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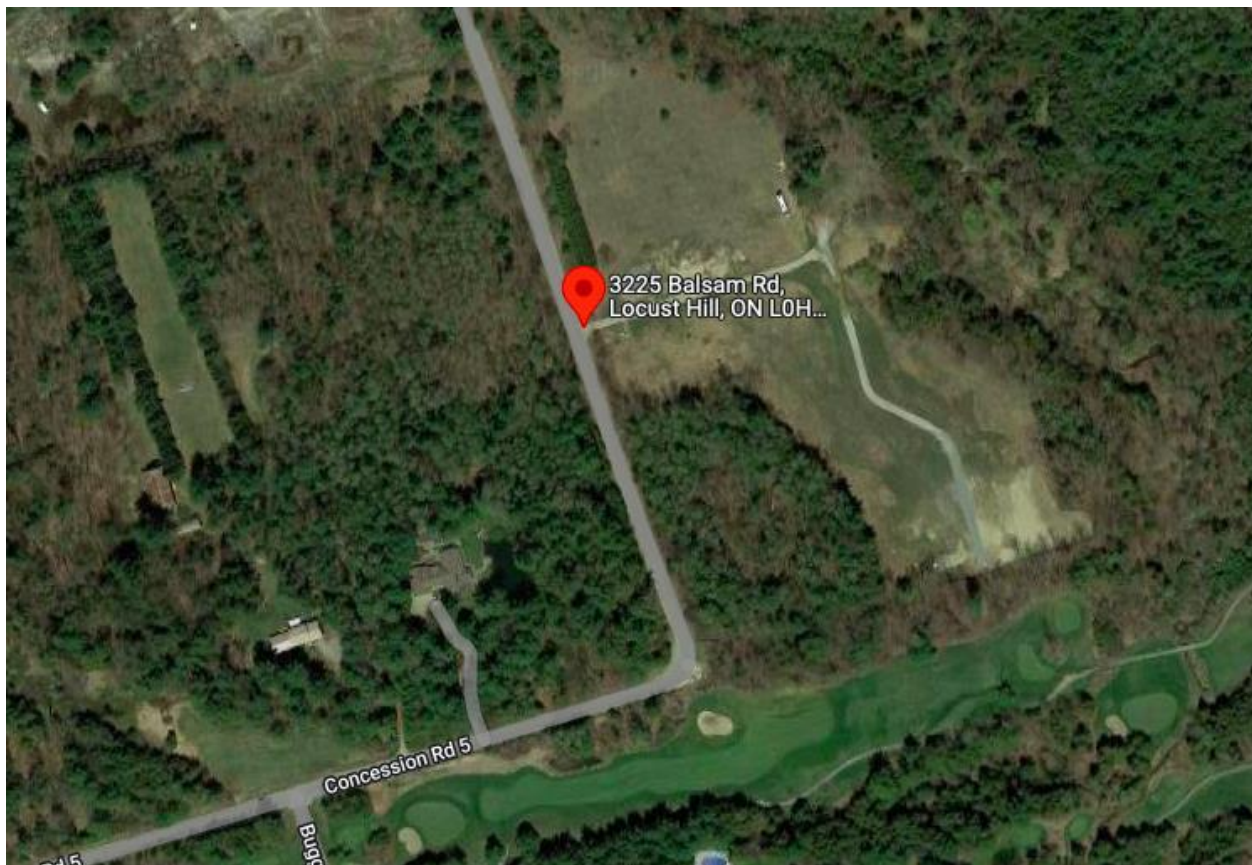
Geotechnical-Hydrogeology-Environmental-Materials-Inspection

Soil Characterization Report

3225 Balsam Road (Concession 5 Road), Pickering, ON

Prepared For:

869547 Ontario Inc.



GeoPro Project No.: 17-1780GHE3

Report Date: December 28, 2022

Professional, Proficient, Proactive

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CONSULTING LIMITED

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LIMITATIONS OF THE REPORT

1.0 EXECUTIVE SUMMARY

GeoPro Consulting Limited (“GeoPro”) was retained by 869547 Ontario Inc. (the “Client”) to prepare a Soil Characterization Report for the property located at 3225 Balsam Road (Concession 5 Road), Pickering, ON (the “Site” or “Project Area”).

The Site consists of one (1) rectangular parcel of land. At the time of preparing this Soil Characterization Report, the Site was vacant. However, remnants of a residential house were observed. Thus, the current land use of the Site is considered residential use. The Site is currently owned by the Client. We understood that the Client intends to develop the Site with residential houses and 2000 m³ of excess soil is estimated for the proposed excavation. Considering the excavation of soil at the Site, excess soil management studies are required in accordance with Ontario Regulation 406/19 (O. Reg. 406/19).

In support of filing with the Environmental Registry of Ontario, a Phase One Environmental Site Assessment (“ESA”) was conducted at the Site on September 10, 2021 by GeoPro. As per section 11. (2) of O. Reg. 406/19, Assessment of Past Uses is not required if a Phase One ESA has been prepared for the project area within the meaning of O. Reg. 153/04. Based on the results of the Phase One ESA, three (3) Areas of Potential Environmental Concern (“APECs”) were identified at the Project Area in the soil and/or crushed rock to be excavated.

The purpose of the Soil Characterization Report was to characterize the subsurface soil conditions at the Site and assess areas where contaminants may be present in the soil and/or crushed rock to be excavated. The Soil Characterization Report, which includes a Sampling and Analysis Plan, was conducted in general accordance with the On-Site and Excess Soil Regulation (O.Reg.406/19) under the Environmental Protection Act (“EPA”).

The Soil Characterization Report was completed based on the requirements of O. Reg. 406/19 and the findings of the Phase One ESA. The soil samples tested in this report were analyzed for one or more parameters including metals and inorganics, petroleum hydrocarbons (“PHCs”), volatile organic compounds (“VOCs”), polycyclic aromatic hydrocarbons (“PAHs”), polychlorinated biphenyls (“PCBs”), and organochlorine pesticides (“OCs”). Toxicity Characteristic Leaching Procedure (“TCLP”) was conducted for parameters including metals and inorganics, PAHs, VOCs, PCBs, and ignitability.

The soil analytical results were compared with the Ontario Ministry of the Environment, Conservation and Parks (MECP) “Generic Excess Soil Quality Standards”, December 2020, Table 1: Full Depth Background Site Condition Standards for Residential/Parkland/Institutional/Industrial/Community/Commercial Property Use (“MECP Table 1 Standards”); Table 2.1: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition for Residential/Parkland/Institutional (“R/P/I”) Property Use (“MECP Table 2.1 Standards”); and Table 3.1: Full Depth Excess Soil Quality Standards in a Non-Potable Ground Water

Condition for Residential/Parkland/Institutional Property Use (“MECP Table 3.1 Standards”).

The TCLP leachate results were compared with “Schedule 4 – Leachate Quality Criteria” outlined in the Ontario Regulation 347, R.R.O. 1990, made under the Environmental Protection Act.

Based on the findings of the Soil Characterization Report, the following conclusions were made:

- The soil stratigraphy at the Site generally consists of fill materials or reworked soil below topsoil, underlain by fine sandy/clayey silt and silty fine sand. Fill materials which consist mainly of silty fine sand were encountered in BH101, BH105, and BH106, and extended to depths ranging from approximately 0.1 to 1.8 meters below ground surface (“mBGS”). No bedrock was encountered at the maximum drilled depth of approximately 5 mBGS.
- Based on the Site conditions, materials to be reused on Site should meet the MECP Table 1 Standards. Additional comparisons to the MECP Table 2.1, and Table 3.1 R/P/I Standards were carried out for reuse purposes.
- Based on the soil analytical results, no exceedances of the applicable standards were found for metals and inorganics, petroleum hydrocarbons (“PHCs”), volatile organic compounds (“VOCs”), polycyclic aromatic hydrocarbons (“PAHs”), polychlorinated biphenyls (“PCBs”), and organochlorine pesticides (“OCs”) in the soil samples analyzed.
- Based on the analytical results of TCLP testing, no exceedances of the applicable standards were found for the leachate samples analyzed.

Based on the findings of the Soil Characterization Report, GeoPro provides the following recommendations.

- The groundwater table at the Site is anticipated to be shallow. Should the proposed excavation depth be deeper than the groundwater table, additional considerations should be made.
- The soils generated at the Site can be reused at the Site or at a receiving site that would accept the soils as per the test results. Further comparison and testing of the soil may be required to satisfy the requirements of the receiving Site.
- Conduct leachate testing using modified Synthetic Precipitation Leaching Procedure (mSPLP) as per O. Reg. 406/19 before the transport of excess soil.
- An Excess Soil Destination Assessment Report should be conducted in accordance with O. Reg. 406/19.
- All excess soil management, transportation, storage, disposal, and reuse should be done in accordance with O.Reg. 406/19 and the Rules for Soil Management and Excess Soil Quality Standards.

NOTE: This executive summary provides a brief overview of the study findings. It is not intended to substitute for the complete report, nor does it detail specific issues discussed within the report. This summary is not to be adopted in lieu of reading the complete report.

2.0 INTRODUCTION

GeoPro Consulting Limited (“GeoPro”) was retained by 869547 Ontario Inc. (the “Client”) to prepare a Soil Characterization Report for the property located at 3225 Balsam Road (Concession 5 Road), Pickering, ON (the “Site” or “Project Area”).

The Site consists of one (1) rectangular parcel of land. At the time of preparing this Soil Characterization Report, the Site was vacant. However, remnants of a residential house were observed. Thus, the current land use of the Site is considered residential use. The Site is currently owned by the Client. We understood that the Client intends to develop the Site with residential houses and 2000 m³ of excess soil is estimated for the proposed excavation. Considering the excavation of soil at the Site, excess soil management studies are required in accordance with Ontario Regulation 406/19 (O. Reg. 406/19).

In support of filing with the Environmental Registry of Ontario, a Phase One Environmental Site Assessment (“ESA”) was conducted at the Site in September 10, 2021 by GeoPro. As per section 11. (2) of O. Reg. 406/19, Assessment of Past Uses is not required if a Phase One ESA has been prepared for the project area within the meaning of O. Reg. 153/04. Based on the results of the Phase One ESA, three (3) Areas of Potential Environmental Concern (“APECs”) were identified at the Project Area in the soil and/or crushed rock to be excavated.

The purpose of the Soil Characterization Report was to characterize the subsurface soil conditions at the Site and assess areas where contaminants may be present in the soil and/or crushed rock to be excavated. The Soil Characterization Report, which includes a Sampling and Analysis Plan, was conducted in general accordance with the On-Site and Excess Soil Regulation (O.Reg.406/19) under the Environmental Protection Act (EPA).

2.1 Site Description

The Site consists of one (1) rectangular parcel of land with an area of approximately 179,100 m². The total volume of excavated excess soil material is estimated to be approximately 2000 m³.

The Universal Transverse Mercator (“UTM”) coordinates for the approximate centroid of the Site are Zone 17, 658506.53 m East, 4864926.26m North, as obtained from Ontario Source Protection Information Atlas based on the 1983 North American Datum.

| | |
|--|---|
| Municipal Addresses | 3225 Balsam Road (Concession 5 Road), Pickering, Ontario |
| Legal Descriptions | PT LTS 3 & 4 CON 5 PICKERING, PT 1 ON PLAN 40R25092; PICKERING, REGIONAL MUNICIPALITY OF DURHAM |
| Excavated Area (s) Location | Entire Site |
| Excess Volume | An estimated 2000 m ³ |

The Site as well as the dimensions for the excavated areas and areas of potential environmental concern are presented in Drawings No. 1A and 1B.

2.2 Property Ownership

The contact information for the Client and the Owner is provided in the table below.

| | Client | Property Owner |
|-----------|--|--|
| Name | 869547 Ontario Inc. | 869547 Ontario Inc. |
| Address | 1730 McPherson Court, Unit 21, Pickering, Ontario L1W 3E6 | 1730 McPherson Court, Unit 21, Pickering, Ontario L1W 3E6 |
| Telephone | N/A | N/A |
| Email | paul@grandhomescanada.com | paul@grandhomescanada.com |

2.3 Current and Proposed Future Uses

Based on the Phase One ESA completed by GeoPro, the Site is considered to be firstly developed for residential purposes prior to 1954. The Site is currently vacant and considered as residential use. The proposed development at the Site is for residential purpose.

2.4 Applicable Site Condition Standard

The analytical results of the soil and leachate samples were evaluated using the standards contained in the Ministry of the Environment, Conservation and Parks (MECP) Soil, Groundwater, and Sediments Standards for Use under Part XV.1 of the Environmental Protection Act dated July 1, 2011, and the standards tables from the MECP “Rules For Soil Management And Excess Soil Quality Standards” dated December 2020 (“Soil Rules 2020”) “Appendix 1 - Generic Excess Soil Quality Standards” and “Appendix 2 – Leachate Screening Levels for Excess Soil Reuse”.

The Standards applied in this Soil Characterization Report for the Site were selected based on the following information:

- Carruthers Creek is observed at the Site.
- The Site is considered to be environmentally sensitive as per Ontario Regulation 153/04 Records of Site Condition (“O. Reg. 153/04”), as the Site is located within the Toronto and Region Conservation Authority (“TRCA”) regulated area.
- The Site is not considered to be a shallow soil property, based on GeoPro’s Soil Characterization Report field investigation.
- Potable water wells were noted in the MECP Well Record Report within a 250m radius of the Site.
- The Site is intended for residential use.
- Based on field observation, the native soil materials are generally medium-to-fine textured.

- The amount of excess soil is greater than 350 m³.

Based on the above information and considering a more conservative assessment, the Ministry of the Environment, Conservation and Parks (“MECP”) Table 1 Standards: Full Depth Background Site Condition Standards for Residential/Parkland/Institutional/Industrial/Community/Commercial Property Use (“Table 1 Standards”), was used for determining on-site soil reuse. Comparisons to Table 2.1: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition for Residential/Parkland/Institutional (“R/P/I”) Property Use (“MECP Table 2.1 Standards”), and Table 3.1: Full Depth Excess Soil Quality Standards in a Non-Potable Ground Water Condition for Residential/Parkland/Institutional (“R/P/I”) Property Use (“MECP Table 3.1 Standards”), have also been carried out in this report for potential reuse or disposal determination. The TCLP leachate results were compared with “Schedule 4 – Leachate Quality Criteria” outlined in the Ontario Regulation 347, R.R.O. 1990, made under the Environmental Protection Act.

3.0 BACKGROUND

3.1 Physical Setting

Physiography

Based on the data obtained from Ontario Geological Survey (“OGS”) database, the physiography of the Site is summarized in the following table:

| Record Source | Physiography Region | Physiography Areas |
|---|---------------------|--------------------|
| Online Physiography Map of Southern Ontario | Iroquois Plan | Sand Plains |

Quaternary Geology

Based on the data obtained from the OGS database, the quaternary geology of the Site is summarized in the following table:

| Record Source | Deposit Types |
|--|---|
| Online Quaternary Geology Map of Ontario | Halton Till deposits consisting predominantly of silt to silty clay matrix, high in matrix carbonate content and clast poor. Glaciolacustrine deposits consisting predominantly of sand, gravelly sand and gravel, nearshore and beach deposits. |

Bedrock Geology

Based on the data obtained from the OGS database, the bedrock geology of the Site is summarized in the following table:

| Record Source | Geological Period | Bedrock Type | Bedrock Depth (mBGS) |
|--------------------------------|-------------------|--|-----------------------|
| Bedrock Geology Map of Ontario | Upper Ordovician | Shale, limestone, dolostone, and siltstone | Approximately 26 - 32 |

mBGS - meters below ground surface

Hydrology

Based on the data obtained from the database maintained by the local conservation authority, the hydrology in regard with the local watershed and open water body on the Site is summarized in the following table:

| Watershed | Subwatershed | On-Site Open Water | Nearest On-Site Open Water | | |
|----------------------------|-------------------------------|--------------------|----------------------------|-------------------|---|
| | | | Name | Flow Direction | Discharge Location |
| Carruthers Creek Watershed | Carruthers Creek Subwatershed | Yes | Carruthers Creek | Towards Southeast | Approximately 10.9 km southeast of the Site |

3.2 Previous Environmental Report(s)

3.2.1 Previous Investigations by GeoPro

A geotechnical investigation report entitled *“Geotechnical Investigation, Slope Stability Analysis and Geotechnical Setback Study, Part of Lots 3 and 4, Concession 5, City of Pickering, Ontario”*, dated July 05, 2017 was prepared by GeoPro.

A Preliminary Hydrogeological Site Assessment report entitled *“Preliminary Hydrogeological Site Assessment, Proposed Residential Developments, Parts of Lots 3 and 4, Concession 5, City of Pickering, Ontario”*, dated May 30, 2017 was also prepared by GeoPro.

The results of the reports have been summarized in the Phase One ESA report prepared by GeoPro.

A Phase One ESA report entitled *“Phase One Environmental Site Assessment, 3225 Balsam Road (Concession 5 Road), Pickering, ON”*, dated September 10, 2021 was prepared by GeoPro. The results demonstrated that potentially contaminating activities (“PCAs”) were indicated on the Site as well as the off-site properties within the Study Area. Three (3) areas of potential environmental concern (“APECs”) were found to be present at the Site in the areas to be excavated. The findings from the Phase One ESA have been incorporated into this report. The Phase One ESA Conceptual Site Model is presented in Drawing No. 1B.

4.0 SCOPE OF THE ASSESSMENT

4.1 Overview of Site Assessment

The objective of the Soil Characterization Report was to assess the quality of the soil and/or crushed rock being excavated at the Site.

The scope of work included the following:

- Review readily available previous reports;
- Design and implement a Sampling and Analysis Plan in general accordance with O. Reg. 406/19;
- Locate the underground and overhead utilities;
- Advance boreholes and install monitoring wells;
- Carry out elevation survey of the boreholes/monitoring wells;
- Conduct soil sampling, field screening (visual and by instrument) to optimize sample selection for quantitative chemical analyses at a Canadian Association for Laboratory Accreditation (“CALA”) accredited laboratory;
- Review and assess the analytical results of the samples analyzed;
- Prepare a draft Soil Characterization Report presenting the findings for client review; and
- Prepare a final Soil Characterization Report after addressing the comments provided by the client.

4.2 Media Investigated

Six (6) boreholes (BH101 to BH106) were advanced for the Soil Characterization Report. During the investigation, soil samples were collected from each of the six (6) boreholes (BH101 to BH106) and leachate samples were collected from BH101, BH103, BH104, and BH106.

The soil and leachate samples were delivered to a CALA accredited laboratory for quantitative analysis under a formal chain of custody.

4.3 Phase One Conceptual Site Model

The Phase One ESA report was conducted by GeoPro at the Site in general accordance with O. Reg. 153/04 as amended, from which a Phase One Conceptual Site Model (“CSM”) was established. Potentially Contaminating Activities (“PCAs”) were indicated at the Site and the properties within a 250 m radius around the Site boundary. As a result, three (3) Areas of Potential Environmental Concern (“APECs”) were found in the areas to be excavated, as shown in Drawing No. 1B.

The PCAs, APECs, and Contaminants of Potential Concern (“COPCs”) found at the Site in the areas to be excavated are summarized in the following table.

| APEC | Location of APEC | PCA Number | Location of PCA | COPCs |
|--------|--------------------------------------|------------|---|----------------------------------|
| APEC 1 | Former residential house area | 30 | <u>On-Site</u> Former residential house area | Metals, PAHs |
| APEC 2 | Northwest corner portion of the Site | 40, 52 | <u>Off-Site</u> 3330 Balsam Rd | Metals, PHCs, BTEX, PAHs, OCs |
| APEC 3 | Southwest boundary area of the Site | 40 | <u>Off-Site</u> 2700 Audley Road North | Metals, OCs |

Note: PCAs described specifically for the Project Area with reference to the applicable item number in the Table of Potentially Contaminating Activities provided in Schedule D of O.Reg.153/04 as amended, where applicable.

#30 – Importation of Fill Material of Unknown Quality

#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage, and Large-Scale Applications

#52 – Storage, maintenance, fuelling, and repair of equipment, vehicles, and material used to maintain transportation Systems

The contaminants of potential concern (“COPCs”) are listed as follows.

PAHs = Polycyclic Aromatic Hydrocarbons

BTEX = Benzene, Toluene, Ethylbenzene, Xylene

PHCs = Petroleum Hydrocarbons

OCs = Organochlorine Pesticides

4.4 Sampling and Analysis Plan

A Sampling and Analysis Plan was prepared in accordance with O. Reg. 406/19. A total of 2,000 m³ of excess soil is estimated to be generated during the proposed development at the Site. As determined based on the Soil Rules 2020, a minimum of ten (10) soil samples and four (4) leachate samples were required for analysis. Ten (10) soil samples and one (1) duplicate sample were submitted for analysis of bulk parameters. In addition, four (4) soil samples were submitted for leachate analysis under the Toxicity Characteristic Leaching Procedure (“TCLP”).

All soil samples submitted for analysis were tested against the mandatory testing parameters as outlined in O. Reg 406/19 and the Soil Rules 2020. In addition, selected soil samples were analysed for the COPCs identified in the Phase One ESA.

A summary of the in-situ samples taken, and the parameters analyzed, as well as the rationale for sampling, is presented in Table I and Table II.

4.4.1 Deviations from Sampling and Analysis Plan

The soil and leachate sampling program was carried out in accordance with the Sampling and Analysis Plan prepared for the Soil Characterization Report.

4.4.2 Impediments

No significant impediments were encountered to affect implementation of site activities including the site visit, surveying, borehole drilling, and soil sampling.

5.0 INVESTIGATION METHOD

5.1 General

All methods used to complete this Soil Characterization Report were in accordance with O. Reg. 406/19, the Soil Rules 2020, the relevant sections of O. Reg. 153/04, GeoPro standard operating procedures, and generally accepted industry practices.

5.2 Borehole Drilling and Monitoring Well Installation

Prior to the intrusive investigation, the underground utilities were located and marked out in the field by the representatives of the major utility companies contacted through Ontario-One-Call and a private locator.

The drilling activities for the Soil Characterization Report were carried out on August 27, 2021. A total of six (6) boreholes (BH101 to BH106) were advanced to a depth of 5 mBGS.

The approximate borehole locations are shown in Drawing No. 2.

All field work was supervised and overseen by on-site GeoPro technical staff who determined the locations of all boreholes, logged each borehole (detailed lithology and observational comments), and secured samples of all media collected during the sampling program visually and instrumentally.

5.3 Soil Sampling

Soil samples were collected at regular intervals with a 50 mm O.D. split-barrel sampler driven with a hammer weighing 624 N and dropping 760 mm in accordance with the Standard Penetration Test (“SPT”) method. Soil samples were selected for quantitative analyses based on visual observation and field screening using the photoionization detector (“PID”) and the flame ionization detector (“FID”).

To prevent cross-contamination between sampling events and boreholes, appropriate decontamination protocols of soil sampling equipment and tools were carried out. A set of flight augers and tools were pre-cleaned by the drilling contractor prior to arrival on the site. The split spoon samplers were decontaminated prior to and between each soil sampling event by scrubbing with a wire brush and washing in a solution of Alconox solution and rinsing with distilled water. The wash water was drummed

for future management based on its quality relative to accepted standards. Dedicated disposable latex/nitrile gloves were used for each sampling event to prevent cross-contamination.

Each soil sample was split into two (2) portions. One (1) portion was placed into sealable plastic bags and allowed to reach ambient temperature for at least one-half hour, making sure to break up the sample inside the bag from outside the bag. The headspace in the bag was sampled using a PID by opening a small portion of the top of the bag and placing the PID tip into the headspace, taking care not to physically contact the sample. The other portion of the soil sample was logged and placed in laboratory-provided sample containers with or without the appropriate laboratory-provided preservatives in accordance with accepted analytical protocols, making sure to eliminate any headspace when sampling for VOCs. All soil samples were placed on ice in coolers for submission to the CALA accredited laboratory under a formal chain of custody.

All soil samples were logged in the field according to soil type, moisture content, colour, consistency, and presence of visual and/or olfactory indicators of potential impact, and then taken to the GeoPro laboratory for detailed examination by the project engineer. Details of the visual observations, including inferred stratigraphy and soil classification are presented on the Borehole Logs included in Appendix A.

5.4 Soil: Field Screening Measurements

As a preliminary screening, the soil headspace vapour concentrations were measured using an RKI Eagle II equipped with an FID for combustible gas concentrations, and a PID for volatile organic compound (“VOCs”) concentrations. The RKI Eagle II was calibrated to hexane span gas for the FID, and to isobutylene span gas for the PID.

There are no regulatory criteria for soil vapours; however, measurements of soil vapour concentrations are often used as a field screening tool to indicate petroleum hydrocarbon and/or VOC impacted soils and to optimize selection of samples for quantitative analysis at the contract CALA accredited laboratory.

5.5 Analytical Testing

The collected soil samples were submitted to Eurofins Environment Testing Canada Inc. (“Eurofins”) in Ottawa, Ontario, and ALS Environmental (“ALS”) in Waterloo, Ontario for bulk and TCLP analysis, respectively. Both Eurofins and ALS are accredited by the Canadian Association for Laboratory Accreditation (“CALA”) and meets the requirements of Section 47 of O. Reg. 153/04 certifying that the analytical laboratory be accredited in accordance with the International Standard ISO/IEC 17025, and with the standards developed by the Standards Council of Canada, and MECP Protocol for Analytical Methods Used in the Assessment of Properties and Excess Soil Quality under Part XV.1 of the Environmental Protection Act (MECP Protocol for Analytical Methods).

The analytical protocols were selected to meet the requirement of the Soil Rules 2020 and address the potential impact due to the COPCs in the area of potential environmental concern (“APEC”) as documented in the GeoPro’s Phase One ESA report dated September 10, 2021.

A summary of the in-situ samples taken, and the parameters analyzed, as well as the rationale for sampling, is presented in Table I and Table II. The results from the chemical analysis are summarized in Table III and IV and are presented in Appendix B and C.

5.6 Residue Management Procedures

All residues produced during the investigation were placed in sealed drums and secured at the Site pending receipt of laboratory analytical results for their management.

5.7 Elevation Survey

The elevations of the boreholes were surveyed by GeoPro staff on October 1, 2021 using GPS survey equipment. The survey data are presented on the attached Borehole Logs in Appendix A.

5.8 Quality Assurance (QA) and Quality Control (QC) Measures

The Soil Characterization Report was carried out in accordance with the Sampling and Analysis Plan prepared according to the previous findings of Phase One ESA. One (1) duplicate soil sample was collected for the Quality Assurance (“QA”) and Quality Control (“QC”) measures (“QA/QC”).

All the soil and leachate samples were collected, handled, and analyzed in general accordance with O. Reg. 406/19 and the Soil Rules 2020. The field observations were made and documented in accordance with the generally accepted sampling and handling procedures used by the environmental consulting industry. All sample containers, preservatives, and labels were supplied by the laboratory. The samples were stored on ice in coolers for delivery to a CALA laboratory by GeoPro under a formal chain of custody. As previously stated, the samples were submitted to a CALA laboratory for quantitative analysis in accordance with accepted analytical methods and QA/QC procedures.

