUL-21
Barium (Ba)				105.0		%		70-130	23-JUL-21
Beryllium (Be)				99.6		%		70-130	23-JUL-21
Boron (B)				8.9		mg/kg		3.5-13.5	23-JUL-21
Cadmium (Cd)				104.3		%		70-130	23-JUL-21
Chromium (Cr)				99.3		%		70-130	23-JUL-21
Cobalt (Co)				100.6		%		70-130	23-JUL-21
Copper (Cu)				98.2		%		70-130	23-JUL-21
Lead (Pb)				97.8		%		70-130	23-JUL-21
Molybdenum (M	lo)			101.6		%		70-130	23-JUL-21
Ì									



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Client: Mcintosh Perry Limited (Vaughan)

2010 Winston Park Dr Oakville, ON L6H 5R7

Contact: STEFAN HOLIK

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	•	Soil							
Batch R5528	8203								
	RM		WT-SS-2	22.2		0/			
Nickel (Ni)				99.2		%		70-130	23-JUL-21
Selenium (Se)				0.13 88.1		mg/kg		0-0.34	23-JUL-21
Silver (Ag)						% ma/ka		70-130	23-JUL-21
Thallium (TI) Uranium (U)				0.076 96.0		mg/kg %			29 23-JUL-21
Vanadium (V)				103.8		%		70-130	23-JUL-21
						%		70-130	23-JUL-21
Zinc (Zn)			W0050000	96.2 -		70		70-130	23-JUL-21
WG3582009-6 D Antimony (Sb)	OUP		WG3582009- 9	0.12	RPD-NA	ug/g	N/A	30	23-JUL-21
Arsenic (As)			1.16	1.13		ug/g	2.7	30	23-JUL-21
Barium (Ba)			44.2	44.1		ug/g	0.2	40	23-JUL-21
Beryllium (Be)			0.25	0.24		ug/g	5.2	30	23-JUL-21
Boron (B)			6.4	5.7		ug/g	11	30	23-JUL-21
Cadmium (Cd)			0.042	0.047		ug/g	11	30	23-JUL-21
Chromium (Cr)			11.0	10.6		ug/g	4.3	30	23-JUL-21
Cobalt (Co)			3.57	3.46		ug/g	3.0	30	23-JUL-21
Copper (Cu)			7.13	7.55		ug/g	5.8	30	23-JUL-21
Lead (Pb)			3.17	3.13		ug/g	1.3	40	23-JUL-21
Molybdenum (Mo)			0.17	0.18		ug/g	4.8	40	23-JUL-21
Nickel (Ni)			7.04	6.95		ug/g	1.3	30	23-JUL-21
Selenium (Se)			<0.20	<0.20	RPD-NA	ug/g	N/A	30	23-JUL-21
Silver (Ag)			<0.10	<0.10	RPD-NA	ug/g	N/A	40	23-JUL-21
Thallium (TI)			0.069	0.060		ug/g	14	30	23-JUL-21
Uranium (U)			1.59	1.57		ug/g	1.4	30	23-JUL-21
Vanadium (V)			20.0	19.3		ug/g	3.7	30	23-JUL-21
Zinc (Zn)			21.1	21.1		ug/g	0.2	30	23-JUL-21
WG3582009-4 L	.cs								
Antimony (Sb)				102.5		%		80-120	23-JUL-21
Arsenic (As)				104.6		%		80-120	23-JUL-21
Barium (Ba)				103.8		%		80-120	23-JUL-21
Beryllium (Be)				96.7		%		80-120	23-JUL-21
Boron (B)				92.9		%		80-120	23-JUL-21
Cadmium (Cd)				100.5		%		80-120	23-JUL-21



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Client: Mcintosh Perry Limited (Vaughan)

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Contact: STEFAN HOLIK

MET-200.2-CCMS-WT Batch R5528203 WG3582009-4 LCS Chromium (Cr) Cobalt (Co) Copper (Cu)	Soil	100.9 101.8	0.		
WG3582009-4 LCS Chromium (Cr) Cobalt (Co)			0/		
Chromium (Cr) Cobalt (Co)			0.4		
Cobalt (Co)				00.400	00 1111 04
		101.0	%	80-120	23-JUL-21
Copper (Cu)			%	80-120	23-JUL-21
		98.9 99.2		80-120	23-JUL-21
Lead (Pb)			%	80-120	23-JUL-21
Molybdenum (Mo)		103.0	%	80-120	23-JUL-21
Nickel (Ni)		99.95	%	80-120	23-JUL-21
Selenium (Se)		101.4	%	80-120	23-JUL-21
Silver (Ag)		102.3	%	80-120	23-JUL-21
Thallium (TI)		99.1	%	80-120	23-JUL-21
Uranium (U)		101.5	%	80-120	23-JUL-21
Vanadium (V)		105.1	%	80-120	23-JUL-21
Zinc (Zn)		99.95	%	80-120	23-JUL-21
WG3582009-1 MB Antimony (Sb)		<0.10	mg/kg	0.1	23-JUL-21
Arsenic (As)		<0.10	mg/kg	0.1	23-JUL-21
Barium (Ba)		<0.50	mg/kg	0.5	23-JUL-21
Beryllium (Be)		<0.10	mg/kg	0.1	23-JUL-21
Boron (B)		<5.0	mg/kg	5	23-JUL-21
Cadmium (Cd)		<0.020	mg/kg	0.02	23-JUL-21
Chromium (Cr)		<0.50	mg/kg	0.5	23-JUL-21
Cobalt (Co)		<0.10	mg/kg	0.1	23-JUL-21
Copper (Cu)		<0.50	mg/kg	0.5	23-JUL-21
Lead (Pb)		<0.50	mg/kg	0.5	23-JUL-21
Molybdenum (Mo)		<0.10	mg/kg	0.1	23-JUL-21
Nickel (Ni)		<0.50	mg/kg	0.5	23-JUL-21
Selenium (Se)		<0.20	mg/kg	0.2	23-JUL-21
Silver (Ag)		<0.10	mg/kg	0.1	23-JUL-21
Thallium (TI)		<0.050	mg/kg	0.05	23-JUL-21
Uranium (U)		<0.050	mg/kg	0.05	23-JUL-21
Vanadium (V)		<0.20	mg/kg	0.2	23-JUL-21
Zinc (Zn)		<2.0	mg/kg	2	23-JUL-21

MOISTURE-WT Soil



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Client: Mcintosh Perry Limited (Vaughan)

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT	Soil							
Batch R5521776								
WG3576048-3 DUP % Moisture		L2614031-1	6.44		0/	0.5	00	45 1111 6:
		5.91	6.44		%	8.5	20	15-JUL-21
WG3576048-2 LCS % Moisture			99.2		%		90-110	15-JUL-21
WG3576048-1 MB % Moisture			<0.25		%		0.25	15-JUL-21
PAH-511-WT	Soil							
Batch R5523417								
WG3576221-3 DUP		WG3576221-5 <0.030	<0.030	DDD NA		N1/A	40	40 1111 04
1-Methylnaphthalene				RPD-NA	ug/g	N/A	40	16-JUL-21
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	16-JUL-21
Acenaphtheles		<0.050	<0.050	RPD-NA	ug/g	N/A	40	16-JUL-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	16-JUL-21
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	16-JUL-21
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g ,	N/A	40	16-JUL-21
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g ,	N/A	40	16-JUL-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	16-JUL-21
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	16-JUL-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	16-JUL-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	16-JUL-21
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	16-JUL-21
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	16-JUL-21
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	16-JUL-21
Indeno(1,2,3-cd)pyrene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	16-JUL-21
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	16-JUL-21
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	16-JUL-21
Pyrene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	16-JUL-21
WG3576221-2 LCS 1-Methylnaphthalene			93.0		%		50-140	16-JUL-21
2-Methylnaphthalene			88.8		%		50-140	16-JUL-21
Acenaphthene			87.7		%		50-140	16-JUL-21
Acenaphthylene			81.8		%		50-140	16-JUL-21
Anthracene			77.8		%		50-140	16-JUL-21
Benzo(a)anthracene			88.4		%		50-140	16-JUL-21
Benzo(a)pyrene			75.5		%		50-140	16-JUL-21
201120(a)py10110			. 0.0		,,		JU-14U	10-30L-21



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Client: Mcintosh Perry Limited (Vaughan)

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5523417								
WG3576221-2 LCS			77.0		0/			
Benzo(b&j)fluoranthene			77.6		%		50-140	16-JUL-21
Benzo(g,h,i)perylene			76.2		%		50-140	16-JUL-21
Benzo(k)fluoranthene			90.9		%		50-140	16-JUL-21
Chrysene			93.8		%		50-140	16-JUL-21
Dibenz(a,h)anthracene			81.5		%		50-140	16-JUL-21
Fluoranthene			85.5		%		50-140	16-JUL-21
Fluorene			80.7		%		50-140	16-JUL-21
Indeno(1,2,3-cd)pyrene			77.4		%		50-140	16-JUL-21
Naphthalene			88.2		%		50-140	16-JUL-21
Phenanthrene			90.9		%		50-140	16-JUL-21
Pyrene			87.5		%		50-140	16-JUL-21
WG3576221-1 MB 1-Methylnaphthalene			<0.030		ug/g		0.03	16-JUL-21
2-Methylnaphthalene			<0.030		ug/g		0.03	16-JUL-21
Acenaphthene			< 0.050		ug/g		0.05	16-JUL-21
Acenaphthylene			<0.050		ug/g		0.05	16-JUL-21
Anthracene			<0.050		ug/g		0.05	16-JUL-21
Benzo(a)anthracene			<0.050		ug/g		0.05	16-JUL-21
Benzo(a)pyrene			<0.050		ug/g		0.05	16-JUL-21
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	16-JUL-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	16-JUL-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	16-JUL-21
Chrysene			<0.050		ug/g		0.05	16-JUL-21
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	16-JUL-21
Fluoranthene			<0.050		ug/g		0.05	16-JUL-21
Fluorene			<0.050		ug/g		0.05	16-JUL-21
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	16-JUL-21
Naphthalene			<0.013		ug/g		0.013	16-JUL-21
Phenanthrene			<0.046		ug/g		0.046	16-JUL-21
Pyrene			<0.050		ug/g		0.05	16-JUL-21
Surrogate: 2-Fluorobiphe	enyl		83.2		%		50-140	16-JUL-21
Surrogate: d14-Terpheny	/l		83.9		%		50-140	16-JUL-21
WG3576221-4 MS 1-Methylnaphthalene		WG3576221-5	94.3		%		50-140	16-JUL-21



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5523417								
WG3576221-4 MS		WG3576221-						
2-Methylnaphthalene			91.3		%		50-140	16-JUL-21
Acenaphthene			89.3		%		50-140	16-JUL-21
Acenaphthylene			80.0		%		50-140	16-JUL-21
Anthracene			80.3		%		50-140	16-JUL-21
Benzo(a)anthracene			90.7		%		50-140	16-JUL-21
Benzo(a)pyrene			75.8		%		50-140	16-JUL-21
Benzo(b&j)fluoranthene			79.0		%		50-140	16-JUL-21
Benzo(g,h,i)perylene			81.9		%		50-140	16-JUL-21
Benzo(k)fluoranthene			90.0		%		50-140	16-JUL-21
Chrysene			95.3		%		50-140	16-JUL-21
Dibenz(a,h)anthracene			81.4		%		50-140	16-JUL-21
Fluoranthene			91.6		%		50-140	16-JUL-21
Fluorene			83.4		%		50-140	16-JUL-21
Indeno(1,2,3-cd)pyrene			79.6		%		50-140	16-JUL-21
Naphthalene			90.0		%		50-140	16-JUL-21
Phenanthrene			93.0		%		50-140	16-JUL-21
Pyrene			91.9		%		50-140	16-JUL-21
PSA-MUST-SK	Soil							
Batch R5529503								
WG3583688-1 DUP		L2613337-9	74.0		0/		_	
MUST PSA % > 75um		76.7	74.9	J	%	1.8	5	26-JUL-21
WG3583688-2 IRM MUST PSA % > 75um		2020-PSA_S	OIL 42.0		%		37.9-47.9	26-JUL-21
VOC-511-HS-WT	Soil							
Batch R5524889								
WG3575896-4 DUP		WG3575896-			,			
1,1,1,2-Tetrachloroethar		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
1,1,2,2-Tetrachloroethar	ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
1,1-Dichloroethane		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
1,1-Dichloroethylene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
1,2-Dibromoethane		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21



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Client: Mcintosh Perry Limited (Vaughan)

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Contact: STEFAN HOLIK

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5524889								
WG3575896-4 DUP		WG3575896-			,			
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g ,	N/A	40	19-JUL-21
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	19-JUL-21
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	19-JUL-21
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
cis-1,2-Dichloroethylene	е	<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
cis-1,3-Dichloropropene	Э	<0.030	<0.030	RPD-NA	ug/g	N/A	40	19-JUL-21
Dibromochloromethane)	<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
Dichlorodifluoromethan	е	<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	19-JUL-21
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
Methylene Chloride		< 0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
MTBE		< 0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
m+p-Xylenes		< 0.030	<0.030	RPD-NA	ug/g	N/A	40	19-JUL-21
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	19-JUL-21
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	19-JUL-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-JUL-21
Styrene		< 0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	19-JUL-21
trans-1,2-Dichloroethyle	ene	<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
trans-1,3-Dichloroprope	ene	<0.030	<0.030	RPD-NA	ug/g	N/A	40	19-JUL-21
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	19-JUL-21
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-JUL-21
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-JUL-21
WG3575896-2 LCS								



Workorder: L2613337 Report Date: 09-AUG-21 Page 9 of 13

Client: Mcintosh Perry Limited (Vaughan)

2010 Winston Park Dr Oakville, ON L6H 5R7

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5524	889							
WG3575896-2 LC 1,1,1,2-Tetrachloro			100.9		%		00.400	40 1111 04
1,1,2,2-Tetrachloro			97.4		%		60-130	19-JUL-21
1,1,1-Trichloroethar			101.5		%		60-130	19-JUL-21
1,1,2-Trichloroethar			97.3		%		60-130	19-JUL-21 19-JUL-21
1,1-Dichloroethane	ie		102.5		%		60-130 60-130	19-JUL-21
1,1-Dichloroethylen	۵		102.5		%		60-130	19-JUL-21
1,2-Dibromoethane			93.7		%		70-130	
1,2-Dichlorobenzen			105.9		%			19-JUL-21
1,2-Dichloroethane	C		87.0		%		70-130 60-130	19-JUL-21 19-JUL-21
1,2-Dichloropropand	۵		100.5		%		70-130	19-JUL-21
1,3-Dichlorobenzen			112.2		%		70-130 70-130	19-JUL-21
1,4-Dichlorobenzen			111.2		%		70-130	19-JUL-21
Acetone	C		93.0		%		60-140	19-JUL-21
Benzene			100.4		%		70-130	19-JUL-21
Bromodichlorometh	ane		103.2		%		50-140	19-JUL-21
Bromoform			93.6		%		70-130	19-JUL-21
Bromomethane			86.4		%		50-140	19-JUL-21
Carbon tetrachloride	e		100.5		%		70-130	19-JUL-21
Chlorobenzene			106.4		%		70-130	19-JUL-21
Chloroform			98.6		%		70-130	19-JUL-21
cis-1,2-Dichloroethy	/lene		100.3		%		70-130	19-JUL-21
cis-1,3-Dichloroprop			103.6		%		70-130	19-JUL-21
Dibromochlorometh			94.3		%		60-130	19-JUL-21
Dichlorodifluoromet	hane		48.2	MES	%		50-140	19-JUL-21
Ethylbenzene			111.3		%		70-130	19-JUL-21
n-Hexane			99.9		%		70-130	19-JUL-21
Methylene Chloride			91.9		%		70-130	19-JUL-21
MTBE			105.5		%		70-130	19-JUL-21
m+p-Xylenes			111.5		%		70-130	19-JUL-21
Methyl Ethyl Ketone	•		90.9		%		60-140	19-JUL-21
Methyl Isobutyl Keto			95.4		%		60-140	19-JUL-21
o-Xylene			109.0		%		70-130	19-JUL-21
Styrene			106.8		%		70-130	19-JUL-21



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Client: Mcintosh Perry Limited (Vaughan)

