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## **A REPORT TO CEDAR CITY DEVELOPMENTS**

### **PHASE II ENVIRONMENTAL SITE ASSESSMENT CSA STANDARD**

### **DUE DILIGENCE FOR PROPERTY ACQUISITION**

**7505 AIRPORT ROAD EAST  
CITY OF HAMILTON**

**Reference No. 2302-E004-1**

**March 29, 2023**

### **DISTRIBUTION**

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## **EXECUTIVE SUMMARY**

Soil Engineers Ltd. (SEL) was retained by Cedar City Developments to carry out a Phase II Environmental Site Assessment (Phase II ESA) in accordance with the Canadian Standards Association (CSA) Standard for a property located at 7505 Airport Road East, in the City of Hamilton (hereinafter referred to as "the subject site").

The purpose of the Phase II ESA was to determine the soil quality at the subject site, as related to the environmental concerns identified in the SEL Phase I Environmental Site Assessment (Phase I ESA). The assessment was conducted in conformance with CSA Standard Z769-00 (reaffirmed in 2018).

The field work was performed at selected locations on the subject site. Soil samples were collected and submitted for chemical analyses in accordance with the Ministry of the Environment, Conservation and Parks (MECP) Table 8, Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition, for Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use (Table 8 Standards), as published in the "Soil, Ground Water and Sediment Standards for Use Under Part XV. 1 of the Environmental Protection Act" (EPA), April 15, 2011.

A review of the analytical test results of the soil and groundwater samples indicated the following soil exceedances for PHC parameters at fuel oil AST locations:

### **Soil Exceedances**

| Location                                                                                                                              | Sample ID        | Parameter | Result (µg/g) | Table 8 Standard (µg/g) |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------|---------------|-------------------------|
| TP1- Fuel oil AST area located to the west of barn in the north-western portion of the subject site                                   | TP1 (0-0.4 mbgs) | PHC F2    | 36            | 10                      |
|                                                                                                                                       |                  | PHC F3    | 320           | 240                     |
|                                                                                                                                       |                  | PHC F4    | 610           | 120                     |
| TP4- Four (4) fuel oil ASTs area located to the southwest of the north-eastern barns in the north-eastern portion of the subject site | TP4 (0-0.4 mbgs) | PHC F4    | 610           | 120                     |

The remaining parameters in the analytical test results of soil and groundwater samples at



the test locations meet the Table 8 Standards.

The extent of the contamination is not determined in this stage of the Phase II ESA. Based on the findings of the field investigation and the review of analytical results, additional testing and removal of the impacted soil along with the verification soil testing program is required at the locations of the TP1 and TP4 to bring the subject site into compliance with the Table 8 Standards.

Please note that the information supplied by this report and Previous Phase I ESA, and their format do not meet all the requirements as set out in the O. Reg. 153/04, as amended. Therefore, this report cannot be used in support of a filing of a Record of Site Condition (RSC) with the Environmental Site Registry (ESR) of the Ministry of the Environment, Conservation and Parks (MECP).

If there is intent to file an RSC, a Phase One and Phase Two ESA in accordance with all the requirements of the O. Reg. 153/04, as amended, must be completed prior for filing an RSC.

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## 1.0 **INTRODUCTION**

Soil Engineers Ltd. (SEL) was retained by Cedar City Developments to carry out a Phase II Environmental Site Assessment (Phase II ESA) in accordance with the Canadian Standards Association (CSA) Standard for a property located at 7505 Airport Road East, in the City of Hamilton (hereinafter referred to as “the subject site”).

The purpose of the Phase II ESA was to determine the soil quality at the subject site, as related to the environmental concerns identified in the SEL Phase I Environmental Site Assessment (Phase I ESA). The assessment was conducted in conformance with CSA Standard Z769-00 (reaffirmed in 2018).

### 1.1 **Site Description**

The subject site, as shown on the Site Location Plan, Drawing No.1, is located at 7505 Airport Road East, in the City of Hamilton. The Property Identification Number (PIN) is 17394-0075 (LT) and the legal description of the property is Part of Lot 9 Concession 5 Glanford, as in CD270916 and CD463868; except part 1 on 62R9672; except part 1 on 62R17908; except part 1 on 62R18286; S/T in 9038 Glan; part of Lot 10 Concession 5 Glanford as in CD299372; except part 1 on 62R13163; except part 1 on 62R17907; S/T HL253775., Glanbrook; subject to an easement in gross over part 5, Plan 62R20575 as in WE1216640; City of Hamilton.

The subject site is irregular in shape, encompassing an approximate area of 93.80 hectare (ha) (231.79 acres (ac)). At the time of the assessment, the subject site was comprised of a farmland with three (3) barns in the north-western and north-eastern portions of the subject site. The subject site is located within a residential and agricultural area in the City of Hamilton. The neighbouring properties consist of agricultural and residential properties to the north, east and west, and agricultural properties to the south of the subject site. The subject site is adjacent to a roadway (Airport Road East) to the north.