6.0 REVIEW AND EVALUATION

6.1 Soil Stratigraphy

Detailed descriptions of the subsurface conditions are presented on the Borehole Logs provided in Appendix A.

The soil stratigraphy at the Site generally consists of fill materials or reworked soil below topsoil, underlain by fine sandy silt, silty fine sand, silty sand, fine sand and silt to fine sandy silt/clayey silt and silty fine

sand. Fill materials which consist mainly of silty fine sand were encountered in BH101, BH105 and BH106 and extended to depths ranging from approximately 0.1 to 1.8 mBGS. Water was encountered between depths of 1.4-4.6 mBGS. No bedrock was encountered at the maximum drilled depth of approximately 5 mBGS.

6.2 Soil Texture

During the previous geotechnical investigation at the Site, most of the samples were found to contain less than 50% by mass of particles that are 75 micrometres or larger in mean diameter. Therefore, the soils at the Site are classified as medium-to-fine textured soils in accordance with O. Reg. 153/04, as amended (Section 42(2)).

6.3 Groundwater Conditions

Monitoring wells were not installed during this Soil Characterization Report. However, during borehole drilling for soil sampling conducted by GeoPro, groundwater was encountered at depths ranging from 1.4-4.6 mBGS.

The inferred local shallow groundwater flow direction at the Site is generally southeast in the west portion and southwest in the east portion towards the Carruthers Creek.

It should be noted that groundwater levels are expected to vary over time and are subject to seasonal fluctuations. In addition, the local flow direction, which is driven by the local hydraulic gradient, may diverge from the regional flow direction, as well as the distribution of underground utilities.

6.4 Soil: Field Screening

No visual evidence of staining was observed during borehole advancement and soil sample collection.

6.5 Soil Quality

The results of soil analysis were compared with the Ontario Ministry of the Environment, Conservation and Parks (MECP) “Generic Excess Soil Quality Standards”, December 2020, Table 1: Full Depth Background Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use (“MECP Table 1 Standards”); Table 2.1: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition for Residential/Parkland/Institutional (“R/P/I”) Property Use (“MECP Table 2.1 Standards”); and Table 3.1: Full Depth Excess Soil Quality Standards in a Non-Potable Ground Water Condition for R/P/I Property Use (“MECP Table 3.1 Standards”).

Based on the comparison, no exceedances of the applicable standards were found for metals and inorganics, PHCs, PAHs, PCBs, VOCs, and OCs in the soil samples submitted for quantitative analysis.

The analytical results of the soil samples are presented in the Laboratory Certificate of Analysis in Appendix B. The soil quality at the Site is presented in Drawing No. 3 and summarized in Table III.

6.6 Leachate Quality

The TCLP leachate results were compared with “Schedule 4 – Leachate Quality Criteria” outlined in the Ontario Regulation 347, R.R.O. 1990, made under the Environmental Protection Act.

Based on the comparison, no exceedances of the applicable standards were found for metals and inorganics, PAHs, VOCs, PCBs, and ignitability in the leachate samples submitted for quantitative analysis.

The analytical results of the leachate samples are presented in the Laboratory Certificate of Analysis in Appendix C. A summary of leachate quality at the Site is presented in Drawing No. 4 and summarized in Table IV.

6.7 Quality Assurance and Quality Control (QA/QC) Results

The Soil Characterization Report was carried out in accordance with the Sampling and Analysis Plan, and with the GeoPro standard operating procedures.

All the soil and leachate samples were collected, handled, and analyzed in general accordance with O. Reg. 406/19 and the MECP Protocol for Analytical Methods.

6.7.1 Field Quality Assurance/Quality Control Samples

One (1) duplicate soil sample was included for analysis of metals and inorganics in the sampling and analysis program.

The analytical results of the field duplicate QA/QC samples are included in Appendix B.

Field Duplicate Samples

Details of QA/QC field duplicate samples are presented in the table below.

| Duplicate Sample ID | Original Sample | Media | Parameter Analyzed |
|---------------------|-----------------|-------|-----------------------|
| BH106 SS2D | BH106 SS2 | Soil | Metals and Inorganics |

The Relative Percentage Difference (“RPD”) is a method of measuring the variation in a set of data that looks at the variation as a proportion of the average or target value. The RPD for the parameters detected with the concentrations five (5) times the detection limits were calculated, and the results are within the acceptable ranges. Therefore, the results of the duplicate samples are similar to the results of the original samples with respect to the parameters analyzed.

6.7.2 Sample Handling in Accordance with the Analytical Protocol

The samples analyzed as part of the Soil Characterization Report were handled in accordance with the MECP Protocol for Analytical Methods with respect to holding time, preservation method, storage requirement, and sample container type.

- The soil and leachate samples were submitted with chains of custody to the laboratory;
- The soil samples were analyzed by Eurofins Environmental Laboratories (“EUROFINS”) in Ottawa, Ontario and the leachate samples were analyzed by ALS Environmental Laboratory (“ALS”) in Waterloo, Ontario. Both laboratories are accredited by CALA; and
- The analytical results were reported in the laboratory Certificates of Analysis in accordance with O. Reg. 153/04, as amended (Appendix B and C).

6.7.3 Certification of Results

Based on a review of the QA/QC sample results, chain of custody, and the laboratory Certificates of Analysis, GeoPro confirms that:

- All Certificates of Analysis or Analytical Reports received pursuant to Section 47(2) of O. Reg. 153/04 (amended), comply with Section 47(3) of O. Reg. 153/04, as amended and O. Reg. 406/19;
- A Certificate of Analysis or Analytical Report has been received for each sample submitted for quantitative analysis; and
- All Certificates of Analysis are included in Appendix B and C.

6.7.4 Laboratory QA/QC Results

ALS and Eurofins have established and implemented their own internal QA/QC analytical protocol, consisting of analyzing duplicate, blank, control, certified reference material, and matrix spike samples.

Based on a review of the data in the laboratory Certificates of Analysis, the following inferences were made:

- All samples/sample extracts were analyzed within the applicable holding times using approved analytical methods.
- The reported detection limits were acceptable for all tested parameters.
- The recovery percentage for the surrogate samples were within the acceptable range.
- The results for the laboratory duplicate samples were similar to the results for the original samples, and relative percent differences for the detectable tested parameters were within the acceptable range.

In conclusion, the field and laboratory data obtained met the general requirements for the investigation, and the overall quality of the data did not affect the decision making in this Soil Characterization Report.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Conclusions

GeoPro conducted a Soil Characterization Report at the Site based on the information obtained from the Phase One ESA. The soil samples were analyzed for parameters including OCs, PAHs, PCBs, PHCs, VOCs, and metals and inorganics. The results of soil analysis were compared with the Ontario Ministry of the Environment, Conservation and Parks (MECP) “Generic Excess Soil Quality Standards”, December 2020, Table 1: Full Depth Background Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use (“MECP Table 1 Standards”); Table 2.1: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition for Residential/Parkland/Institutional Property Use (“MECP Table 2.1 Standards”); and Table 3.1: Full Depth Excess Soil Quality Standards in a Non-Potable Ground Water Condition for Residential/Parkland/Institutional Property Use (“MECP Table 3.1 Standards”).

Selected samples underwent a TCLP leachate analysis for metals and inorganics, VOCs, PCBs, PAHs, and ignitability. The TCLP leachate results were compared with “Schedule 4 – Leachate Quality Criteria” outlined in the Ontario Regulation 347, R.R.O. 1990, made under the Environmental Protection Act.

Based on the findings of the Soil Characterization Report, the following conclusions were made:

- The soil stratigraphy at the Site generally consists of fill materials or reworked soil below topsoil, underlain by fine sandy/clayey silt and silty fine sand. Fill materials which consist mainly of silty fine sand were encountered in BH101, BH105 and BH106, and extended to depths ranging from approximately 0.1 to 1.8 mBGS. No bedrock was encountered at the maximum drilled depth of approximately 5 mBGS.
- Based on the Site conditions, materials to be reused on Site should meet the MECP Table 1 Standards. Additional comparisons to MECP Table 2.1 and Table 3.1 Standards were carried out for reuse purposes.
- Based on the soil analytical results, no exceedances of the applicable standards were found for metals and inorganics, petroleum hydrocarbons (“PHCs”), volatile organic compounds (“VOCs”), polycyclic aromatic hydrocarbons (“PAHs”), polychlorinated biphenyls (“PCBs”), and organochlorine pesticides (“OCs”) in the soil samples analyzed.
- Based on the analytical results of TCLP testing, no exceedances of the applicable standards were found for the leachate samples analyzed.

Based on the findings of the Soil Characterization Report, GeoPro provides the following recommendations.

- The groundwater table at the Site is anticipated to be shallow. Should the proposed excavation depth be deeper than the groundwater table, additional considerations should be made.
- The soils generated at the Site can be reused at the Site or at a receiving site that would accept the soils as per the test results. Further comparison and testing of the soil may be required to satisfy the requirements of the receiving Site.
- Conduct Leachate testing using modified Synthetic Precipitation Leaching Procedure (mSPLP) as per O. Reg. 406/19 before the transport of excess soil.
- An Excess Soil Destination Assessment Report should be conducted in accordance with O. Reg. 406/19.
- All excess soil management, transportation, storage, disposal, and reuse should be done in accordance with O.Reg. 406/19 and the Rules for Soil Management and Excess Soil Quality Standards.

8.0 SIGNATURE

This report was conducted by Sinclair Kenrick Hidajat and supervised by David Liu, who is a Qualified Person with the MECP as defined under Ontario Regulation 153/04.

We trust that the information contained in this report is complete within our terms of reference. If you have any questions or require further information, please do not hesitate to contact our office.

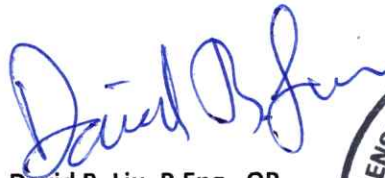
Sincerely,

GeoPro Consulting Limited

Geotechnical - Hydrogeology - Environmental - Materials Testing – Inspection



Sinclair Kenrick Hidajat, B.A.Sc.



David B. Liu, P.Eng., QP
Principal





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TABLES

| Table I: Soil Sample Analytical Protocol | | | | | |
|--|------------|------------------|--------------|--|--|
| Sample Location | Sample ID | Date of Sampling | Sample Depth | Chemical Analysis | Rationale |
| BH101 | BH101 SS2 | 27/08/2021 | 0.76 - 1.22 | Metals & Inorganics, PHCs, PCBs, VOCs, PAHs | To assess the soil quality in APEC 1 and general soil quality in the excavated areas |
| | BH101 SS3 | 27/08/2021 | 1.52 - 1.98 | Metals & Inorganics, PHCs, PCBs, VOCs, PAHs | To assess the soil quality in APEC 1 and general soil quality in the excavated areas |
| BH102 | BH102 SS1 | 27/08/2021 | 0.3 - 0.61 | Metals & Inorganics, PHCs, PCBs, VOCs, PAHs, OCs | To assess the soil quality in APEC 2 and general soil quality in the excavated areas |
| BH103 | BH103 SS2 | 27/08/2021 | 0.76 - 1.22 | Metals & Inorganics, PHCs, PCBs, VOCs, PAHs, OCs | To assess the soil quality in APEC 2 and general soil quality in the excavated areas |
| | BH103 SS3 | 27/08/2021 | 1.52 - 1.98 | Metals & Inorganics, PHCs, PCBs, VOCs, PAHs, OCs | To assess the soil quality in APEC 2 and general soil quality in the excavated areas |
| BH104 | BH104 SS2 | 27/08/2021 | 0.76 - 1.22 | Metals & Inorganics, PHCs, PCBs, VOCs, PAHs, OCs | To assess the soil quality in APEC 3 and general soil quality in the excavated areas |
| | BH104 SS4 | 27/08/2021 | 2.29 - 2.74 | Metals & Inorganics, PHCs, PCBs, VOCs, PAHs, OCs | To assess the soil quality in APEC 3 and general soil quality in the excavated areas |
| BH105 | BH105 SS1 | 27/08/2021 | 0.25 - 0.61 | Metals & Inorganics, PHCs, PCBs, VOCs, PAHs, OCs | To assess the soil quality in APEC 3 and general soil quality in the excavated areas |
| BH106 | BH106 SS2 | 27/08/2021 | 0.76 - 1.22 | Metals & Inorganics, PHCs, PCBs, VOCs, PAHs, OCs | To assess the soil quality in APEC 3 and general soil quality in the excavated areas |
| | BH106 SS2D | 27/08/2021 | 0.76 - 1.22 | Metals & Inorganics | QA/QC: duplicate soil sample of BH106 SS2 |
| | BH106 SS4 | 27/08/2021 | 2.29 - 2.74 | Metals & Inorganics, PHCs, PCBs, VOCs, PAHs, OCs | To assess the soil quality in APEC 3 and general soil quality in the excavated areas |

Note:

QA/QC = Quality Assurance/Quality Control

VOCs = Volatile Organic Compounds

PCBs = Polychlorinated Biphenyls

PAHs = Polycyclic Aromatic Hydrocarbons

PHCs = Petroleum Hydrocarbons

OCs = Organochlorine Pesticides

| Table II: Leachate Sample Analytical Protocol | | | | |
|---|-----------|------------------|--------------|---|
| Sample Location | Sample ID | Date of Sampling | Sample Depth | Chemical Analysis |
| BH101 | BH101 SS2 | 27/08/2021 | 0.76 - 1.22 | Metals & Inorganics, PCBs, VOCs, PAHs, Ignitability |
| BH103 | BH103 SS3 | 27/08/2021 | 1.52 - 1.98 | Metals & Inorganics, PCBs, VOCs, PAHs, Ignitability |
| BH104 | BH104 SS4 | 27/08/2021 | 2.29 - 2.74 | Metals & Inorganics, PCBs, VOCs, PAHs, Ignitability |
| BH106 | BH106 SS4 | 27/08/2021 | 2.29 - 2.74 | Metals & Inorganics, PCBs, VOCs, PAHs, Ignitability |

Note:

VOCs = Volatile Organic Compounds

PCBs = Polychlorinated Biphenyls

PAHs = Polycyclic Aromatic Hydrocarbons

| Table III: Soil Sample Comparison | | | | | |
|-----------------------------------|------------|---------------|---|---|---|
| Sample Location | Sample ID | Date Reported | Comparison with Table 1 Standards R/P/I/I/C/C | Comparison with Table 2.1 Standards R/P/I | Comparison with Table 3.1 Standards R/P/I |
| BH101 | BH101 SS2 | 17/09/2021 | Passed | Passed | Passed |
| | BH101 SS3 | 17/09/2021 | Passed | Passed | Passed |
| BH102 | BH102 SS1 | 17/09/2021 | Passed | Passed | Passed |
| BH103 | BH103 SS2 | 17/09/2021 | Passed | Passed | Passed |
| | BH103 SS3 | 17/09/2021 | Passed | Passed | Passed |
| BH104 | BH104 SS2 | 17/09/2021 | Passed | Passed | Passed |
| | BH104 SS4 | 17/09/2021 | Passed | Passed | Passed |
| BH105 | BH105 SS1 | 17/09/2021 | Passed | Passed | Passed |
| BH106 | BH106 SS2 | 17/09/2021 | Passed | Passed | Passed |
| | BH106 SS2D | 17/09/2021 | Passed | Passed | Passed |
| | BH106 SS4 | 17/09/2021 | Passed | Passed | Passed |

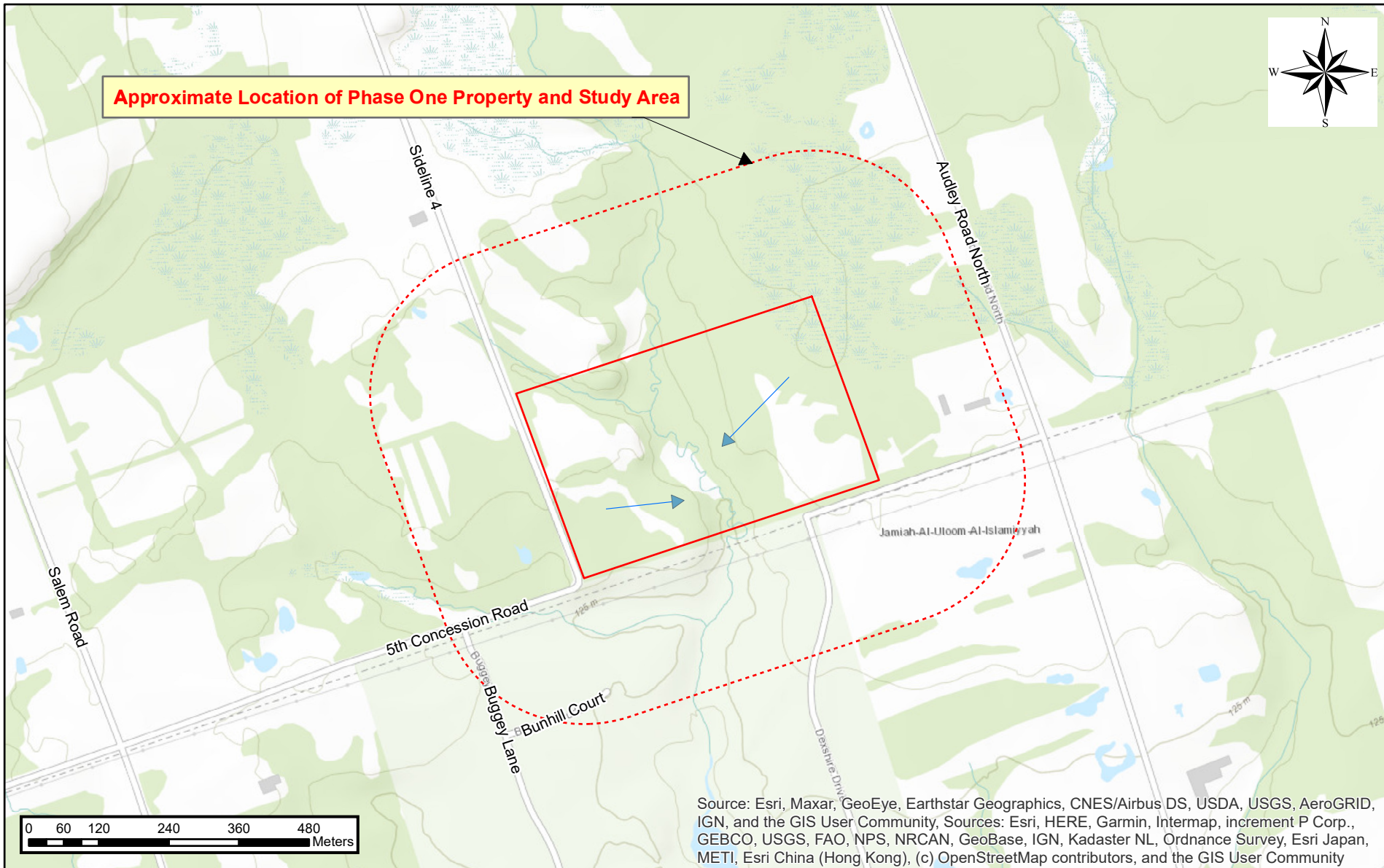
| Table IV: Leachate Sample Comparison | | | |
|---|------------------|----------------------|--|
| Sample Location | Sample ID | Date Reported | Comparison with Leachate Quality Criteria |
| BH101 | BH101 SS2 | 16/09/2021 | Passed |
| BH103 | BH103 SS3 | 16/09/2021 | Passed |
| BH104 | BH104 SS4 | 16/09/2021 | Passed |
| BH106 | BH106 SS4 | 16/09/2021 | Passed |



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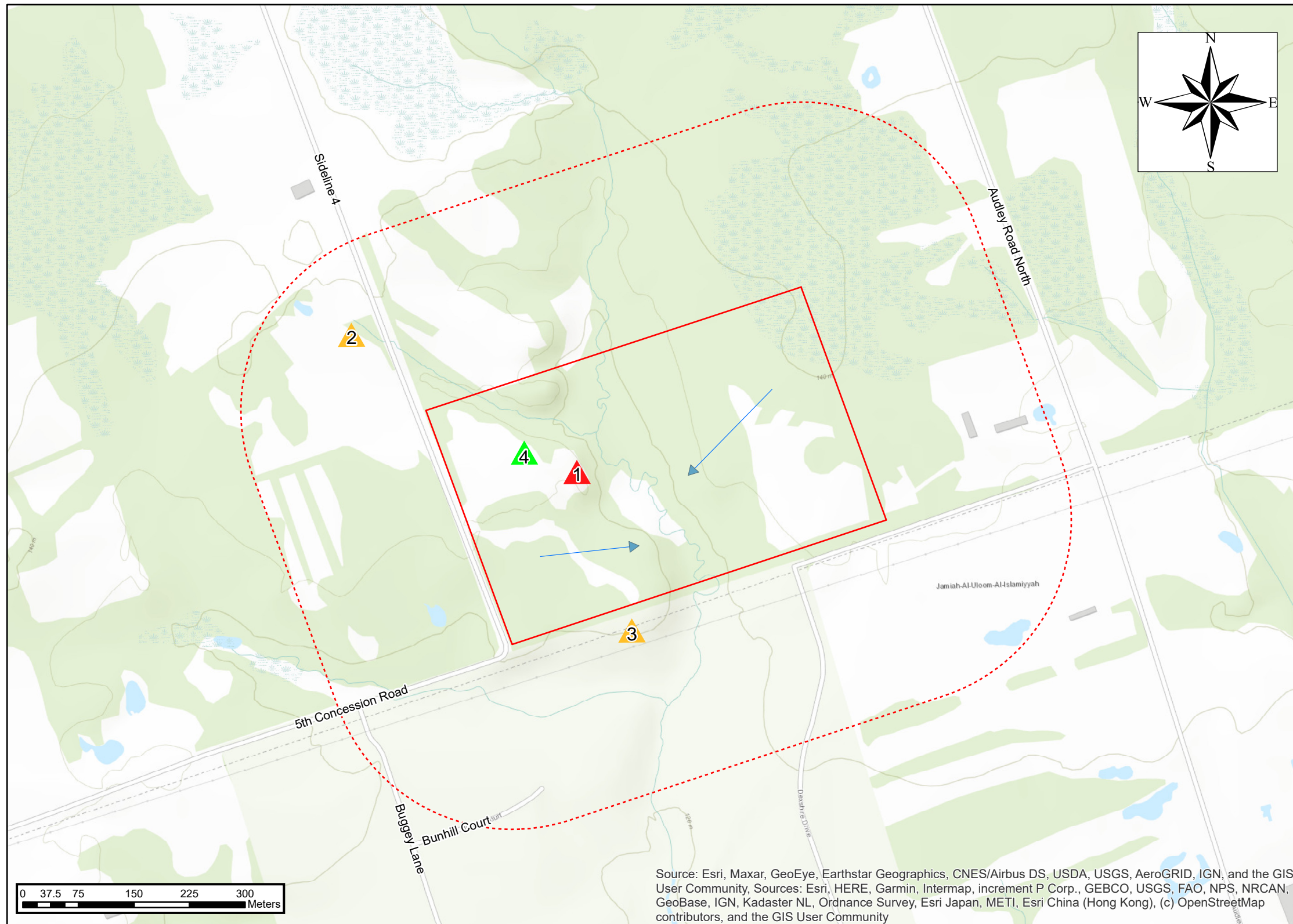
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DRAWINGS



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

| | | | | | | |
|--|--------------------------------|------------------------------|---|------------------------|-----------------|-----------------------|
| Legend Project Area Study Area Inferred Groundwater Flow Direction | | | Map Sources: ArcGIS Basemap projected in NAD83 UTM Zone 17N - Topographic | | | |
| Prepared by: BN | Rev: KY | Approved: KY | Scale: As Shown | Project No.: 17-1780E3 | Drawing No.: 1A | Original Size: Letter |
| Date: July 2021 | Client: 869547 Ontario Inc. | Title: Site Location Plan | Project: Soil Characterization Report Proposed Residential Development at Part of Lot 3 & 4 Concession Road 5, Pickering, Ontario | | | |



PCAs with Contribution to APEC

| MAP ID | FIGURE ID | Location | PCA |
|--------|-------------|--------------------------|-------|
| 1 | AP3 | Former residential house | 30 |
| 2 | E1,AP2,SN1 | 3330 Balsam Road | 40,52 |
| 3 | AP1,CD1,SN2 | 2700 Audley Road North | 40 |

PCAs without Contribution to APEC

| MAP ID | FIGURE ID | Location | PCA |
|--------|-----------|------------------|-----|
| 4 | PR1,SS1 | Entire Site Area | 30 |

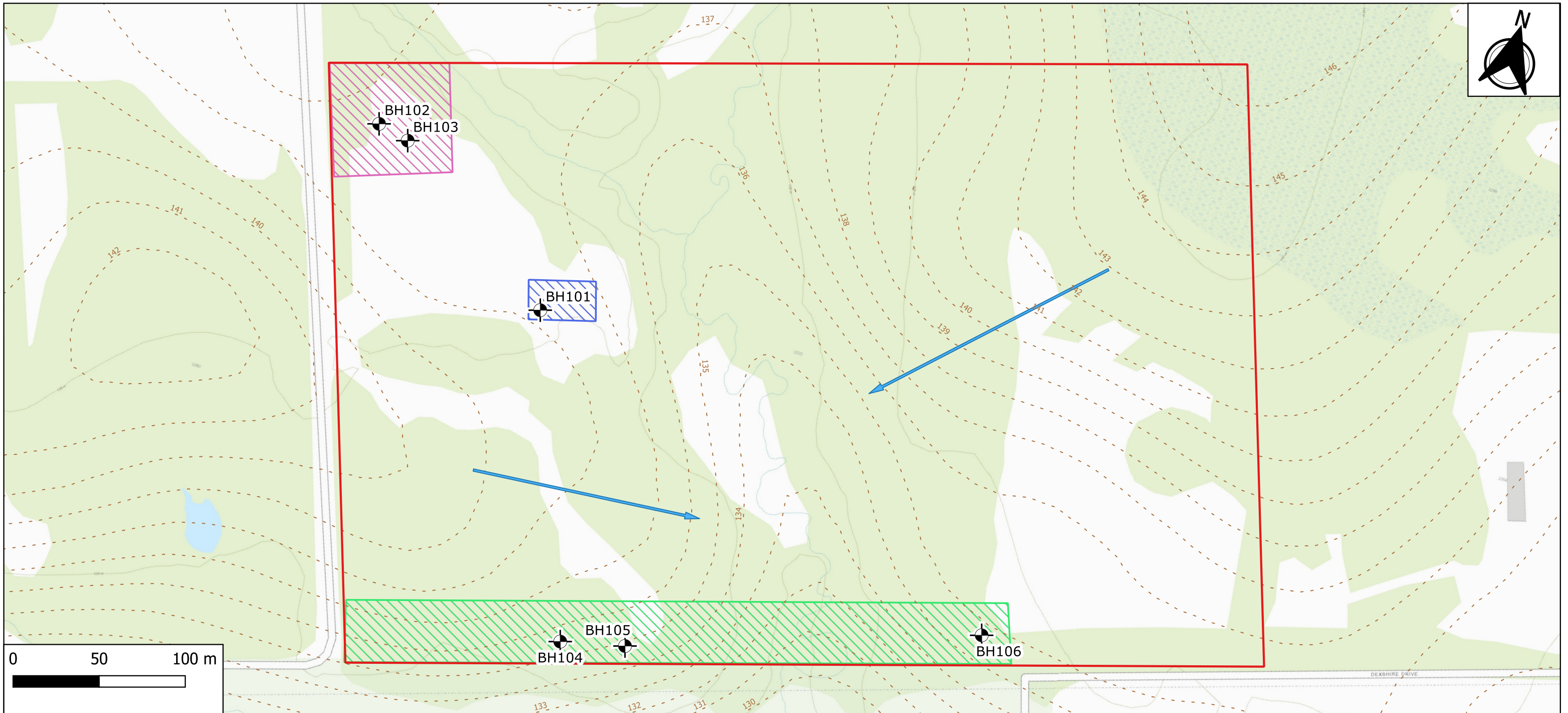
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

| Legend | | PCA Risk | |
|--------|----------------------------|----------|--------|
| | Project Area | | Low |
| | Study Area | | Medium |
| | Inferred GW Flow Direction | | High |