2010 Winston Park Dr Oakville, ON L6H 5R7

No. Social	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
Tetrachioroethylene 110.6 % 60-130 19-JUL-21 17-19-19-19-19-19-19-19-19-19-19-19-19-19-	VOC-511-HS-WT	Soil							
Tetachloroethylene 110.6 % 60-130 19-JUL-21 Toluene 107.9 % 70-130 19-JUL-21 trans-1.2-Dichloroethylene 107.9 % 60-130 19-JUL-21 trans-1.3-Dichloropropene 103.0 % 60-130 19-JUL-21 Trichloroethylene 102.5 % 60-130 19-JUL-21 Trichloroethylene 102.5 % 60-140 19-JUL-21 Trichloroethylene 77.2 % 60-140 19-JUL-21 WG3575986-1 MB)							
Toluene 107.9 % 70.130 19.JUL-21 trans-1,2-Dichloroethylene 107.9 % 60.130 19.JUL-21 trans-1,3-Dichloroptopene 103.0 % 70.130 19.JUL-21 trans-1,3-Dichloroptopene 102.5 % 60.130 19.JUL-21 Trichloroethylene 102.5 % 60.130 19.JUL-21 Trichloroethylene 102.5 % 60.130 19.JUL-21 Trichloroethylene 89.4 % 50.140 19.JUL-21 Trichlorofluoromethane 89.4 % 50.140 19.JUL-21 Wigh chloride 77.2 % 60.140 19.JUL-21 Wigh chloride 77.2 % 60.140 19.JUL-21 11.12.2-Testachloroethane 40.050 49/g 0.05 19.JUL-21 11.12.2-Testachloroethane 40.050 49/g 0.05 19.JUL-21 11.12.2-Testachloroethane 40.050 49/g 0.05 19.JUL-21 11.12-Trichloroethane 40.050 49/g 0.05 19.JUL-21 11.12-Trichloroethane 40.050 49/g 0.05 19.JUL-21 11.12-Dichloroethane 40.050 49/g 0.05 19.JUL-21 11.12-Dichloroethane 40.050 49/g 0.05 19.JUL-21 11.12-Dichloroethane 40.050 49/g 0.05 19.JUL-21 11.2-Dichloroethylene 40.050 49/g 0.05 19.JUL-21 11.2-Dichloroethylene 40.050 49/g 0.05 19.JUL-21 11.2-Dichloroethane 40.050 49/g 0.05 19.JUL-21 11.2-Dichloroethylene 40.050 49/g 0.05 19.JUL				110.6		0/		00.400	40 1111 04
trans-1,2-Dichloroethylene 107.9 % 60-130 19-JUL-21 trans-1,3-Dichloropropene 103.0 % 70-130 19-JUL-21 Trichloroethylene 102.5 % 60-130 19-JUL-21 Trichloroethylene 102.5 % 60-130 19-JUL-21 Trichloroethylene 77.2 % 60-140 19-JUL-21 Vinyl chloride 89.4 %	-								
trans-1,3-Dichloropropene 103.0 % 70-130 19-JUL-21 Trichloroethylene 102.5 % 60-130 19-JUL-21 Trichloroethylene 89.4 % 50-140 19-JUL-21 Virlyl chloride 77.2 % 60-140 19-JUL-21 WG3575896-1 MB 1.1,1.2-Tetrachloroethane <0.050									
Trichloroethylene 102.5 % 60-130 19-JUL-21 Trichlorofluoromethane 89.4 % 50-140 19-JUL-21 Vinyl chloride 77.2 % 60-140 19-JUL-21 WG375898-1 MB 11.11,2-Tetrachloroethane <0.050	•								
Trichlorofluoromethane 89.4 % 50.140 19-JUL-21 Vinyl chloride 77.2 % 60-140 19-JUL-21 WG3575896-1 MB		ene							
Vinyl chloride 77.2 % 60-140 19-JUL-21 WG3575896-1 MB 1.1,1.2° Tetrachloroethane <0.050	•								
WG3575896-1 MB 1.1,1,2-Tetrachloroethane <0.050 ug/g 0.05 19-JUL-21 1.1,1,2-Tetrachloroethane <0.050)							
1,1,1,2-Tetrachloroethane <0.050	•			77.2		%		60-140	19-JUL-21
1,1,2,2-Tetrachloroethane <0.050		ane		<0.050		ug/g		0.05	19-JUL-21
1,1,1-Trichloroethane <0.050	1,1,2,2-Tetrachloroetha	ane		< 0.050				0.05	
1,1,2-Trichloroethane <0.050	1,1,1-Trichloroethane			< 0.050		ug/g		0.05	
1,1-Dichloroethane <0.050	1,1,2-Trichloroethane			<0.050		ug/g		0.05	
1,2-Dibromoethane <0.050	1,1-Dichloroethane			< 0.050		ug/g		0.05	
1,2-Dichlorobenzene <0.050	1,1-Dichloroethylene			< 0.050		ug/g		0.05	19-JUL-21
1,2-Dichloroethane <0.050	1,2-Dibromoethane			< 0.050		ug/g		0.05	19-JUL-21
1,2-Dichloropropane <0.050	1,2-Dichlorobenzene			< 0.050		ug/g		0.05	19-JUL-21
1,3-Dichlorobenzene <0.050	1,2-Dichloroethane			< 0.050		ug/g		0.05	19-JUL-21
1,4-Dichlorobenzene <0.050	1,2-Dichloropropane			< 0.050		ug/g		0.05	19-JUL-21
Acetone <0.50	1,3-Dichlorobenzene			< 0.050		ug/g		0.05	19-JUL-21
Benzene <0.0068 ug/g 0.0068 19-JUL-21 Bromodichloromethane <0.050	1,4-Dichlorobenzene			<0.050		ug/g		0.05	19-JUL-21
Bromodichloromethane <0.050 ug/g 0.05 19-JUL-21 Bromoform <0.050	Acetone			<0.50		ug/g		0.5	19-JUL-21
Bromoform <0.050 ug/g 0.05 19-JUL-21 Bromomethane <0.050	Benzene			<0.0068		ug/g		0.0068	19-JUL-21
Bromomethane <0.050 ug/g 0.05 19-JUL-21 Carbon tetrachloride <0.050	Bromodichloromethane	e		< 0.050		ug/g		0.05	19-JUL-21
Carbon tetrachloride <0.050 ug/g 0.05 19-JUL-21 Chlorobenzene <0.050	Bromoform			< 0.050		ug/g		0.05	19-JUL-21
Chlorobenzene <0.050	Bromomethane			< 0.050		ug/g		0.05	19-JUL-21
Chloroform <0.050	Carbon tetrachloride			< 0.050		ug/g		0.05	19-JUL-21
cis-1,2-Dichloroethylene <0.050	Chlorobenzene			< 0.050		ug/g		0.05	19-JUL-21
cis-1,3-Dichloropropene <0.030	Chloroform			< 0.050		ug/g		0.05	19-JUL-21
Dibromochloromethane <0.050 ug/g 0.05 19-JUL-21 Dichlorodifluoromethane <0.050	cis-1,2-Dichloroethylen	е		< 0.050		ug/g		0.05	19-JUL-21
Dichlorodifluoromethane <0.050 ug/g 0.05 19-JUL-21 Ethylbenzene <0.018	cis-1,3-Dichloropropen	е		<0.030		ug/g		0.03	19-JUL-21
Ethylbenzene <0.018 ug/g 0.018 19-JUL-21	Dibromochloromethane	е		< 0.050		ug/g		0.05	19-JUL-21
•	Dichlorodifluoromethar	ne		<0.050		ug/g		0.05	19-JUL-21
n-Hexane <0.050 ug/g 0.05 19-JUL-21	Ethylbenzene			<0.018		ug/g		0.018	19-JUL-21
	n-Hexane			< 0.050		ug/g		0.05	19-JUL-21



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Client: Mcintosh Perry Limited (Vaughan)

2010 Winston Park Dr Oakville, ON L6H 5R7

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R552488	9							
WG3575896-1 MB Methylene Chloride			<0.050		ua/a		0.05	40 1111 04
MTBE			<0.050		ug/g		0.05	19-JUL-21
			<0.030		ug/g		0.03	19-JUL-21
m+p-Xylenes Methyl Ethyl Ketone			<0.50		ug/g		0.03	19-JUL-21
	,				ug/g		0.5	19-JUL-21
Methyl Isobutyl Ketone	,		<0.50		ug/g		0.02	19-JUL-21
o-Xylene			<0.020		ug/g		0.02	19-JUL-21
Styrene			<0.050		ug/g			19-JUL-21
Tetrachloroethylene			<0.050		ug/g		0.05	19-JUL-21
Toluene	dono		<0.080		ug/g		0.08	19-JUL-21
trans-1,2-Dichloroethy			<0.050		ug/g		0.05	19-JUL-21
trans-1,3-Dichloroprop	pene		<0.030		ug/g		0.03	19-JUL-21
Trichloroethylene	_		<0.010		ug/g		0.01	19-JUL-21
Trichlorofluoromethan	е		<0.050		ug/g		0.05	19-JUL-21
Vinyl chloride			<0.020		ug/g		0.02	19-JUL-21
Surrogate: 1,4-Difluor			114.9		%		50-140	19-JUL-21
Surrogate: 4-Bromoflu	iorobenzene		111.0		%		50-140	19-JUL-21
WG3575896-5 MS 1,1,1,2-Tetrachloroeth	ane	WG3575896-3	113.1		%		50-140	19-JUL-21
1,1,2,2-Tetrachloroeth			120.9		%		50-140	19-JUL-21
1,1,1-Trichloroethane	iano		110.0		%		50-140	19-JUL-21
1,1,2-Trichloroethane			115.8		%		50-140	19-JUL-21
1,1-Dichloroethane			115.3		%		50-140	19-JUL-21
1,1-Dichloroethylene			114.6		%		50-140	19-JUL-21
1,2-Dibromoethane			112.9		%		50-140	19-JUL-21
1,2-Dichlorobenzene			114.4		%		50-140	19-JUL-21
1,2-Dichloroethane			104.4		%		50-140	19-JUL-21
1,2-Dichloropropane			115.2		%		50-140	19-JUL-21
1.3-Dichlorobenzene			122.1		%		50-140	19-JUL-21
1,4-Dichlorobenzene			121.8		%		50-140	19-JUL-21
Acetone			118.7		%		50-140	19-JUL-21
Benzene			112.7		%		50-140	19-JUL-21
Bromodichloromethan	e		119.2		%		50-140	19-JUL-21
Bromoform	-		113.1		%		50-140	19-JUL-21
Bromomethane			107.4		%		50-140	19-JUL-21
Diomonioni			101.4		,,		30-140	19-JUL-21



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Client: Mcintosh Perry Limited (Vaughan)

2010 Winston Park Dr Oakville, ON L6H 5R7

est	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5524889								
WG3575896-5 MS		WG3575896-3						
Carbon tetrachloride			108.0		%		50-140	19-JUL-21
Chlorobenzene			118.1		%		50-140	19-JUL-21
Chloroform			111.1		%		50-140	19-JUL-21
cis-1,2-Dichloroethylene			114.3		%		50-140	19-JUL-21
cis-1,3-Dichloropropene			118.4		%		50-140	19-JUL-21
Dibromochloromethane			110.2		%		50-140	19-JUL-21
Dichlorodifluoromethane			89.7		%		50-140	19-JUL-21
Ethylbenzene			119.3		%		50-140	19-JUL-21
n-Hexane			113.8		%		50-140	19-JUL-21
Methylene Chloride			107.9		%		50-140	19-JUL-21
MTBE			121.5		%		50-140	19-JUL-21
m+p-Xylenes			119.6		%		50-140	19-JUL-21
Methyl Ethyl Ketone			111.2		%		50-140	19-JUL-21
Methyl Isobutyl Ketone			121.6		%		50-140	19-JUL-21
o-Xylene			118.8		%		50-140	19-JUL-21
Styrene			119.3		%		50-140	19-JUL-21
Tetrachloroethylene			116.1		%		50-140	19-JUL-21
Toluene			117.2		%		50-140	19-JUL-21
trans-1,2-Dichloroethyler	ne		119.6		%		50-140	19-JUL-21
trans-1,3-Dichloroproper	ne		118.4		%		50-140	19-JUL-21
Trichloroethylene			110.8		%		50-140	19-JUL-21
Trichlorofluoromethane			104.7		%		50-140	19-JUL-21
Vinyl chloride			100.2		%		50-140	19-JUL-21

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Client: Mcintosh Perry Limited (Vaughan) Page 13 of 13

2010 Winston Park Dr Oakville, ON L6H 5R7

Contact: STEFAN HOLIK

Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate

RPD Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample SRM Standard Reference Material

MS Matrix Spike

MSD Matrix Spike Duplicate

ADE Average Desorption Efficiency

MB Method Blank

IRM Internal Reference Material
 CRM Certified Reference Material
 CCV Continuing Calibration Verification
 CVS Calibration Verification Standard
 LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

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

Hold Time Exceedances:

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

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

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

ALS Laboratory Group

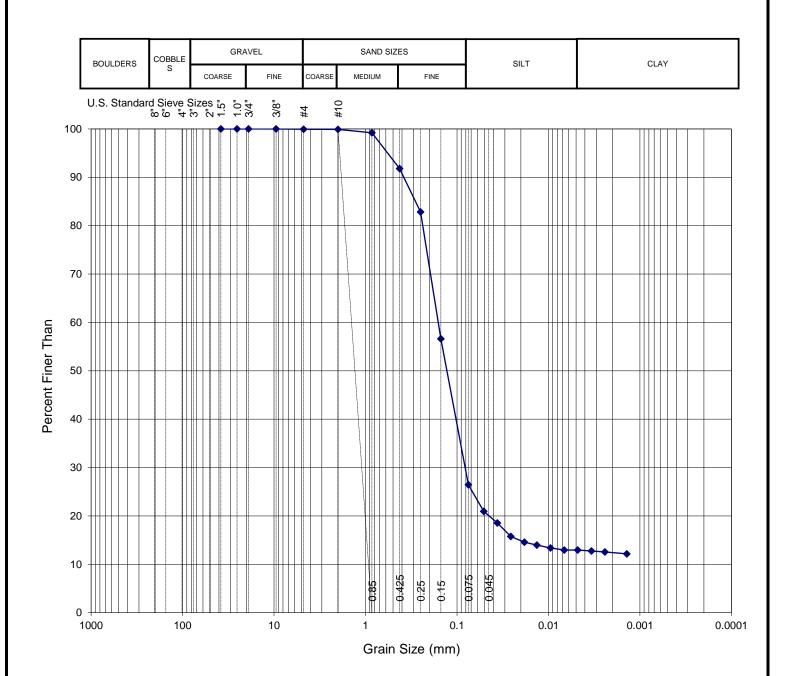
819-58th Street, Saskatoon,SK

PARTICLE SIZE DISTRIBUTION CURVE

Client Name: Mcintosh Perry Limited (Vaughan)

Project Number:

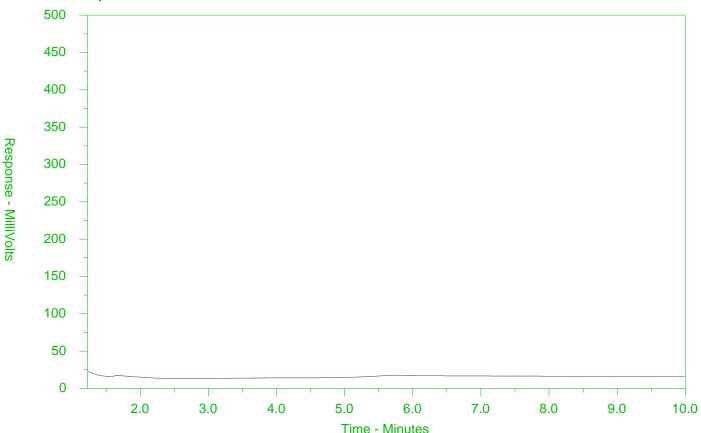
Client Sample ID 78R05-BH1-SS2
Lab Sample ID L2613337-9
Date Sample Received 13-Jul-21
Test Completion Date: 22-Jul-21
Analyst: SIH



METHOD DESCRIPTION	SUMMARY OF RESULTS						
Method Reference: ASTM D 422 - 63 (2002)	GRAIN SIZE	WT %	DIA. RANGE (mm)				
Dispersion method: Mechanical	% GRAVEL :	<1	> 4.75				
Dispesion period: 1 minute cm/s	% COARSE SAND :	<1	2.0 - 4.75				
Soil classification system used: ASTM D422-63 Classification			0.425 - 2.0 0.075 - 0.425				
DESCRIPTION OF SAND AND GRAVEL PARTICLES	% SILT :	13.46	0.075 - 0.005				
Shape: Angular	% CLAY:	12.97	< 0.005				
Hardness: Hard							



ALS Sample ID: L2613337-2 Client Sample ID: 78R05-BH1-SS4



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

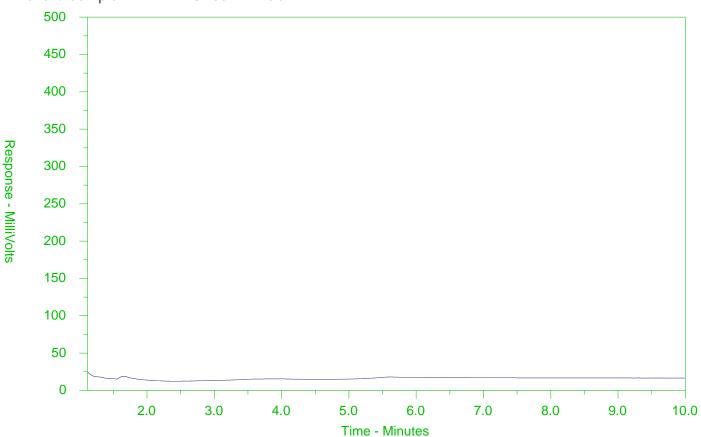
The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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.