The ground surface on the subject site appears to be relatively flat with minor undulations,



and the grade at the subject site descends towards the east, northeast and southwest.

## 1.2 **Background**

SEL completed a Phase I ESA (conforms to CSA Standard) for the subject site (Reference No. 2302-E004-2, dated March 29, 2023). The following potential environmental concerns were identified during Phase I ESA. The Phase II ESA was conducted to address the following concerns identified in the Phase I ESA:

- Potential use of pesticides during agricultural activities including a historical orchard located in the north-eastern portion of the subject site.
- One (1) fuel oil above-ground storage tank (AST) is located to the west of barn in the north-western portion of the subject site.
- Two (2) abandoned fuel ASTs are located to the south of barn in the north-western portion of the subject site.
- One (1) waste oil AST is located inside the northern barn at the north-eastern portion of the subject site.
- Four (4) fuel oil ASTs are located to the southwest of the north-eastern barns in the north-eastern portion of the subject site.
- Operation and maintenance yard associated with waste generator including waste oil and light fuel is located adjacent to the northeast of the subject site.

## 1.3 **Objective**

The objective of the Phase II Environmental Site Assessment was to assess the soil and groundwater quality at the subject site, as related to the identified environmental concerns in the Phase I ESA (CSA Standards).

## 1.4 **Scope of Work**

This Phase II ESA was conducted in general conformance with the CSA Standard Z769-00 (reaffirmed in 2018). The scope of work for this assessment includes:



- Locate the underground and overhead utilities.
- Advance seven (7) boreholes (designated as BH/MW5, BH6, BH/MW7, BH/MW8, BH9, BH10 and BH11) to the depths ranging from 6.6 metres below the ground surface (mbgs) to 8.5 mbgs and conduct six (6) hand-dug test pits (designated as TP1 to TP6) to depth of 0.4 mbgs.
- Collect representative soil samples from the boreholes and test pits.
- Undertake field examination of the retrieved soil samples for visual and olfactory evidence of potential contamination.
- Undertake soil vapour measurements for the retrieved soil samples using a combustible gas detector (RKI Eagle) in methane elimination mode, calibrated with hexane and having a minimum detection level of 2 ppmv (parts per million by volume).
- Install monitoring wells in three (3) of the boreholes (e.g., BH/MW5, BH/MW7 and BH/MW8) for groundwater sampling and/or groundwater flow direction.
- Conduct groundwater monitoring, and collect groundwater samples for chemical testing
- Carry out analytical testing program on selected soil and groundwater samples, including quality assurance/quality control (QA/QC) samples for Petroleum Hydrocarbons (PHCs), Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs), Organochlorine Pesticides (OCs), Metals, Mercury (Hg), Chromium (Cr(VI), Cyanide (CN<sup>-</sup>) and/or pH parameters.
- Review analytical testing results of submitted soil and groundwater samples using applicable Site Condition Standards.
- Prepare a Phase II ESA report containing the findings of the field investigation and analytical results.



## 2.0 APPLICABLE SITE CONDITION STANDARDS

SEL has selected the applicable assessment standard from Ontario Regulation (O. Reg.) 153/04, as amended, made under the Environmental Protection Act (EPA) to assess the analytical data from the submitted soil and groundwater samples. The following information was used to select the appropriate criteria:

- The subject site is not considered to be environmentally sensitive based on the definition set forth in the Ontario Regulation (O. Reg.) 153/04, as amended, as the property is not within/adjacent/ part of an area of natural significance and analytical testing indicated the pH of tested soil samples is between 5 and 9 for surface samples, and 5 and 11 for subsurface samples.
- The subject site is not a shallow soil property, as the bedrock was not encountered within 2.0 mbgs during the investigation.
- Based on the information obtained from the Phase I ESA, there are records of water wells at the subject site and the neighbouring properties within the 250 m boundaries at the subject site.
- Watercourse tributaries are located in the north-eastern, eastern and south western portions of the subject site.
- Generic site condition standards are to be used in this assessment.
- The intended property use of the subject site is residential.
- No grain size analysis was performed on the soil samples retrieved at the subject site.

Based on the above information, the Ministry of the Environment, Conservation and Parks (MECP) Table 8, Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition, for Residential/ Parkland/Institutional/ Industrial/ Commercial/Community Property Use (Table 8 Standards), as published in the "Soil, Ground Water and Sediment Standards for Use Under Part XV. 1 of the Environmental Protection Act" (EPA), April 15, 2011 has been selected for evaluating the environmental conditions of the subject site.