Map Sources:
 ArcGIS Basemap projected in NAD83 UTM Zone 17N - Topographic
 Definitions: "APEC" - Area of Potential Environmental Concern
 "PCA" - Potentially Contaminating Activity
 PCA Numbers are in accordance with Table 2, Schedule D of O. Reg. 153/04

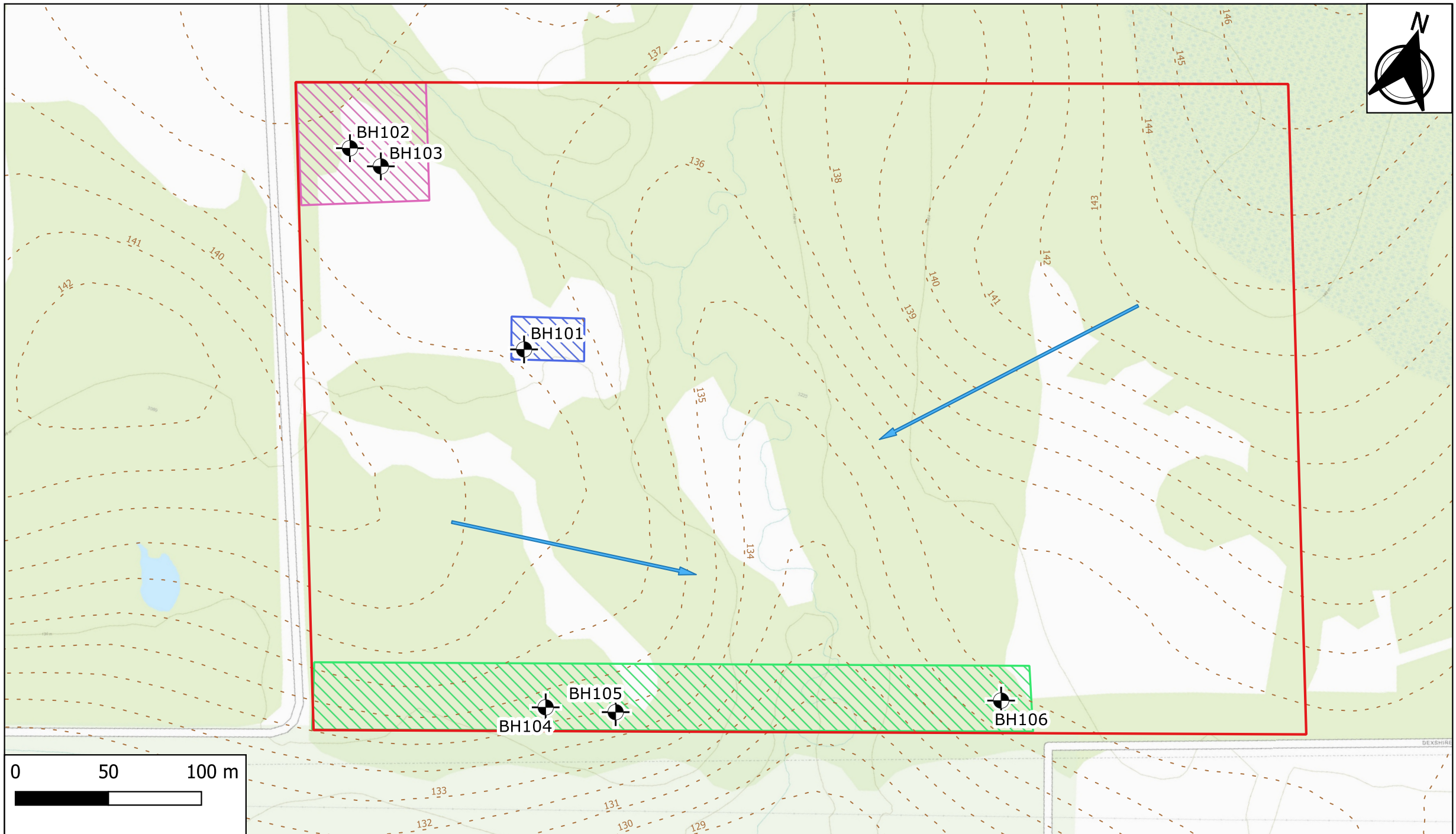
Notes:
 PCA numbers are in accordance with Table 2, Schedule D of O. Reg. 153/04.
 #30 - Importation of Fill Material of Unknown Quality
 #40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications
 #52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems

| | | | | | |
|-----------------|-----------------------------|--|------------------------|----------------|--------------------------|
| Prepared by: BN | Rev: SK | Scale: As Shown | Project No.: 17-1780E3 | Drawing No. 1B | Original Size: 11" x 17" |
| Date: July 2021 | Client: 869547 Ontario Inc. | Title: Phase One Conceptual Site Model | | | |



| | |
|---|---|
| Legend Project Area Surface Contour Inferred Groundwater Flow Direction Borehole APEC 1 APEC 2 APEC 3 | Definitions: "APEC" = Area of Potential Environmental Concern "PCA" = Potentially Contaminating Activity PCAs are in accordance with Table 2, Schedule D of O. Reg 153/04 |
|---|---|

| | | | | | |
|---|---|-----------------------|----------------------------------|----------------|-----------------------------|
| Map Sources: ESRI World Topographic Map Map Projection: NAD 83 Zone 17 UTM | Project: 17-1780E3 Soil Characterization Report Proposed Residential Development at Part of Lot 3 & 4 Concession Road 5, Pickering, Ontario Client: 869547 Ontario Inc. | Created by: VC | Approved by: VC | Drawing No.: 2 | Original Size: 11" x 17" |
| | | Date: October 2021 | Title: Borehole Location Plan | | |



Comparison with
Table 1 Standards
R/P/I/I/C/C

No exceedances found

Comparison with
Table 2.1 & 3.1 Standards
R/P/I

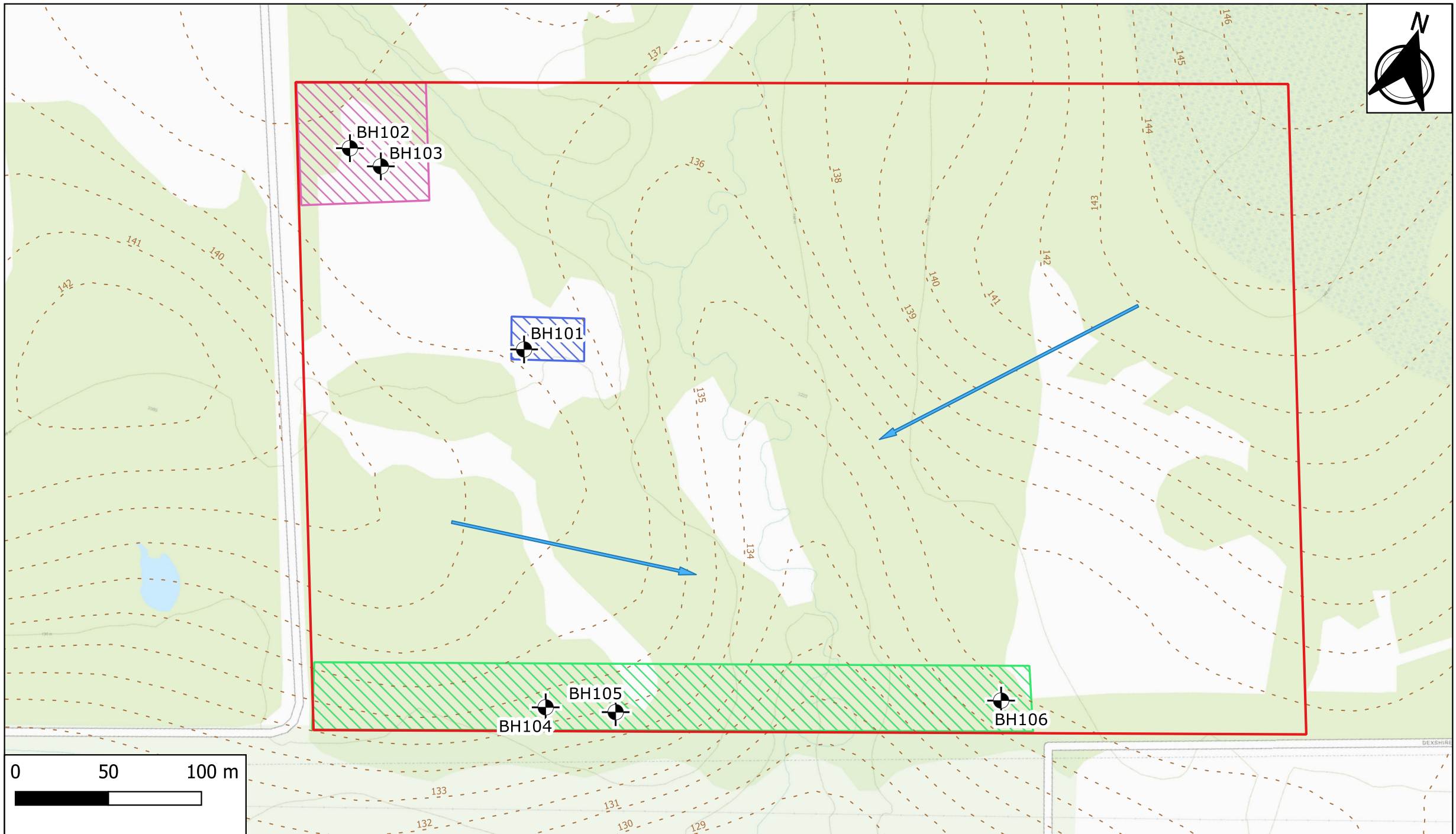
No exceedances found

Legend

- Project Area
- ➔ Inferred Groundwater Flow Direction
- APEC 1
- surface contour
- +
 Borehole
- APEC 2
- APEC 3

Definitions:
 "APEC" = Area of Potential Environmental Concern
 "PCA" = Potentially Contaminating Activity
 PCAs are in accordance with Table 2, Schedule D of O. Reg 153/04

| | | | | | |
|---|---|-----------------------|-----------------------------------|----------------|-----------------------------|
| Map Sources: ESRI World Topographic Map Map Projection: NAD 83 Zone 17 UTM | Project: 17-1780E3 Soil Characterization Report Proposed Residential Development at Part of Lot 3 & 4 Concession Road 5, Pickering, Ontario Client: 869547 Ontario Inc. | Created by: VC | Approved by: VC | Drawing No.: 3 | Original Size: 11" x 17" |
| | | Date: October 2021 | Title: Summary of Soil Quality | | |



Comparison with Leachate Quality Criteria

No exceedances found

| | | |
|---|--|---|
| Legend Project Area surface contour ➔ Inferred Groundwater Flow Direction <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);">N</div> Borehole APEC 1 APEC 2 APEC 3 | | Definitions: "APEC" = Area of Potential Environmental Concern "PCA" = Potentially Contaminating Activity PCAs are in accordance with Table 2, Schedule D of O. Reg 153/04 |
|---|--|---|

| | | | | | |
|---|---|---|---|----------------|-----------------------------|
| Map Sources: ESRI World Topographic Map Map Projection: NAD 83 Zone 17 UTM | Project: 17-1780E3 Soil Characterization Report Proposed Residential Development at Part of Lot 3 & 4 Concession Road 5, Pickering, Ontario Client: 869547 Ontario Inc. | Created by: VC Date: October 2021 | Approved by: VC Title: Summary of Leachate Quality | Drawing No.: 4 | Original Size: 11" x 17" |
| | | | | | |



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APPENDIX A



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ENCLOSURES



Enclosure 1A: Notes on Sample Descriptions

1. Each soil stratum is described according to the *Modified Unified Soil Classification System*. The compactness condition of cohesionless soils (SPT) and the consistency of cohesive soils (undrained shear strength) are defined according to Canadian Foundation Engineering Manual, 4th Edition. Different soil classification systems may be used by others. Please note that a description of the soil strata is based on visual and tactile examination of the samples augmented with field and laboratory test results, such as a grain size analysis and/or Atterberg Limits testing. Visual classification is not sufficiently accurate to provide exact grain sizing or precise differentiation between size classification systems.
2. Fill: Where fill is designated on the borehole log it is defined as indicated by the sample recovered during the boring process. The reader is cautioned that fills are heterogeneous in nature and variable in density or degree of compaction. The borehole description may therefore not be applicable as a general description of site fill materials. All fills should be expected to contain obstruction such as wood, large concrete pieces or subsurface basements, floors, tanks, etc., none of these may have been encountered in the boreholes. Since boreholes cannot accurately define the contents of the fill, test pits are recommended to provide supplementary information. Despite the use of test pits, the heterogeneous nature of fill will leave some ambiguity as to the exact composition of the fill. Most fills contain pockets, seams, or layers of organically contaminated soil. This organic material can result in the generation of methane gas and/or significant ongoing and future settlements. Fill at this site may have been monitored for the presence of methane gas and, if so, the results are given on the borehole logs. The monitoring process does not indicate the volume of gas that can be potentially generated nor does it pinpoint the source of the gas. These readings are to advise of the presence of gas only, and a detailed study is recommended for sites where any explosive gas/methane is detected. Some fill material may be contaminated by toxic/hazardous waste that renders it unacceptable for deposition in any but designated land fill sites; unless specifically stated the fill on this site has not been tested for contaminants that may be considered toxic or hazardous. This testing and a potential hazard study can be undertaken if requested. In most residential/commercial areas undergoing reconstruction, buried oil tanks are common and are generally not detected in a conventional preliminary geotechnical

site investigation.

3. Till: The term till on the borehole logs indicates that the material originates from a geological process associated with glaciation. Because of this geological process the till must be considered heterogeneous in composition and as such may contain pockets and/or seams of material such as sand, gravel, silt or clay. Till often contains cobbles (60 to 200 mm) or boulders (over 200 mm). Contractors may therefore encounter cobbles and boulders during excavation, even if they are not indicated by the borings. It should be appreciated that normal sampling equipment cannot differentiate the size or type of any obstruction. Because of the horizontal and vertical variability of till, the sample description may be applicable to a very limited zone; caution is therefore essential when dealing with sensitive excavations or dewatering programs in till materials.



Enclosure 1B: Explanation of Terms Used in the Record of Boreholes

Sample Type

| | |
|----|-----------------------|
| AS | Auger sample |
| BS | Block sample |
| CS | Chunk sample |
| DO | Drive open |
| DS | Dimension type sample |
| FS | Foil sample |
| NR | No recovery |
| RC | Rock core |
| SC | Soil core |
| SS | Spoon sample |
| SH | Shelby tube Sample |
| ST | Slotted tube |
| TO | Thin-walled, open |
| TP | Thin-walled, piston |
| WS | Wash sample |

Penetration Resistance

Standard Penetration Resistance (SPT), N:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in) required to drive a 50 mm (2 in) drive open sampler for a distance of 300 mm (12 in).

PM – Samples advanced by manual pressure

WR – Samples advanced by weight of sampler and rod

WH – Samples advanced by static weight of hammer

Dynamic Cone Penetration Resistance, Nd:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in) to drive uncased a 50 mm (2 in) diameter, 60° cone attached to “A” size drill rods for a distance of 300 mm (12 in).

Piezo-Cone Penetration Test (CPT):

An electronic cone penetrometer with a 60-degree conical tip and a projected end area of 10 cm² pushed through ground at a penetration rate of 2 cm/s. Measurement of tip resistance (Qt), porewater pressure (PWP) and friction along a sleeve are recorded electronically at 25 mm penetration intervals.

Textural Classification of Soils (ASTM D2487)

| Classification | Particle Size |
|-----------------------|----------------------|
| Boulders | > 300 mm |
| Cobbles | 75 mm - 300 mm |
| Gravel | 4.75 mm - 75 mm |
| Sand | 0.075 mm – 4.75 mm |
| Silt | 0.002 mm-0.075 mm |
| Clay | <0.002 mm(*) |

(*) Canadian Foundation Engineering Manual (4th Edition)

Coarse Grain Soil Description (50% greater than 0.075 mm)

| Terminology | Proportion |
|------------------------------------|------------|
| Trace | 0-10% |
| Some | 10-20% |
| Adjective (e.g. silty or sandy) | 20-35% |
| And (e.g. sand and gravel) | > 35% |

Soil Description

a) Cohesive Soils (*)

| Consistency | Undrained Strength (kPa) | SPT "N" Value |
|-------------|--------------------------|---------------|
| Very soft | <12 | 0-2 |
| Soft | 12-25 | 2-4 |
| Firm | 25-50 | 4-8 |
| Stiff | 50-100 | 8-15 |
| Very stiff | 100-200 | 15-30 |
| Hard | >200 | >30 |

(*) Hierarchy of Shear Strength prediction

1. Lab triaxial test
2. Field vane shear test
3. Lab. vane shear test
4. SPT "N" value
5. Pocket penetrometer

b) Cohesionless Soils

Compactness

Condition

(Formerly Relative Density)

| | SPT "N" Value |
|------------|---------------|
| Very loose | <4 |
| Loose | 4-10 |
| Compact | 10-30 |
| Dense | 30-50 |
| Very dense | >50 |

Soil Tests

| | |
|----------------|--|
| w | Water content |
| w _p | Plastic limit |
| w _l | Liquid limit |
| C | Consolidation (oedometer) test |
| CID | Consolidated isotropically drained triaxial test |
| CIU | consolidated isotropically undrained triaxial test with porewater pressure measurement |
| D _R | Relative density (specific gravity, G _s) |
| DS | Direct shear test |
| ENV | Environmental/chemical analysis |
| M | Sieve analysis for particle size |
| MH | Combined sieve and hydrometer (H) analysis |
| MPC | Modified proctor compaction test |
| SPC | Standard proctor compaction test |
| OC | Organic content test |
| U | Unconsolidated Undrained Triaxial Test |
| V | Field vane (LV-laboratory vane test) |
| γ | Unit weight |

| | | |
|--|---|-----------------------|
| PROJECT: Supplementray Geotechnical Investigation for Proposed Residential Development | | DRILLING DATA |
| CLIENT: 869547 Ontario Inc. | METHOD: Continuous Flight Auger - Auto Hammer | DIAMETER: 155 mm |
| PROJECT LOCATION: Parts of Lots 3 and 4, Concession 5, Pickering, ON | FIELD ENGINEER: JF | DATE: 2021-08-27 |
| DATUM: N/A | SAMPLE REVIEW: CL | REF. NO.: 17-1780GHE3 |
| BH LOCATION: See Borehole Plan Location | CHECKED: DX | ENCL. NO.: 2 |

| SOIL PROFILE | | | SAMPLES | | GROUND WATER | DYNAMIC PENETRATION TEST | | | | Plastic Limit W _p | Natural Moisture Content w | Liquid Limit W _L | UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL |
|-----------------|--|-------------|---------|------|--------------|--------------------------|-----------|-----------|------------|---------------------------------|-------------------------------|--------------------------------|------------------------------|--|
| ELEV. DEPTH (m) | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | | "N" BLOWS/0.3m | ELEVATION | SPT 20 | Cone 40 | | | | | |
| 0.0 | TOPSOIL: (120 mm) | | | | | | | | | | | | | |
| 0.1 | FILL: silty fine sand, organic inclusions, rootlet inclusions, brown, moist, compact | | 1 | SS | 11 | | | | | | | | | |
| 0.7 | PROBABLE FILL: silty fine sand, brown, moist, loose | | 2 | SS | 6 | | | | | | | | | |
| | | | 3 | SS | 6 | | | | | | | | | |
| 2.1 | FINE SANDY SILT: trace clay, containing cobbles and boulders, brown, moist to wet, very dense | | 4 | SS | 65 | | | | | | | | | |
| | --- auger grinding | | 5 | SS | 70 | | | | | | | | | |
| 4.0 | SILTY FINE SAND: grey, wet, dense | | 6 | SS | 43 | | | | | | | | | |
| 5.0 | END OF BOREHOLE | | | | | | | | | | | | | |
| | Notes: 1) Water encountered at a depth of 3.0 m below ground surface (mBGS) during drilling. 2) Water was at a depth of 3.2 mBGS upon completion of drilling. 3) Borehole caved at a depth of 4.2 mBGS upon completion of drilling. | | | | | | | | | | | | | |

01 - GEOPRO SOIL LOG - GEOPRO 17-1780GHE3 BH LOG 20211118 - NT - NG - DX.GPJ 2022-11-18 10:34

GROUNDWATER ELEVATIONS
 Measurement
 1st 2nd 3rd 4th

GRAPH NOTES + 3, × 3: Numbers refer to Sensitivity ▲ = 3% Strain at Failure

| | | |
|--|---|-----------------------|
| PROJECT: Supplementray Geotechnical Investigation for Proposed Residential Development | | DRILLING DATA |
| CLIENT: 869547 Ontario Inc. | METHOD: Continuous Flight Auger - Auto Hammer | DIAMETER: 155 mm |
| PROJECT LOCATION: Parts of Lots 3 and 4, Concession 5, Pickering, ON | FIELD ENGINEER: JF | DATE: 2021-08-29 |
| DATUM: N/A | SAMPLE REVIEW: CL | REF. NO.: 17-1780GHE3 |
| BH LOCATION: See Borehole Plan Location | CHECKED: DX | ENCL. NO.: 3 |

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER | DYNAMIC PENETRATION TEST | | | | Plastic Limit W _p | Natural Moisture Content w | Liquid Limit W _L | UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) |
|-----------------|--|-------------|---------|------|----------------|--------------|--------------------------|----|----|----|---------------------------------|-------------------------------|--------------------------------|------------------------------|---|
| ELEV. DEPTH (m) | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS/0.3m | | ELEVATION | 20 | 40 | 60 | | | | | |
| 0.0 | TOPSOIL: (300 mm) | | | | | | | | | | | | | | |
| 0.3 | REWORKED SILTY FINE SAND: rootlet inclusions, brown, moist, very loose to loose | | 1 | SS | 4 | | ○ | | | | | | | | |
| 1.1 | SILTY FINE SAND: pockets of sandy silt, brown, moist, very loose to dense | | 2A | SS | 4 | | ○ | | | | | | | | |
| | | | 2B | SS | | | | | | | | | | | |
| | | | 3 | SS | 21 | | ○ | | | | | | | | |
| | | | 4 | SS | 45 | | | | | ○ | | | | | |
| | --- layers of fine sandy silt | | 5 | SS | 46 | | | | | ○ | | | | | |
| 4.0 | SILTY SAND: brown, wet, compact | | 6 | SS | 28 | | ○ | | | | | | | | |
| 5.0 | END OF BOREHOLE Notes: 1) Water encountered at a depth of 4.6 m below ground surface (mBGS) during drilling. 2) Water was at a depth of 4.4 mBGS upon completion of drilling. 3) Borehole caved at a depth of 4.6 mBGS upon completion of drilling. | | | | | | | | | | | | | | |

01 - GEOPRO SOIL LOG - GEOPRO 17-1780GHE3 BH LOG 20211118 - NT - NG - DX.GPJ 2022-11-18 10:34

GROUNDWATER ELEVATIONS
 Measurement

GRAPH NOTES + 3, × 3: Numbers refer to Sensitivity ▲ = 3% Strain at Failure

PROJECT: Supplementray Geotechnical Investigation for Proposed Residential Development **DRILLING DATA**
 CLIENT: 869547 Ontario Inc. METHOD: Continuous Flight Auger - Auto Hammer DIAMETER: 155 mm
 PROJECT LOCATION: Parts of Lots 3 and 4, Concession 5, Pickering, ON FIELD ENGINEER: JF DATE: 2021-08-27
 DATUM: N/A SAMPLE REVIEW: CL REF. NO.: 17-1780GHE3
 BH LOCATION: See Borehole Plan Location CHECKED: DX ENCL. NO.: 4

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER | DYNAMIC PENETRATION TEST | | | | Plastic Limit W _p | Natural Moisture Content w | Liquid Limit W _L | UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL |
|-----------------|--|-------------|---------|------|----------------|--------------|--|-----------|------------|------------------|---------------------------------|-------------------------------|--------------------------------|------------------------------|--|
| ELEV. DEPTH (m) | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS/0.3m | | ELEVATION | SPT 20 | Cone 40 | blows/0.3m 60 | | | | | |
| | | | | | | | ● Unconfined × Field Vane & Sensitivity ▲ Quick Triaxial ⊠ Penetrometer + Lab Vane | | | | WATER CONTENT (%) | | | | |
| | | | | | | | 20 | 40 | 60 | 80 | 10 | 20 | 30 | 40 | |
| 0.0 | TOPSOIL: (300 mm) | | | | | | | | | | | | | | |
| 0.3 | REWORKED SILTY FINE SAND: organic inclusions, rootlet inclusions, brown, moist, very loose | | 1 | SS | 2 | | ○ | | | | | | | | |
| 1.1 | SILTY FINE SAND: containing cobbles and boulders, brown, moist, very loose to dense | | 2A | SS | 2 | | ○ | | | | | | | | |
| | | | 2B | SS | | | | | | | | | | | |
| | --- auger grinding | | 3 | SS | 11 | | ○ | | | | | | | | |
| | | | 4 | SS | 32 | | | | | | | | | | |
| 2.9 | FINE SAND AND SILT TO FINE SANDY SILT: layers of silt, layers of silty sand, brown, moist to wet, compact | | 5 | SS | 25 | | | | | | | | | | |
| 4.0 | SILTY SAND: trace gravel, layers of sandy silt, brown, wet, compact | | 6 | SS | 27 | | | | | | | | | | |
| 5.0 | END OF BOREHOLE | | | | | | | | | | | | | | |
| | Notes: 1) Water encountered at a depth of 3.0 m below ground surface (mBGS) during drilling. 2) Water was at a depth of 3.2 mBGS upon completion of drilling. 3) Borehole caved at a depth of 4.3 mBGS upon completion of drilling. | | | | | | | | | | | | | | |