ALS Sample ID: L2613337-4 Client Sample ID: 78R05-BH2-SS2



← -F2-	→ ←	—F3—→ ← F4—	>					
nC10	nC16	nC34	nC50					
174°C	287°C	481°C	575°C					
346°F	549°F	898°F	1067⁰F					
Gasolin	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.

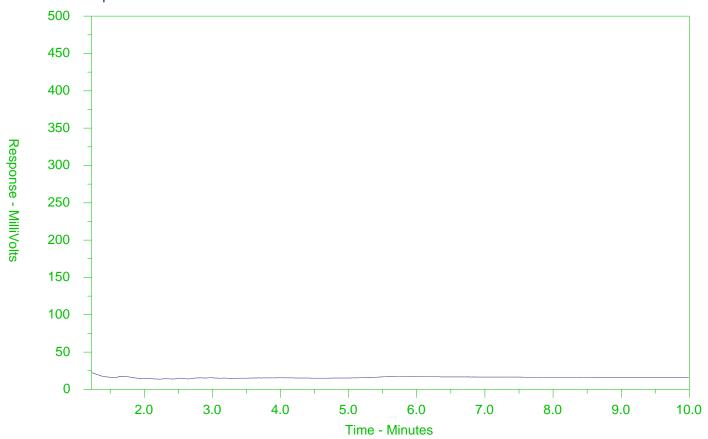
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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.



ALS Sample ID: L2613337-5

Client Sample ID: 78R05-BH2-SS2-DUP



← -F2-	→ ←	—F3—→ ← F4—	>
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067⁰F
Gasolin	e →	← Mot	or Oils/Lube Oils/Grease
←	-Diesel/J	et Fuels→	

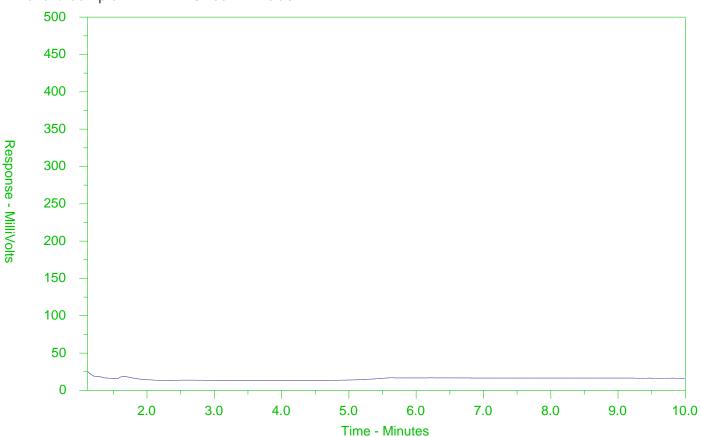
The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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.



ALS Sample ID: L2613337-6 Client Sample ID: 78R05-BH2-SS3



← -F2-	→←	—F3—→ ← —F4—	>
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067⁰F
Gasolin	e →	← Mot	or Oils/Lube Oils/Grease
←	-Diesel/Je	t Fuels→	

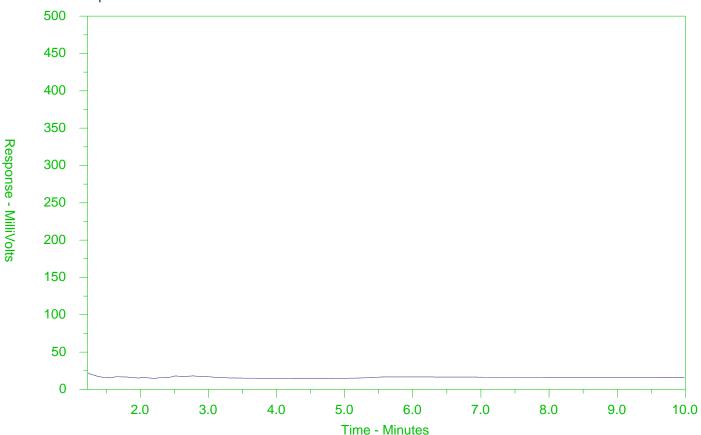
The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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.



ALS Sample ID: L2613337-8 Client Sample ID: 78R05-BH3-SS4



← -F2-	→ ←	—F3—→ ← —F4—	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ıe →	← Mot	or Oils/Lube Oils/Grease——	
←	-Diesel/Je	t 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.

ALS) Enu

Chain of Custody (COC) / Analytical Request Form

L2613337-COFC

COC Number: 17 -

age of

S) Environmental Canada Toll Free: 1 800 668 9878

	www.alsglobal.com		D 4 F	/ Distribution		T T	Salact	Sorvic	o Lev	el Belo	w - Co	ntact v	our AN	to co	nfirm a	III E&P	TATs (s	surcha	raes m	ay apply	, ,
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McIntosh Perry Engineering Consultants

(Ottawa)

ATTN: Stefan Holik

115 Walgreen Road, R.R. 3

Carp ON KOA1LO

Date Received: 23-JUL-21

Report Date: 15-AUG-21 19:44 (MT)

Version: FINAL REV. 3

Client Phone: 613-903-5785

Certificate of Analysis

Lab Work Order #: L2618106

Project P.O. #: NOT SUBMITTED

Job Reference: CCO-22-1129

C of C Numbers: Legal Site Desc:

Comments: Report revised to update criteria for comparison - E. Smith (08 Aug 2021).

Emily Smith Account Manager

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

ADDRESS: 190 Colonnade Road, Unit 7, Ottawa, ON K2E 7J5 Canada | Phone: +1 613 225 8279 | Fax: +1 613 225 2801

ALS CANADA LTD Part of the ALS Group An ALS Limited Company





L2618106 CONTD.... Page 2 of 15 15-AUG-21 19:44 (MT)

CCO-22-1	129
Sample	Det

Sample Detai		Б	0	D :				0.11	
Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guideline Limits	
L2618106-1	78 ROS-BH1(MW)								
Sampled By:	CLIENT on 23-JUL-21 @ 12:25								
Matrix:	WATER						#1		
Dissolved Me	etals								
Dissolved	Mercury Filtration Location	FIELD			No Unit	30-JUL-21			
	Metals Filtration Location	FIELD			No Unit	29-JUL-21			
	(Sb)-Dissolved	<1.0	PDM	1.0	ug/L	29-JUL-21	20000		
-	s)-Dissolved	<1.0	PDM	1.0	ug/L	29-JUL-21	1900		
	a)-Dissolved	174	PDM	1.0	ug/L	29-JUL-21	29000		
	(Be)-Dissolved	<1.0	PDM	1.0	ug/L	29-JUL-21	67		
Boron (B)-	` '	<100	PDM	100	ug/L	29-JUL-21	45000		
` ,	(Cd)-Dissolved	<0.050	PDM	0.050	ug/L	29-JUL-21	2.7		
Chromium	(Cr)-Dissolved	<5.0	PDM	5.0	ug/L	29-JUL-21	810		
	o)-Dissolved	1.2	PDM	1.0	ug/L	29-JUL-21	66		
	u)-Dissolved	<2.0	PDM	2.0	ug/L	29-JUL-21	87		
Lead (Pb)-	-	4.76	PDM	0.50	ug/L	29-JUL-21	25		
	lg)-Dissolved	<0.0050		0.0050	ug/L	30-JUL-21	0.29		
	um (Mo)-Dissolved	7.18	PDM	0.50	ug/L	29-JUL-21	9200		
Nickel (Ni)	-Dissolved	<5.0	PDM	5.0	ug/L	29-JUL-21	490		
Selenium	(Se)-Dissolved	1.11	PDM	0.50	ug/L	29-JUL-21	63		
Silver (Ag)	-Dissolved	< 0.50	PDM	0.50	ug/L	29-JUL-21	1.5		
Sodium (N	la)-Dissolved	58500	PDM	500	ug/L	29-JUL-21	2300000		
Thallium (TI)-Dissolved	<0.10	PDM	0.10	ug/L	29-JUL-21	510		
Uranium (I	J)-Dissolved	1.88	PDM	0.10	ug/L	29-JUL-21	420		
Vanadium	(V)-Dissolved	<5.0	PDM	5.0	ug/L	29-JUL-21	250		
Zinc (Zn)-[Dissolved	<10	PDM	10	ug/L	29-JUL-21	1100		
Speciated Me	etals								
Chromium	, Hexavalent	< 0.50		0.50	ug/L	26-JUL-21	140		
Volatile Orga	nic Compounds								
Acetone		<30	OWP	30	ug/L	29-JUL-21	130000		
Benzene		< 0.50	OWP	0.50	ug/L	29-JUL-21	44		
Bromodich	loromethane	<2.0	OWP	2.0	ug/L	29-JUL-21	85000		
Bromoforn	n	<5.0	OWP	5.0	ug/L	29-JUL-21	380		
Bromomet	hane	< 0.50	OWP	0.50	ug/L	29-JUL-21	5.6		
Carbon tet	rachloride	<0.20	OWP	0.20	ug/L	29-JUL-21	0.79		
Chloroben	zene	< 0.50	OWP	0.50	ug/L	29-JUL-21	630		
Dibromoch	nloromethane	<2.0	OWP	2.0	ug/L	29-JUL-21	82000		
Chloroforn	า	<1.0	OWP	1.0	ug/L	29-JUL-21	2.4		
1,2-Dibron	noethane	<0.20	OWP	0.20	ug/L	29-JUL-21	0.25		
1,2-Dichlo	robenzene	< 0.50	OWP	0.50	ug/L	29-JUL-21	4600		
1,3-Dichlo	robenzene	< 0.50	OWP	0.50	ug/L	29-JUL-21	9600		
1,4-Dichlo	robenzene	<0.50	OWP	0.50	ug/L	29-JUL-21	8		
Dichlorodit	fluoromethane	<2.0	OWP	2.0	ug/L	29-JUL-21	4400		
1,1-Dichlo	roethane	<0.50	OWP	0.50	ug/L	29-JUL-21	320		
1,2-Dichlo	roethane	<0.50	OWP	0.50	ug/L	29-JUL-21	1.6		
1,1-Dichlo	-	<0.50	OWP	0.50	ug/L	29-JUL-21	1.6		
	chloroethylene	<0.50	OWP	0.50	ug/L	29-JUL-21	1.6		
	Dichloroethylene	< 0.50	OWP	0.50	ug/L	29-JUL-21	1.6		
Methylene	Chloride	<5.0	OWP	5.0	ug/L	29-JUL-21	610		
					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:



L2618106 CONTD.... Page 3 of 15

CCO-22-1129 15-AUG-21 19:44 (MT) Sample Details Qualifier D.L. Units Grouping Analyte Result Analyzed **Guideline Limits** L2618106-1 78 ROS-BH1(MW) Sampled By: CLIENT on 23-JUL-21 @ 12:25 #1 Matrix: WATER **Volatile Organic Compounds** OWP 0.50 29-JUL-21 1,2-Dichloropropane < 0.50 ug/L 16 cis-1,3-Dichloropropene < 0.30 **OWP** 0.30 ug/L 29-JUL-21 trans-1,3-Dichloropropene < 0.30 **OWP** 0.30 ug/L 29-JUL-21 1,3-Dichloropropene (cis & trans) < 0.50 0.50 ug/L 29-JUL-21 5.2 OWP Ethylbenzene < 0.50 0.50 ug/L 29-JUL-21 2300 n-Hexane < 0.50 **OWP** 0.50 ug/L 29-JUL-21 51 Methyl Ethyl Ketone **OWP** 20 ug/L 29-JUL-21 < 20 470000 **OWP** 29-JUL-21 Methyl Isobutyl Ketone <20 20 ug/L 140000 **OWP** 29-JUL-21 MTBE < 2.0 2.0 ua/L 190 < 0.50 **OWP** 0.50 ug/L 29-JUL-21 1300 Styrene 1,1,1,2-Tetrachloroethane < 0.50 **OWP** 0.50 ug/L 29-JUL-21 3.3 1,1,2,2-Tetrachloroethane **OWP** 29-JUL-21 < 0.50 0.50 ug/L 3.2 Tetrachloroethylene < 0.50 **OWP** 0.50 ug/L 29-JUL-21 1.6 Toluene < 0.50 **OWP** 0.50 ug/L 29-JUL-21 18000 1,1,1-Trichloroethane < 0.50 **OWP** 0.50 ug/L 29-JUL-21 640 **OWP** 0.50 29-JUL-21 1,1,2-Trichloroethane < 0.50 ug/L 4.7 Trichloroethylene < 0.50 **OWP** 0.50 29-JUL-21 ug/L 1.6 Trichlorofluoromethane < 5.0 **OWP** 5.0 ug/L 29-JUL-21 2500 Vinyl chloride < 0.50 **OWP** 0.50 ug/L 29-JUL-21 0.5 OWP 29-JUL-21 o-Xylene < 0.30 0.30 ug/L m+p-Xylenes < 0.40 **OWP** 0.40 ug/L 29-JUL-21 Xylenes (Total) < 0.50 0.50 ug/L 29-JUL-21 4200 90.7 70-130 29-JUL-21 Surrogate: 4-Bromofluorobenzene % Surrogate: 1,4-Difluorobenzene 98.7 70-130 29-JUL-21 % **Hydrocarbons OWP** F1 (C6-C10) <25 25 ug/L 29-JUL-21 750 F1-BTEX <25 25 ug/L 30-JUL-21 750 **OWP** 28-JUL-21 F2 (C10-C16) <100 100 ug/L 150 F2-Naphth <100 100 ug/L 30-JUL-21 F3 (C16-C34) <250 **OWP** 250 ug/L 28-JUL-21 500 250 30-JUL-21 F3-PAH <250 ug/L **OWP** 250 F4 (C34-C50) <250 ug/L 28-JUL-21 500 Total Hydrocarbons (C6-C50) <370 370 ug/L 30-JUL-21 YES 28-JUL-21 No Unit Chrom. to baseline at nC50 85.5 60-140 28-JUL-21 Surrogate: 2-Bromobenzotrifluoride % 60-140 Surrogate: 3,4-Dichlorotoluene 74.2 % 29-JUL-21 **Polycyclic Aromatic Hydrocarbons** Acenaphthene 0.028 0.020 ug/L 30-JUL-21 600 Acenaphthylene < 0.020 0.020 ug/L 30-JUL-21 1.8 Anthracene < 0.020 0.020 ug/L 30-JUL-21 2.4 Benzo(a)anthracene < 0.020 0.020 ug/L 30-JUL-21 4.7 Benzo(a)pyrene < 0.010 0.010 ug/L 30-JUL-21 0.81 Benzo(b&j)fluoranthene < 0.020 0.020 ug/L 30-JUL-21 0.75 < 0.020 0.020 ug/L 30-JUL-21 Benzo(g,h,i)perylene 0.2 Benzo(k)fluoranthene < 0.020 0.020 ug/L 30-JUL-21 0.4 < 0.020 0.020 30-JUL-21 Chrysene ug/L 1

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

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



L2618106 CONTD.... Page 4 of 15

CCO-22-1129 15-AUG-21 19:44 (MT) Sample Details Result Qualifier D.L. Units Grouping Analyte Analyzed **Guideline Limits** L2618106-1 78 ROS-BH1(MW) Sampled By: CLIENT on 23-JUL-21 @ 12:25 #1 Matrix: WATER **Polycyclic Aromatic Hydrocarbons** Dibenz(a,h)anthracene < 0.020 0.020 ug/L 30-JUL-21 0.52 Fluoranthene 0.025 0.020 ug/L 30-JUL-21 130 Fluorene 0.050 0.020 ug/L 30-JUL-21 400 <0.020 0.020 30-JUL-21 Indeno(1,2,3-cd)pyrene ug/L 0.2 1+2-Methylnaphthalenes 0.188 0.028 ug/L 30-JUL-21 1800 0.060 0.020 ug/L 30-JUL-21 1-Methylnaphthalene 1800 30-JUL-21 2-Methylnaphthalene 0.128 0.020 ug/L 1800 30-JUL-21 Naphthalene 0.061 0.050 ug/L 1400 Phenanthrene <0.160 RRR 0.16 ug/L 30-JUL-21 580 Pyrene 0.052 0.020 ug/L 30-JUL-21 68 50-150 % 30-JUL-21 Surrogate: Chrysene d12 87.7 Surrogate: Naphthalene d8 75.9 60-140 % 30-JUL-21 60-140 30-JUL-21 Surrogate: Phenanthrene d10 115.3 % L2618106-2 78 ROS-BH2(MW) Sampled By: CLIENT on 23-JUL-21 @ 12:35 #1 WATER Matrix: **Dissolved Metals** 30-JUL-21 Dissolved Mercury Filtration Location **FIELD** No Unit **Dissolved Metals Filtration Location FIELD** No Unit 29-JUL-21 0.10 ug/L 31-JUL-21 Antimony (Sb)-Dissolved 1.14 20000 0.10 Arsenic (As)-Dissolved 0.51 31-JUL-21 1900 ug/L Barium (Ba)-Dissolved 228 0.10 ug/L 31-JUL-21 29000 Beryllium (Be)-Dissolved < 0.10 0.10 ug/L 31-JUL-21 67 Boron (B)-Dissolved 81 10 ug/L 31-JUL-21 45000 Cadmium (Cd)-Dissolved < 0.010 0.010 31-JUL-21 ug/L 2.7 < 0.50 0.50 31-JUL-21 Chromium (Cr)-Dissolved ug/L 810 Cobalt (Co)-Dissolved 0.60 0.10 ug/L 31-JUL-21 66 Copper (Cu)-Dissolved 1.17 0.20 ug/L 31-JUL-21 87 0.050 31-JUL-21 25 Lead (Pb)-Dissolved 0.138 ug/L < 0.0050 Mercury (Hg)-Dissolved 0.0050 ug/L 30-JUL-21 0.29 5.00 0.050 31-JUL-21 Molybdenum (Mo)-Dissolved ug/L 9200 Nickel (Ni)-Dissolved 3.67 0.50 ug/L 31-JUL-21 490 Selenium (Se)-Dissolved 1.82 0.050 ug/L 31-JUL-21 63 Silver (Ag)-Dissolved < 0.050 0.050 ug/L 31-JUL-21 1.5 Sodium (Na)-Dissolved 22200 500 ug/L 31-JUL-21 2300000

0.033

2.30

< 0.50

3.8

< 0.50

<30

< 0.50

T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

0.010

0.010

0.50

1.0

0.50

30

0.50

OWP

OWP

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

31-JUL-21

31-JUL-21

31-JUL-21

31-JUL-21

26-JUL-21

29-JUL-21

29-JUL-21

510

420

250

1100

140

130000

44

Thallium (TI)-Dissolved

Uranium (U)-Dissolved

Zinc (Zn)-Dissolved

Speciated Metals

Acetone

Benzene

Vanadium (V)-Dissolved

Chromium, Hexavalent

Volatile Organic Compounds

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

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



L2618106 CONTD....
Page 5 of 15

Sample Dotains	CCO-22-1129							15-AUG-21	19:44 (MT)
L2618106-2 78 ROS-BH2(MW) Sampled By: CLIENT on 23-JUL-21 & 12:36 Mathric: WATER		Result	Qualifier	DΙ	l Inite	Analyzed		Guideline Limits	
Sampled By: CLIENT or 23-JUL-21 @ 12-35 Matrix: WATER		Nesun	Qualifier	D.L.		Arialyzeu		Guideline Limits	
Matrix: WATER Volatile Organic Compounds Stromocifichromethane <2.0 OWP 2.0 ug/L 29-JUL-21 85000	` '								
Wathic Property Wathic Pro	. ,						#1		
Bromoderhoromethane	Matrix: WATER						#1		
Bromotem	Volatile Organic Compounds								
Bromomethane	Bromodichloromethane	<2.0	OWP	2.0	ug/L	29-JUL-21	85000		
Carbon tetrachloride	Bromoform	<5.0	OWP	5.0	ug/L	29-JUL-21	380		
Chloroberszene	Bromomethane	< 0.50	OWP	0.50	ug/L	29-JUL-21	5.6		
Dibromochloromethane	Carbon tetrachloride	<0.20	OWP	0.20	ug/L	29-JUL-21	0.79		
Chloroform	Chlorobenzene	< 0.50	OWP	0.50	ug/L	29-JUL-21	630		
1,2-Dibriomoethane <0.20	Dibromochloromethane	<2.0	OWP	2.0	ug/L	29-JUL-21	82000		
1,2-Dichlorobenzene	Chloroform	<1.0	OWP	1.0	ug/L	29-JUL-21	2.4		
1,3-Dichlorobenzene	1,2-Dibromoethane	<0.20	OWP	0.20	ug/L	29-JUL-21	0.25		
1,4-Dichlorobenzene	1,2-Dichlorobenzene	< 0.50	OWP	0.50	ug/L	29-JUL-21	4600		
Dichlorodifluoromethane	1,3-Dichlorobenzene	< 0.50	OWP	0.50	ug/L	29-JUL-21	9600		
1,1-Dichloroethane <0.50	1,4-Dichlorobenzene	< 0.50	OWP		ug/L	29-JUL-21	8		
1,2-Dichloroethane	Dichlorodifluoromethane	<2.0	OWP	2.0	ug/L	29-JUL-21	4400		
1,1-Dichloroethylene <0.50	1,1-Dichloroethane	< 0.50	OWP	0.50	ug/L	29-JUL-21	320		
cis-1,2-Dichloroethylene <0.50 OWP 0.50 ug/L 29-JUL-21 1.6 trans-1,2-Dichloroethylene <0.50 OWP 0.50 ug/L 29-JUL-21 1.6 Methylene Chloride <5.0 OWP 5.0 ug/L 29-JUL-21 1.6 1,2-Dichloropropene <0.50 OWP 0.50 ug/L 29-JUL-21 16 cis-1,3-Dichloropropene <0.30 OWP 0.30 ug/L 29-JUL-21 16 trans-1,3-Dichloropropene <0.30 OWP 0.30 ug/L 29-JUL-21 16 trans-1,3-Dichloropropene <0.50 OWP 0.50 ug/L 29-JUL-21 51 Methyl Ethyl	1,2-Dichloroethane	< 0.50	OWP	0.50	ug/L	29-JUL-21	1.6		
trans-1,2-Dichloroethylene <0.50 OWP 0.50 ug/L 29-JUL-21 1.6 Methylene Chloride <5.0	1,1-Dichloroethylene	< 0.50	OWP	0.50	ug/L	29-JUL-21	1.6		
Methylene Chloride <5.0 OWP 5.0 ug/L 29-JUL-21 610 1,2-Dichloropropane <0.50	cis-1,2-Dichloroethylene	< 0.50	_	0.50	ug/L		1.6		
1,2-Dichloropropane <0.50	trans-1,2-Dichloroethylene				ug/L		1.6		
cis-1,3-Dichloropropene <0.30	Methylene Chloride				ug/L		610		
trans-1,3-Dichloropropene <0.30 OWP 0.30 ug/L 29-JUL-21 5.2 1,3-Dichloropropene (cis & trans) <0.50					ug/L		16		
1,3-Dichloropropene (cis & trans) <0.50				1	•				
Ethylbenzene <0.50			OWP		_				
n-Hexane <0.50			0.445		_				
Methyl Ethyl Ketone <20	,								
Methyl Isobutyl Ketone <20					_				
MTBE <2.0 OWP 2.0 ug/L 29-JUL-21 190 Styrene <0.50					_				
Styrene <0.50 OWP 0.50 ug/L 29-JUL-21 1300 1,1,1,2-Tetrachloroethane <0.50	, ,		_		_				
1,1,1,2-Tetrachloroethane <0.50					_				
1,1,2,2-Tetrachloroethane <0.50	· · · · · · · · · · · · · · · · · · ·				_				
Tetrachloroethylene <0.50					_				
Toluene <0.50 OWP 0.50 ug/L 29-JUL-21 18000 1,1,1-Trichloroethane <0.50					_				
1,1,1-Trichloroethane <0.50	,				"				
1,1,2-Trichloroethane <0.50					_				
Trichloroethylene <0.50 OWP 0.50 ug/L 29-JUL-21 1.6 Trichlorofluoromethane <5.0					_				
Trichlorofluoromethane <5.0 OWP 5.0 ug/L 29-JUL-21 2500 Vinyl chloride <0.50					_				
Vinyl chloride <0.50	,			1	_				
o-Xylene <0.30					_				
m+p-Xylenes <0.40					_		0.5		
Xylenes (Total) <0.50	· ·		1		_				
Surrogate: 4-Bromofluorobenzene 90.3 70-130 % 29-JUL-21 Surrogate: 1,4-Difluorobenzene 98.1 70-130 % 29-JUL-21 Hydrocarbons 25 OWP 25 ug/L 29-JUL-21 750 F1-BTEX <25			0,441				4200		
Surrogate: 1,4-Difluorobenzene 98.1 70-130 % 29-JUL-21 Hydrocarbons F1 (C6-C10) <25	, , ,				I		.200		
Hydrocarbons Use of the control of the	_				I				
F1 (C6-C10)	_								
F1-BTEX <25 25 ug/L 30-JUL-21 750		<25	OWP	25	ua/L	29-JUL-21	750		
					_				
	F2 (C10-C16)								

^{**} 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:



L2618106 CONTD.... Page 6 of 15

CCO-22-1129 15-AUG-21 19:44 (MT) Sample Details Result Qualifier D.L. Units Grouping Analyte Analyzed **Guideline Limits** L2618106-2 78 ROS-BH2(MW) Sampled By: CLIENT on 23-JUL-21 @ 12:35 #1 Matrix: WATER **Hydrocarbons** 100 ug/L 30-JUL-21 F2-Naphth <100 F3 (C16-C34) <250 28-JUL-21 250 ug/L 500 F3-PAH <250 250 ug/L 30-JUL-21 28-JUL-21 F4 (C34-C50) <250 250 ug/L 500 370 30-JUL-21 Total Hydrocarbons (C6-C50) <370 ug/L Chrom. to baseline at nC50 YES No Unit 28-JUL-21 Surrogate: 2-Bromobenzotrifluoride 89.1 60-140 28-JUL-21 Surrogate: 3,4-Dichlorotoluene 76.9 60-140 % 29-JUL-21 **Polycyclic Aromatic Hydrocarbons** Acenaphthene < 0.020 0.020 ug/L 30-JUL-21 600 Acenaphthylene < 0.020 0.020 ug/L 30-JUL-21 1.8 Anthracene < 0.020 0.020 ug/L 30-JUL-21 2.4 < 0.020 0.020 ug/L 30-JUL-21 Benzo(a)anthracene 4.7 Benzo(a)pyrene < 0.010 0.010 ug/L 30-JUL-21 0.81 Benzo(b&j)fluoranthene < 0.020 0.020 ug/L 30-JUL-21 0.75 Benzo(g,h,i)perylene < 0.020 0.020 ug/L 30-JUL-21 0.2 ug/L Benzo(k)fluoranthene < 0.020 0.020 30-JUL-21 0.4 < 0.020 0.020 ug/L 30-JUL-21 Chrysene 1 Dibenz(a,h)anthracene < 0.020 0.020 ug/L 30-JUL-21 0.52 Fluoranthene < 0.020 0.020 ug/L 30-JUL-21 130 ug/L 30-JUL-21 Fluorene < 0.020 0.020 400 30-JUL-21 Indeno(1,2,3-cd)pyrene < 0.020 0.020 ug/L 0.2

0.028

0.020

0.020

0.050

0.036

0.020

50-150

60-140

60-140

RRR

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

%

%

%

30-JUL-21

30-JUL-21

30-JUL-21

30-JUL-21

30-JUL-21

30-JUL-21

30-JUL-21

30-JUL-21

30-JUL-21

1800

1800

1800

1400

580

68

Sampled By: CLIENT on 23-JUL-21 @ 11:55

78 ROS-BH3(MW)

1+2-Methylnaphthalenes

Surrogate: Chrysene d12

Surrogate: Naphthalene d8

Surrogate: Phenanthrene d10

1-Methylnaphthalene

2-Methylnaphthalene Naphthalene

Phenanthrene

Pyrene

L2618106-3

Matrix: WATER					#1		
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD		No Unit	30-JUL-21			
Dissolved Metals Filtration Location	FIELD		No Unit	29-JUL-21			
Antimony (Sb)-Dissolved	0.90	0.10	ug/L	31-JUL-21	20000		
Arsenic (As)-Dissolved	0.46	0.10	ug/L	31-JUL-21	1900		
Barium (Ba)-Dissolved	224	0.10	ug/L	31-JUL-21	29000		
Beryllium (Be)-Dissolved	<0.10	0.10	ug/L	31-JUL-21	67		
Boron (B)-Dissolved	92	10	ug/L	31-JUL-21	45000		
Cadmium (Cd)-Dissolved	<0.010	0.010	ug/L	31-JUL-21	2.7		
Chromium (Cr)-Dissolved	<0.50	0.50	ug/L	31-JUL-21	810		
Cobalt (Co)-Dissolved	0.44	0.10	ug/L	31-JUL-21	66		

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

0.058

0.023

0.035

< 0.050

< 0.036

0.034

133.3

98.2

118.7

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



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CCO-22-1129							15-AUG-21 19	:44 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guideline Limits	
Grouping Analyte	Nesuit	Qualifier	D.L.	l	Analyzeu		Guideline Limits	
L2618106-3 78 ROS-BH3(MW)								
Sampled By: CLIENT on 23-JUL-21 @ 11:55						11.4		
Matrix: WATER						#1		
Dissolved Metals								
Copper (Cu)-Dissolved	0.72		0.20	ug/L	31-JUL-21	87		
Lead (Pb)-Dissolved	0.113		0.050	ug/L	31-JUL-21	25		
Mercury (Hg)-Dissolved	<0.0050		0.0050	ug/L	30-JUL-21	0.29		
Molybdenum (Mo)-Dissolved	5.65		0.050	ug/L	31-JUL-21	9200		
Nickel (Ni)-Dissolved	2.72		0.50	ug/L	31-JUL-21	490		
Selenium (Se)-Dissolved	1.24		0.050	ug/L	31-JUL-21	63		
Silver (Ag)-Dissolved	<0.050		0.050	ug/L	31-JUL-21	1.5		
Sodium (Na)-Dissolved	60100		500	ug/L	31-JUL-21	2300000		
Thallium (TI)-Dissolved	0.032		0.010	ug/L	31-JUL-21	510		
Uranium (U)-Dissolved	3.23		0.010	ug/L	31-JUL-21	420		
Vanadium (V)-Dissolved	<0.50		0.50	ug/L	31-JUL-21	250		
Zinc (Zn)-Dissolved	<1.0		1.0	ug/L	31-JUL-21	1100		
Speciated Metals	11.0			~ g / =	0.0022.	1100		
Chromium, Hexavalent	<0.50		0.50	ug/L	26-JUL-21	140		
Volatile Organic Compounds	10.00		0.00	ug/L	20 002 21	140		
Acetone	<30	OWP	30	ug/L	29-JUL-21	130000		
Benzene	<0.50	OWP	0.50	ug/L	29-JUL-21	44		
Bromodichloromethane	<2.0	OWP	2.0	ug/L	29-JUL-21	85000		
Bromoform	<5.0	OWP	5.0	ug/L	29-JUL-21	380		
Bromomethane	<0.50	OWP	0.50	ug/L	29-JUL-21	5.6		
Carbon tetrachloride	<0.20	OWP	0.20	ug/L	29-JUL-21	0.79		
Chlorobenzene	<0.50	OWP	0.50	ug/L	29-JUL-21	630		
Dibromochloromethane	<2.0	OWP	2.0	ug/L	29-JUL-21	82000		
Chloroform	<1.0	OWP	1.0	ug/L	29-JUL-21	2.4		
1,2-Dibromoethane	<0.20	OWP	0.20	ug/L	29-JUL-21	0.25		
1,2-Dichlorobenzene	<0.50	OWP	0.50	ug/L	29-JUL-21	4600		
1,3-Dichlorobenzene	<0.50	OWP	0.50	ug/L	29-JUL-21	9600		
1,4-Dichlorobenzene	<0.50	OWP	0.50	ug/L	29-JUL-21	8		
Dichlorodifluoromethane	<2.0	OWP	2.0	ug/L	29-JUL-21	4400		
1,1-Dichloroethane	<0.50	OWP	0.50	ug/L	29-JUL-21	320		
1,2-Dichloroethane	<0.50	OWP	0.50	ug/L	29-JUL-21	1.6		
1,1-Dichloroethylene	<0.50	OWP	0.50	ug/L	29-JUL-21	1.6		
cis-1,2-Dichloroethylene	<0.50	OWP	0.50	ug/L	29-JUL-21	1.6		
trans-1,2-Dichloroethylene	<0.50	OWP	0.50	ug/L	29-JUL-21	1.6		
Methylene Chloride	<5.0	OWP	5.0	ug/L	29-JUL-21	610		
1,2-Dichloropropane	<0.50	OWP	0.50	ug/L	29-JUL-21	16		
cis-1,3-Dichloropropene	<0.30	OWP	0.30	ug/L	29-JUL-21			
trans-1,3-Dichloropropene	<0.30	OWP	0.30	ug/L	29-JUL-21			
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	29-JUL-21	5.2		
Ethylbenzene	<0.50	OWP	0.50	ug/L	29-JUL-21	2300		
n-Hexane	<0.50	OWP	0.50	ug/L	29-JUL-21	51		
Methyl Ethyl Ketone	<20	OWP	20	ug/L	29-JUL-21	470000		
Methyl Isobutyl Ketone	<20	OWP	20	ug/L	29-JUL-21	140000		
MTBE	<2.0	OWP	2.0	ug/L	29-JUL-21	190		
Styrene	<0.50	OWP	0.50	ug/L	29-JUL-21	1300		