01 - GEOPRO SOIL LOG - GEOPRO 17-1780GHE3 BH LOG 20211118 - NT - NG - DX.GPJ 2022-11-18 10:34

GROUNDWATER ELEVATIONS

Measurement

GRAPH NOTES

+ 3 , × 3 : Numbers refer to Sensitivity

▲ = 3% Strain at Failure

| | | | |
|--|---|-----------------------|--|
| PROJECT: Supplementray Geotechnical Investigation for Proposed Residential Development | | DRILLING DATA | |
| CLIENT: 869547 Ontario Inc. | METHOD: Continuous Flight Auger - Auto Hammer | DIAMETER: 155 mm | |
| PROJECT LOCATION: Parts of Lots 3 and 4, Concession 5, Pickering, ON | FIELD ENGINEER: JF | DATE: 2021-08-27 | |
| DATUM: N/A | SAMPLE REVIEW: CL | REF. NO.: 17-1780GHE3 | |
| BH LOCATION: See Borehole Plan Location | CHECKED: DX | ENCL. NO.: 5 | |

| SOIL PROFILE | | SAMPLES | | GROUND WATER | DYNAMIC PENETRATION TEST | | | | Plastic Limit W _p | Natural Moisture Content w | Liquid Limit W _L | UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL | |
|-----------------|--|---------|------|--------------|--------------------------|-----------|-----|------|---------------------------------|--|--------------------------------|------------------------------|--|------------|
| ELEV. DEPTH (m) | DESCRIPTION | NUMBER | TYPE | | "N" BLOWS/0.3m | ELEVATION | SPT | Cone | | | | | | blows/0.3m |
| | | | | | | 20 | 40 | 60 | 80 | ● Unconfined × Field Vane & Sensitivity ▲ Quick Triaxial ⊠ Penetrometer + Lab Vane | | | | |
| | | | | | | 20 | 40 | 60 | 80 | 10 | 20 | 30 | 40 | |
| 0.0 | TOPSOIL: (250 mm) | | | | | | | | | | | | | |
| 0.3 | REWORKED SILTY FINE SAND: some silt, organic inclusions, rootlet inclusions, brown, moist, loose | 1 | SS | 7 | | | | | | | | | | |
| 1.1 | SILTY FINE SAND: brown, moist to wet, loose to compact | 2A | SS | 5 | | | | | | | | | | |
| | | 2B | SS | | | | | | | | | | | |
| | | 3 | SS | 20 | | | | | | | | | | |
| 2.1 | FINE SANDY SILT: trace clay, grey, moist to wet, dense | 4 | SS | 31 | | | | | | | | | | |
| 2.9 | SILT: trace clay, some sand, grey, wet, dense | 5 | SS | 43 | | | | | | | | | | |
| 4.0 | FINE SANDY SILT: some clay, grey, wet, very dense | 6 | SS | 58 | | | | | | | | | | |
| 5.0 | END OF BOREHOLE Notes: 1) Water encountered at a depth of 1.4 m below ground surface (mBGS) during drilling. 2) Water was at a depth of 2.0 mBGS upon completion of drilling. 3) Borehole caved at a depth of 3.2 mBGS upon completion of drilling. | | | | | | | | | | | | | |

01 - GEOPRO SOIL LOG - GEOPRO 17-1780GHE3 BH LOG 20211118 - NT - NG - DX.GPJ 2022-11-18 10:34

GROUNDWATER ELEVATIONS
 Measurement 1st 2nd 3rd 4th

GRAPH NOTES + 3 , × 3 : Numbers refer to Sensitivity ▲ = 3% Strain at Failure

| | | | |
|--|---|-----------------------|--|
| PROJECT: Supplementray Geotechnical Investigation for Proposed Residential Development | | DRILLING DATA | |
| CLIENT: 869547 Ontario Inc. | METHOD: Continuous Flight Auger - Auto Hammer | DIAMETER: 155 mm | |
| PROJECT LOCATION: Parts of Lots 3 and 4, Concession 5, Pickering, ON | FIELD ENGINEER: JF | DATE: 2021-08-27 | |
| DATUM: N/A | SAMPLE REVIEW: CL | REF. NO.: 17-1780GHE3 | |
| BH LOCATION: See Borehole Plan Location | CHECKED: DX | ENCL. NO.: 6 | |

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER | DYNAMIC PENETRATION TEST | | | | Plastic Limit W _p | Natural Moisture Content w | Liquid Limit W _L | UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | | | | |
|-----------------|--|-------------|---------|------|----------------|--------------|--------------------------|-----|------|------------|---------------------------------|-------------------------------|--------------------------------|------------------------------|---|----------------------|----|----|-------------|
| ELEV. DEPTH (m) | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS/0.3m | | ELEVATION | SPT | Cone | blows/0.3m | | | | | | SHEAR STRENGTH (kPa) | | | |
| | | | | | | | 20 | 40 | 60 | 80 | ● Unconfined | × | Field Vane & Sensitivity | WATER CONTENT (%) | | | | | |
| | | | | | | | 20 | 40 | 60 | 80 | ▲ Quick Triaxial | ⊠ Penetrometer | + | Lab Vane | 10 | 20 | 30 | 40 | GR SA SI CL |
| 0.0 | TOPSOIL: (250 mm) | | | | | | | | | | | | | | | | | | |
| 0.3 | FILL: silty fine sand, trace gravel, organic inclusions, rootlet inclusions, containing rock fragments, brown, moist, loose to compact | | 1 | SS | 13 | | | | | | | | | | | | | | |
| | | | 2 | SS | 6 | | | | | | | | | | | | | | |
| | | | 3A | SS | 5 | | | | | | | | | | | | | | |
| 1.8 | SILTY FINE SAND: layers of silt, containing cobbles and boulders, brown, wet, loose to compact --- auger grinding | | 3B | SS | | | | | | | | | | | | | | | |
| | | | 4 | SS | 26 | | | | | | | | | | | | | | |
| 2.9 | FINE SAND AND SILT TO SILTY FINE SAND: grey, moist to wet, dense | | 5 | SS | 43 | | | | | | | | | | | | | | |
| 4.0 | SILT: trace to some clay, trace sand, interlayers of clayey silt, grey, moist to wet, dense | | 6 | SS | 33 | | | | | | | | | | | | | | |
| 5.0 | END OF BOREHOLE Notes: 1) Water encountered at a depth of 1.8 m below ground surface (mBGS) during drilling. 2) Water was at a depth of 2.2 mBGS upon completion of drilling. 3) Borehole caved at a depth of 3.4 mBGS upon completion of drilling. | | | | | | | | | | | | | | | | | | |

01 - GEOPRO SOIL LOG - GEOPRO 17-1780GHE3 BH LOG 20211118 - NT - NG - DX.GPJ 2022-11-18 10:34

GROUNDWATER ELEVATIONS
 Measurement

GRAPH NOTES + 3, × 3: Numbers refer to Sensitivity ▲ = 3% Strain at Failure

PROJECT: Supplementray Geotechnical Investigation for Proposed Residential Development **DRILLING DATA**
 CLIENT: 869547 Ontario Inc. METHOD: Continuous Flight Auger - Auto Hammer DIAMETER: 155 mm
 PROJECT LOCATION: Parts of Lots 3 and 4, Concession 5, Pickering, ON FIELD ENGINEER: JF DATE: 2021-08-27
 DATUM: N/A SAMPLE REVIEW: CL REF. NO.: 17-1780GHE3
 BH LOCATION: See Borehole Plan Location CHECKED: DX ENCL. NO.: 7

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER | DYNAMIC PENETRATION TEST | | | | Plastic Limit W _p | Natural Moisture Content w | Liquid Limit W _L | UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) |
|-----------------|---|-------------|---------|------|----------------|--------------|--------------------------|----|----|----|---------------------------------|-------------------------------|--------------------------------|------------------------------|---|
| ELEV. DEPTH (m) | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS/0.3m | | ELEVATION | 20 | 40 | 60 | | | | | |
| 0.0 | TOPSOIL: (350 mm) | | 1 | SS | 3 | | | | | | | | | | |
| 0.4 | FILL: silty fine sand, organic matters, rootlet inclusions, dark brown, moist, very loose | | | | | | | | | | | | | | |
| 0.7 | CLAYEY SILT: some sand, trace gravel, interlayers of silt, layers of fine sand and silt, seams of sand, brown, moist, very stiff | | 2 | SS | 22 | | | | | | | | | | |
| 1.4 | SANDY SILT: some clay, trace gravel, layers of clayey silt, brown, moist, compact | | 3 | SS | 22 | | | | | | | | | | |
| | | | 4 | SS | 20 | | | | | | | | | | |
| 2.9 | SANDY SILT TILL: some clay, trace gravel, layers of sandy silt, containing cobbles and boulders, grey, moist, dense | | 5 | SS | 33 | | | | | | | | | | |
| | --- auger grinding | | 6 | SS | 50 | | | | | | | | | | |
| 5.0 | END OF BOREHOLE Note: 1) Borehole caved at a depth of 4.5 m below ground surface (mBGS) upon completion of drilling. | | | | | | | | | | | | | | |

01 - GEOPRO SOIL LOG - GEOPRO 17-1780GHE3 BH LOG 20211118 - NT - NG - DX.GPJ 2022-11-18 10:34

GROUNDWATER ELEVATIONS
 Measurement

GRAPH NOTES + 3, × 3: Numbers refer to Sensitivity ▲ = 3% Strain at Failure



GeoPro Consulting Limited

Geotechnical-Hydrogeology-Environmental-Materials-Inspection

APPENDIX B

Client: Geo Pro Consulting
40 Vogell Rd, Unit 57
Richmond Hill, Ontario
L4B 3K6
Attention: Dylan X
Invoice to: Geo Pro Consulting
PO#:

Report Number: 1962118
Date Submitted: 2021-09-09
Date Reported: 2021-09-17
Project: 17-1780E3-1787
COC #: 879859
Temperature (C): 14
Custody Seal:

Page 1 of 30

Dear Dylan X:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

Long Qu, Organics Supervisor

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated

Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <http://www.cala.ca/scopes/2602.pdf>

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

Client: Geo Pro Consulting
 40 Vogell Rd, Unit 57
 Richmond Hill, Ontario
 L4B 3K6
 Attention: Dylan X
 PO#:
 Invoice to: Geo Pro Consulting

Report Number: 1962118
 Date Submitted: 2021-09-09
 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

Exceedence Summary

| Sample I.D. | Analyte | Result | Units | Criteria |
|-------------|---------|--------|-------|----------|
| | | | | |

Results relate only to the parameters tested on the samples submitted.
 Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Client: Geo Pro Consulting
 40 Vogell Rd, Unit 57
 Richmond Hill, Ontario
 L4B 3K6
 Attention: Dylan X
 PO#:
 Invoice to: Geo Pro Consulting

Report Number: 1962118
 Date Submitted: 2021-09-09
 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

Hydrocarbons

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--|--|--|--|--|
| 1581932 Soil153 2021-08-27 BH101 SS2 | 1581933 Soil153 2021-08-27 BH101 SS3 | 1581934 Soil153 2021-08-27 BH102 SS1 | 1581935 Soil153 2021-08-27 BH103 SS2 | 1581936 Soil153 2021-08-27 BH103 SS3 |
|--|--|--|--|--|

| Analyte | Batch No | MRL | Units | Guideline | 1581932 Soil153 2021-08-27 BH101 SS2 | 1581933 Soil153 2021-08-27 BH101 SS3 | 1581934 Soil153 2021-08-27 BH102 SS1 | 1581935 Soil153 2021-08-27 BH103 SS2 | 1581936 Soil153 2021-08-27 BH103 SS3 |
|---------------|----------|-----|-------|-----------|--|--|--|--|--|
| PHC's F1 | 408730 | 10 | ug/g | STD 25 | <10 | <10 | <10 | <10 | <10 |
| PHC's F1-BTEX | 408744 | 10 | ug/g | | <10 | <10 | <10 | <10 | <10 |
| PHC's F2 | 408483 | 10 | ug/g | STD 10 | <10 | <10 | <10 | <10 | <10 |
| PHC's F2-Naph | 408498 | 10 | ug/g | | <10 | <10 | <10 | <10 | <10 |
| PHC's F3 | 408483 | 20 | ug/g | STD 240 | <20 | <20 | <20 | <20 | <20 |
| PHC's F3-PAH | 408499 | 20 | ug/g | | <20 | <20 | <20 | <20 | <20 |
| PHC's F4 | 408483 | 20 | ug/g | STD 120 | <20 | <20 | <20 | <20 | <20 |

Hydrocarbons

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--|--|--|--|--|
| 1581937 Soil153 2021-08-27 BH104 SS2 | 1581938 Soil153 2021-08-27 BH104 SS4 | 1581939 Soil153 2021-08-27 BH105 SS1 | 1581940 Soil153 2021-08-27 BH106 SS2 | 1581941 Soil153 2021-08-27 BH106 SS4 |
|--|--|--|--|--|

| Analyte | Batch No | MRL | Units | Guideline | 1581937 Soil153 2021-08-27 BH104 SS2 | 1581938 Soil153 2021-08-27 BH104 SS4 | 1581939 Soil153 2021-08-27 BH105 SS1 | 1581940 Soil153 2021-08-27 BH106 SS2 | 1581941 Soil153 2021-08-27 BH106 SS4 |
|---------------|----------|-----|-------|-----------|--|--|--|--|--|
| PHC's F1 | 408730 | 10 | ug/g | STD 25 | <10 | <10 | <10 | <10 | <10 |
| PHC's F1-BTEX | 408744 | 10 | ug/g | | <10 | <10 | <10 | <10 | <10 |
| PHC's F2 | 408483 | 10 | ug/g | STD 10 | <10 | <10 | <10 | <10 | <10 |
| PHC's F2-Naph | 408498 | 10 | ug/g | | <10 | <10 | <10 | <10 | <10 |
| PHC's F3 | 408483 | 20 | ug/g | STD 240 | <20 | <20 | <20 | <20 | 50 |
| PHC's F3-PAH | 408499 | 20 | ug/g | | <20 | <20 | <20 | <20 | 50 |
| PHC's F4 | 408483 | 20 | ug/g | STD 120 | <20 | <20 | <20 | <20 | <20 |

Results relate only to the parameters tested on the samples submitted.
 Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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Report Number: 1962118
 Date Submitted: 2021-09-09
 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

Metals

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--|--|--|--|--|
| 1581932 Soil153 2021-08-27 BH101 SS2 | 1581933 Soil153 2021-08-27 BH101 SS3 | 1581934 Soil153 2021-08-27 BH102 SS1 | 1581935 Soil153 2021-08-27 BH103 SS2 | 1581936 Soil153 2021-08-27 BH103 SS3 |
|--|--|--|--|--|

| Analyte | Batch No | MRL | Units | Guideline | 1581932 Soil153 2021-08-27 BH101 SS2 | 1581933 Soil153 2021-08-27 BH101 SS3 | 1581934 Soil153 2021-08-27 BH102 SS1 | 1581935 Soil153 2021-08-27 BH103 SS2 | 1581936 Soil153 2021-08-27 BH103 SS3 |
|---------------------------|----------|------|-------|-----------|--|--|--|--|--|
| Antimony | 408535 | 1 | ug/g | STD 1.3 | <1 | <1 | <1 | <1 | <1 |
| Arsenic | 408535 | 1 | ug/g | STD 18 | 2 | 2 | 2 | 2 | 1 |
| Barium | 408535 | 1 | ug/g | STD 220 | 16 | 10 | 15 | 27 | 10 |
| Beryllium | 408535 | 1 | ug/g | STD 2.5 | <1 | <1 | <1 | <1 | <1 |
| Boron (Hot Water Soluble) | 408554 | 0.5 | ug/g | STD N/A | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Boron (total) | 408535 | 5 | ug/g | STD 36 | <5 | <5 | <5 | <5 | <5 |
| Cadmium | 408535 | 0.4 | ug/g | STD 1.2 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium Total | 408535 | 1 | ug/g | STD 70 | 10 | 7 | 9 | 10 | 6 |
| Chromium VI | 408648 | 0.20 | ug/g | STD 0.66 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Cobalt | 408535 | 1 | ug/g | STD 21 | 2 | 2 | 2 | 2 | 2 |
| Copper | 408535 | 1 | ug/g | STD 92 | 3 | 3 | 2 | 3 | 2 |
| Lead | 408535 | 1 | ug/g | STD 120 | 3 | 2 | 4 | 5 | 2 |
| Mercury | 408535 | 0.1 | ug/g | STD 0.27 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Molybdenum | 408535 | 1 | ug/g | STD 2 | <1 | <1 | <1 | <1 | <1 |
| Nickel | 408535 | 1 | ug/g | STD 82 | 4 | 3 | 4 | 4 | 3 |
| Selenium | 408535 | 0.5 | ug/g | STD 1.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Silver | 408535 | 0.2 | ug/g | STD 0.5 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | 408535 | 1 | ug/g | STD 1 | <1 | <1 | <1 | <1 | <1 |
| Uranium | 408535 | 0.5 | ug/g | STD 2.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Vanadium | 408535 | 2 | ug/g | STD 86 | 25 | 18 | 25 | 27 | 18 |
| Zinc | 408535 | 2 | ug/g | STD 290 | 13 | 10 | 17 | 22 | 9 |

Results relate only to the parameters tested on the samples submitted.
 Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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 L4B 3K6
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Report Number: 1962118
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 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

Metals

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--|--|--|--|--|
| 1581937 Soil153 2021-08-27 BH104 SS2 | 1581938 Soil153 2021-08-27 BH104 SS4 | 1581939 Soil153 2021-08-27 BH105 SS1 | 1581940 Soil153 2021-08-27 BH106 SS2 | 1581941 Soil153 2021-08-27 BH106 SS4 |
|--|--|--|--|--|

| Analyte | Batch No | MRL | Units | Guideline | 1581937 Soil153 2021-08-27 BH104 SS2 | 1581938 Soil153 2021-08-27 BH104 SS4 | 1581939 Soil153 2021-08-27 BH105 SS1 | 1581940 Soil153 2021-08-27 BH106 SS2 | 1581941 Soil153 2021-08-27 BH106 SS4 |
|---------------------------|----------|------|-------|-----------|--|--|--|--|--|
| Antimony | 408535 | 1 | ug/g | STD 1.3 | <1 | <1 | <1 | <1 | <1 |
| Arsenic | 408535 | 1 | ug/g | STD 18 | 3 | 1 | 2 | 2 | 3 |
| Barium | 408535 | 1 | ug/g | STD 220 | 15 | 14 | 16 | 48 | 58 |
| Beryllium | 408535 | 1 | ug/g | STD 2.5 | <1 | <1 | <1 | <1 | <1 |
| Boron (Hot Water Soluble) | 408554 | 0.5 | ug/g | STD N/A | <0.5 | | | | |
| | 408673 | 0.5 | ug/g | STD N/A | | <0.5 | <0.5 | <0.5 | <0.5 |
| Boron (total) | 408535 | 5 | ug/g | STD 36 | <5 | <5 | <5 | <5 | 7 |
| Cadmium | 408535 | 0.4 | ug/g | STD 1.2 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium Total | 408535 | 1 | ug/g | STD 70 | 8 | 7 | 7 | 12 | 17 |
| Chromium VI | 408648 | 0.20 | ug/g | STD 0.66 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Cobalt | 408535 | 1 | ug/g | STD 21 | 2 | 2 | 2 | 3 | 5 |
| Copper | 408535 | 1 | ug/g | STD 92 | 3 | 4 | 3 | 8 | 10 |
| Lead | 408535 | 1 | ug/g | STD 120 | 3 | 2 | 4 | 4 | 5 |
| Mercury | 408535 | 0.1 | ug/g | STD 0.27 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Molybdenum | 408535 | 1 | ug/g | STD 2 | <1 | <1 | <1 | <1 | <1 |
| Nickel | 408535 | 1 | ug/g | STD 82 | 3 | 3 | 3 | 7 | 11 |
| Selenium | 408535 | 0.5 | ug/g | STD 1.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Silver | 408535 | 0.2 | ug/g | STD 0.5 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | 408535 | 1 | ug/g | STD 1 | <1 | <1 | <1 | <1 | <1 |
| Uranium | 408535 | 0.5 | ug/g | STD 2.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 |
| Vanadium | 408535 | 2 | ug/g | STD 86 | 21 | 16 | 18 | 24 | 23 |
| Zinc | 408535 | 2 | ug/g | STD 290 | 11 | 9 | 13 | 20 | 25 |

Results relate only to the parameters tested on the samples submitted.
 Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Client: Geo Pro Consulting
 40 Vogell Rd, Unit 57
 Richmond Hill, Ontario
 L4B 3K6
 Attention: Dylan X
 PO#:
 Invoice to: Geo Pro Consulting

Report Number: 1962118
 Date Submitted: 2021-09-09
 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

Lab I.D. 1581942
 Sample Matrix Soil153
 Sample Type
 Sample Date 2021-08-27
 Sampling Time
 Sample I.D. BH106
 SS2D

Metals

| Analyte | Batch No | MRL | Units | Guideline | |
|---------------------------|----------|------|-------|-----------|-------|
| Antimony | 408535 | 1 | ug/g | STD 1.3 | <1 |
| Arsenic | 408535 | 1 | ug/g | STD 18 | 2 |
| Barium | 408535 | 1 | ug/g | STD 220 | 49 |
| Beryllium | 408535 | 1 | ug/g | STD 2.5 | <1 |
| Boron (Hot Water Soluble) | 408673 | 0.5 | ug/g | STD N/A | <0.5 |
| Boron (total) | 408535 | 5 | ug/g | STD 36 | <5 |
| Cadmium | 408535 | 0.4 | ug/g | STD 1.2 | <0.4 |
| Chromium Total | 408535 | 1 | ug/g | STD 70 | 12 |
| Chromium VI | 408713 | 0.20 | ug/g | STD 0.66 | <0.20 |
| Cobalt | 408535 | 1 | ug/g | STD 21 | 4 |
| Copper | 408535 | 1 | ug/g | STD 92 | 10 |
| Lead | 408535 | 1 | ug/g | STD 120 | 5 |
| Mercury | 408535 | 0.1 | ug/g | STD 0.27 | <0.1 |
| Molybdenum | 408535 | 1 | ug/g | STD 2 | <1 |
| Nickel | 408535 | 1 | ug/g | STD 82 | 8 |
| Selenium | 408535 | 0.5 | ug/g | STD 1.5 | <0.5 |
| Silver | 408535 | 0.2 | ug/g | STD 0.5 | <0.2 |
| Thallium | 408535 | 1 | ug/g | STD 1 | <1 |
| Uranium | 408535 | 0.5 | ug/g | STD 2.5 | <0.5 |
| Vanadium | 408535 | 2 | ug/g | STD 86 | 25 |
| Zinc | 408535 | 2 | ug/g | STD 290 | 22 |

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 40 Vogell Rd, Unit 57
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 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

OCP/PCB

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | |
|--------------------|--------------------|--------------------|
| 1581934 Soil153 | 1581935 Soil153 | 1581936 Soil153 |
| 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH102 SS1 | BH103 SS2 | BH103 SS3 |

| Analyte | Batch No | MRL | Units | Guideline | | | |
|------------------------------|----------|-------|-------|-----------|--------|--------|--------|
| Aldrin | 408620 | 0.002 | ug/g | STD 0.05 | <0.002 | <0.002 | <0.002 |
| Chlordane | 408620 | 0.006 | ug/g | STD 0.05 | <0.006 | <0.006 | <0.006 |
| Chlordane, alpha- | 408620 | 0.002 | ug/g | | <0.002 | <0.002 | <0.002 |
| Chlordane, gamma- | 408620 | 0.002 | ug/g | | <0.002 | <0.002 | <0.002 |
| DDD | 408620 | 0.002 | ug/g | STD 0.05 | <0.002 | <0.002 | <0.002 |
| DDE | 408620 | 0.002 | ug/g | STD 0.05 | <0.002 | <0.002 | <0.002 |
| DDT | 408620 | 0.002 | ug/g | STD 1.4 | <0.002 | <0.002 | <0.002 |
| Dieldrin | 408620 | 0.002 | ug/g | STD 0.05 | <0.002 | <0.002 | <0.002 |
| Endosulfan | 408620 | 0.004 | ug/g | STD 0.04 | <0.004 | <0.004 | <0.004 |
| Endosulfan I | 408620 | 0.002 | ug/g | | <0.002 | <0.002 | <0.002 |
| Endosulfan II | 408620 | 0.002 | ug/g | | <0.002 | <0.002 | <0.002 |
| Endrin | 408620 | 0.002 | ug/g | STD 0.04 | <0.002 | <0.002 | <0.002 |
| Heptachlor | 408620 | 0.002 | ug/g | STD 0.05 | <0.002 | <0.002 | <0.002 |
| Heptachlor Epoxide | 408620 | 0.002 | ug/g | STD 0.05 | <0.002 | <0.002 | <0.002 |
| Hexachlorobenzene | 408620 | 0.002 | ug/g | STD 0.01 | <0.002 | <0.002 | <0.002 |
| Hexachlorobutadiene | 408620 | 0.002 | ug/g | STD 0.01 | <0.002 | <0.002 | <0.002 |
| Hexachlorocyclohexane Gamma- | 408620 | 0.002 | ug/g | | <0.002 | <0.002 | <0.002 |
| Hexachloroethane | 408620 | 0.002 | ug/g | STD 0.01 | <0.002 | <0.002 | <0.002 |
| Methoxychlor | 408620 | 0.002 | ug/g | STD 0.05 | <0.002 | <0.002 | <0.002 |

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MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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Report Number: 1962118
 Date Submitted: 2021-09-09
 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

OCP/PCB

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--|--|--|--|--|
| 1581937 Soil153 2021-08-27 BH104 SS2 | 1581938 Soil153 2021-08-27 BH104 SS4 | 1581939 Soil153 2021-08-27 BH105 SS1 | 1581940 Soil153 2021-08-27 BH106 SS2 | 1581941 Soil153 2021-08-27 BH106 SS4 |
|--|--|--|--|--|

| Analyte | Batch No | MRL | Units | Guideline | 1581937 Soil153 2021-08-27 BH104 SS2 | 1581938 Soil153 2021-08-27 BH104 SS4 | 1581939 Soil153 2021-08-27 BH105 SS1 | 1581940 Soil153 2021-08-27 BH106 SS2 | 1581941 Soil153 2021-08-27 BH106 SS4 |
|------------------------------|----------|-------|-------|-----------|--|--|--|--|--|
| Aldrin | 408620 | 0.002 | ug/g | STD 0.05 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Chlordane | 408620 | 0.006 | ug/g | STD 0.05 | <0.006 | <0.006 | <0.006 | <0.006 | <0.006 |
| Chlordane, alpha- | 408620 | 0.002 | ug/g | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Chlordane, gamma- | 408620 | 0.002 | ug/g | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| DDD | 408620 | 0.002 | ug/g | STD 0.05 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| DDE | 408620 | 0.002 | ug/g | STD 0.05 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| DDT | 408620 | 0.002 | ug/g | STD 1.4 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Dieldrin | 408620 | 0.002 | ug/g | STD 0.05 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Endosulfan | 408620 | 0.004 | ug/g | STD 0.04 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| Endosulfan I | 408620 | 0.002 | ug/g | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Endosulfan II | 408620 | 0.002 | ug/g | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Endrin | 408620 | 0.002 | ug/g | STD 0.04 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Heptachlor | 408620 | 0.002 | ug/g | STD 0.05 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Heptachlor Epoxide | 408620 | 0.002 | ug/g | STD 0.05 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Hexachlorobenzene | 408620 | 0.002 | ug/g | STD 0.01 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Hexachlorobutadiene | 408620 | 0.002 | ug/g | STD 0.01 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Hexachlorocyclohexane Gamma- | 408620 | 0.002 | ug/g | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Hexachloroethane | 408620 | 0.002 | ug/g | STD 0.01 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Methoxychlor | 408620 | 0.002 | ug/g | STD 0.05 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |

Results relate only to the parameters tested on the samples submitted.
 Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational
 Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim
 Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial
 Water Quality Guideline, IPWQO = Interim Provincial Water Quality
 Objective, TDR = Typical Desired Range

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 L4B 3K6
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 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

PAH

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--|--|--|--|--|
| 1581932 Soil153 2021-08-27 BH101 SS2 | 1581933 Soil153 2021-08-27 BH101 SS3 | 1581934 Soil153 2021-08-27 BH102 SS1 | 1581935 Soil153 2021-08-27 BH103 SS2 | 1581936 Soil153 2021-08-27 BH103 SS3 |
|--|--|--|--|--|

| Analyte | Batch No | MRL | Units | Guideline | 1581932 Soil153 2021-08-27 BH101 SS2 | 1581933 Soil153 2021-08-27 BH101 SS3 | 1581934 Soil153 2021-08-27 BH102 SS1 | 1581935 Soil153 2021-08-27 BH103 SS2 | 1581936 Soil153 2021-08-27 BH103 SS3 |
|------------------------|----------|-------|-------|-----------|--|--|--|--|--|
| 1+2-methylnaphthalene | 408575 | 0.05 | ug/g | STD 0.59 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Acenaphthene | 408573 | 0.05 | ug/g | STD 0.072 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Acenaphthylene | 408573 | 0.05 | ug/g | STD 0.093 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Anthracene | 408573 | 0.05 | ug/g | STD 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benz[a]anthracene | 408573 | 0.05 | ug/g | STD 0.36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[a]pyrene | 408573 | 0.05 | ug/g | STD 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[b]fluoranthene | 408573 | 0.05 | ug/g | STD 0.47 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[ghi]perylene | 408573 | 0.05 | ug/g | STD 0.68 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[k]fluoranthene | 408573 | 0.05 | ug/g | STD 0.48 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Chrysene | 408573 | 0.05 | ug/g | STD 2.8 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dibenz[a h]anthracene | 408573 | 0.05 | ug/g | STD 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Fluoranthene | 408573 | 0.05 | ug/g | STD 0.56 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Fluorene | 408573 | 0.05 | ug/g | STD 0.12 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Indeno[1 2 3-cd]pyrene | 408573 | 0.05 | ug/g | STD 0.23 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Methylnaphthalene, 1- | 408573 | 0.05 | ug/g | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Methylnaphthalene, 2- | 408573 | 0.05 | ug/g | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Naphthalene | 408573 | 0.013 | ug/g | STD 0.09 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 |
| Phenanthrene | 408573 | 0.05 | ug/g | STD 0.69 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Pyrene | 408573 | 0.05 | ug/g | STD 1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

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Client: Geo Pro Consulting
 40 Vogell Rd, Unit 57
 Richmond Hill, Ontario
 L4B 3K6
 Attention: Dylan X
 PO#:
 Invoice to: Geo Pro Consulting

Report Number: 1962118
 Date Submitted: 2021-09-09
 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

PAH

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1581937 Soil153 | 1581938 Soil153 | 1581939 Soil153 | 1581940 Soil153 | 1581941 Soil153 |
| 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH104 SS2 | BH104 SS4 | BH105 SS1 | BH106 SS2 | BH106 SS4 |

| Analyte | Batch No | MRL | Units | Guideline | 1581937 Soil153 | 1581938 Soil153 | 1581939 Soil153 | 1581940 Soil153 | 1581941 Soil153 |
|------------------------|----------|-------|-------|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1+2-methylnaphthalene | 408575 | 0.05 | ug/g | STD 0.59 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Acenaphthene | 408573 | 0.05 | ug/g | STD 0.072 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Acenaphthylene | 408573 | 0.05 | ug/g | STD 0.093 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Anthracene | 408573 | 0.05 | ug/g | STD 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benz[a]anthracene | 408573 | 0.05 | ug/g | STD 0.36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[a]pyrene | 408573 | 0.05 | ug/g | STD 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[b]fluoranthene | 408573 | 0.05 | ug/g | STD 0.47 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[ghi]perylene | 408573 | 0.05 | ug/g | STD 0.68 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[k]fluoranthene | 408573 | 0.05 | ug/g | STD 0.48 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Chrysene | 408573 | 0.05 | ug/g | STD 2.8 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dibenz[a h]anthracene | 408573 | 0.05 | ug/g | STD 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Fluoranthene | 408573 | 0.05 | ug/g | STD 0.56 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Fluorene | 408573 | 0.05 | ug/g | STD 0.12 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Indeno[1 2 3-cd]pyrene | 408573 | 0.05 | ug/g | STD 0.23 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Methylnaphthalene, 1- | 408573 | 0.05 | ug/g | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Methylnaphthalene, 2- | 408573 | 0.05 | ug/g | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Naphthalene | 408573 | 0.013 | ug/g | STD 0.09 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 |
| Phenanthrene | 408573 | 0.05 | ug/g | STD 0.69 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Pyrene | 408573 | 0.05 | ug/g | STD 1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

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 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

Volatiles

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--|--|--|--|--|
| 1581932 Soil153 2021-08-27 BH101 SS2 | 1581933 Soil153 2021-08-27 BH101 SS3 | 1581934 Soil153 2021-08-27 BH102 SS1 | 1581935 Soil153 2021-08-27 BH103 SS2 | 1581936 Soil153 2021-08-27 BH103 SS3 |
|--|--|--|--|--|

| Analyte | Batch No | MRL | Units | Guideline | 1581932 Soil153 2021-08-27 BH101 SS2 | 1581933 Soil153 2021-08-27 BH101 SS3 | 1581934 Soil153 2021-08-27 BH102 SS1 | 1581935 Soil153 2021-08-27 BH103 SS2 | 1581936 Soil153 2021-08-27 BH103 SS3 |
|------------------------------|----------|--------|-------|-----------|--|--|--|--|--|
| Acetone | 408737 | 0.50 | ug/g | STD 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Benzene | 408737 | 0.0068 | ug/g | STD 0.02 | <0.0068 | <0.0068 | <0.0068 | <0.0068 | <0.0068 |
| Bromodichloromethane | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Bromoform | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Bromomethane | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Carbon Tetrachloride | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Chlorobenzene | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Chloroform | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dibromochloromethane | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichlorobenzene, 1,2- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichlorobenzene, 1,3- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichlorobenzene, 1,4- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichlorodifluoromethane | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloroethane, 1,1- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloroethane, 1,2- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloroethylene, 1,1- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloroethylene, 1,2-cis- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloroethylene, 1,2-trans- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloropropane, 1,2- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloropropene, 1,3- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloropropene, 1,3-cis- | 408737 | 0.05 | ug/g | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloropropene, 1,3-trans- | 408737 | 0.05 | ug/g | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Ethylbenzene | 408737 | 0.018 | ug/g | STD 0.05 | <0.018 | <0.018 | <0.018 | <0.018 | <0.018 |

Results relate only to the parameters tested on the samples submitted.
 Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Client: Geo Pro Consulting
 40 Vogell Rd, Unit 57
 Richmond Hill, Ontario
 L4B 3K6
 Attention: Dylan X
 PO#:
 Invoice to: Geo Pro Consulting

Report Number: 1962118
 Date Submitted: 2021-09-09
 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

Volatiles

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1581932 Soil153 | 1581933 Soil153 | 1581934 Soil153 | 1581935 Soil153 | 1581936 Soil153 |
| 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH101 SS2 | BH101 SS3 | BH102 SS1 | BH103 SS2 | BH103 SS3 |

| Analyte | Batch No | MRL | Units | Guideline | 1581932 Soil153 | 1581933 Soil153 | 1581934 Soil153 | 1581935 Soil153 | 1581936 Soil153 |
|--------------------------------|----------|------|-------|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Ethylene dibromide | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Hexane (n) | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Methyl Ethyl Ketone | 408737 | 0.50 | ug/g | STD 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Methyl Isobutyl Ketone | 408737 | 0.50 | ug/g | STD 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Methyl tert-Butyl Ether (MTBE) | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Methylene Chloride | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Styrene | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Tetrachloroethane, 1,1,1,2- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Tetrachloroethane, 1,1,2,2- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Tetrachloroethylene | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Toluene | 408737 | 0.08 | ug/g | STD 0.2 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 |
| Trichloroethane, 1,1,1- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Trichloroethane, 1,1,2- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Trichloroethylene | 408737 | 0.01 | ug/g | STD 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Trichlorofluoromethane | 408737 | 0.05 | ug/g | STD 0.25 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Vinyl Chloride | 408737 | 0.02 | ug/g | STD 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Xylene Mixture | 408743 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Xylene, m/p- | 408737 | 0.05 | ug/g | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Xylene, o- | 408737 | 0.05 | ug/g | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

Results relate only to the parameters tested on the samples submitted.
 Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Client: Geo Pro Consulting
 40 Vogell Rd, Unit 57
 Richmond Hill, Ontario
 L4B 3K6
 Attention: Dylan X
 PO#:
 Invoice to: Geo Pro Consulting

Report Number: 1962118
 Date Submitted: 2021-09-09
 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

Volatiles

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--|--|--|--|--|
| 1581937 Soil153 2021-08-27 BH104 SS2 | 1581938 Soil153 2021-08-27 BH104 SS4 | 1581939 Soil153 2021-08-27 BH105 SS1 | 1581940 Soil153 2021-08-27 BH106 SS2 | 1581941 Soil153 2021-08-27 BH106 SS4 |
|--|--|--|--|--|

| Analyte | Batch No | MRL | Units | Guideline | 1581937 Soil153 2021-08-27 BH104 SS2 | 1581938 Soil153 2021-08-27 BH104 SS4 | 1581939 Soil153 2021-08-27 BH105 SS1 | 1581940 Soil153 2021-08-27 BH106 SS2 | 1581941 Soil153 2021-08-27 BH106 SS4 |
|------------------------------|----------|--------|-------|-----------|--|--|--|--|--|
| Acetone | 408737 | 0.50 | ug/g | STD 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Benzene | 408737 | 0.0068 | ug/g | STD 0.02 | <0.0068 | <0.0068 | <0.0068 | <0.0068 | <0.0068 |
| Bromodichloromethane | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Bromoform | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Bromomethane | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Carbon Tetrachloride | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Chlorobenzene | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Chloroform | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dibromochloromethane | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichlorobenzene, 1,2- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichlorobenzene, 1,3- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichlorobenzene, 1,4- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichlorodifluoromethane | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloroethane, 1,1- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloroethane, 1,2- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloroethylene, 1,1- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloroethylene, 1,2-cis- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloroethylene, 1,2-trans- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloropropane, 1,2- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloropropene, 1,3- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloropropene, 1,3-cis- | 408737 | 0.05 | ug/g | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dichloropropene, 1,3-trans- | 408737 | 0.05 | ug/g | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Ethylbenzene | 408737 | 0.018 | ug/g | STD 0.05 | <0.018 | <0.018 | <0.018 | <0.018 | <0.018 |

Results relate only to the parameters tested on the samples submitted.
 Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Client: Geo Pro Consulting
 40 Vogell Rd, Unit 57
 Richmond Hill, Ontario
 L4B 3K6
 Attention: Dylan X
 PO#:
 Invoice to: Geo Pro Consulting

Report Number: 1962118
 Date Submitted: 2021-09-09
 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

Volatiles

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1581937 Soil153 | 1581938 Soil153 | 1581939 Soil153 | 1581940 Soil153 | 1581941 Soil153 |
| 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH104 SS2 | BH104 SS4 | BH105 SS1 | BH106 SS2 | BH106 SS4 |

| Analyte | Batch No | MRL | Units | Guideline | 1581937 Soil153 | 1581938 Soil153 | 1581939 Soil153 | 1581940 Soil153 | 1581941 Soil153 |
|--------------------------------|----------|------|-------|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Ethylene dibromide | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Hexane (n) | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Methyl Ethyl Ketone | 408737 | 0.50 | ug/g | STD 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Methyl Isobutyl Ketone | 408737 | 0.50 | ug/g | STD 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Methyl tert-Butyl Ether (MTBE) | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Methylene Chloride | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Styrene | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Tetrachloroethane, 1,1,1,2- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Tetrachloroethane, 1,1,2,2- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Tetrachloroethylene | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Toluene | 408737 | 0.08 | ug/g | STD 0.2 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 |
| Trichloroethane, 1,1,1- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Trichloroethane, 1,1,2- | 408737 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Trichloroethylene | 408737 | 0.01 | ug/g | STD 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Trichlorofluoromethane | 408737 | 0.05 | ug/g | STD 0.25 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Vinyl Chloride | 408737 | 0.02 | ug/g | STD 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Xylene Mixture | 408743 | 0.05 | ug/g | STD 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Xylene, m/p- | 408737 | 0.05 | ug/g | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Xylene, o- | 408737 | 0.05 | ug/g | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

Results relate only to the parameters tested on the samples submitted.
 Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Client: Geo Pro Consulting
 40 Vogell Rd, Unit 57
 Richmond Hill, Ontario
 L4B 3K6
 Attention: Dylan X
 PO#:
 Invoice to: Geo Pro Consulting

Report Number: 1962118
 Date Submitted: 2021-09-09
 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

Inorganics

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1581932 Soil153 | 1581933 Soil153 | 1581934 Soil153 | 1581935 Soil153 | 1581936 Soil153 |
| 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH101 SS2 | BH101 SS3 | BH102 SS1 | BH103 SS2 | BH103 SS3 |

| Analyte | Batch No | MRL | Units | Guideline | | | | | |
|-------------------------|----------|-------|-------|-----------|-------|--------|-------|-------|--------|
| Cyanide (CN-) | 408548 | 0.005 | ug/g | STD 0.051 | | <0.005 | | | <0.005 |
| | | 0.05 | ug/g | STD 0.051 | <0.05 | | <0.05 | <0.05 | |
| Electrical Conductivity | 408495 | 0.05 | mS/cm | STD 0.57 | 0.12 | 0.10 | 0.14 | 0.15 | 0.12 |
| pH - CaCl2 | 408675 | 2.00 | | | 6.17 | 7.02 | 7.19 | 7.14 | 7.13 |
| Sodium Adsorption Ratio | 408539 | 0.01 | | STD 2.4 | 0.18 | 0.11 | 0.06 | 0.08 | 0.07 |

Inorganics

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1581937 Soil153 | 1581938 Soil153 | 1581939 Soil153 | 1581940 Soil153 | 1581941 Soil153 |
| 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH104 SS2 | BH104 SS4 | BH105 SS1 | BH106 SS2 | BH106 SS4 |

| Analyte | Batch No | MRL | Units | Guideline | | | | | |
|-------------------------|----------|-------|-------|-----------|-------|--------|-------|--------|--------|
| Cyanide (CN-) | 408548 | 0.005 | ug/g | STD 0.051 | | <0.005 | | <0.005 | <0.005 |
| | | 0.05 | ug/g | STD 0.051 | <0.05 | | <0.05 | | |
| Electrical Conductivity | 408495 | 0.05 | mS/cm | STD 0.57 | 0.15 | 0.11 | 0.13 | 0.15 | 0.27 |
| pH - CaCl2 | 408675 | 2.00 | | | 7.10 | 7.30 | 7.33 | 7.42 | 7.49 |
| Sodium Adsorption Ratio | 408539 | 0.01 | | STD 2.4 | 0.13 | 0.15 | 0.05 | 0.15 | 0.32 |

Results relate only to the parameters tested on the samples submitted.
 Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Client: Geo Pro Consulting
 40 Vogell Rd, Unit 57
 Richmond Hill, Ontario
 L4B 3K6
 Attention: Dylan X
 PO#:
 Invoice to: Geo Pro Consulting

Report Number: 1962118
 Date Submitted: 2021-09-09
 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

Inorganics

Lab I.D. 1581942
 Sample Matrix Soil153
 Sample Type
 Sample Date 2021-08-27
 Sampling Time
 Sample I.D. BH106
 SS2D

| Analyte | Batch No | MRL | Units | Guideline | |
|-------------------------|----------|------|-------|-----------|-------|
| Cyanide (CN-) | 408548 | 0.05 | ug/g | STD 0.051 | <0.05 |
| Electrical Conductivity | 408495 | 0.05 | mS/cm | STD 0.57 | 0.15 |
| pH - CaCl2 | 408675 | 2.00 | | | 7.42 |
| Sodium Adsorption Ratio | 408539 | 0.01 | | STD 2.4 | 0.12 |

Moisture

Lab I.D. 1581932
 Sample Matrix Soil153
 Sample Type
 Sample Date 2021-08-27
 Sampling Time
 Sample I.D. BH101
 SS2

1581933 Soil153
 2021-08-27
 BH101
 SS3

1581934 Soil153
 2021-08-27
 BH102
 SS1

1581935 Soil153
 2021-08-27
 BH103
 SS2

1581936 Soil153
 2021-08-27
 BH103
 SS3

| Analyte | Batch No | MRL | Units | Guideline | | | | | |
|-------------------|----------|-----|-------|-----------|-----|-----|-----|-----|-----|
| Moisture-Humidite | 408483 | 0.1 | % | | 5.6 | 7.7 | 2.7 | 6.7 | 5.3 |

Results relate only to the parameters tested on the samples submitted.
 Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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 40 Vogell Rd, Unit 57
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 L4B 3K6
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 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

Moisture

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1581937 Soil153 | 1581938 Soil153 | 1581939 Soil153 | 1581940 Soil153 | 1581941 Soil153 |
| 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH104 SS2 | BH104 SS4 | BH105 SS1 | BH106 SS2 | BH106 SS4 |

| Analyte | Batch No | MRL | Units | Guideline | | | | | |
|-------------------|----------|-----|-------|-----------|-----|------|-----|------|------|
| Moisture-Humidite | 408483 | 0.1 | % | | 9.2 | 15.0 | 7.1 | 14.2 | 10.6 |

PCBs

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1581932 Soil153 | 1581933 Soil153 | 1581934 Soil153 | 1581935 Soil153 | 1581936 Soil153 |
| 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH101 SS2 | BH101 SS3 | BH102 SS1 | BH103 SS2 | BH103 SS3 |

| Analyte | Batch No | MRL | Units | Guideline | | | | | |
|---------------------------|----------|------|-------|-----------|-------|-------|-------|-------|-------|
| Aroclor 1242 | 408468 | 0.02 | ug/g | | <0.02 | <0.02 | | | |
| | 408604 | 0.02 | ug/g | | | | <0.02 | <0.02 | <0.02 |
| Aroclor 1248 | 408468 | 0.02 | ug/g | | <0.02 | <0.02 | | | |
| | 408604 | 0.02 | ug/g | | | | <0.02 | <0.02 | <0.02 |
| Aroclor 1254 | 408468 | 0.02 | ug/g | | <0.02 | <0.02 | | | |
| | 408604 | 0.02 | ug/g | | | | <0.02 | <0.02 | <0.02 |
| Aroclor 1260 | 408468 | 0.02 | ug/g | | <0.02 | <0.02 | | | |
| | 408604 | 0.02 | ug/g | | | | <0.02 | <0.02 | <0.02 |
| Polychlorinated Biphenyls | 408468 | 0.02 | ug/g | STD 0.3 | <0.02 | <0.02 | | | |
| | 408604 | 0.02 | ug/g | STD 0.3 | | | <0.02 | <0.02 | <0.02 |

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Client: Geo Pro Consulting
 40 Vogell Rd, Unit 57
 Richmond Hill, Ontario
 L4B 3K6
 Attention: Dylan X
 PO#:
 Invoice to: Geo Pro Consulting

Report Number: 1962118
 Date Submitted: 2021-09-09
 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

PCBs

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1581937 Soil153 | 1581938 Soil153 | 1581939 Soil153 | 1581940 Soil153 | 1581941 Soil153 |
| 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH104 SS2 | BH104 SS4 | BH105 SS1 | BH106 SS2 | BH106 SS4 |

| Analyte | Batch No | MRL | Units | Guideline | 1581937 | 1581938 | 1581939 | 1581940 | 1581941 |
|---------------------------|----------|------|-------|-----------|---------|---------|---------|---------|---------|
| Aroclor 1242 | 408604 | 0.02 | ug/g | | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Aroclor 1248 | 408604 | 0.02 | ug/g | | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Aroclor 1254 | 408604 | 0.02 | ug/g | | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Aroclor 1260 | 408604 | 0.02 | ug/g | | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Polychlorinated Biphenyls | 408604 | 0.02 | ug/g | STD 0.3 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |

PCB Surrogate

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1581932 Soil153 | 1581933 Soil153 | 1581934 Soil153 | 1581935 Soil153 | 1581936 Soil153 |
| 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH101 SS2 | BH101 SS3 | BH102 SS1 | BH103 SS2 | BH103 SS3 |

| Analyte | Batch No | MRL | Units | Guideline | 1581932 | 1581933 | 1581934 | 1581935 | 1581936 |
|--------------------|----------|-----|-------|-----------|---------|---------|---------|---------|---------|
| Decachlorobiphenyl | 408470 | 0 | % | | 61 | 64 | | | |
| | 408605 | 0 | % | | | | 62 | 67 | 69 |

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Environment Testing

Client: Geo Pro Consulting
 40 Vogell Rd, Unit 57
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 L4B 3K6
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 PO#:
 Invoice to: Geo Pro Consulting

Report Number: 1962118
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 Project: 17-1780E3-1787
 COC #: 879859

**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

PCB Surrogate

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1581937 Soil153 | 1581938 Soil153 | 1581939 Soil153 | 1581940 Soil153 | 1581941 Soil153 |
| 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH104 SS2 | BH104 SS4 | BH105 SS1 | BH106 SS2 | BH106 SS4 |

| Analyte | Batch No | MRL | Units | Guideline | | | | | |
|--------------------|----------|-----|-------|-----------|----|----|----|----|----|
| Decachlorobiphenyl | 408605 | 0 | % | | 67 | 68 | 67 | 62 | 63 |

PHC Surrogate

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1581932 Soil153 | 1581933 Soil153 | 1581934 Soil153 | 1581935 Soil153 | 1581936 Soil153 |
| 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH101 SS2 | BH101 SS3 | BH102 SS1 | BH103 SS2 | BH103 SS3 |

| Analyte | Batch No | MRL | Units | Guideline | | | | | |
|-------------------|----------|-----|-------|-----------|----|----|----|----|----|
| Alpha-androstrane | 408483 | 0 | % | | 85 | 79 | 85 | 87 | 79 |

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**Guideline = Excess
 Soil-T1-Res/Park/Inst/Ind/Cml/Co**

PHC Surrogate

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1581937 Soil153 | 1581938 Soil153 | 1581939 Soil153 | 1581940 Soil153 | 1581941 Soil153 |
| 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH104 SS2 | BH104 SS4 | BH105 SS1 | BH106 SS2 | BH106 SS4 |

| Analyte | Batch No | MRL | Units | Guideline | | | | | |
|-------------------|----------|-----|-------|-----------|----|----|----|----|-----|
| Alpha-androstrane | 408483 | 0 | % | | 73 | 60 | 77 | 92 | 110 |

VOCs Surrogates

Lab I.D.
 Sample Matrix
 Sample Type
 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1581932 Soil153 | 1581933 Soil153 | 1581934 Soil153 | 1581935 Soil153 | 1581936 Soil153 |
| 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH101 SS2 | BH101 SS3 | BH102 SS1 | BH103 SS2 | BH103 SS3 |

| Analyte | Batch No | MRL | Units | Guideline | | | | | |
|-----------------------|----------|-----|-------|-----------|-----|-----|-----|-----|-----|
| 1,2-dichloroethane-d4 | 408737 | 0 | % | | 89 | 92 | 97 | 98 | 92 |
| 4-bromofluorobenzene | 408737 | 0 | % | | 108 | 111 | 116 | 110 | 113 |
| Toluene-d8 | 408737 | 0 | % | | 103 | 101 | 102 | 95 | 105 |

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VOCs Surrogates

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 Sample Date
 Sampling Time
 Sample I.D.

| | | | | |
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| 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 | 2021-08-27 |
| BH104 SS2 | BH104 SS4 | BH105 SS1 | BH106 SS2 | BH106 SS4 |

| Analyte | Batch No | MRL | Units | Guideline | 1581937 Soil153 | 1581938 Soil153 | 1581939 Soil153 | 1581940 Soil153 | 1581941 Soil153 |
|-----------------------|----------|-----|-------|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1,2-dichloroethane-d4 | 408737 | 0 | % | | 97 | 89 | 93 | 102 | 95 |
| 4-bromofluorobenzene | 408737 | 0 | % | | 110 | 106 | 108 | 116 | 104 |
| Toluene-d8 | 408737 | 0 | % | | 98 | 102 | 100 | 104 | 106 |