^{**} 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:



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CCO-22-1129							15-AUG-21 19	:44 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guideline Limits	
L2618106-3 78 ROS-BH3(MW)								
Sampled By: CLIENT on 23-JUL-21 @ 11:55								
Matrix: WATER						#1		
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50	OWP	0.50	ug/L	29-JUL-21	3.3		
1,1,2.2-Tetrachioroethane	<0.50	OWP	0.50	ug/L ug/L	29-JUL-21	3.3		
Tetrachloroethylene	<0.50	OWP	0.50	ug/L ug/L	29-JUL-21	1.6		
Toluene	0.53	OWP	0.50	ug/L ug/L	29-JUL-21	18000		
1,1,1-Trichloroethane	<0.50	OWP	0.50	ug/L ug/L	29-JUL-21	640		
1,1,2-Trichloroethane	<0.50	OWP	0.50	_	29-JUL-21 29-JUL-21	4.7		
		OWP		ug/L	29-JUL-21 29-JUL-21			
Trichloroethylene Trichlorofluoromethane	<0.50 <5.0	OWP	0.50	ug/L	29-JUL-21 29-JUL-21	1.6		
			5.0	ug/L		2500		
Vinyl chloride	<0.50	OWP	0.50	ug/L	29-JUL-21	0.5		
o-Xylene	<0.30	OWP	0.30	ug/L	29-JUL-21			
m+p-Xylenes	<0.40	OWP	0.40	ug/L	29-JUL-21	4000		
Xylenes (Total)	<0.50 89.9		0.50 70-130	ug/L	29-JUL-21 29-JUL-21	4200		
Surrogate: 4-Bromofluorobenzene	98.1		70-130	% %				
Surrogate: 1,4-Difluorobenzene Hydrocarbons	96.1		70-130	70	29-JUL-21			
F1 (C6-C10)	<25	OWP	25	ug/L	29-JUL-21	750		
F1-BTEX	<25	OVVE	25	ug/L ug/L	30-JUL-21	750 750		
F2 (C10-C16)	<100	OWP	100	_	28-JUL-21	150		
F2-Naphth	<100	OWF	100	ug/L	30-JUL-21	150		
F3 (C16-C34)	410	OWP	250	ug/L ug/L	28-JUL-21	500		
F3-PAH	410	OVVI	250	ug/L ug/L	30-JUL-21	300		
F4 (C34-C50)	490	OWP	250	ug/L ug/L	28-JUL-21	500		
Total Hydrocarbons (C6-C50)	890	OWI	370	ug/L	30-JUL-21	300		
Chrom. to baseline at nC50	YES		370	No Unit	28-JUL-21			
Surrogate: 2-Bromobenzotrifluoride	86.8		60-140	%	28-JUL-21			
Surrogate: 3,4-Dichlorotoluene	64.9		60-140	%	29-JUL-21			
Polycyclic Aromatic Hydrocarbons				,,,				
Acenaphthene	<0.020		0.020	ug/L	30-JUL-21	600		
Acenaphthylene	<0.020		0.020	ug/L	30-JUL-21	1.8		
Anthracene	<0.020		0.020	ug/L	30-JUL-21	2.4		
Benzo(a)anthracene	<0.020		0.020	ug/L	30-JUL-21	4.7		
Benzo(a)pyrene	<0.010		0.010	ug/L	30-JUL-21	0.81		
Benzo(b&j)fluoranthene	<0.020		0.020	ug/L	30-JUL-21	0.75		
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	30-JUL-21	0.2		
Benzo(k)fluoranthene	<0.020		0.020	ug/L	30-JUL-21	0.4		
Chrysene	<0.020		0.020	ug/L	30-JUL-21	1		
Dibenz(a,h)anthracene	<0.020		0.020	ug/L	30-JUL-21	0.52		
Fluoranthene	0.067		0.020	ug/L	30-JUL-21	130		
Fluorene	0.026		0.020	ug/L	30-JUL-21	400		
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	30-JUL-21	0.2		
1+2-Methylnaphthalenes	0.104		0.028	ug/L	30-JUL-21	1800		
1-Methylnaphthalene	0.043		0.020	ug/L	30-JUL-21	1800		
2-Methylnaphthalene	0.061		0.020	ug/L	30-JUL-21	1800		
Naphthalene	0.055		0.050	ug/L	30-JUL-21	1400		
Phenanthrene	<0.083	RRR	0.083	ug/L	30-JUL-21	580		
Pyrene	0.159		0.020	ug/L	30-JUL-21	68		
,				9, -		30		

^{**} 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:



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CCO-22-1129 15-AUG-21 19:44 (MT) Sample Details Analyte Qualifier D.L. Units Grouping Result Analyzed **Guideline Limits** L2618106-3 78 ROS-BH3(MW) Sampled By: CLIENT on 23-JUL-21 @ 11:55 #1 Matrix: WATER **Polycyclic Aromatic Hydrocarbons** 85.7 50-150 30-JUL-21 Surrogate: Chrysene d12 % Surrogate: Naphthalene d8 60-140 77.1 % 30-JUL-21 Surrogate: Phenanthrene d10 60-140 30-JUL-21 91.1 % L2618106-4 MW1-DUP Sampled By: CLIENT on 23-JUL-21 @ 12:25 #1 WATER Matrix: **Dissolved Metals** Dissolved Mercury Filtration Location **FIELD** No Unit 30-JUL-21 **Dissolved Metals Filtration Location FIELD** No Unit 29-JUL-21 Antimony (Sb)-Dissolved PDM 1.0 ug/L 29-JUL-21 <1.0 20000 PDM 29-JUL-21 Arsenic (As)-Dissolved <1.0 1.0 ug/L 1900 Barium (Ba)-Dissolved 154 PDM 1.0 ug/L 29-JUL-21 29000 Beryllium (Be)-Dissolved <1.0 PDM 1.0 ug/L 29-JUL-21 67 Boron (B)-Dissolved <100 PDM 100 ug/L 29-JUL-21 45000 Cadmium (Cd)-Dissolved < 0.050 PDM 0.050 29-JUL-21 ug/L 2.7 PDM 5.0 29-JUL-21 Chromium (Cr)-Dissolved < 5.0 ug/L 810 Cobalt (Co)-Dissolved 1.2 PDM 1.0 ug/L 29-JUL-21 66 29-JUL-21 Copper (Cu)-Dissolved < 2.0 PDM 2.0 ug/L 87 PDM 29-JUL-21 Lead (Pb)-Dissolved 4.14 0.50 ug/L 25 < 0.0050 0.0050 ug/L 30-JUL-21 Mercury (Hg)-Dissolved 0.29 7.35 PDM 0.50 29-JUL-21 Molybdenum (Mo)-Dissolved 9200 ug/L Nickel (Ni)-Dissolved < 5.0 **PDM** 5.0 ug/L 29-JUL-21 490 Selenium (Se)-Dissolved 1.28 PDM 0.50 ug/L 29-JUL-21 63 Silver (Ag)-Dissolved < 0.50 PDM 0.50 ug/L 29-JUL-21 1.5 Sodium (Na)-Dissolved 64100 PDM 500 29-JUL-21 2300000 ug/L PDM 29-JUL-21 Thallium (TI)-Dissolved < 0.10 0.10 ug/L 510 Uranium (U)-Dissolved 1.88 PDM 0.10 ug/L 29-JUL-21 420 Vanadium (V)-Dissolved <5.0 PDM 5.0 ug/L 29-JUL-21 250 PDM 29-JUL-21 Zinc (Zn)-Dissolved 15 10 ug/L 1100 **Speciated Metals** Chromium, Hexavalent < 0.50 0.50 26-JUL-21 140 ug/L **Volatile Organic Compounds** OWP Acetone <30 30 ug/L 30-JUL-21 130000 **OWP** 30-JUL-21 < 0.50 0.50 ug/L Benzene 44 Bromodichloromethane **OWP** 2.0 ug/L 30-JUL-21 <2.0 85000 **OWP** 30-JUL-21 Bromoform <5.0 5.0 ug/L 380 Bromomethane < 0.50 **OWP** 0.50 ug/L 30-JUL-21 5.6 Carbon tetrachloride < 0.20 **OWP** 0.20 ug/L 30-JUL-21 0.79 < 0.50 **OWP** 0.50 30-JUL-21 Chlorobenzene ug/L 630 Dibromochloromethane <2.0 **OWP** 2.0 ug/L 30-JUL-21 82000 Chloroform <1.0 **OWP** 1.0 ug/L 30-JUL-21 2.4 1,2-Dibromoethane < 0.20 **OWP** 0.20 ug/L 30-JUL-21 0.25 1.2-Dichlorobenzene < 0.50 **OWP** 0.50 ug/L 30-JUL-21 4600 **OWP** 30-JUL-21 1,3-Dichlorobenzene < 0.50 0.50 ug/L 9600

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

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



L2618106 CONTD....
Page 10 of 15
15-AUG-21 19-44 (MT)

CCO-22-1129		IICAL	GUID		KEPOR	\ I	Page 10 of 15-AUG-21 19:44	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guideline Limits	
7	Nooun			Jinto	/ widiy26u		Juidonile Ennits	
L2618106-4 MW1-DUP								
Sampled By: CLIENT on 23-JUL-21 @ 12:25						#1		
Matrix: WATER								
Volatile Organic Compounds								
1,4-Dichlorobenzene	<0.50	OWP	0.50	ug/L	30-JUL-21	8		
Dichlorodifluoromethane	<2.0	OWP	2.0	ug/L	30-JUL-21	4400		
1,1-Dichloroethane	<0.50	OWP	0.50	ug/L	30-JUL-21	320		
1,2-Dichloroethane	<0.50	OWP	0.50	ug/L	30-JUL-21	1.6		
1,1-Dichloroethylene	<0.50	OWP	0.50	ug/L	30-JUL-21	1.6		
cis-1,2-Dichloroethylene	<0.50	OWP	0.50	ug/L	30-JUL-21	1.6		
trans-1,2-Dichloroethylene	<0.50	OWP	0.50	ug/L	30-JUL-21	1.6		
Methylene Chloride	<5.0	OWP	5.0	ug/L	30-JUL-21	610		
1,2-Dichloropropane	<0.50	OWP	0.50	ug/L	30-JUL-21	16		
cis-1,3-Dichloropropene	<0.30	OWP	0.30	ug/L	30-JUL-21			
trans-1,3-Dichloropropene	<0.30	OWP	0.30	ug/L	30-JUL-21			
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L	30-JUL-21	5.2		
Ethylbenzene	<0.50	OWP	0.50	ug/L	30-JUL-21	2300		
n-Hexane	<0.50	OWP	0.50	ug/L	30-JUL-21	51		
Methyl Ethyl Ketone	<20	OWP	20	ug/L	30-JUL-21	470000		
Methyl Isobutyl Ketone	<20	OWP	20	ug/L	30-JUL-21	140000		
MTBE	<2.0	OWP	2.0	ug/L	30-JUL-21	190		
Styrene	<0.50	OWP	0.50	ug/L	30-JUL-21	1300		
1,1,1,2-Tetrachloroethane	<0.50	OWP	0.50	ug/L	30-JUL-21	3.3		
1,1,2,2-Tetrachloroethane	<0.50	OWP	0.50	ug/L	30-JUL-21	3.2		
Tetrachloroethylene	<0.50	OWP	0.50	ug/L	30-JUL-21	1.6		
Toluene	<0.50	OWP	0.50	ug/L	30-JUL-21	18000		
1,1,1-Trichloroethane	<0.50	OWP	0.50	ug/L	30-JUL-21	640		
1,1,2-Trichloroethane	<0.50	OWP	0.50	ug/L	30-JUL-21	4.7		
Trichloroethylene	<0.50	OWP	0.50	ug/L	30-JUL-21	1.6		
Trichlorofluoromethane	<5.0	OWP	5.0	ug/L	30-JUL-21	2500		
Vinyl chloride	<0.50	OWP	0.50	ug/L	30-JUL-21	0.5		
o-Xylene	<0.30	OWP	0.30	ug/L	30-JUL-21			
m+p-Xylenes	<0.40	OWP	0.40	ug/L	30-JUL-21			
Xylenes (Total)	<0.50		0.50	ug/L	30-JUL-21	4200		
Surrogate: 4-Bromofluorobenzene	100.4		70-130	%	30-JUL-21			
Surrogate: 1,4-Difluorobenzene	99.3		70-130	%	30-JUL-21			
Hydrocarbons								
F1 (C6-C10)	<25	OWP	25	ug/L	30-JUL-21	750		
F1-BTEX	<25		25	ug/L	30-JUL-21	750		
F2 (C10-C16)	<100	OWP	100	ug/L	28-JUL-21	150		
F2-Naphth	<100	0,	100	ug/L	30-JUL-21			
F3 (C16-C34)	<250	OWP	250	ug/L	28-JUL-21	500		
F3-PAH	<250	CIAID	250	ug/L	30-JUL-21	500		
F4 (C34-C50)	<250	OWP	250	ug/L	28-JUL-21	500		
Total Hydrocarbons (C6-C50)	<370		370	ug/L	30-JUL-21			
Chrom. to baseline at nC50	YES		60 140	No Unit	28-JUL-21			
Surrogate: 2-Bromobenzotrifluoride Surrogate: 3,4-Dichlorotoluene	87.7 85.4		60-140 60-140	% %	28-JUL-21 30-JUL-21			
Polycyclic Aromatic Hydrocarbons	00.4		00-140	70	30-JUL-21			
	0.034		0.020	//	20 1111 24	600		
Acenaphthene	0.024		0.020	ug/L	30-JUL-21	600		

^{**} 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:



L2618106 CONTD....
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CCO-22-1129 15-AUG-21 19:44 (MT) Sample Details Result Qualifier D.L. Units Grouping Analyte Analyzed **Guideline Limits** L2618106-4 MW1-DUP Sampled By: CLIENT on 23-JUL-21 @ 12:25 #1 Matrix: WATER **Polycyclic Aromatic Hydrocarbons** Acenaphthylene < 0.020 0.020 ug/L 30-JUL-21 1.8 Anthracene < 0.020 0.020 ug/L 30-JUL-21 2.4 Benzo(a)anthracene < 0.020 0.020 ug/L 30-JUL-21 4.7 < 0.010 0.010 30-JUL-21 Benzo(a)pyrene ug/L 0.81 Benzo(b&i)fluoranthene < 0.020 0.020 ug/L 30-JUL-21 0.75 < 0.020 0.020 ug/L 30-JUL-21 Benzo(g,h,i)perylene 0.2 30-JUL-21 Benzo(k)fluoranthene < 0.020 0.020 ug/L 0.4 30-JUL-21 Chrysene < 0.020 0.020 ug/L 1 Dibenz(a,h)anthracene < 0.020 0.020 ug/L 30-JUL-21 0.52 Fluoranthene < 0.020 0.020 ug/L 30-JUL-21 130 0.051 0.020 30-JUL-21 400 Fluorene ug/L Indeno(1,2,3-cd)pyrene < 0.020 0.020 ug/L 30-JUL-21 0.2 1+2-Methylnaphthalenes 0.166 0.028 ug/L 30-JUL-21 1800 0.020 30-JUL-21 1-Methylnaphthalene 0.048 ug/L 1800 2-Methylnaphthalene 0.118 0.020 ug/L 30-JUL-21 1800 Naphthalene 0.057 0.050 30-JUL-21 ug/L 1400 Phenanthrene < 0.140 **RRR** 0.14 ug/L 30-JUL-21 580 Pvrene 0.042 0.020 ug/L 30-JUL-21 68 % 30-JUL-21 Surrogate: Chrysene d12 87.8 50-150 Surrogate: Naphthalene d8 69.7 60-140 % 30-JUL-21 60-140 30-JUL-21 Surrogate: Phenanthrene d10 107.7 % L2618106-5 78 ROS-BH1(MW) Sampled By: CLIENT on 09-AUG-21 @ 11:00 #1 WATER Matrix: **Physical Tests** 0.0030 10-AUG-21 Conductivity 0.680 mS/cm 10-AUG-21 рΗ 7.79 0.10 pH units **Anions and Nutrients** Chloride (CI) 54.3 0.50 mg/L 10-AUG-21 2300 Cyanides <2.0 2.0 11-AUG-21 66 Cyanide, Weak Acid Diss ug/L L2618106-6 78 ROS-BH2(MW) Sampled By: CLIENT on 09-AUG-21 @ 10:40 #1 WATER Matrix: **Physical Tests** Conductivity 0.718 0.0030 mS/cm 10-AUG-21 0.10 10-AUG-21 рΗ 8.02 pH units **Anions and Nutrients** Chloride (CI) 23.6 0.50 10-AUG-21 mg/L 2300 Cyanides Cyanide, Weak Acid Diss <2.0 2.0 11-AUG-21 66 ug/L

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

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



L2618106 CONTD....
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CO-22-1129							15-AUG-21	19:44 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guideline Limits	
L2618106-7 78 ROS-BH3(MW)								
Sampled By: CLIENT on 09-AUG-21 @ 10:25						#1		
Matrix: WATER								
Physical Tests								
Conductivity pH	0.876 7.72		0.0030 0.10	mS/cm pH units	10-AUG-21 10-AUG-21			
Anions and Nutrients	1.12		0.10	priums	10-A00-21			
Chloride (CI)	44.4		0.50	mg/L	10-AUG-21	2300		
Cyanides								
Cyanide, Weak Acid Diss	<2.0		2.0	ug/L	11-AUG-21	66		
_2618106-8 78 ROS-DUP								
Sampled By: CLIENT on 09-AUG-21 @ 10:40						щ4		
Matrix: WATER						#1		
Physical Tests								
Conductivity	0.728		0.0030	mS/cm	10-AUG-21			
pH Anions and Nutrients	7.80		0.10	pH units	10-AUG-21			
Chloride (Cl)	23.2		0.50	mg/L	10-AUG-21	2300		
Cyanides	20.2		0.50	IIIg/L	10 700 21	2300		
Cyanide, Weak Acid Diss	<2.0		2.0	ug/L	11-AUG-21	66		

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:

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
PDM	Particulate was observed in preserved Dissolved Metals sample. Associated results may be biased low.
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.
RRR	Refer to Report Remarks for issues regarding this analysis

Methods Listed (if applicable):

	p,.		
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 EPA 7199

2011)
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 APHA 2510 B

2011)

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 APHA 2510

Use Only)

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 CCME CWS-PHC, Pub #1310, Dec 2001-L

Parameters

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 EPA 1631E (mod)

CVAAS (ug/L)

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 EPA 200.8

(ug/L)

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).

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 SW846 8260

153/04 (July 2011)

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- Water Sum of Xylene Isomer CALCULATION

T Concentrations

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:

Reference Information

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

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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



Workorder: L2618106 Report Date: 15-AUG-21 Page 1 of 17

Client: McIntosh Perry Engineering Consultants (Ottawa)

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-IC-N-WT	Water							
Batch R5547829 WG3594045-4 DUP Chloride (CI)		WG3594045-3 23.6	23.6		mg/L	0.1	20	10-AUG-21
WG3594045-2 LCS Chloride (CI)			101.6		%		90-110	10-AUG-21
WG3594045-1 MB Chloride (CI)			<0.50		mg/L		0.5	10-AUG-21
WG3594045-5 MS Chloride (Cl)		WG3594045-3	99.3		%		75-125	10-AUG-21
CN-WAD-R511-WT	Water							
Batch R5548992								
WG3594886-20 DUP Cyanide, Weak Acid Dis	s	WG3594886-1 3 <2.0	8 <2.0	RPD-NA	ug/L	N/A	20	11-AUG-21
WG3594886-17 LCS Cyanide, Weak Acid Dis	s		107.1		%		80-120	11-AUG-21
WG3594886-16 MB Cyanide, Weak Acid Dis	s		<2.0		ug/L		2	11-AUG-21
WG3594886-19 MS Cyanide, Weak Acid Dis	s	WG3594886-1	8 111.5		%		75-125	11-AUG-21
CR-CR6-IC-R511-WT	Water							
Batch R5529993								
WG3583840-4 DUP Chromium, Hexavalent		WG3583840-3 <0.50	<0.50	RPD-NA	ug/L	N/A	20	26-JUL-21
WG3583840-2 LCS Chromium, Hexavalent			100.6		%		80-120	26-JUL-21
WG3583840-1 MB Chromium, Hexavalent			<0.50		ug/L		0.5	26-JUL-21
WG3583840-5 MS Chromium, Hexavalent		WG3583840-3	102.3		%		70-130	26-JUL-21
EC-R511-WT	Water							
Batch R5547828								
WG3593569-4 DUP Conductivity		WG3593569-3 2.15	2.14		mS/cm	0.5	10	10-AUG-21
WG3593569-2 LCS Conductivity			99.5		%		90-110	10-AUG-21
WG3593569-1 MB Conductivity			<0.0030		mS/cm		0.003	10-AUG-21
F1-HS-511-WT	Water							



Workorder: L2618106 Report Date: 15-AUG-21 Page 2 of 17

McIntosh Perry Engineering Consultants (Ottawa) Client:

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Contact: Stefan Holik

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT		Water							
Batch R5	532017								
WG3586155-4 F1 (C6-C10)	DUP		WG3586155-3 <25	<25	RPD-NA	ug/L	N/A	30	30-JUL-21
WG3586155-1 F1 (C6-C10)	LCS			89.1		%		80-120	29-JUL-21
WG3586155-2 F1 (C6-C10)	MB			<25		ug/L		25	29-JUL-21
Surrogate: 3,4-I	Dichloroto	oluene		101.1		%		60-140	29-JUL-21
WG3586155-5 F1 (C6-C10)	MS		WG3586155-3	67.6		%		60-140	30-JUL-21
Batch R5	532317								
WG3586041-4 F1 (C6-C10)	DUP		WG3586041-3 <25	<25	RPD-NA	ug/L	N/A	30	29-JUL-21
WG3586041-1 F1 (C6-C10)	LCS			99.3		%		80-120	29-JUL-21
WG3586041-2 F1 (C6-C10)	МВ			<25		ug/L		25	29-JUL-21
Surrogate: 3,4-I	Dichloroto	oluene		85.3		%		60-140	29-JUL-21
WG3586041-5	MS		WG3586041-3	00.0		,,		00	20 001 21
F1 (C6-C10)			11000000410	93.7		%		60-140	29-JUL-21
F2-F4-511-WT		Water							
	531023								
WG3583407-2 F2 (C10-C16)	LCS			98.2		%		70-130	28-JUL-21
F3 (C16-C34)				99.1		%		70-130	28-JUL-21
F4 (C34-C50)				129.5		%		70-130	28-JUL-21
WG3583407-1 F2 (C10-C16)	MB			<100		ug/L		100	28-JUL-21
F3 (C16-C34)				<250		ug/L		250	28-JUL-21
F4 (C34-C50)				<250		ug/L		250	28-JUL-21
Surrogate: 2-Br	omobenz	otrifluoride		89.9		%		60-140	28-JUL-21
HG-D-UG/L-CVAA-	WT	Water							
Batch R5	534709								
WG3587228-4 Mercury (Hg)-D	DUP issolved		WG3587228-3 < 0.0050	<0.0050	RPD-NA	ug/L	N/A	20	30-JUL-21
WG3587228-2 Mercury (Hg)-D				108.0		%		80-120	30-JUL-21
WG3587228-1	MB								



Workorder: L2618106 Report Date: 15-AUG-21 Page 3 of 17

Client: McIntosh Perry Engineering Consultants (Ottawa)

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-UG/L-CVAA-WT	Water							
Batch R5534709 WG3587228-1 MB Mercury (Hg)-Dissolved			<0.0050		ug/L		0.005	30-JUL-21
WG3587228-6 MS	-	WG3587228-5	<0.0000		ug/L		0.000	30-JUL-21
Mercury (Hg)-Dissolved	d	WG3367226-3	100.3		%		70-130	30-JUL-21
MET-D-UG/L-MS-WT	Water							
Batch R5534037	•	W0050005 0						
WG3586935-4 DUP Antimony (Sb)-Dissolve	ed	WG3586935-3 <1.0	<1.0	RPD-NA	ug/L	N/A	20	29-JUL-21
Arsenic (As)-Dissolved		3.1	2.8		ug/L	13	20	29-JUL-21
Barium (Ba)-Dissolved		902	921		ug/L	2.0	20	29-JUL-21
Beryllium (Be)-Dissolve	ed	<1.0	<1.0	RPD-NA	ug/L	N/A	20	29-JUL-21
Boron (B)-Dissolved		<100	<100	RPD-NA	ug/L	N/A	20	29-JUL-21
Cadmium (Cd)-Dissolv	ed	<0.050	<0.050	RPD-NA	ug/L	N/A	20	29-JUL-21
Chromium (Cr)-Dissolv	red	<5.0	<5.0	RPD-NA	ug/L	N/A	20	29-JUL-21
Cobalt (Co)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	29-JUL-21
Copper (Cu)-Dissolved		<2.0	<2.0	RPD-NA	ug/L	N/A	20	29-JUL-21
Lead (Pb)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	29-JUL-21
Molybdenum (Mo)-Diss	solved	1.08	1.11		ug/L	3.1	20	29-JUL-21
Nickel (Ni)-Dissolved		<5.0	<5.0	RPD-NA	ug/L	N/A	20	29-JUL-21
Selenium (Se)-Dissolve	ed	<0.50	<0.50	RPD-NA	ug/L	N/A	20	29-JUL-21
Silver (Ag)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	29-JUL-21
Sodium (Na)-Dissolved	I	281000	285000		ug/L	1.2	20	29-JUL-21
Thallium (TI)-Dissolved	I	<0.10	<0.10	RPD-NA	ug/L	N/A	20	29-JUL-21
Uranium (U)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	29-JUL-21
Vanadium (V)-Dissolve	ed	<5.0	<5.0	RPD-NA	ug/L	N/A	20	29-JUL-21
Zinc (Zn)-Dissolved		12	13		ug/L	6.7	20	29-JUL-21
WG3586935-2 LCS Antimony (Sb)-Dissolve	ed		99.4		%		80-120	29-JUL-21
Arsenic (As)-Dissolved			100.8		%		80-120	29-JUL-21
Barium (Ba)-Dissolved			100.7		%		80-120	29-JUL-21
Beryllium (Be)-Dissolve	ed		99.7		%		80-120	29-JUL-21
Boron (B)-Dissolved			93.2		%		80-120	29-JUL-21
Cadmium (Cd)-Dissolv	ed		99.6		%		80-120	29-JUL-21
Chromium (Cr)-Dissolv			99.3		%		80-120	29-JUL-21



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Client: McIntosh Perry Engineering Consultants (Ottawa)

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	Water							
Batch R553403	7							
WG3586935-2 LCS			00.0		0/		00.400	
Cobalt (Co)-Dissolved			99.6 97.7		%		80-120	29-JUL-21
Copper (Cu)-Dissolved	u						80-120	29-JUL-21
Lead (Pb)-Dissolved	المعادلة م		101.3		%		80-120	29-JUL-21
Molybdenum (Mo)-Dis	solved		100.8		%		80-120	29-JUL-21
Nickel (Ni)-Dissolved			97.9		%		80-120	29-JUL-21
Selenium (Se)-Dissolv	ea		99.3		%		80-120	29-JUL-21
Silver (Ag)-Dissolved	.1		101.7		%		80-120	29-JUL-21
Sodium (Na)-Dissolve			98.7		%		80-120	29-JUL-21
Thallium (TI)-Dissolve			100.3		%		80-120	29-JUL-21
Uranium (U)-Dissolved			103.4		%		80-120	29-JUL-21
Vanadium (V)-Dissolv	ea		100.1		%		80-120	29-JUL-21
Zinc (Zn)-Dissolved			102.5		%		80-120	29-JUL-21
WG3586935-1 MB Antimony (Sb)-Dissolv	red		<0.10		ug/L		0.1	29-JUL-21
Arsenic (As)-Dissolved	t		<0.10		ug/L		0.1	29-JUL-21
Barium (Ba)-Dissolved	i		<0.10		ug/L		0.1	29-JUL-21
Beryllium (Be)-Dissolv	ed		<0.10		ug/L		0.1	29-JUL-21
Boron (B)-Dissolved			<10		ug/L		10	29-JUL-21
Cadmium (Cd)-Dissolv	ved		<0.0050		ug/L		0.005	29-JUL-21
Chromium (Cr)-Dissol	ved		<0.50		ug/L		0.5	29-JUL-21
Cobalt (Co)-Dissolved			<0.10		ug/L		0.1	29-JUL-21
Copper (Cu)-Dissolved	d		<0.20		ug/L		0.2	29-JUL-21
Lead (Pb)-Dissolved			< 0.050		ug/L		0.05	29-JUL-21
Molybdenum (Mo)-Dis	solved		< 0.050		ug/L		0.05	29-JUL-21
Nickel (Ni)-Dissolved			<0.50		ug/L		0.5	29-JUL-21
Selenium (Se)-Dissolv	red		< 0.050		ug/L		0.05	29-JUL-21
Silver (Ag)-Dissolved			<0.050		ug/L		0.05	29-JUL-21
Sodium (Na)-Dissolve	d		<50		ug/L		50	29-JUL-21
Thallium (TI)-Dissolve	d		<0.010		ug/L		0.01	29-JUL-21
Uranium (U)-Dissolved	d		<0.010		ug/L		0.01	29-JUL-21
Vanadium (V)-Dissolve	ed		<0.50		ug/L		0.5	29-JUL-21
Zinc (Zn)-Dissolved			<1.0		ug/L		1	29-JUL-21
WG3586935-5 MS Antimony (Sb)-Dissolv	red	WG3586935-6	96.0		%		70-130	29-JUL-21



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Client: McIntosh Perry Engineering Consultants (Ottawa)

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	Water							
Batch R5534037 WG3586935-5 MS Arsenic (As)-Dissolved		WG3586935-6	6 99.0		%		70-130	29-JUL-21
Barium (Ba)-Dissolved			N/A	MS-B	%		70-130	29-JUL-21
Beryllium (Be)-Dissolve			98.9	WO B	%		70-130	29-JUL-21
Boron (B)-Dissolved	ou		N/A	MS-B	%		70-130	29-JUL-21
Cadmium (Cd)-Dissolv	red		95.3	WO B	%		70-130	29-JUL-21
Chromium (Cr)-Dissolv			95.3		%		70-130	29-JUL-21
Cobalt (Co)-Dissolved	, 00		91.1		%		70-130	29-JUL-21
Copper (Cu)-Dissolved	1		88.7		%		70-130	29-JUL-21
Lead (Pb)-Dissolved	•		91.5		%		70-130	29-JUL-21
Molybdenum (Mo)-Diss	solved		N/A	MS-B	%		70-130	29-JUL-21
Nickel (Ni)-Dissolved	ooivea		83.5	WIO-D	%		- 70-130	29-JUL-21
Selenium (Se)-Dissolve	ed		99.2		%		70-130	29-JUL-21
Silver (Ag)-Dissolved	ou		63.5	MES	%		70-130	29-JUL-21
Sodium (Na)-Dissolved	4		N/A	MS-B	%		70-130	29-JUL-21
Thallium (TI)-Dissolved			91.1	WIO-D	%		- 70-130	29-JUL-21
Uranium (U)-Dissolved			N/A	MS-B	%		70-130	
Vanadium (V)-Dissolve			100.8	M3-B	%		- 70-130	29-JUL-21
			100.0		70		70-130	29-JUL-21
PAH-511-WT	Water -							
Batch R5534517 WG3583407-2 LCS	7							
1-Methylnaphthalene			94.0		%		50-140	30-JUL-21
2-Methylnaphthalene			89.4		%		50-140	30-JUL-21
Acenaphthene			93.7		%		50-140	30-JUL-21
Acenaphthylene			96.1		%		50-140	30-JUL-21
Anthracene			141.0	LCS-H	%		50-140	30-JUL-21
Benzo(a)anthracene			112.0		%		50-140	30-JUL-21
Benzo(a)pyrene			93.0		%		50-140	30-JUL-21
Benzo(b&j)fluoranthen	е		95.8		%		50-140	30-JUL-21
Benzo(g,h,i)perylene			107.9		%		50-140	30-JUL-21
Benzo(k)fluoranthene			103.7		%		50-140	30-JUL-21
Chrysene			109.2		%		50-140	30-JUL-21
Dibenz(a,h)anthracene)		102.3		%		50-140	30-JUL-21
Fluoranthene			107.9		%		50-140	30-JUL-21
Fluorene			103.0		%		50-140	