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 COC #: 879859

Quality Assurance Summary

| Batch No | Analyte | Blank | QC % Rec | QC Limits | Spike % Rec | Spike Limits | Dup % RPD | Duplicate Limits |
|----------|---------------------------|------------|----------|-----------|-------------|--------------|-----------|------------------|
| 408468 | Aroclor 1242 | <0.02 ug/g | 83 | 60-140 | 72 | 60-140 | 0 | 0-40 |
| 408468 | Aroclor 1248 | <0.02 ug/g | 83 | 60-140 | 72 | 60-140 | 0 | 0-40 |
| 408468 | Aroclor 1254 | <0.02 ug/g | 83 | 60-140 | 72 | 60-140 | 0 | 0-40 |
| 408468 | Aroclor 1260 | <0.02 ug/g | 83 | 60-140 | 72 | 60-140 | 0 | 0-40 |
| 408468 | Polychlorinated Biphenyls | <0.02 ug/g | 83 | 60-140 | 72 | 60-140 | 0 | 0-40 |
| 408483 | PHC's F2 | <10 ug/g | 112 | 80-120 | 78 | 60-140 | 0 | 0-30 |
| 408483 | PHC's F3 | <20 ug/g | 112 | 80-120 | 78 | 60-140 | 0 | 0-30 |
| 408483 | PHC's F4 | <20 ug/g | 112 | 80-120 | 78 | 60-140 | 0 | 0-30 |
| 408483 | Moisture-Humidite | <0.1 % | 100 | 80-120 | | | 3 | |
| 408495 | Electrical Conductivity | <0.05 | 97 | 90-110 | | | 3 | 0-10 |
| 408498 | PHC's F2-Napth | | | | | | | |
| 408499 | PHC's F3-PAH | | | | | | | |
| 408535 | Silver | <0.2 ug/g | 148 | 70-130 | 192 | 70-130 | 0 | 0-20 |
| 408535 | Arsenic | <1 ug/g | 96 | 70-130 | 112 | 70-130 | 0 | 0-20 |
| 408535 | Boron (total) | <5 ug/g | 104 | 70-130 | 137 | 70-130 | 0 | 0-20 |
| 408535 | Barium | <1 ug/g | 90 | 70-130 | 186 | 70-130 | 6 | 0-20 |
| 408535 | Beryllium | <1 ug/g | 103 | 70-130 | 96 | 70-130 | 0 | 0-20 |
| 408535 | Cadmium | <0.4 ug/g | 95 | 70-130 | 107 | 70-130 | 0 | 0-20 |
| 408535 | Cobalt | <1 ug/g | 92 | 70-130 | 99 | 70-130 | 0 | 0-20 |
| 408535 | Chromium Total | <1 ug/g | 97 | 70-130 | 145 | 70-130 | 31 | 0-20 |
| 408535 | Copper | <1 ug/g | 101 | 70-130 | 98 | 70-130 | 2 | 0-20 |
| 408535 | Mercury | <0.1 ug/g | 100 | 70-130 | 110 | 70-130 | 0 | 0-20 |
| 408535 | Molybdenum | <1 ug/g | 90 | 70-130 | 104 | 70-130 | 0 | 0-20 |
| 408535 | Nickel | <1 ug/g | 96 | 70-130 | 103 | 70-130 | 25 | 0-20 |
| 408535 | Lead | <1 ug/g | 91 | 70-130 | 101 | 70-130 | 0 | 0-20 |
| 408535 | Antimony | <1 ug/g | 73 | 70-130 | 102 | 70-130 | 0 | 0-20 |
| 408535 | Selenium | <0.5 ug/g | 108 | 70-130 | 120 | 70-130 | 0 | 0-20 |
| 408535 | Thallium | <1 ug/g | 91 | 70-130 | 96 | 70-130 | 0 | 0-20 |
| 408535 | Uranium | <0.5 ug/g | 87 | 70-130 | 96 | 70-130 | 0 | 0-20 |
| 408535 | Vanadium | <2 ug/g | 93 | 70-130 | 149 | 70-130 | 7 | 0-20 |
| 408535 | Zinc | <2 ug/g | 107 | 70-130 | 124 | 70-130 | 8 | 0-20 |
| 408539 | Sodium Adsorption Ratio | <0.01 | | | | | 1 | |
| 408548 | Cyanide (CN-) | <0.05 ug/g | 100 | 75-125 | 100 | 70-130 | 0 | 0-20 |

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 Date Submitted: 2021-09-09
 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

Quality Assurance Summary

| Batch No | Analyte | Blank | QC % Rec | QC Limits | Spike % Rec | Spike Limits | Dup % RPD | Duplicate Limits |
|----------|---------------------------|-------------|----------|-----------|-------------|--------------|-----------|------------------|
| 408554 | Boron (Hot Water Soluble) | <0.5 ug/g | 90 | 70-130 | 108 | 75-125 | 0 | 0-30 |
| 408573 | Methylnaphthalene, 1- | <0.05 ug/g | 88 | 50-140 | 81 | 50-140 | 0 | 0-40 |
| 408573 | Methylnaphthalene, 2- | <0.05 ug/g | 94 | 50-140 | 77 | 50-140 | 0 | 0-40 |
| 408573 | Acenaphthene | <0.05 ug/g | 76 | 50-140 | 61 | 50-140 | 0 | 0-40 |
| 408573 | Acenaphthylene | 0.07 ug/g | 75 | 50-140 | 60 | 50-140 | 0 | 0-40 |
| 408573 | Anthracene | <0.05 ug/g | 78 | 50-140 | 65 | 50-140 | 0 | 0-40 |
| 408573 | Benz[a]anthracene | <0.05 ug/g | 52 | 50-140 | 62 | 50-140 | 0 | 0-40 |
| 408573 | Benzo[a]pyrene | <0.05 ug/g | 68 | 50-140 | 72 | 50-140 | 0 | 0-40 |
| 408573 | Benzo[b]fluoranthene | <0.05 ug/g | 76 | 50-140 | 69 | 50-140 | 0 | 0-40 |
| 408573 | Benzo[ghi]perylene | <0.05 ug/g | 62 | 50-140 | 60 | 50-140 | 0 | 0-40 |
| 408573 | Benzo[k]fluoranthene | <0.05 ug/g | 111 | 50-140 | 97 | | 0 | 0-40 |
| 408573 | Chrysene | <0.05 ug/g | 86 | 50-140 | 75 | 50-140 | 0 | 0-40 |
| 408573 | Dibenz[a h]anthracene | <0.05 ug/g | 66 | 50-140 | 61 | 50-140 | 0 | 0-40 |
| 408573 | Fluoranthene | <0.05 ug/g | 78 | 50-140 | 71 | 50-140 | 0 | 0-40 |
| 408573 | Fluorene | <0.05 ug/g | 77 | 50-140 | 62 | 50-140 | 0 | 0-40 |
| 408573 | Indeno[1 2 3-cd]pyrene | <0.05 ug/g | 66 | 50-140 | 59 | 50-140 | 0 | 0-40 |
| 408573 | Naphthalene | <0.013 ug/g | 75 | 50-140 | 66 | 50-140 | 0 | 0-40 |
| 408573 | Phenanthrene | <0.05 ug/g | 75 | 50-140 | 64 | 50-140 | 0 | 0-40 |
| 408573 | Pyrene | <0.05 ug/g | 77 | 50-140 | 69 | 50-140 | 0 | 0-40 |
| 408575 | 1+2-methylnaphthalene | | | | | | | |
| 408604 | Aroclor 1242 | <0.02 ug/g | 83 | 60-140 | 72 | 60-140 | 0 | 0-40 |
| 408604 | Aroclor 1248 | <0.02 ug/g | 83 | 60-140 | 72 | 60-140 | 0 | 0-40 |
| 408604 | Aroclor 1254 | <0.02 ug/g | 83 | 60-140 | 72 | 60-140 | 0 | 0-40 |
| 408604 | Aroclor 1260 | <0.02 ug/g | 83 | 60-140 | 72 | 60-140 | 0 | 0-40 |
| 408604 | Polychlorinated Biphenyls | <0.02 ug/g | 83 | 60-140 | 72 | 60-140 | 0 | 0-40 |
| 408620 | Chlordane, alpha- | <0.002 ug/g | 59 | 50-140 | | 50-140 | 0 | 0-40 |
| 408620 | Aldrin | <0.002 ug/g | 59 | 50-140 | | 50-140 | 0 | 0-40 |
| 408620 | Chlordane | <0.006 ug/g | | | | | 0 | |
| 408620 | Dieldrin | <0.002 ug/g | 62 | 50-140 | | 50-140 | 0 | 0-40 |
| 408620 | Endosulfan | <0.004 ug/g | | | | | 0 | |
| 408620 | Endosulfan I | <0.002 ug/g | 64 | 50-140 | | 50-140 | 0 | 0-40 |
| 408620 | Endosulfan II | <0.002 ug/g | 52 | 50-140 | | 50-140 | 0 | 0-40 |
| 408620 | Endrin | <0.002 ug/g | 66 | 50-140 | | 50-140 | 0 | 0-40 |

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Quality Assurance Summary

| Batch No | Analyte | Blank | QC % Rec | QC Limits | Spike % Rec | Spike Limits | Dup % RPD | Duplicate Limits |
|----------|------------------------------|-------------|----------|-----------|-------------|--------------|-----------|------------------|
| 408620 | Hexachlorocyclohexane Gamma- | <0.002 ug/g | 60 | 50-140 | | 50-140 | 0 | 0-40 |
| 408620 | Chlordane, gamma- | <0.002 ug/g | 59 | 50-140 | | 50-140 | 0 | 0-40 |
| 408620 | Heptachlor | <0.002 ug/g | 53 | 50-140 | | 50-140 | 0 | 0-40 |
| 408620 | Heptachlor Epoxide | <0.002 ug/g | 67 | 50-140 | | 50-140 | 0 | 0-40 |
| 408620 | Hexachlorobenzene | <0.002 ug/g | 75 | 50-140 | | 50-140 | 0 | 0-40 |
| 408620 | Hexachlorobutadiene | <0.002 ug/g | 82 | | | | 0 | |
| 408620 | Hexachloroethane | <0.002 ug/g | 69 | | | | 0 | |
| 408620 | Methoxychlor | <0.002 ug/g | 55 | 50-140 | | 50-140 | 0 | 0-40 |
| 408620 | DDD | <0.002 ug/g | 66 | 50-140 | | 50-140 | 0 | 0-40 |
| 408620 | DDE | <0.002 ug/g | 60 | 50-140 | | 50-140 | 0 | 0-40 |
| 408620 | DDT | <0.002 ug/g | 64 | 50-140 | | 50-140 | 0 | 0-40 |
| 408648 | Chromium VI | <0.20 ug/g | 108 | 80-120 | 100 | 70-130 | 0 | 0-35 |
| 408673 | Boron (Hot Water Soluble) | <0.5 ug/g | 100 | 70-130 | | 75-125 | | 0-30 |
| 408675 | pH - CaCl2 | 6.56 | 101 | 90-110 | | | 0 | |
| 408713 | Chromium VI | <0.20 ug/g | 102 | 80-120 | 88 | 70-130 | 0 | 0-35 |
| 408730 | PHC's F1 | <10 ug/g | 97 | 80-120 | 100 | 60-140 | 0 | 0-30 |
| 408737 | Tetrachloroethane, 1,1,1,2- | <0.05 ug/g | 99 | 60-130 | 96 | 50-140 | 0 | 0-50 |
| 408737 | Trichloroethane, 1,1,1- | <0.05 ug/g | 87 | 60-130 | 100 | 50-140 | 0 | 0-50 |
| 408737 | Tetrachloroethane, 1,1,2,2- | <0.05 ug/g | 88 | 60-130 | 92 | 50-140 | 0 | 0-30 |
| 408737 | Trichloroethane, 1,1,2- | <0.05 ug/g | 107 | 60-130 | 103 | 50-140 | 0 | 0-50 |
| 408737 | Dichloroethane, 1,1- | <0.05 ug/g | 94 | 60-130 | 107 | 50-140 | 0 | 0-50 |
| 408737 | Dichloroethylene, 1,1- | <0.05 ug/g | 83 | 60-130 | 110 | 50-140 | 0 | 0-50 |
| 408737 | Dichlorobenzene, 1,2- | <0.05 ug/g | 98 | 60-130 | 94 | 50-140 | 0 | 0-50 |
| 408737 | Dichloroethane, 1,2- | <0.05 ug/g | 88 | 60-130 | 113 | 50-140 | 0 | 0-50 |
| 408737 | Dichloropropane, 1,2- | <0.05 ug/g | 100 | 60-130 | 101 | 50-140 | 0 | 0-50 |
| 408737 | Dichlorobenzene, 1,3- | <0.05 ug/g | 81 | 60-130 | 76 | 50-140 | 0 | 0-50 |
| 408737 | Dichloropropene, 1,3- | <0.05 ug/g | | | | | | |
| 408737 | Dichlorobenzene, 1,4- | <0.05 ug/g | 98 | 60-130 | 92 | 50-140 | 0 | 0-50 |
| 408737 | Acetone | <0.50 ug/g | 94 | 60-130 | 119 | 50-140 | 0 | 0-50 |
| 408737 | Benzene | <0.0068 | 85 | 60-130 | 106 | 50-140 | 0 | 0-50 |
| 408737 | Bromodichloromethane | <0.05 ug/g | 106 | 60-130 | 100 | 50-140 | 0 | 0-50 |
| 408737 | Bromoform | <0.05 ug/g | 100 | 60-130 | 102 | 50-140 | 0 | 0-50 |
| 408737 | Bromomethane | <0.05 ug/g | 80 | 60-130 | 100 | 50-140 | 0 | 0-50 |

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 Project: 17-1780E3-1787
 COC #: 879859

Quality Assurance Summary

| Batch No | Analyte | Blank | QC % Rec | QC Limits | Spike % Rec | Spike Limits | Dup % RPD | Duplicate Limits |
|----------|--------------------------------|-------------|----------|-----------|-------------|--------------|-----------|------------------|
| 408737 | Dichloroethylene, 1,2-cis- | <0.05 ug/g | 89 | 60-130 | 106 | 50-140 | 0 | 0-50 |
| 408737 | Dichloropropene, 1,3-cis- | <0.05 ug/g | 108 | 60-130 | 91 | 50-140 | 0 | 0-50 |
| 408737 | Carbon Tetrachloride | <0.05 ug/g | 94 | 60-130 | 102 | 50-140 | 0 | 0-50 |
| 408737 | Chloroform | <0.05 ug/g | 84 | 60-130 | 104 | 50-140 | 0 | 0-50 |
| 408737 | Dibromochloromethane | <0.05 ug/g | 106 | 60-130 | 100 | 50-140 | 0 | 0-50 |
| 408737 | Dichlorodifluoromethane | <0.05 ug/g | 90 | 60-130 | 75 | 50-140 | 0 | 0-50 |
| 408737 | Methylene Chloride | <0.05 ug/g | 83 | 60-130 | 109 | 50-140 | 0 | 0-50 |
| 408737 | Ethylbenzene | <0.018 ug/g | 85 | 60-130 | 95 | 50-140 | 0 | 0-50 |
| 408737 | Ethylene dibromide | <0.05 ug/g | 101 | 60-130 | | 50-140 | | 0-50 |
| 408737 | Hexane (n) | <0.05 ug/g | 82 | 60-130 | 84 | 50-140 | 0 | 0-50 |
| 408737 | Xylene, m/p- | <0.05 ug/g | 90 | 60-130 | 86 | 50-140 | 0 | 0-50 |
| 408737 | Methyl Ethyl Ketone | <0.50 ug/g | 90 | 60-130 | 118 | 50-140 | 0 | 0-50 |
| 408737 | Methyl Isobutyl Ketone | <0.50 ug/g | 85 | 60-130 | 85 | 50-140 | 0 | 0-50 |
| 408737 | Methyl tert-Butyl Ether (MTBE) | <0.05 ug/g | 128 | 60-130 | 104 | 50-140 | 0 | 0-50 |
| 408737 | Chlorobenzene | <0.05 ug/g | 83 | 60-130 | 98 | 50-140 | 0 | 0-50 |
| 408737 | Xylene, o- | <0.05 ug/g | 90 | 60-130 | 103 | 50-140 | 0 | 0-50 |
| 408737 | Styrene | <0.05 ug/g | 103 | 60-130 | 96 | 50-140 | 0 | 0-50 |
| 408737 | Dichloroethylene, 1,2-trans- | <0.05 ug/g | 88 | 60-130 | 105 | 50-140 | 0 | 0-50 |
| 408737 | Dichloropropene, 1,3-trans- | <0.05 ug/g | 103 | 60-130 | 98 | 50-140 | 0 | 0-50 |
| 408737 | Tetrachloroethylene | <0.05 ug/g | 107 | 60-130 | 93 | 50-140 | 0 | 0-50 |
| 408737 | Toluene | <0.08 ug/g | 92 | 60-130 | 107 | 50-140 | 0 | 0-50 |
| 408737 | Trichloroethylene | <0.01 ug/g | 101 | 60-130 | 99 | 50-140 | 0 | 0-50 |
| 408737 | Trichlorofluoromethane | <0.05 ug/g | 83 | 60-130 | 80 | 50-140 | 0 | 0-50 |
| 408737 | Vinyl Chloride | <0.02 ug/g | 80 | 60-130 | 117 | 50-140 | 0 | 0-50 |
| 408743 | Xylene Mixture | | | | | | | |
| 408744 | PHC's F1-BTEX | | | | | | | |

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Client: Geo Pro Consulting
 40 Vogell Rd, Unit 57
 Richmond Hill, Ontario
 L4B 3K6
 Attention: Dylan X
 PO#:
 Invoice to: Geo Pro Consulting

Report Number: 1962118
 Date Submitted: 2021-09-09
 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

Test Summary

| Batch No | Analyte | Instrument | Preparation Date | Analysis Date | Analyst | Method |
|----------|---------------------------|------------------------------|------------------|---------------|---------|-----------------|
| 408468 | Aroclor 1242 | GC/ECD | 2021-09-14 | 2021-09-14 | R_G | EPA 8081B/8082A |
| 408468 | Aroclor 1248 | GC/ECD | 2021-09-14 | 2021-09-14 | R_G | EPA 8081B/8082A |
| 408468 | Aroclor 1254 | GC/ECD | 2021-09-14 | 2021-09-14 | R_G | EPA 8081B/8082A |
| 408468 | Aroclor 1260 | GC/ECD | 2021-09-14 | 2021-09-14 | R_G | EPA 8081B/8082A |
| 408468 | Polychlorinated Biphenyls | GC/ECD | 2021-09-14 | 2021-09-14 | R_G | EPA 8081B/8082A |
| 408483 | PHC's F2 | GC/FID | 2021-09-14 | 2021-09-15 | ZoB | CCME |
| 408483 | PHC's F3 | GC/FID | 2021-09-14 | 2021-09-15 | ZoB | CCME |
| 408483 | PHC's F4 | GC/FID | 2021-09-14 | 2021-09-15 | ZoB | CCME |
| 408483 | Moisture-Humidite | Oven | 2021-09-14 | 2021-09-15 | ZoB | ASTM 2216 |
| 408495 | Electrical Conductivity | Electrical Conductivity Mete | 2021-09-14 | 2021-09-14 | Z_S | Cond-Soil |
| 408498 | PHC's F2-Naph | GC/FID | 2021-09-15 | 2021-09-15 | ZoB | CCME |
| 408499 | PHC's F3-PAH | GC/FID | 2021-09-15 | 2021-09-15 | ZoB | CCME |
| 408535 | Silver | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Arsenic | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Boron (total) | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Barium | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Beryllium | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Cadmium | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Cobalt | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Chromium Total | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Copper | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Mercury | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Molybdenum | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Nickel | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Lead | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Antimony | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Selenium | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Thallium | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Uranium | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Vanadium | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408535 | Zinc | ICAPQ-MS | 2021-09-15 | 2021-09-15 | AaN | EPA 200.8/6020 |
| 408539 | Sodium Adsorption Ratio | iCAP OES | 2021-09-15 | 2021-09-15 | Z_S | Ag Soil |
| 408548 | Cyanide (CN-) | Skalar CN Analyzer | 2021-09-15 | 2021-09-15 | AX | MOECC E3015 |

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 Date Reported: 2021-09-17
 Project: 17-1780E3-1787
 COC #: 879859

Test Summary

| Batch No | Analyte | Instrument | Preparation Date | Analysis Date | Analyst | Method |
|----------|---------------------------|------------|------------------|---------------|---------|-----------------|
| 408554 | Boron (Hot Water Soluble) | iCAP OES | 2021-09-15 | 2021-09-15 | Z_S | MOECC E3470 |
| 408573 | Methylnaphthalene, 1- | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Methylnaphthalene, 2- | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Acenaphthene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Acenaphthylene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Anthracene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Benz[a]anthracene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Benzo[a]pyrene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Benzo[b]fluoranthene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Benzo[ghi]perylene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Benzo[k]fluoranthene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Chrysene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Dibenz[a h]anthracene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Fluoranthene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Fluorene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Indeno[1 2 3-cd]pyrene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Naphthalene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Phenanthrene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408573 | Pyrene | GC-MS | 2021-09-13 | 2021-09-14 | C_M | P 8270 |
| 408575 | 1+2-methylnaphthalene | GC-MS | 2021-09-16 | 2021-09-16 | C_M | P 8270 |
| 408604 | Aroclor 1242 | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408604 | Aroclor 1248 | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408604 | Aroclor 1254 | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408604 | Aroclor 1260 | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408604 | Polychlorinated Biphenyls | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Chlordane, alpha- | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Aldrin | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Chlordane | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Dieldrin | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Endosulfan | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Endosulfan I | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Endosulfan II | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Endrin | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |

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 COC #: 879859

Test Summary

| Batch No | Analyte | Instrument | Preparation Date | Analysis Date | Analyst | Method |
|----------|------------------------------|------------|------------------|---------------|---------|-----------------|
| 408620 | Hexachlorocyclohexane Gamma- | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Chlordane, gamma- | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Heptachlor | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Heptachlor Epoxide | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Hexachlorobenzene | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Hexachlorobutadiene | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Hexachloroethane | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | Methoxychlor | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | DDD | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | DDE | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408620 | DDT | GC/ECD | 2021-09-16 | 2021-09-16 | R_G | EPA 8081B/8082A |
| 408648 | Chromium VI | FAA | 2021-09-16 | 2021-09-16 | MW | M US EPA 3060A |
| 408673 | Boron (Hot Water Soluble) | iCAP OES | 2021-09-16 | 2021-09-16 | Z_S | MOECC E3470 |
| 408675 | pH - CaCl2 | pH Meter | 2021-09-16 | 2021-09-16 | MW | Ag Soil |
| 408713 | Chromium VI | FAA | 2021-09-17 | 2021-09-17 | MW | M US EPA 3060A |
| 408730 | PHC's F1 | GC/FID | 2021-09-17 | 2021-09-17 | YH | CCME |
| 408737 | Tetrachloroethane, 1,1,1,2- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Trichloroethane, 1,1,1- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Tetrachloroethane, 1,1,2,2- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Trichloroethane, 1,1,2- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Dichloroethane, 1,1- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Dichloroethylene, 1,1- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Dichlorobenzene, 1,2- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Dichloroethane, 1,2- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Dichloropropane, 1,2- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Dichlorobenzene, 1,3- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Dichloropropene, 1,3- | GC-MS | 2021-09-17 | 2021-09-17 | YH | V 8260B |
| 408737 | Dichlorobenzene, 1,4- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Acetone | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Benzene | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Bromodichloromethane | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Bromoform | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Bromomethane | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |

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 COC #: 879859

Test Summary

| Batch No | Analyte | Instrument | Preparation Date | Analysis Date | Analyst | Method |
|----------|--------------------------------|------------|------------------|---------------|---------|---------|
| 408737 | Dichloroethylene, 1,2-cis- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Dichloropropene, 1,3-cis- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Carbon Tetrachloride | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Chloroform | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Dibromochloromethane | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Dichlorodifluoromethane | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Methylene Chloride | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Ethylbenzene | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Ethylene dibromide | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Hexane (n) | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Xylene, m/p- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Methyl Ethyl Ketone | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Methyl Isobutyl Ketone | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Methyl tert-Butyl Ether (MTBE) | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Chlorobenzene | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Xylene, o- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Styrene | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Dichloroethylene, 1,2-trans- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Dichloropropene, 1,3-trans- | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Tetrachloroethylene | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Toluene | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Trichloroethylene | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Trichlorofluoromethane | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408737 | Vinyl Chloride | GC-MS | 2021-09-16 | 2021-09-16 | YH | V 8260B |
| 408743 | Xylene Mixture | GC-MS | 2021-09-17 | 2021-09-17 | YH | V 8260B |
| 408744 | PHC's F1-BTEX | GC/FID | 2021-09-17 | 2021-09-17 | YH | CCME |

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Petroleum Hydrocarbons - CCME Checklist

Samples were analysed by Eurofins Ottawa Method AMCCME2, "Petroleum Hydrocarbons in Water and Soil, CCME/TPH", "Petroleum Hydrocarbons in Water and Soil, CCME/TPH". These methods comply with the reference method for the CCME CWS PHC and are validated for use in the laboratory. Eurofins Ottawa is accredited by CALA (ISO 17025) for all CCME F1-F4 fractions as listed in this report. Data for QC samples (blank, duplicate, spike) are available on request

| Holding/Analysis Times | Yes/No | If NO, then reasons |
|--|---------------|----------------------------|
| All fractions analyzed within recommended hold times/analysis times? | Yes | |
| F1 | | |
| nC6 and nC10 response factors within 30% of toluene | Yes | |
| BTEX was subtracted from F1 fraction | Yes | |
| If YES, was F1-BTEX (C6-C10) reported | Yes | |
| F2 | | |
| nC10, nC16 and nC34 response factors within 10% of their average (F2-F4) | Yes | |
| Linearity within 15% (F2-F4) | Yes | |
| Napthalene was subtracted from F2 fraction | Yes | |
| If YES was F2-Napthalene reported | Yes | |
| F3 | | |
| PAH (selected compounds) subtracted from F3 fraction | Yes | |
| If YES was F3-PAH reported | Yes | |
| F4 | | |
| C50 response factor within 70% of nC10+nC16+nC34 average | Yes | |
| Chromatogram descended to baseline by retention time of C50 | Yes | |
| if NO was F4 (C34-C50) gravimetric reported | | |

Note: Gravimetric heavy hydrocarbon results for soil samples is known to be highly variable. Where F4G results have been provided, the F4G result cannot be added to the gas chromatographic result.

| CLIENT INFORMATION | | | | INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>) | | | | | | | | | | | | | | | | | |
|--|---------------------|------|---|--|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------|
| Company: GeoPro Consulting Limited | | | | Company: | | | | | | | | Fax: | | | | | | | | | |
| Contact: ELab elab@geoproconsulting.ca | | | | Contact: | | | | | | | | Email: #1: | | | | | | | | | |
| Address: 40 Vogell Road, unit 23, Richmond Hill, ON L4B 3N6 | | | | Address: | | | | | | | | Email: #2: | | | | | | | | | |
| Telephone: 905-237-8336 Cell: | | | | Telephone: | | | | | | | | PO #: | | | | | | | | | |
| Email: #1: dylanx@geoproconsulting.ca; viktorc@geoproconsulting.ca | | | | REGULATION/GUIDELINE REQUIRED | | | | | | | | | | | | | | | | | |
| Email: #2: elab@geoproconsulting.ca; kaiwen@geoproconsulting.ca | | | | <input type="checkbox"/> Sanitary Sewer, City: _____ <input type="checkbox"/> Storm Sewer, City: _____ <input type="checkbox"/> ODWSOG <input type="checkbox"/> PWQO <input type="checkbox"/> O. Reg 347/558 <input type="checkbox"/> Other: _____ <input type="checkbox"/> None | | | | | | | | <input type="checkbox"/> O. Reg 153 Table # _____, Course / Fine, Surface / subsurface. Type: Com-Ind / Res-Park / Agri / GW / All Other / Sediment <input checked="" type="checkbox"/> Excess Soil, Table: 1 Type: _____ The sample results from this submission will form part of a formal Record of Site Condition (RSC) under O.Reg. 153/04 <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | |
| Project: 17-1780E3-1787 Quote #: 190500 | | | | | | | | | | | | | | | | | | | | | |
| TURN-AROUND TIME (Business Days) | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> 1 Day* (100%) <input type="checkbox"/> 2 Day** (50%) <input type="checkbox"/> 3-5 Days (25%) <input checked="" type="checkbox"/> 5-7 Days (Standard) | | | | | | | | | | | | | | | | | | | | | |
| Please contact Lab in advance to determine rush availability. *For results reported after rush due date, surcharges will apply: before 12:00 - 100%, after 12:00 - 50%. **For results reported after rush due date, surcharges will apply: before 12:00 - 50%, after 12:00 - 25%. | | | | | | | | | | | | | | | | | | | | | |
| The optimal temperature conditions during transport should be less than 10°C. Sample(s) cannot be frozen, unless otherwise indicated or agreed upon with the Laboratory. Note that this COC is not to be used for drinking water samples. The COC must be complete upon submission of the samples, there will be a \$25 surcharge if required information is missing (required fields are shaded in grey). | | | | Sample Details | | | | | | | | | | Sample Analysis Required | | | | | | RN# (Lab Use Only) | |
| | | | | Field Filtered --> | Sample Matrix | # of Containers | PHC F1 - F4 | BTEX | VOCs | PAHs | PCBs | Metals - Inorganics | Metals only | OC-Pesticides | | | | | | | |
| Sample ID | Date/Time Collected | | | | | | | | | | | | | | | | | | | | |
| BH101 SS2 | 08/27/2021 | SOIL | 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1581932 |
| BH101 SS3 | 08/27/2021 | SOIL | 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 33 |
| BH102 SS1 | 08/27/2021 | SOIL | 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 34 |
| BH103 SS2 | 08/27/2021 | SOIL | 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 35 |
| BH103 SS3 | 08/27/2021 | SOIL | 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 36 |
| BH104 SS2 | 08/27/2021 | SOIL | 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 37 |
| BH104 SS4 | 08/27/2021 | SOIL | 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 38 |
| BH105 SS1 | 08/27/2021 | SOIL | 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 39 |
| BH106 SS2 | 08/27/2021 | SOIL | 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 40 |
| BH106 SS4 | 08/27/2021 | SOIL | 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 41 |
| PRINT | | SIGN | | | | DATE/TIME | | | | TEMP (°C) | | COMMENTS: | | | | | | | | | |
| Sampled By: | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By: VC | | | | | | Sept. 9, 2021 | | | | | | | | | | | | | | | |
| Received By: Viktor Gallant | | | | | | 09/09/21 4:20pm | | | | 13.6°C | | | | | | | | | | | |
| | | | | | | | | | | | | CUSTODY SEAL: <input type="checkbox"/> YES <input type="checkbox"/> NO Ice packs submitted: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | |

| CLIENT INFORMATION | | INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>) | |
|--------------------|---|--|--------|
| Company: | GeoPro Consulting Limited | Company: | |
| Contact: | ELab elab@geoproconsulting.ca | Contact: | |
| Address: | 40 Vogell Road, unit 23, Richmond Hill, ON L4B 3N6 | Address: | |
| Telephone: | 905-237-8336 | Telephone: | |
| Cell: | | PO #: | |
| Email: #1: | dylanx@geoproconsulting.ca; viktorc@geoproconsulting.ca | | |
| Email: #2: | elab@geoproconsulting.ca; kaiwen@geoproconsulting.ca | | |
| Project: | 17-1780E3-1787 | Quote #: | 190500 |

TURN-AROUND TIME (Business Days)

1 Day* (100%)
 2 Day** (50%)
 3-5 Days (25%)
 5-7 Days (Standard)

Please contact Lab in advance to determine rush availability.