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Client: McIntosh Perry Engineering Consultants (Ottawa)

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Water							
Batch R5534517								
WG3583407-2 LCS			402.0		0/		50.440	
Fluorene			103.0		%		50-140	30-JUL-21
Indeno(1,2,3-cd)pyrene			107.7		%		50-140	30-JUL-21
Naphthalene			99.6	10011	%		50-140	30-JUL-21
Phenanthrene			164.5	LCS-H	%		50-140	30-JUL-21
Pyrene			100.0		%		50-140	30-JUL-21
WG3583407-1 MB 1-Methylnaphthalene			<0.020		ug/L		0.02	30-JUL-21
2-Methylnaphthalene			<0.020		ug/L		0.02	30-JUL-21
Acenaphthene			<0.020		ug/L		0.02	30-JUL-21
Acenaphthylene			<0.020		ug/L		0.02	30-JUL-21
Anthracene			<0.020		ug/L		0.02	30-JUL-21
Benzo(a)anthracene			<0.020		ug/L		0.02	30-JUL-21
Benzo(a)pyrene			<0.010		ug/L		0.01	30-JUL-21
Benzo(b&j)fluoranthene			<0.020		ug/L		0.02	30-JUL-21
Benzo(g,h,i)perylene			<0.020		ug/L		0.02	30-JUL-21
Benzo(k)fluoranthene			<0.020		ug/L		0.02	30-JUL-21
Chrysene			<0.020		ug/L		0.02	30-JUL-21
Dibenz(a,h)anthracene			<0.020		ug/L		0.02	30-JUL-21
Fluoranthene			<0.020		ug/L		0.02	30-JUL-21
Fluorene			<0.020		ug/L		0.02	30-JUL-21
Indeno(1,2,3-cd)pyrene			<0.020		ug/L		0.02	30-JUL-21
Naphthalene			< 0.050		ug/L		0.05	30-JUL-21
Phenanthrene			<0.020		ug/L		0.02	30-JUL-21
Pyrene			<0.020		ug/L		0.02	30-JUL-21
Surrogate: Naphthalene	e d8		66.8		%		60-140	30-JUL-21
Surrogate: Phenanthrer	ne d10		127.1		%		60-140	30-JUL-21
Surrogate: Chrysene d1	2		101.2		%		50-150	30-JUL-21
PH-WT	Water							
Batch R5547828								
WG3593569-4 DUP pH		WG3593569-3 7.45	7.38	J	pH units	0.07	0.2	10-AUG-21
WG3593569-2 LCS pH			7.00		pH units		6.9-7.1	10-AUG-21
VOC-511-HS-WT	Water							



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Client: McIntosh Perry Engineering Consultants (Ottawa)

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Water							
Batch R5532017	7							
WG3586155-4 DUP		WG3586155-			//			
1,1,1,2-Tetrachloroetha		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
1,1,2,2-Tetrachloroetha	ane	<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	30-JUL-21
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
1,3-Dichlorobenzene		<0.50	< 0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
1,4-Dichlorobenzene		<0.50	< 0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	30-JUL-21
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
Bromodichloromethane	Э	<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-JUL-21
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-JUL-21
Bromomethane		<0.50	< 0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	30-JUL-21
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	30-JUL-21
cis-1,2-Dichloroethylen	е	<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
cis-1,3-Dichloropropen	е	<0.30	<0.30	RPD-NA	ug/L	N/A	30	30-JUL-21
Dibromochloromethane	Э	<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-JUL-21
Dichlorodifluoromethar	ne	<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-JUL-21
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	30-JUL-21
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	30-JUL-21
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	30-JUL-21
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-JUL-21
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-JUL-21
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	30-JUL-21
Styrene		<0.50	<0.50		ug/L			30-JUL-21



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115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Water							
Batch R5532	017							
WG3586155-4 DU	JP	WG3586155		DD2 ***	/!		22	
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
Tetrachloroethylene)	<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
trans-1,2-Dichloroet	-	<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
trans-1,3-Dichloropr	ropene	<0.30	< 0.30	RPD-NA	ug/L	N/A	30	30-JUL-21
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
Trichlorofluorometh	ane	<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-JUL-21
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-JUL-21
WG3586155-1 LC 1,1,1,2-Tetrachloroe			95.9		%		70.400	20 1111 24
1,1,2,2-Tetrachloroe			95.9 89.2		%		70-130	29-JUL-21
, , ,			95.9				70-130	29-JUL-21
1,1,1-Trichloroethar			95.9 94.4		%		70-130	29-JUL-21
1,1,2-Trichloroethan	ie				%		70-130	29-JUL-21
1,1-Dichloroethane	_		104.4		%		70-130	29-JUL-21
1,1-Dichloroethylene	e		100.6		%		70-130	29-JUL-21
1,2-Dibromoethane	_		92.4		%		70-130	29-JUL-21
1,2-Dichlorobenzen	е		101.0		%		70-130	29-JUL-21
1,2-Dichloroethane	_		95.2		%		70-130	29-JUL-21
1,2-Dichloropropane			95.9		%		70-130	29-JUL-21
1,3-Dichlorobenzen			105.7		%		70-130	29-JUL-21
1,4-Dichlorobenzen	e		106.9		%		70-130	29-JUL-21
Acetone			105.9		%		60-140	29-JUL-21
Benzene			97.7		%		70-130	29-JUL-21
Bromodichlorometh	ane		102.9		%		70-130	29-JUL-21
Bromoform			87.3		%		70-130	29-JUL-21
Bromomethane			96.4		%		60-140	29-JUL-21
Carbon tetrachloride	9		94.8		%		70-130	29-JUL-21
Chlorobenzene			99.5		%		70-130	29-JUL-21
Chloroform			97.3		%		70-130	29-JUL-21
cis-1,2-Dichloroethy			95.6		%		70-130	29-JUL-21
cis-1,3-Dichloroprop	pene		96.0		%		70-130	29-JUL-21
Dibromochlorometh			92.6		%		70-130	29-JUL-21
Dichlorodifluoromet	hane		86.0		%		50-140	29-JUL-21



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115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Water							
Batch R5532017	7							
WG3586155-1 LCS			400.0		0/			
Ethylbenzene			100.9		%		70-130	29-JUL-21
n-Hexane			101.3		%		70-130	29-JUL-21
m+p-Xylenes			101.6 95.4		%		70-130	29-JUL-21
Methyl Isabutul Ketone					%		60-140	29-JUL-21
Methyl Isobutyl Ketone Methylene Chloride			93.3		%		60-140	29-JUL-21
MTBE			97.6 99.1		%		70-130	29-JUL-21
			99.1				70-130	29-JUL-21
o-Xylene			98.9		%		70-130	29-JUL-21
Styrene					%		70-130	29-JUL-21
Tetrachloroethylene Toluene			101.5		%		70-130	29-JUL-21
	ono		100.3		%		70-130	29-JUL-21
trans-1,2-Dichloroethyl trans-1,3-Dichloroprop			108.3 93.2		%		70-130	29-JUL-21
Trichloroethylene	CITE		93.2 96.7		%		70-130	29-JUL-21
Trichlorofluoromethane	,		97.6		%		70-130 60-140	29-JUL-21
Vinyl chloride	7		87.8		%			29-JUL-21
WG3586155-2 MB			07.0		70		60-140	29-JUL-21
1,1,1,2-Tetrachloroeth	ane		<0.50		ug/L		0.5	29-JUL-21
1,1,2,2-Tetrachloroetha	ane		<0.50		ug/L		0.5	29-JUL-21
1,1,1-Trichloroethane			<0.50		ug/L		0.5	29-JUL-21
1,1,2-Trichloroethane			<0.50		ug/L		0.5	29-JUL-21
1,1-Dichloroethane			<0.50		ug/L		0.5	29-JUL-21
1,1-Dichloroethylene			<0.50		ug/L		0.5	29-JUL-21
1,2-Dibromoethane			<0.20		ug/L		0.2	29-JUL-21
1,2-Dichlorobenzene			<0.50		ug/L		0.5	29-JUL-21
1,2-Dichloroethane			<0.50		ug/L		0.5	29-JUL-21
1,2-Dichloropropane			<0.50		ug/L		0.5	29-JUL-21
1,3-Dichlorobenzene			<0.50		ug/L		0.5	29-JUL-21
1,4-Dichlorobenzene			<0.50		ug/L		0.5	29-JUL-21
Acetone			<30		ug/L		30	29-JUL-21
Benzene			<0.50		ug/L		0.5	29-JUL-21
Bromodichloromethane	Э		<2.0		ug/L		2	29-JUL-21
Bromoform			<5.0		ug/L		5	29-JUL-21
Bromomethane			<0.50		ug/L		0.5	29-JUL-21



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Client: McIntosh Perry Engineering Consultants (Ottawa)

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Water							
Batch R5532017	,							
WG3586155-2 MB					4		0.0	
Carbon tetrachloride			<0.20		ug/L		0.2	29-JUL-21
Chlorobenzene			<0.50		ug/L		0.5	29-JUL-21
Chloroform	_		<1.0		ug/L		1	29-JUL-21
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	29-JUL-21
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	29-JUL-21
Dibromochloromethane			<2.0		ug/L		2	29-JUL-21
Dichlorodifluoromethan	е		<2.0		ug/L		2	29-JUL-21
Ethylbenzene			<0.50		ug/L		0.5	29-JUL-21
n-Hexane			<0.50		ug/L		0.5	29-JUL-21
m+p-Xylenes			<0.40		ug/L		0.4	29-JUL-21
Methyl Ethyl Ketone			<20		ug/L		20	29-JUL-21
Methyl Isobutyl Ketone			<20		ug/L		20	29-JUL-21
Methylene Chloride			<5.0		ug/L		5	29-JUL-21
MTBE			<2.0		ug/L		2	29-JUL-21
o-Xylene			< 0.30		ug/L		0.3	29-JUL-21
Styrene			< 0.50		ug/L		0.5	29-JUL-21
Tetrachloroethylene			< 0.50		ug/L		0.5	29-JUL-21
Toluene			< 0.50		ug/L		0.5	29-JUL-21
trans-1,2-Dichloroethyle	ene		< 0.50		ug/L		0.5	29-JUL-21
trans-1,3-Dichloroprope	ene		< 0.30		ug/L		0.3	29-JUL-21
Trichloroethylene			<0.50		ug/L		0.5	29-JUL-21
Trichlorofluoromethane	•		<5.0		ug/L		5	29-JUL-21
Vinyl chloride			<0.50		ug/L		0.5	29-JUL-21
Surrogate: 1,4-Difluorok	benzene		100.2		%		70-130	29-JUL-21
Surrogate: 4-Bromofluo	orobenzene		103.3		%		70-130	29-JUL-21
WG3586155-5 MS		WG3586155-3						
1,1,1,2-Tetrachloroetha			100.5		%		50-140	30-JUL-21
1,1,2,2-Tetrachloroetha	ine		86.3		%		50-140	30-JUL-21
1,1,1-Trichloroethane			103.2		%		50-140	30-JUL-21
1,1,2-Trichloroethane			91.6		%		50-140	30-JUL-21
1,1-Dichloroethane			113.4		%		50-140	30-JUL-21
1,1-Dichloroethylene			107.7		%		50-140	30-JUL-21
1,2-Dibromoethane			86.6		%		50-140	30-JUL-21
1,2-Dichlorobenzene			104.6		%		50-140	30-JUL-21



Workorder: L2618106 Report Date: 15-AUG-21 Page 11 of 17

Client: McIntosh Perry Engineering Consultants (Ottawa)

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Water							
Batch R5532017								
WG3586155-5 MS		WG3586155-			%		50.440	""
1,2-Dichloroethane			91.8				50-140	30-JUL-21
1,2-Dichloropropane			98.0		%		50-140	30-JUL-21
1,3-Dichlorobenzene			110.4		%		50-140	30-JUL-21
1,4-Dichlorobenzene			111.3		%		50-140	30-JUL-21
Acetone			96.6		%		50-140	30-JUL-21
Benzene			101.7		%		50-140	30-JUL-21
Bromodichloromethane			106.7		%		50-140	30-JUL-21
Bromoform			86.0		%		50-140	30-JUL-21
Bromomethane			95.7		%		50-140	30-JUL-21
Carbon tetrachloride			103.5		%		50-140	30-JUL-21
Chlorobenzene			103.4		%		50-140	30-JUL-21
Chloroform			101.0		%		50-140	30-JUL-21
cis-1,2-Dichloroethylene			96.7		%		50-140	30-JUL-21
cis-1,3-Dichloropropene			95.6		%		50-140	30-JUL-21
Dibromochloromethane			93.1		%		50-140	30-JUL-21
Dichlorodifluoromethane	•		89.8		%		50-140	30-JUL-21
Ethylbenzene			107.2		%		50-140	30-JUL-21
n-Hexane			110.0		%		50-140	30-JUL-21
m+p-Xylenes			110.0		%		50-140	30-JUL-21
Methyl Ethyl Ketone			80.1		%		50-140	30-JUL-21
Methyl Isobutyl Ketone			83.1		%		50-140	30-JUL-21
Methylene Chloride			97.5		%		50-140	30-JUL-21
MTBE			103.3		%		50-140	30-JUL-21
o-Xylene			104.1		%		50-140	30-JUL-21
Styrene			101.2		%		50-140	30-JUL-21
Tetrachloroethylene			105.4		%		50-140	30-JUL-21
Toluene			104.8		%		50-140	30-JUL-21
trans-1,2-Dichloroethyler	ne		113.4		%		50-140	30-JUL-21
trans-1,3-Dichloroproper	ne		89.5		%		50-140	30-JUL-21
Trichloroethylene			100.8		%		50-140	30-JUL-21
Trichlorofluoromethane			105.2		%		50-140	30-JUL-21
Vinyl chloride			91.5		%		50-140	30-JUL-21
•			-					55 552 21



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Client: McIntosh Perry Engineering Consultants (Ottawa)

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Water							
Batch R553231	17							
WG3586041-4 DUF		WG3586041-						
1,1,1,2-Tetrachloroeth		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
1,1,2,2-Tetrachloroeth		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	29-JUL-21
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	29-JUL-21
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
Bromodichloromethar	ne	<2.0	<2.0	RPD-NA	ug/L	N/A	30	29-JUL-21
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	29-JUL-21
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	29-JUL-21
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	29-JUL-21
cis-1,2-Dichloroethyle	ne	0.54	0.55		ug/L	1.8	30	29-JUL-21
cis-1,3-Dichloroprope	ne	<0.30	< 0.30	RPD-NA	ug/L	N/A	30	29-JUL-21
Dibromochloromethar	ne	<2.0	<2.0	RPD-NA	ug/L	N/A	30	29-JUL-21
Dichlorodifluorometha	ane	<2.0	<2.0	RPD-NA	ug/L	N/A	30	29-JUL-21
Ethylbenzene		<0.50	< 0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	29-JUL-21
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	29-JUL-21
Methyl Isobutyl Keton	е	<20	<20	RPD-NA	ug/L	N/A	30	29-JUL-21
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	29-JUL-21
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	29-JUL-21
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	29-JUL-21
Styrene		<0.50	<0.50		ug/L			29-JUL-21



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Client: McIntosh Perry Engineering Consultants (Ottawa)