*For results reported after rush due date, surcharges will apply: before 12:00 - 100%, after 12:00 - 50%.

**For results reported after rush due date, surcharges will apply: before 12:00 - 50%, after 12:00 - 25%.

REGULATION/GUIDELINE REQUIRED

Sanitary Sewer, City: _____
 Storm Sewer, City: _____
 ODWSOG
 PWQO
 O. Reg 347/558
 Other: _____
 None

O. Reg 153
 Table # _____, Course / Fine, Surface / subsurface.
 Type: Com-Ind / Res-Park / Agri / GW / All Other / Sediment

Excess Soil, Table: 1 _____ Type: _____

The sample results from this submission will form part of a formal Record of Site Condition (RSC) under O.Reg. 153/04

Yes No

The optimal temperature conditions during transport should be less than 10°C. Sample(s) cannot be frozen, unless otherwise indicated or agreed upon with the Laboratory. Note that this COC is not to be used for drinking water samples. The COC must be complete upon submission of the samples, there will be a \$25 surcharge if required information is missing (required fields are shaded in grey).

| Sample ID | Date/Time Collected | Sample Details | | Sample Analysis Required | | | | | | | | | | | | | | | RN# (Lab Use Only) | | | | |
|--------------------|---------------------|----------------|-----------------|--------------------------|------|------|------|------|---------------------|-------------|---------------|--|--|--|--|--|--|--|--------------------|--|--|--|--|
| | | Sample Matrix | # of Containers | O.Reg.153 parameters | | | | | | | | | | | | | | | | | | | |
| Field Filtered --> | | | | PHC F1 - F4 | BTEX | VOCs | PAHs | PCBs | Metals + Inorganics | Metals only | OC-Pesticides | | | | | | | | | | | | |
| BH106 SS2D | 08/27/2021 | SOIL | 4 | | | | | | | ✓ | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
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| PRINT | SIGN | DATE/TIME | TEMP (°C) | COMMENTS: |
|--|------|--------------------|-----------|--|
| Sampled By: | | | | |
| Relinquished By: VC | | Sept. 9, 2021 | | |
| Received By: Viktor Gallant | W.B. | 09/09/21 4:00 p.m. | 13.6°C | |
| CUSTODY SEAL: <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | Ice packs submitted: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |



GeoPro Consulting Limited

Geotechnical-Hydrogeology-Environmental-Materials-Inspection

APPENDIX C



GeoPro Consulting Limited (Richmond Hill)
ATTN: Sarena Medina
40 Vogell Road
Unit 23
Richmond Hill ON L4B 3N6

Date Received: 09-SEP-21
Report Date: 16-SEP-21 11:44 (MT)
Version: FINAL

Client Phone: 905-237-8336

Certificate of Analysis

Lab Work Order #: L2637474
Project P.O. #: NOT SUBMITTED
Job Reference: 17-1780E8-1788
C of C Numbers:
Legal Site Desc:

Jennifer Barkshire-Paterson
Account Manager

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

ADDRESS: 95 West Beaver Creek Road, Unit 1, Richmond Hill, ON L4B 1H2 Canada | Phone: +1 905 881 9887 | Fax: +1 905 881 8062
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

Summary of Guideline Exceedances

| Guideline | | | | | | | |
|-----------|-----------|----------|---------|--------|-----------------|------|--|
| ALS ID | Client ID | Grouping | Analyte | Result | Guideline Limit | Unit | |

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

Sample Preparation - WASTE

| Lab ID | L2637474-1 | L2637474-2 | L2637474-3 | L2637474-4 |
|-------------|------------|------------|------------|------------|
| Sample Date | 27-AUG-21 | 27-AUG-21 | 27-AUG-21 | 27-AUG-21 |
| Sample ID | BH101 SS2 | BH103 SS3 | BH104 SS4 | BH106 SS4 |

| Analyte | Unit | Guide Limits | | | | | |
|------------|----------|--------------|----|------|------|------|------|
| | | #1 | #2 | | | | |
| Initial pH | pH units | - | - | 8.48 | 8.94 | 9.37 | 9.57 |
| Final pH | pH units | - | - | 5.00 | 5.15 | 5.72 | 5.82 |

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

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

Physical Tests - WASTE

| Analyte | Unit | Guide Limits | | Lab ID | Lab ID | Lab ID | Lab ID | |
|------------------------------|--------|--------------|----|--------------------|---------------|-------------------|---------------|-----------|
| | | #1 | #2 | L2637474-1 | L2637474-2 | L2637474-3 | L2637474-4 | |
| | | | | Sample Date | 27-AUG-21 | 27-AUG-21 | 27-AUG-21 | 27-AUG-21 |
| | | | | Sample ID | BH101 SS2 | BH103 SS3 | BH104 SS4 | BH106 SS4 |
| Air Velocity Of Fume Hood | m/sec | - | - | 0.22 | 0.22 | 0.22 | 0.22 | |
| Burning Rate | mm/sec | - | - | NA | NA | NA | NA | |
| Ignitability-Class | | - | - | NON-FLAMMABLE | NON-FLAMMABLE | NON-FLAMMABLE | NON-FLAMMABLE | |
| Samp Comment | | - | - | BROWN SOIL | BROWN SOIL | BROWN CLAYEY SOIL | BROWN SOIL | |
| Temperature Of Test Material | Deg. C | - | - | 21.0 | 21.0 | 21.0 | 21.0 | |
| Time To Ignition | sec | - | - | NA | NA | NA | NA | |

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

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



TCLP Extractables - WASTE

| Analyte | Unit | Guide Limits | | Lab ID | L2637474-1 | L2637474-2 | L2637474-3 | L2637474-4 |
|-----------------------------|------|--------------|----|-------------|------------|------------|------------|------------|
| | | #1 | #2 | Sample Date | 27-AUG-21 | 27-AUG-21 | 27-AUG-21 | 27-AUG-21 |
| | | | | Sample ID | BH101 SS2 | BH103 SS3 | BH104 SS4 | BH106 SS4 |
| Acenaphthene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Acenaphthylene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Anthracene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Aroclor 1242 | mg/L | - | - | <0.00020 | <0.00020 | <0.00020 | <0.00020 | <0.00020 |
| Aroclor 1248 | mg/L | - | - | <0.00020 | <0.00020 | <0.00020 | <0.00020 | <0.00020 |
| Aroclor 1254 | mg/L | - | - | <0.00020 | <0.00020 | <0.00020 | <0.00020 | <0.00020 |
| Aroclor 1260 | mg/L | - | - | <0.00020 | <0.00020 | <0.00020 | <0.00020 | <0.00020 |
| Benzo(a)anthracene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Benzo(a)pyrene | mg/L | 0.001 | - | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Benzo(b&j)fluoranthene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Benzo(g,h,i)perylene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Benzo(k)fluoranthene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Chrysene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Cyanide, Weak Acid Diss | mg/L | 20 | - | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Dibenz(a,h)anthracene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Fluoranthene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Fluorene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Fluoride (F) | mg/L | 150.0 | - | <10 | <10 | <10 | <10 | <10 |
| Indeno(1,2,3-cd)pyrene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Naphthalene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Nitrate and Nitrite as N | mg/L | 1000 | - | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| Nitrate-N | mg/L | - | - | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Nitrite-N | mg/L | - | - | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Total PCBs | mg/L | 0.3 | - | <0.00040 | <0.00040 | <0.00040 | <0.00040 | <0.00040 |
| Phenanthrene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Pyrene | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Surrogate: Chrysene d12 | % | - | - | 107.3 | 105.5 | 104.5 | 103.2 | |
| Surrogate: Naphthalene d8 | % | - | - | 100.1 | 100.2 | 99.8 | 101.2 | |
| Surrogate: Phenanthrene d10 | % | - | - | 95.5 | 92.8 | 92.3 | 96.0 | |
| Quinoline | mg/L | - | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |

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

TCLP Extractables - WASTE

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

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

TCLP Metals - WASTE

| Lab ID | L2637474-1 | L2637474-2 | L2637474-3 | L2637474-4 |
|-------------|------------|------------|------------|------------|
| Sample Date | 27-AUG-21 | 27-AUG-21 | 27-AUG-21 | 27-AUG-21 |
| Sample ID | BH101 SS2 | BH103 SS3 | BH104 SS4 | BH106 SS4 |

| Analyte | Unit | Guide Limits | | | | | |
|---------------|------|--------------|----|----------|----------|----------|----------|
| | | #1 | #2 | | | | |
| Arsenic (As) | mg/L | 2.5 | - | <0.050 | <0.050 | <0.050 | <0.050 |
| Barium (Ba) | mg/L | 100 | - | <0.50 | <0.50 | <0.50 | 0.63 |
| Boron (B) | mg/L | 500 | - | <2.5 | <2.5 | <2.5 | <2.5 |
| Cadmium (Cd) | mg/L | 0.5 | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Chromium (Cr) | mg/L | 5.0 | - | <0.050 | <0.050 | <0.050 | <0.050 |
| Lead (Pb) | mg/L | 5.0 | - | <0.025 | <0.025 | <0.025 | <0.025 |
| Mercury (Hg) | mg/L | 0.1 | - | <0.00010 | <0.00010 | <0.00010 | <0.00010 |
| Selenium (Se) | mg/L | 1.0 | - | <0.025 | <0.025 | <0.025 | <0.025 |
| Silver (Ag) | mg/L | 5.0 | - | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Uranium (U) | mg/L | 10 | - | <0.25 | <0.25 | <0.25 | <0.25 |

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

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

TCLP VOCs - WASTE

| Analyte | Unit | Guide Limits | | Lab ID | L2637474-1 | L2637474-2 | L2637474-3 | L2637474-4 |
|---------------------------------|------|--------------|----|-------------|------------|------------|------------|------------|
| | | #1 | #2 | Sample Date | 27-AUG-21 | 27-AUG-21 | 27-AUG-21 | 27-AUG-21 |
| | | | | Sample ID | BH101 SS2 | BH103 SS3 | BH104 SS4 | BH106 SS4 |
| 1,1-Dichloroethylene | mg/L | 1.4 | - | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| 1,2-Dichlorobenzene | mg/L | 20.0 | - | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| 1,2-Dichloroethane | mg/L | 0.5 | - | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| 1,4-Dichlorobenzene | mg/L | 0.5 | - | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Benzene | mg/L | 0.5 | - | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Carbon tetrachloride | mg/L | 0.5 | - | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Chlorobenzene | mg/L | 8 | - | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Chloroform | mg/L | 10 | - | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Dichloromethane | mg/L | 5.0 | - | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Methyl Ethyl Ketone | mg/L | 200.0 | - | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethylene | mg/L | 3 | - | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Trichloroethylene | mg/L | 5 | - | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Vinyl chloride | mg/L | 0.2 | - | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Surrogate: 4-Bromofluorobenzene | % | - | - | 101.4 | 103.1 | 102.8 | 102.2 | |

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

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

Volatile Organic Compounds - WASTE

| Lab ID | L2637474-1 | L2637474-2 | L2637474-3 | L2637474-4 |
|-------------|------------|------------|------------|------------|
| Sample Date | 27-AUG-21 | 27-AUG-21 | 27-AUG-21 | 27-AUG-21 |
| Sample ID | BH101 SS2 | BH103 SS3 | BH104 SS4 | BH106 SS4 |

| Analyte | Unit | Guide Limits | | | |
|--------------------------------|------|--------------|----|-------|-------|
| | | #1 | #2 | #3 | #4 |
| Surrogate: 1,4-Difluorobenzene | % | - | - | 101.9 | 102.0 |

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

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

Polychlorinated Biphenyls - WASTE

| Lab ID | L2637474-1 | L2637474-2 | L2637474-3 | L2637474-4 |
|-------------|------------|------------|------------|------------|
| Sample Date | 27-AUG-21 | 27-AUG-21 | 27-AUG-21 | 27-AUG-21 |
| Sample ID | BH101 SS2 | BH103 SS3 | BH104 SS4 | BH106 SS4 |

| Analyte | Unit | Guide Limits | | | | | |
|---------------------------------|------|--------------|----|------|-------|-------|------|
| | | #1 | #2 | | | | |
| Surrogate: Decachlorobiphenyl | % | - | - | 96.1 | 106.5 | 101.2 | 82.1 |
| Surrogate: Tetrachloro-m-xylene | % | - | - | 89.1 | 93.7 | 90.1 | 95.5 |

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

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

Reference Information

Methods Listed (if applicable):

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---|--------|----------------------------------|------------------------------|
| CN-TCLP-WT | Waste | Cyanide for O. Reg 347 | APHA 4500CN I |
| <p>This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.</p> | | | |
| F-TCLP-WT | Waste | Fluoride (F) for O. Reg 347 | EPA 300.1 |
| <p>This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from EPA 300.1 and is analyzed by Ion Chromatography with conductivity and/or UV detection.</p> | | | |
| HG-TCLP-WT | Waste | Mercury (CVAA) for O.Reg 347 | EPA 1631E |
| <p>This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fibre filter and analysed using atomic absorption spectrophotometry (EPA 1631E).</p> | | | |
| IGNITABILITY-WT | Waste | O. Reg 347 Ignitability | EPA SW846, Method 1030, 1996 |
| <p>Preliminary Screening Test: Prepare a sample "as received" 250 mm long by 20 mm wide by 10 mm high. Apply the tip of the flame to the end of the sample strip. If the sample is non-metallic, hold the flame tip on the sample until the sample ignites or for a maximum of 2 minutes. If combustion occurs, begin timing with a stop watch and note whether the sample propagates up to the 200 mm mark within the 2 minute test period. If the sample is metal or metal alloy powder, hold the flame tip on the sample until the sample ignites or for a maximum of 5 minutes. If combustion occurs, begin timing with a stop watch and note whether the sample propagates up to the 200 mm mark within the 20 minute test period. Note: If the waste propagates burning of 200 mm of the test strip within 2 minutes (20 minutes for metals), the material must be evaluated by the burning rate test. Burning Rate Test: Refer to section 7.2 of EPA Method 1030. Samples that have a burning rate of greater than 2.2 mm/s are considered to have a positive result for ignitability according to DOT regulations. For metallic samples, the burning rate must be greater than 0.17 mm/s.</p> | | | |
| LEACH-TCLP-WT | Waste | Leachate Procedure for Reg 347 | EPA 1311 |
| <p>Inorganic and Semi-Volatile Organic contaminants are leached from waste samples in strict accordance with US EPA Method 1311, "Toxicity Characteristic Leaching Procedure" (TCLP). Test results are reported in leachate concentration units (normally mg/L).</p> | | | |
| MET-TCLP-WT | Waste | O.Reg 347 TCLP Leachable Metals | EPA 6020B |
| <p>This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fibre filter. Instrumental analysis of the digested extract is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020B).</p> | | | |
| N2N3-TCLP-WT | Waste | Nitrate/Nitrite-N for O. Reg 347 | EPA 300.1 |
| <p>This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from EPA 300.1 and is analyzed by Ion Chromatography with conductivity and/or UV detection.</p> | | | |

Reference Information

Methods Listed (if applicable):

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---|--------|---------------------|--------------------|
| PAH-TCLP-WT | Waste | PAH for O. Reg 347 | SW846 8270 (PAH) |
| Samples are leached according to TCLP protocol and then the aqueous leachate is extracted and the resulting extracts are analyzed on GC/MSD. Depending on the analytical GC/MS column used benzo(j)fluoranthene may chromatographically co-elute with benzo(b)fluoranthene or benzo(k)fluoranthene. | | | |
| PCB-TCLP-WT | Waste | PCBs for O. Reg 347 | SW846 8270 |
| VOC-TCLP-WT | Waste | VOC for O. Reg 347 | SW846 8260 |
| A sample of waste is leached in a zero headspace extractor at 30–2 rpm for 18–2.0 hours with the appropriate leaching solution. After tumbling the leachate is analyzed directly by headspace technology, followed by GC/MS using internal standard quantitation. | | | |

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

Chain of Custody Numbers:

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

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

GLOSSARY OF REPORT TERMS

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

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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

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



Quality Control Report

Workorder: L2637474

Report Date: 16-SEP-21

Page 1 of 10

Client: GeoPro Consulting Limited (Richmond Hill)
40 Vogell Road Unit 23
Richmond Hill ON L4B 3N6

Contact: Sarena Medina

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|------------|--------------------|----------|-----------|-------|-----|--------|-----------|
| CN-TCLP-WT | | Waste | | | | | | |
| Batch R5583910 | | | | | | | | |
| WG3616444-3 | DUP | L2633348-2 | | | | | | |
| Cyanide, Weak Acid Diss | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| WG3616444-2 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 103.4 | | % | | 70-130 | 13-SEP-21 |
| WG3616444-1 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.10 | | mg/L | | 0.1 | 13-SEP-21 |
| WG3616444-4 | MS | L2633348-2 | | | | | | |
| Cyanide, Weak Acid Diss | | | 101.0 | | % | | 50-140 | 13-SEP-21 |
| F-TCLP-WT | | Waste | | | | | | |
| Batch R5583725 | | | | | | | | |
| WG3615993-3 | DUP | L2633348-2 | | | | | | |
| Fluoride (F) | | <10 | <10 | RPD-NA | mg/L | N/A | 30 | 13-SEP-21 |
| WG3615993-2 | LCS | | | | | | | |
| Fluoride (F) | | | 94.5 | | % | | 70-130 | 13-SEP-21 |
| WG3615993-1 | MB | | | | | | | |
| Fluoride (F) | | | <10 | | mg/L | | 10 | 13-SEP-21 |
| WG3615993-4 | MS | L2633348-2 | | | | | | |
| Fluoride (F) | | | 94.0 | | % | | 50-150 | 13-SEP-21 |
| HG-TCLP-WT | | Waste | | | | | | |
| Batch R5583273 | | | | | | | | |
| WG3616093-3 | DUP | L2637101-2 | | | | | | |
| Mercury (Hg) | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| WG3616093-2 | LCS | | | | | | | |
| Mercury (Hg) | | | 93.3 | | % | | 70-130 | 13-SEP-21 |
| WG3616093-1 | MB | | | | | | | |
| Mercury (Hg) | | | <0.00010 | | mg/L | | 0.0001 | 13-SEP-21 |
| WG3616093-4 | MS | L2637101-2 | | | | | | |
| Mercury (Hg) | | | 93.9 | | % | | 50-140 | 13-SEP-21 |
| MET-TCLP-WT | | Waste | | | | | | |
| Batch R5583562 | | | | | | | | |
| WG3615758-4 | DUP | WG3615758-3 | | | | | | |
| Silver (Ag) | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Arsenic (As) | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Boron (B) | | <2.5 | <2.5 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Barium (Ba) | | <0.50 | <0.50 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Cadmium (Cd) | | 0.0067 | 0.0069 | | mg/L | 3.6 | 50 | 13-SEP-21 |
| Chromium (Cr) | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |



Quality Control Report

Workorder: L2637474

Report Date: 16-SEP-21

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Client: GeoPro Consulting Limited (Richmond Hill)
40 Vogell Road Unit 23
Richmond Hill ON L4B 3N6

Contact: Sarena Medina

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| MET-TCLP-WT | | Waste | | | | | | |
| Batch | R5583562 | | | | | | | |
| WG3615758-4 | DUP | WG3615758-3 | | | | | | |
| Lead (Pb) | | <0.025 | <0.025 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Selenium (Se) | | <0.025 | <0.025 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Uranium (U) | | <0.25 | <0.25 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| WG3615758-2 | LCS | | | | | | | |
| Silver (Ag) | | | 100.4 | | % | | 70-130 | 13-SEP-21 |
| Arsenic (As) | | | 104.8 | | % | | 70-130 | 13-SEP-21 |
| Boron (B) | | | 94.3 | | % | | 70-130 | 13-SEP-21 |
| Barium (Ba) | | | 102.3 | | % | | 70-130 | 13-SEP-21 |
| Cadmium (Cd) | | | 101.6 | | % | | 70-130 | 13-SEP-21 |
| Chromium (Cr) | | | 101.9 | | % | | 70-130 | 13-SEP-21 |
| Lead (Pb) | | | 101.9 | | % | | 70-130 | 13-SEP-21 |
| Selenium (Se) | | | 104.2 | | % | | 70-130 | 13-SEP-21 |
| Uranium (U) | | | 104.9 | | % | | 70-130 | 13-SEP-21 |
| WG3615758-1 | MB | | | | | | | |
| Silver (Ag) | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Arsenic (As) | | | <0.050 | | mg/L | | 0.05 | 13-SEP-21 |
| Boron (B) | | | <2.5 | | mg/L | | 2.5 | 13-SEP-21 |
| Barium (Ba) | | | <0.50 | | mg/L | | 0.5 | 13-SEP-21 |
| Cadmium (Cd) | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Chromium (Cr) | | | <0.050 | | mg/L | | 0.05 | 13-SEP-21 |
| Lead (Pb) | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| Selenium (Se) | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| Uranium (U) | | | <0.25 | | mg/L | | 0.25 | 13-SEP-21 |
| WG3615758-5 | MS | WG3615758-3 | | | | | | |
| Silver (Ag) | | | 111.7 | | % | | 50-140 | 13-SEP-21 |
| Arsenic (As) | | | 105.8 | | % | | 50-140 | 13-SEP-21 |
| Boron (B) | | | 104.7 | | % | | 50-140 | 13-SEP-21 |
| Barium (Ba) | | | 106.4 | | % | | 50-140 | 13-SEP-21 |
| Cadmium (Cd) | | | 101.9 | | % | | 50-140 | 13-SEP-21 |
| Chromium (Cr) | | | 102.1 | | % | | 50-140 | 13-SEP-21 |
| Lead (Pb) | | | 102.5 | | % | | 50-140 | 13-SEP-21 |
| Selenium (Se) | | | 106.7 | | % | | 50-140 | 13-SEP-21 |
| Uranium (U) | | | 104.6 | | % | | 50-140 | 13-SEP-21 |
| N2N3-TCLP-WT | | Waste | | | | | | |



Quality Control Report

Workorder: L2637474

Report Date: 16-SEP-21

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Client: GeoPro Consulting Limited (Richmond Hill)
 40 Vogell Road Unit 23
 Richmond Hill ON L4B 3N6

Contact: Sarena Medina

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| N2N3-TCLP-WT | | Waste | | | | | | |
| Batch | R5583725 | | | | | | | |
| WG3615993-3 | DUP | L2633348-2 | | | | | | |
| Nitrate-N | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 25 | 13-SEP-21 |
| Nitrite-N | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 25 | 13-SEP-21 |
| WG3615993-2 | LCS | | | | | | | |
| Nitrate-N | | | 99.2 | | % | | 70-130 | 13-SEP-21 |
| Nitrite-N | | | 99.0 | | % | | 70-130 | 13-SEP-21 |
| WG3615993-1 | MB | | | | | | | |
| Nitrate-N | | | <2.0 | | mg/L | | 2 | 13-SEP-21 |
| Nitrite-N | | | <2.0 | | mg/L | | 2 | 13-SEP-21 |
| WG3615993-4 | MS | L2633348-2 | | | | | | |
| Nitrate-N | | | 101.2 | | % | | 50-150 | 13-SEP-21 |
| Nitrite-N | | | 100.9 | | % | | 50-150 | 13-SEP-21 |
| PAH-TCLP-WT | | Waste | | | | | | |
| Batch | R5583407 | | | | | | | |
| WG3615840-5 | DUP | WG3615840-3 | | | | | | |
| Acenaphthene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Acenaphthylene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Anthracene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Benzo(a)anthracene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Benzo(a)pyrene | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Benzo(b&j)fluoranthene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Benzo(g,h,i)perylene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Benzo(k)fluoranthene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Chrysene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Dibenz(a,h)anthracene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Fluoranthene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Fluorene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Indeno(1,2,3-cd)pyrene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Naphthalene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Phenanthrene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Pyrene | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Quinoline | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| WG3615840-2 | LCS | | | | | | | |
| Acenaphthene | | | 87.8 | | % | | 50-130 | 13-SEP-21 |
| Acenaphthylene | | | 87.8 | | % | | 50-130 | 13-SEP-21 |



Quality Control Report

Workorder: L2637474

Report Date: 16-SEP-21

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Client: GeoPro Consulting Limited (Richmond Hill)
 40 Vogell Road Unit 23
 Richmond Hill ON L4B 3N6

Contact: Sarena Medina

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------|---------|-----------|-------|-----|--------|-----------|
| PAH-TCLP-WT | | Waste | | | | | | |
| Batch | R5583407 | | | | | | | |
| WG3615840-2 | LCS | | | | | | | |
| Anthracene | | | 83.3 | | % | | 50-130 | 13-SEP-21 |
| Benzo(a)anthracene | | | 103.9 | | % | | 50-140 | 13-SEP-21 |
| Benzo(a)pyrene | | | 85.1 | | % | | 60-140 | 13-SEP-21 |
| Benzo(b&j)fluoranthene | | | 82.2 | | % | | 50-130 | 13-SEP-21 |
| Benzo(g,h,i)perylene | | | 83.8 | | % | | 50-140 | 13-SEP-21 |
| Benzo(k)fluoranthene | | | 89.8 | | % | | 50-150 | 13-SEP-21 |
| Chrysene | | | 106.2 | | % | | 50-140 | 13-SEP-21 |
| Dibenz(a,h)anthracene | | | 87.8 | | % | | 50-140 | 13-SEP-21 |
| Fluoranthene | | | 94.4 | | % | | 50-130 | 13-SEP-21 |
| Fluorene | | | 90.5 | | % | | 50-130 | 13-SEP-21 |
| Indeno(1,2,3-cd)pyrene | | | 88.6 | | % | | 50-140 | 13-SEP-21 |
| Naphthalene | | | 81.4 | | % | | 50-130 | 13-SEP-21 |
| Phenanthrene | | | 91.4 | | % | | 50-130 | 13-SEP-21 |
| Pyrene | | | 97.3 | | % | | 50-140 | 13-SEP-21 |
| Quinoline | | | 105.4 | | % | | 50-130 | 13-SEP-21 |
| WG3615840-1 | MB | | | | | | | |
| Acenaphthene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Acenaphthylene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Anthracene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Benzo(a)anthracene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Benzo(a)pyrene | | | <0.0010 | | mg/L | | 0.001 | 13-SEP-21 |
| Benzo(b&j)fluoranthene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Benzo(g,h,i)perylene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Benzo(k)fluoranthene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Chrysene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Dibenz(a,h)anthracene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Fluoranthene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Fluorene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Indeno(1,2,3-cd)pyrene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Naphthalene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Phenanthrene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Pyrene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Quinoline | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Surrogate: Naphthalene d8 | | | 105.9 | | % | | 50-130 | 13-SEP-21 |



Quality Control Report

Workorder: L2637474

Report Date: 16-SEP-21

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Client: GeoPro Consulting Limited (Richmond Hill)
 40 Vogell Road Unit 23
 Richmond Hill ON L4B 3N6

Contact: Sarena Medina

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| PAH-TCLP-WT | | | | | | | | |
| | Waste | | | | | | | |
| Batch | R5583407 | | | | | | | |
| WG3615840-1 | MB | | | | | | | |
| Surrogate: Phenanthrene d10 | | | 100.7 | | % | | 60-130 | 13-SEP-21 |
| Surrogate: Chrysene d12 | | | 112.9 | | % | | 60-130 | 13-SEP-21 |
| WG3615840-6 | MB | | | | | | | |
| Acenaphthene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Acenaphthylene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Anthracene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Benzo(a)anthracene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Benzo(a)pyrene | | | <0.0010 | | mg/L | | 0.001 | 13-SEP-21 |
| Benzo(b&j)fluoranthene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Benzo(g,h,i)perylene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Benzo(k)fluoranthene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Chrysene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Dibenz(a,h)anthracene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Fluoranthene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Fluorene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Indeno(1,2,3-cd)pyrene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Naphthalene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Phenanthrene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Pyrene | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Quinoline | | | <0.0050 | | mg/L | | 0.005 | 13-SEP-21 |
| Surrogate: Naphthalene d8 | | | 98.1 | | % | | 50-130 | 13-SEP-21 |
| Surrogate: Phenanthrene d10 | | | 92.8 | | % | | 60-130 | 13-SEP-21 |
| Surrogate: Chrysene d12 | | | 105.4 | | % | | 60-130 | 13-SEP-21 |
| WG3615840-4 | MS | WG3615840-3 | | | | | | |
| Acenaphthene | | | 87.3 | | % | | 50-140 | 13-SEP-21 |
| Acenaphthylene | | | 85.7 | | % | | 50-140 | 13-SEP-21 |
| Anthracene | | | 79.7 | | % | | 50-150 | 13-SEP-21 |
| Benzo(a)anthracene | | | 97.2 | | % | | 50-140 | 13-SEP-21 |
| Benzo(a)pyrene | | | 81.6 | | % | | 50-140 | 13-SEP-21 |
| Benzo(b&j)fluoranthene | | | 76.5 | | % | | 50-150 | 13-SEP-21 |
| Benzo(g,h,i)perylene | | | 94.0 | | % | | 50-140 | 13-SEP-21 |
| Benzo(k)fluoranthene | | | 86.7 | | % | | 50-150 | 13-SEP-21 |
| Chrysene | | | 102.3 | | % | | 50-140 | 13-SEP-21 |
| Dibenz(a,h)anthracene | | | 91.8 | | % | | 50-140 | 13-SEP-21 |



Quality Control Report

Workorder: L2637474

Report Date: 16-SEP-21

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Client: GeoPro Consulting Limited (Richmond Hill)
40 Vogell Road Unit 23
Richmond Hill ON L4B 3N6

Contact: Sarena Medina

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|-----------------|--------------------|----------|-----------|-------|-----|--------|-----------|
| PAH-TCLP-WT | | Waste | | | | | | |
| Batch | R5583407 | | | | | | | |
| WG3615840-4 | MS | WG3615840-3 | | | | | | |
| Fluoranthene | | | 90.9 | | % | | 50-140 | 13-SEP-21 |
| Fluorene | | | 88.5 | | % | | 50-140 | 13-SEP-21 |
| Indeno(1,2,3-cd)pyrene | | | 100.6 | | % | | 50-140 | 13-SEP-21 |
| Naphthalene | | | 80.7 | | % | | 50-140 | 13-SEP-21 |
| Phenanthrene | | | 87.8 | | % | | 50-150 | 13-SEP-21 |
| Pyrene | | | 92.9 | | % | | 50-150 | 13-SEP-21 |
| Quinoline | | | 104.4 | | % | | 50-150 | 13-SEP-21 |
| PCB-TCLP-WT | | Waste | | | | | | |
| Batch | R5583496 | | | | | | | |
| WG3615835-5 | DUP | WG3615835-3 | | | | | | |
| Aroclor 1242 | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Aroclor 1248 | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Aroclor 1254 | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| Aroclor 1260 | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 50 | 13-SEP-21 |
| WG3615835-2 | LCS | | | | | | | |
| Aroclor 1242 | | | 97.3 | | % | | 65-130 | 13-SEP-21 |
| Aroclor 1248 | | | 47.9 | LCS-L | % | | 65-130 | 13-SEP-21 |
| Aroclor 1254 | | | 97.0 | | % | | 65-130 | 13-SEP-21 |
| Aroclor 1260 | | | 111.1 | | % | | 65-130 | 13-SEP-21 |
| WG3615835-1 | MB | | | | | | | |
| Aroclor 1242 | | | <0.00020 | | mg/L | | 0.0002 | 13-SEP-21 |
| Aroclor 1248 | | | <0.00020 | | mg/L | | 0.0002 | 13-SEP-21 |
| Aroclor 1254 | | | <0.00020 | | mg/L | | 0.0002 | 13-SEP-21 |
| Aroclor 1260 | | | <0.00020 | | mg/L | | 0.0002 | 13-SEP-21 |
| Surrogate: Decachlorobiphenyl | | | 106.1 | | % | | 50-150 | 13-SEP-21 |
| Surrogate: Tetrachloro-m-xylene | | | 96.3 | | % | | 50-150 | 13-SEP-21 |
| WG3615835-6 | MB | | | | | | | |
| Aroclor 1242 | | | <0.00020 | | mg/L | | 0.0002 | 13-SEP-21 |
| Aroclor 1248 | | | <0.00020 | | mg/L | | 0.0002 | 13-SEP-21 |
| Aroclor 1254 | | | <0.00020 | | mg/L | | 0.0002 | 13-SEP-21 |
| Aroclor 1260 | | | <0.00020 | | mg/L | | 0.0002 | 13-SEP-21 |
| Surrogate: Decachlorobiphenyl | | | 108.1 | | % | | 50-150 | 13-SEP-21 |
| Surrogate: Tetrachloro-m-xylene | | | 82.3 | | % | | 50-150 | 13-SEP-21 |
| WG3615835-4 | MS | WG3615835-3 | | | | | | |



Quality Control Report

Workorder: L2637474

Report Date: 16-SEP-21

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Client: GeoPro Consulting Limited (Richmond Hill)
 40 Vogell Road Unit 23
 Richmond Hill ON L4B 3N6

Contact: Sarena Medina

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|-----------------|--------------------|----------|-----------|-------|-----|--------|-----------|
| PCB-TCLP-WT | | Waste | | | | | | |
| Batch | R5583496 | | | | | | | |
| WG3615835-4 | MS | WG3615835-3 | | | | | | |
| Aroclor 1242 | | | 103.2 | | % | | 50-150 | 13-SEP-21 |
| Aroclor 1254 | | | 98.6 | | % | | 50-150 | 13-SEP-21 |
| Aroclor 1260 | | | 114.2 | | % | | 50-150 | 13-SEP-21 |
| Batch | R5585185 | | | | | | | |
| WG3617496-5 | DUP | WG3617496-3 | | | | | | |
| Aroclor 1242 | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 50 | 16-SEP-21 |
| Aroclor 1248 | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 50 | 16-SEP-21 |
| Aroclor 1254 | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 50 | 16-SEP-21 |
| Aroclor 1260 | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 50 | 16-SEP-21 |
| WG3617496-2 | LCS | | | | | | | |
| Aroclor 1242 | | | 101.1 | | % | | 65-130 | 16-SEP-21 |
| Aroclor 1248 | | | 98.8 | | % | | 65-130 | 16-SEP-21 |
| Aroclor 1254 | | | 99.9 | | % | | 65-130 | 16-SEP-21 |
| Aroclor 1260 | | | 114.0 | | % | | 65-130 | 16-SEP-21 |
| WG3617496-1 | MB | | | | | | | |
| Aroclor 1242 | | | <0.00020 | | mg/L | | 0.0002 | 16-SEP-21 |
| Aroclor 1248 | | | <0.00020 | | mg/L | | 0.0002 | 16-SEP-21 |
| Aroclor 1254 | | | <0.00020 | | mg/L | | 0.0002 | 16-SEP-21 |
| Aroclor 1260 | | | <0.00020 | | mg/L | | 0.0002 | 16-SEP-21 |
| Surrogate: Decachlorobiphenyl | | | 92.7 | | % | | 50-150 | 16-SEP-21 |
| Surrogate: Tetrachloro-m-xylene | | | 95.3 | | % | | 50-150 | 16-SEP-21 |
| WG3617496-6 | MB | | | | | | | |
| Aroclor 1242 | | | <0.00020 | | mg/L | | 0.0002 | 16-SEP-21 |
| Aroclor 1248 | | | <0.00020 | | mg/L | | 0.0002 | 16-SEP-21 |
| Aroclor 1254 | | | <0.00020 | | mg/L | | 0.0002 | 16-SEP-21 |
| Aroclor 1260 | | | <0.00020 | | mg/L | | 0.0002 | 16-SEP-21 |
| Surrogate: Decachlorobiphenyl | | | 103.6 | | % | | 50-150 | 16-SEP-21 |
| Surrogate: Tetrachloro-m-xylene | | | 91.9 | | % | | 50-150 | 16-SEP-21 |
| WG3617496-4 | MS | WG3617496-3 | | | | | | |
| Aroclor 1242 | | | 103.2 | | % | | 50-150 | 16-SEP-21 |
| Aroclor 1254 | | | 99.9 | | % | | 50-150 | 16-SEP-21 |
| Aroclor 1260 | | | 114.4 | | % | | 50-150 | 16-SEP-21 |

VOC-TCLP-WT **Waste**



Quality Control Report

Workorder: L2637474

Report Date: 16-SEP-21

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Client: GeoPro Consulting Limited (Richmond Hill)
40 Vogell Road Unit 23
Richmond Hill ON L4B 3N6

Contact: Sarena Medina

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|-----------------|--------------|--------|-----------|-------|-----|--------|-----------|
| VOC-TCLP-WT | | Waste | | | | | | |
| Batch | R5583926 | | | | | | | |
| WG3615794-1 | LCS | | | | | | | |
| 1,1-Dichloroethylene | | | 94.4 | | % | | 70-130 | 13-SEP-21 |
| 1,2-Dichlorobenzene | | | 96.1 | | % | | 70-130 | 13-SEP-21 |
| 1,2-Dichloroethane | | | 86.7 | | % | | 70-130 | 13-SEP-21 |
| 1,4-Dichlorobenzene | | | 100.1 | | % | | 70-130 | 13-SEP-21 |
| Benzene | | | 90.6 | | % | | 70-130 | 13-SEP-21 |
| Carbon tetrachloride | | | 99.5 | | % | | 60-140 | 13-SEP-21 |
| Chlorobenzene | | | 96.4 | | % | | 70-130 | 13-SEP-21 |
| Chloroform | | | 93.3 | | % | | 70-130 | 13-SEP-21 |
| Dichloromethane | | | 84.0 | | % | | 70-130 | 13-SEP-21 |
| Methyl Ethyl Ketone | | | 78.1 | | % | | 50-150 | 13-SEP-21 |
| Tetrachloroethylene | | | 104.9 | | % | | 70-130 | 13-SEP-21 |
| Trichloroethylene | | | 96.8 | | % | | 70-130 | 13-SEP-21 |
| Vinyl chloride | | | 82.0 | | % | | 60-130 | 13-SEP-21 |
| WG3615794-2 | MB | | | | | | | |
| 1,1-Dichloroethylene | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| 1,2-Dichlorobenzene | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| 1,2-Dichloroethane | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| 1,4-Dichlorobenzene | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| Benzene | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| Carbon tetrachloride | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| Chlorobenzene | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| Chloroform | | | <0.10 | | mg/L | | 0.1 | 13-SEP-21 |
| Dichloromethane | | | <0.50 | | mg/L | | 0.5 | 13-SEP-21 |
| Methyl Ethyl Ketone | | | <1.0 | | mg/L | | 1 | 13-SEP-21 |
| Tetrachloroethylene | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| Trichloroethylene | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| Vinyl chloride | | | <0.050 | | mg/L | | 0.05 | 13-SEP-21 |
| Surrogate: 1,4-Difluorobenzene | | | 102.2 | | % | | 70-130 | 13-SEP-21 |
| Surrogate: 4-Bromofluorobenzene | | | 101.1 | | % | | 70-130 | 13-SEP-21 |
| WG3615794-4 | MB | | | | | | | |
| 1,1-Dichloroethylene | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| 1,2-Dichlorobenzene | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| 1,2-Dichloroethane | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| 1,4-Dichlorobenzene | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |



Quality Control Report

Workorder: L2637474

Report Date: 16-SEP-21

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Client: GeoPro Consulting Limited (Richmond Hill)
 40 Vogell Road Unit 23
 Richmond Hill ON L4B 3N6

Contact: Sarena Medina

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| VOC-TCLP-WT | | | | | | | | |
| | Waste | | | | | | | |
| Batch | R5583926 | | | | | | | |
| WG3615794-4 MB | | | | | | | | |
| Benzene | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| Carbon tetrachloride | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| Chlorobenzene | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| Chloroform | | | <0.10 | | mg/L | | 0.1 | 13-SEP-21 |
| Dichloromethane | | | <0.50 | | mg/L | | 0.5 | 13-SEP-21 |
| Methyl Ethyl Ketone | | | <1.0 | | mg/L | | 1 | 13-SEP-21 |
| Tetrachloroethylene | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| Trichloroethylene | | | <0.025 | | mg/L | | 0.025 | 13-SEP-21 |
| Vinyl chloride | | | <0.050 | | mg/L | | 0.05 | 13-SEP-21 |
| Surrogate: 1,4-Difluorobenzene | | | 102.1 | | % | | 70-130 | 13-SEP-21 |
| Surrogate: 4-Bromofluorobenzene | | | 103.2 | | % | | 70-130 | 13-SEP-21 |
| WG3615794-3 MS | | L2636040-1 | | | | | | |
| 1,1-Dichloroethylene | | | 95.4 | | % | | 50-140 | 15-SEP-21 |
| 1,2-Dichlorobenzene | | | 96.0 | | % | | 50-140 | 15-SEP-21 |
| 1,2-Dichloroethane | | | 86.4 | | % | | 50-140 | 15-SEP-21 |
| 1,4-Dichlorobenzene | | | 98.0 | | % | | 50-140 | 15-SEP-21 |
| Benzene | | | 90.5 | | % | | 50-140 | 15-SEP-21 |
| Carbon tetrachloride | | | 99.8 | | % | | 50-140 | 15-SEP-21 |
| Chlorobenzene | | | 94.8 | | % | | 50-140 | 15-SEP-21 |
| Chloroform | | | 93.2 | | % | | 50-140 | 15-SEP-21 |
| Dichloromethane | | | 84.7 | | % | | 50-140 | 15-SEP-21 |
| Methyl Ethyl Ketone | | | 71.1 | | % | | 50-140 | 15-SEP-21 |
| Tetrachloroethylene | | | 101.9 | | % | | 50-140 | 15-SEP-21 |
| Trichloroethylene | | | 95.0 | | % | | 50-140 | 15-SEP-21 |
| Vinyl chloride | | | 85.4 | | % | | 50-140 | 15-SEP-21 |

Quality Control Report

Workorder: L2637474

Report Date: 16-SEP-21

Client: GeoPro Consulting Limited (Richmond Hill)
40 Vogell Road Unit 23
Richmond Hill ON L4B 3N6

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Contact: Sarena Medina

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

Hold Time Exceedances:

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

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

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

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



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Chain of Custody (C



L2637474-COFC

COC Number: 17-7180E3-1788

Canada Tr

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| | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--------------------------|--------------------|---|--------------------------|-----------------|------------------------------|--|-------------|-------------------|-------------|------------------------|----------------------------------|-------------------------------------|-----|------|-----|-----------------|--|
| Report To Contact and company name below will appear on the final report | | Reports / Recipients | | | Turnaround Time (TAT) Requested | | | | AFFIX ALS BARCODE LABEL HERE (ALS use only) | | | | | | | | | | | |
| Company: | GeoPro Consulting Limited | Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL) | | | <input checked="" type="checkbox"/> Routine [R] if received by 3pm M-F - no surcharges apply | | | | | | | | | | | | | | | |
| Contact: | Elab elab@geoproconsulting.ca | Merge QC/QCI Reports with COA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | | | <input type="checkbox"/> 4 day [P4] if received by 3pm M-F - 25% rush surcharge minimum | | | | | | | | | | | | | | | |
| Phone: | (905) 237-8336 | <input checked="" type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked | | | <input type="checkbox"/> 3 day [P3] if received by 12pm M-F - 50% rush surcharge minimum | | | | | | | | | | | | | | | |
| Company address below will appear on the final report | | Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX | | | <input type="checkbox"/> 2 day [P2] if received by 12pm M-F - 100% rush surcharge minimum | | | | | | | | | | | | | | | |
| Street: | 40 Vogell Road, Unit 23 | Email 1 or Fax dylanx@geoproconsulting.ca | | | <input type="checkbox"/> *1 day [E] if received by 12pm M-F - 200% rush surcharge minimum | | | | | | | | | | | | | | | |
| City/Province: | Richmond Hill, ON | Email 2 elab@geoproconsulting.ca | | | *1 day only available for Inorganics, Metals, & VOC | | | | | | | | | | | | | | | |
| Postal Code: | L4B 3N6 | Email 3 viktorc@geoproconsulting.ca; kaiwen@geoprocons | | | * Same day [E2] unavailable for TCLP/SPLP | | | | | | | | | | | | | | | |
| Invoice To | Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | Invoice Recipients | | | Date and Time Required for all E&P TATs: | | | | | | | | | | | | | | | |
| | Copy of Invoice with Report <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX | | | For all tests with rush TATs requested, please contact your AM to confirm availability. | | | | | | | | | | | | | | | |
| Company: | | Email 1 or Fax dylanx@geoproconsulting.ca | | | Analysis Request | | | | | | | | | | | | | | | |
| Contact: | | Email 2 elab@geoproconsulting.ca | | | NUMBER OF CONTAINERS | mSPLP (E9003) | | | TCLP (EPA 1311) | | | MISC | SAMPLES ON HOLD | EXTENDED STORAGE REQUIRED | SUSPECTED HAZARD (see notes) | | | | | |
| Project Information | | Oil and Gas Required Fields (client use) | | | | METALS+INORGANICS | VOCs | OX | SVOCs | 1,4-Dioxane | Metals+Inorganics | VOCs | | | | PAH | PCBs | PHC | IGNITABILITY-WT | |
| ALS Account # / Quote #: | Q79168 | AFE/Cost Center: | PO# | | | | | | | | | | | | | | | | | |
| Job #: | 21-2902G01-1790 | Major/Minor Code: | Routing Code: | | | | | | | | | | | | | | | | | |
| PO / AFE: | | Requisitioner: | | | | | | | | | | | | | | | | | | |
| LSD: | | Location: | | | | | | | | | | | | | | | | | | |
| ALS Lab Work Order # (ALS use only): 226 74 | | ALS Contact: | | Sampler: | | | | | | | | | | | | | | | | |
| ALS Sample # (ALS use only) | Sample Identification and/or Coordinates (This description will appear on the report) | Date (dd-mmm-yy) | Time (hh:mm) | Sample Type | | | | | | | | | | | | | | | | |
| | BH101 SS2 | 27-Aug-21 | | SOIL/SOLID | 2 | | | | | R | R | R | R | | R | | | | | |
| | BH103 SS3 | 27-Aug-21 | | SOIL/SOLID | 2 | | | | | R | R | R | R | | R | | | | | |
| | BH104 SS4 | 27-Aug-21 | | SOIL/SOLID | 2 | | | | | R | R | R | R | | R | | | | | |
| | BH106 SS4 | 27-Aug-21 | | SOIL/SOLID | 2 | | | | | R | R | R | R | | R | | | | | |
| Limited Sample Size Authorization | | Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only) | | | SAMPLE RECEIPT DETAILS (ALS use only) | | | | | | | | | | | | | | | |
| If the sample provided contains less than the minimum required weight, the samples may be leached at a lower volume and qualified as Limited Sample Size: | | | | | Cooling Method: <input type="checkbox"/> NONE <input type="checkbox"/> ICE <input checked="" type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED | | | | | | | | | | | | | | | |
| <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | | Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | | | | | | | | | | | | |
| Minimum Sample Size: 1X250 mL - No Headspace | | | | | Cooler Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A Sample Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A | | | | | | | | | | | | | | | |
| | | | | | INITIAL COOLER TEMPERATURES °C | | | FINAL COOLER TEMPERATURES °C | | | | | | | | | | | | |
| | | | | | 20.7 | | | 20.6 | | | | | | | | | | | | |
| SHIPMENT RELEASE (client use) | | INITIAL SHIPMENT RECEPTION (ALS use only) | | | FINAL SHIPMENT RECEPTION (ALS use only) | | | | | | | | | | | | | | | |
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Refer to the Locations Tab for ALS Locations and Sampling Information

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions.

Reg. 406 mSPLP Metals scan includes: Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni,Se,Ag,Ti,U,V,Zn. Reg. 347/558 TCLP Metals+Inorganics includes: As,Ba,B,Cd,Cr,Pb,Se,Ag,U,Hg,Fluoride,CN (WAD),Nitrate+Nitrite as N

This report utilizes scientific principles, professional judgement and subjective interpretations. It has been prepared and is subject to the terms, conditions and limitations set out in our approved proposal prepared based on our understanding of the project.

The comments and recommendations given in this report are based on information obtained at the limited number of the test hole and test pit locations. The boundaries between the various strata as shown on the borehole logs are based on non-continuous sampling and represent an inferred transition between the various strata and their lateral continuation rather than a precise plane of geological change. Subsurface conditions and environmental conditions between and beyond the test holes and test pits may differ significantly from those encountered at the test hole and test pit locations.

The findings, comments and recommendations given in this report are based on information obtained by GeoPro at the sampling locations/depth expected to be representative of the area of investigation. It should be noted that the analytical results refer only to the sample analyzed which was obtained from specific sampling location and sampling depth, and the analytical results and soil/groundwater chemistry may vary between and beyond the location and depth of the sample taken. The findings in this report are limited to the environmental conditions on the Site at the time of investigation only.

Further, there can be no assurance that sampling techniques employed have necessarily disclosed all potential contaminants at the Site due, among other things and without limitation, to such factors as a practical and economic limitation on the number and location of samples, sample depth, drilling rig accessibility, lack of current definition of a particular material as hazardous, and the like. Moreover, in the event that GeoPro has been granted authorization to use data and/or information obtained from previous third party investigation reports prepared by other consultants we make no warranty as to its accuracy or completeness and understand it to be factual and correct. As such, GeoPro does not guarantee the accuracy of said data prepared by others.

The benchmark and elevations used in this report are primarily to establish relative elevation differences between the test hole and test pit locations and should not be used for other purposes, such as grading, excavating, planning, development, etc. The information provided in this report may not be sufficient to obtain approval for disposal of excess soil or materials generated during construction.

This report has been prepared for the exclusive use of the client and may not be relied upon by any third party without GeoPro's express written authorization. Unless otherwise agreed in writing by GeoPro Consulting Limited, it shall not be used to express or imply warranty as to any other purposes. No portion of this report shall be used as a separate entity, it is written to be read in its entirety.

The material in this report reflects our best judgment based on the information available to GeoPro Consulting Limited at the time of preparing this report. Any uses which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third party. GeoPro accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report unless we are specifically advised of and participate in such action, in which case our responsibility will be as agreed to at that time.

The recommendations given in this report are applicable only to the project carried out completely in accordance with the details stated in this report. Otherwise, our responsibility is limited to interpreting the factual information at the borehole or test pit locations.

Should any comments and recommendations provided in this report be made on any construction related issues, they are intended only for the guidance of the designers. The number of test holes and test pits may not be sufficient to determine all the factors that may affect construction activities, methods and costs. The contractors bidding on this project or undertaking the construction should, therefore, make their own interpretation of the factual information presented and make their own conclusions as to how the Site conditions may affect their work and determine the proper construction methods.