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Water							
Batch R5532317								
WG3586041-4 DUP		WG3586041		555	/1			
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
trans-1,2-Dichloroethyle		<0.50	<0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
trans-1,3-Dichloroprope	ne	<0.30	< 0.30	RPD-NA	ug/L	N/A	30	29-JUL-21
Trichloroethylene		1.21	1.26		ug/L	4.0	30	29-JUL-21
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	29-JUL-21
Vinyl chloride		<0.50	< 0.50	RPD-NA	ug/L	N/A	30	29-JUL-21
WG3586041-1 LCS					0.4			
1,1,1,2-Tetrachloroetha			101.1		%		70-130	29-JUL-21
1,1,2,2-Tetrachloroetha	ne		103.5		%		70-130	29-JUL-21
1,1,1-Trichloroethane			110.9		%		70-130	29-JUL-21
1,1,2-Trichloroethane			97.4		%		70-130	29-JUL-21
1,1-Dichloroethane			118.2		%		70-130	29-JUL-21
1,1-Dichloroethylene			119.5		%		70-130	29-JUL-21
1,2-Dibromoethane			95.7		%		70-130	29-JUL-21
1,2-Dichlorobenzene			98.8		%		70-130	29-JUL-21
1,2-Dichloroethane			113.6		%		70-130	29-JUL-21
1,2-Dichloropropane			111.2		%		70-130	29-JUL-21
1,3-Dichlorobenzene			97.4		%		70-130	29-JUL-21
1,4-Dichlorobenzene			98.5		%		70-130	29-JUL-21
Acetone			123.6		%		60-140	29-JUL-21
Benzene			105.6		%		70-130	29-JUL-21
Bromodichloromethane			127.0		%		70-130	29-JUL-21
Bromoform			95.6		%		70-130	29-JUL-21
Bromomethane			108.5		%		60-140	29-JUL-21
Carbon tetrachloride			110.9		%		70-130	29-JUL-21
Chlorobenzene			100.5		%		70-130	29-JUL-21
Chloroform			116.9		%		70-130	29-JUL-21
cis-1,2-Dichloroethylene	9		102.2		%		70-130	29-JUL-21
cis-1,3-Dichloropropene)		105.5		%		70-130	29-JUL-21
Dibromochloromethane			100.2		%		70-130	29-JUL-21
Dichlorodifluoromethan	е		106.0		%		50-140	29-JUL-21



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Client: McIntosh Perry Engineering Consultants (Ottawa)

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Water							
Batch R5532317								
WG3586041-1 LCS			00.0		0/			
Ethylbenzene			92.8		%		70-130	29-JUL-21
n-Hexane			114.4		%		70-130	29-JUL-21
m+p-Xylenes			102.0		%		70-130	29-JUL-21
Methyl Jackstyl Ketone			103.6		%		60-140	29-JUL-21
Methyl Isobutyl Ketone			102.4		%		60-140	29-JUL-21
Methylene Chloride			114.1		%		70-130	29-JUL-21
MTBE			99.8		%		70-130	29-JUL-21
o-Xylene			92.3		%		70-130	29-JUL-21
Styrene			94.1		%		70-130	29-JUL-21
Tetrachloroethylene			88.1		%		70-130	29-JUL-21
Toluene			93.7		%		70-130	29-JUL-21
trans-1,2-Dichloroethyler			117.2		%		70-130	29-JUL-21
trans-1,3-Dichloroproper	ne		92.0		%		70-130	29-JUL-21
Trichloroethylene			105.4		%		70-130	29-JUL-21
Trichlorofluoromethane			114.8		%		60-140	29-JUL-21
Vinyl chloride			100.5		%		60-140	29-JUL-21
WG3586041-2 MB 1,1,1,2-Tetrachloroethan	10		<0.50		ug/L		0.5	29-JUL-21
1,1,2,2-Tetrachloroethan			<0.50		ug/L		0.5	29-JUL-21
1,1,1-Trichloroethane			<0.50		ug/L		0.5	
1,1,2-Trichloroethane			<0.50		ug/L		0.5	29-JUL-21
1,1-Dichloroethane			<0.50		ug/L		0.5	29-JUL-21
1,1-Dichloroethylene			<0.50		ug/L		0.5	29-JUL-21
1,2-Dibromoethane			<0.20		ug/L		0.2	29-JUL-21
1,2-Dichlorobenzene			<0.50		ug/L		0.5	29-JUL-21
1,2-Dichloroethane			<0.50		ug/L		0.5	29-JUL-21 29-JUL-21
1,2-Dichloropropane			<0.50		ug/L		0.5	
1,3-Dichlorobenzene			<0.50		_		0.5	29-JUL-21
1,4-Dichlorobenzene			<0.50		ug/L		0.5	29-JUL-21
Acetone			<30		ug/L		30	29-JUL-21
Benzene					ug/L		0.5	29-JUL-21
Bromodichloromethane			<0.50		ug/L			29-JUL-21
			<2.0		ug/L		2	29-JUL-21
Bromoform			<5.0		ug/L		5	29-JUL-21
Bromomethane			<0.50		ug/L		0.5	29-JUL-21



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Client: McIntosh Perry Engineering Consultants (Ottawa)

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Water							
Batch R5532317								
WG3586041-2 MB Carbon tetrachloride			<0.20		ug/L		0.2	29-JUL-21
Chlorobenzene			<0.50		ug/L		0.5	29-JUL-21 29-JUL-21
Chloroform			<1.0		ug/L		1	29-JUL-21
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	29-JUL-21
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	
Dibromochloromethane			<2.0		ug/L		2	29-JUL-21
Dichlorodifluoromethane			<2.0		ug/L		2	29-JUL-21
Ethylbenzene			<0.50		ug/L		0.5	29-JUL-21
n-Hexane			<0.50		ug/L		0.5	29-JUL-21 29-JUL-21
m+p-Xylenes			<0.40		ug/L		0.4	
Methyl Ethyl Ketone			<20		ug/L		20	29-JUL-21
Methyl Isobutyl Ketone			<20		ug/L		20	29-JUL-21
Methylene Chloride			<5.0		ug/L		5	29-JUL-21
MTBE			<2.0		ug/L		2	29-JUL-21 29-JUL-21
o-Xylene			<0.30		ug/L		0.3	29-JUL-21
Styrene			<0.50		ug/L		0.5	29-JUL-21
Tetrachloroethylene			<0.50		ug/L		0.5	29-JUL-21
Toluene			<0.50		ug/L		0.5	29-JUL-21
trans-1,2-Dichloroethylen	ı A		<0.50		ug/L		0.5	29-JUL-21
trans-1,3-Dichloropropen			<0.30		ug/L		0.3	29-JUL-21
Trichloroethylene			<0.50		ug/L		0.5	29-JUL-21
Trichlorofluoromethane			<5.0		ug/L		5	29-JUL-21
Vinyl chloride			<0.50		ug/L		0.5	29-JUL-21
Surrogate: 1,4-Difluorobe	enzene		99.1		%		70-130	29-JUL-21
Surrogate: 4-Bromofluoro			89.1		%		70-130	29-JUL-21
WG3586041-5 MS		WG3586041-3			,,			20 002 21
1,1,1,2-Tetrachloroethane	е		100.8		%		50-140	29-JUL-21
1,1,2,2-Tetrachloroethane	е		95.9		%		50-140	29-JUL-21
1,1,1-Trichloroethane			110.2		%		50-140	29-JUL-21
1,1,2-Trichloroethane			91.2		%		50-140	29-JUL-21
1,1-Dichloroethane			114.8		%		50-140	29-JUL-21
1,1-Dichloroethylene			113.9		%		50-140	29-JUL-21
1,2-Dibromoethane			87.7		%		50-140	29-JUL-21
1,2-Dichlorobenzene			100.7		%		50-140	29-JUL-21



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Client: McIntosh Perry Engineering Consultants (Ottawa)

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Water							
Batch R55323	17							
WG3586041-5 MS		WG3586041-			0/			
1,2-Dichloroethane			104.2		%		50-140	29-JUL-21
1,2-Dichloropropane			106.6		%		50-140	29-JUL-21
1,3-Dichlorobenzene			102.2		%		50-140	29-JUL-21
1,4-Dichlorobenzene			102.1		%		50-140	29-JUL-21
Acetone			108.9		%		50-140	29-JUL-21
Benzene			102.6		%		50-140	29-JUL-21
Bromodichlorometha	ne		121.7		%		50-140	29-JUL-21
Bromoform			89.2		%		50-140	29-JUL-21
Bromomethane			94.8		%		50-140	29-JUL-21
Carbon tetrachloride			111.5		%		50-140	29-JUL-21
Chlorobenzene			100.9		%		50-140	29-JUL-21
Chloroform			114.1		%		50-140	29-JUL-21
cis-1,2-Dichloroethyle	ene		97.1		%		50-140	29-JUL-21
cis-1,3-Dichloroprope	ene		99.4		%		50-140	29-JUL-21
Dibromochlorometha	ne		95.9		%		50-140	29-JUL-21
Dichlorodifluorometha	ane		80.9		%		50-140	29-JUL-21
Ethylbenzene			95.7		%		50-140	29-JUL-21
n-Hexane			107.5		%		50-140	29-JUL-21
m+p-Xylenes			105.4		%		50-140	29-JUL-21
Methyl Ethyl Ketone			87.0		%		50-140	29-JUL-21
Methyl Isobutyl Keton	е		87.6		%		50-140	29-JUL-21
Methylene Chloride			105.7		%		50-140	29-JUL-21
MTBE			100.2		%		50-140	29-JUL-21
o-Xylene			94.0		%		50-140	29-JUL-21
Styrene			93.6		%		50-140	29-JUL-21
Tetrachloroethylene			91.5		%		50-140	29-JUL-21
Toluene			94.1		%		50-140	29-JUL-21
trans-1,2-Dichloroeth	ylene		113.5		%		50-140	29-JUL-21
trans-1,3-Dichloropro	pene		87.9		%		50-140	29-JUL-21
Trichloroethylene			105.2		%		50-140	29-JUL-21
Trichlorofluoromethan	ne		105.8		%		50-140	29-JUL-21
Vinyl chloride			86.9		%		50-140	29-JUL-21

Workorder: L2618106 Report Date: 15-AUG-21

Client: McIntosh Perry Engineering Consultants (Ottawa)

115 Walgreen Road, R.R. 3

Carp ON K0A1L0

Contact: Stefan Holik

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.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

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 predetermined data quality objectives to provide confidence in the accuracy of associated test results.

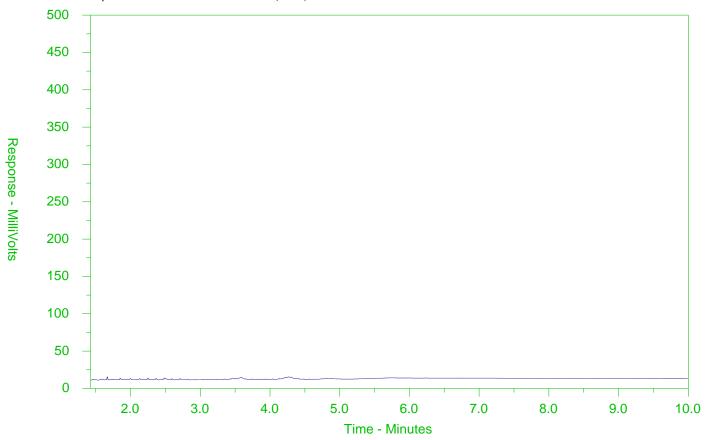
Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Page 17 of 17



ALS Sample ID: L2618106-1

Client Sample ID: 78 ROS-BH1(MW)



← -F2-	→←	_F3F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasoline →		← Mo	tor Oils/Lube Oils/Grease———	-
←	-Diesel/Jet	Fuels→		

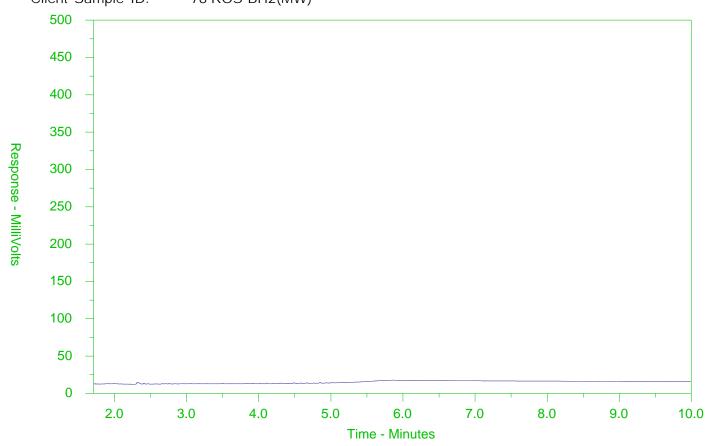
The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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.



ALS Sample ID: L2618106-2 Client Sample ID: 78 ROS-BH2(MW)



← -F2-	→←	_F3F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasoline →		← Mo	tor Oils/Lube Oils/Grease———	-
←	-Diesel/Jet	Fuels→		

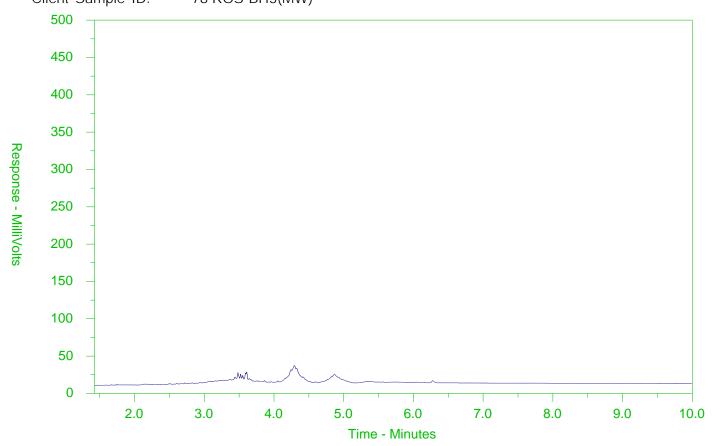
The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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.



ALS Sample ID: L2618106-3 Client Sample ID: 78 ROS-BH3(MW)



← -F2-	→←	_F3F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasoline →		← Mo	tor Oils/Lube Oils/Grease———	-
←	-Diesel/Jet	Fuels→		

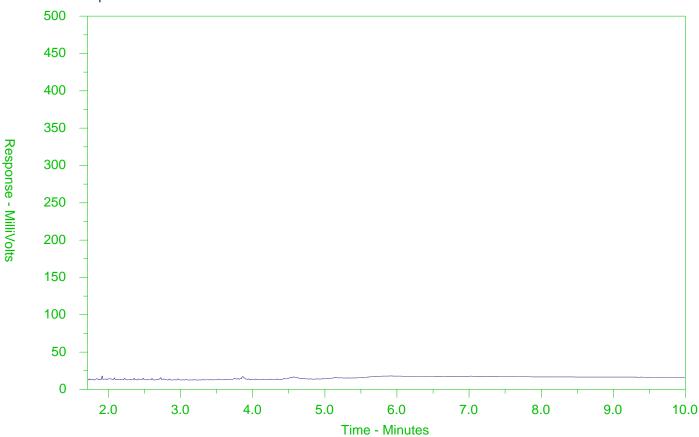
The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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.



ALS Sample ID: L2618106-4 Client Sample ID: MW1-DUP



← -F2-	→←	_F3F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasoline →		← Mo	tor 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.

Environmental

Chain of Custody (COC) / Analytic **Request Form**

Canada Toll Free: 1 800 668 9878

L2618106-COFC

COC Number: 17 -

Report To	Contact and company name below will appear on the final report	<u> </u>	Report Fo							-	41	C		4544							
Company:	McIntosh Perry - 23229							Augustinasia Augustinasia		/								the state of the s		s may app	ly)
Contact:	Stefan Holik	Quality Control (QC) Report with Report YES NO				<u> </u>	Regular [R] Standard TAT if received by 3 pm - business days - no surcharges ap 4 day [P4-20%] 5 1 Business day [F - 100%]							es apply	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Phone:	613-903-5785	Compare Results to Criteria on Report - provide details below if box checked				S Day		7 7				GENC	1 Bu	siness	day [E - 10	0%]				
	Company address below will appear on the final report		Select Distribution:						-25%]			MER								[E2 -200%	%
Street:	115 Walgreen Road RR3		Email 1 or Fax s.holik@mcintoshperry.com						-50%]			120000000000000000000000000000000000000		oratory	open/		es may			PHILIPPIN DE LOCALISMO	
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Contact:			s.holik@mcint			ΙZ		3												Ĭ	
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PO / AFE:		Requisitioner:						(8)			-									S	1
LSD:		Location:				능													Ш	6	
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ALS Lab Wor	rk Order # (lab use only): 426/9/1/6	ALS Contact:	Emily Smith	Sampler:		I H		Ino Fino						ļ							5
ALS Sample #	Sample Identification and/or Coordinates	2-1°	Date	Time		NUMBER	l	METALS &												AMP	F
(lab use only)	(This description will appear on the report)		(dd-mmm-yy)	(hh:mm)	Sample Type	·I3	PAH	ETA	VOCs	BTEX	_	F2-F4								S	g
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	78802-1342(MW)		27 -5 (1-2)	12 13500	 		1	4	4		1	-4,									
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