### 3.0 **FIELD WORK**

The field work for this investigation was conducted on March 3 and 6, 2023, consisting of conducting seven (7) boreholes (designated as BH/MW5, BH6, BH/MW7, BH/MW8, BH9, BH10 and BH11) to the depths ranging from 6.6 mbgs to 8.5 mbgs and six (6) hand-dug test pits (designated as TP1 to TP6) to depth of 0.4 mbgs. The locations of the boreholes shown on Drawing No. 2 were advanced in the areas of the environmental concerns listed in the Section 1.2. The rationale for the selection of borehole locations is presented in the table below:

| Borehole ID                                 | RATIONALE FOR BOREHOLE/MONITORING WELL LOCATION                                                                                                                             |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BH6, BH7, BH8, BH9, BH10, BH11, TP5 and TP6 | Due to potential use of pesticides during agricultural activities including a historical orchard located in the north-eastern portion of the subject site.                  |
| TP1                                         | Due to presence of one (1) fuel oil AST located to the west of barn in the north-western portion of the subject site.                                                       |
| TP2                                         | Due to presence of two (2) abandoned fuel ASTs located to the south of barn in the north-western portion of the subject site.                                               |
| TP3                                         | Due to presence of one (1) waste oil AST located inside the northern barn at the north-eastern portion of the subject site.                                                 |
| TP4                                         | Due to presence of four (4) fuel oil ASTs located to the southwest of the north-eastern barns in the north-eastern portion of the subject site.                             |
| BH/MW5                                      | Due to presence of operation and maintenance yard associated with waste generator including waste oil and light fuel located adjacent to the northeast of the subject site. |

Prior to the field work, the underground utilities were located and marked out in the field by representatives of the major utility companies as per Ontario One Call program and a private locator (All Clear Locates).

#### 3.1 **Borehole Drilling and Soil Sampling**

The boreholes were advanced using a track-mounted Geoprobe drill rig, equipped with a direct push thin-walled shelly tube soil sampler, supplied by a drilling contractor, ACE Environmental Drilling Ltd. Soil samples from the boreholes were recovered at regular intervals, using steel rod casing into the ground. Soil samples from the test pits were recovered using a hand auger. The retrieved soil samples were examined for visual and olfactory evidence of potential contamination and for soil classification.



The sampling and decontamination procedures were conducted in accordance with the “Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario”, May 1996, revised December 1996, as amended by O. Reg. 511/09.

Drilling equipment such as drill rigs, augers, drill pipes and drilling rods were decontaminated prior to initial use, between borehole locations and at the completion of drilling activities. The drilling equipment was manually scrubbed with a brush using a phosphate-free solution and distilled water, and power washed to remove any adhered soils, foreign material and potential contaminants. In addition, all sampling equipment was decontaminated prior to each usage.

Soil samples from the boreholes were recovered at regular intervals, using direct push samplers. Prior to recovering a sample, the sampling equipment was brushed clean using a solution of phosphate-free detergent and distilled water, and each discrete sample was handled with new disposable gloves in order to avoid the risk of cross-contamination between the samples. In addition, all sub-sampling equipment were decontaminated prior to each usage.

Each soil sample was split with part of the sample sealed in a laboratory-prepared sampling container and stored in a cooler with ice, and the remainder of the sample sealed in a double sealable bag for soil vapour measurement and soil classification. A small amount of the soil sample was retrieved by a disposable ‘T’ shaped terracore sampler and the soil samples from the Terracore sampler were stored in methanol vials for F1 and VOCs analysis.

The subsoil conditions indicate a layer of topsoil at the ground surface underlain by strata of silty clay and/or silt at boreholes. Detailed descriptions of the encountered subsurface conditions are presented on the Borehole Logs provided in Appendix ‘A’.

Based on the soil vapour measurements and/or visual and olfactory observations, representative ‘worst case’ soil samples from the sampling locations to determine the maximum concentration were submitted to the laboratory for chemical analyses.



The headspace vapour concentrations were measured using a portable RKI Eagle 2 gas detector, TYPE 101 (Serial Number: E091011) set to include all organic gases with the exception of methane (methane elimination mode), and having a minimum detection level of 2 ppmv (parts per million by volume). Prior to taking the measurements, the instrument was calibrated to hexane standards for both ppm and lower explosive level (LEL) scales as per the instruction manual for the instrument. SEL field personnel are trained by the supplier for the proper calibration procedure. The instrument is calibrated or tuned up by the supplier (Pine Environmental Service Inc.) seasonally.

### 3.2 **Monitoring Well Installation and Groundwater Sampling**

A total of three (3) monitoring wells (designated as BH/MW5, BH/MW7 and BH/MW8) were installed at the subject site by a licenced well contractor, ACE Environmental Drilling Ltd. The monitoring wells were constructed using 50 millimeters (mm) diameter PVC screen and 3m in length. A PVC riser, capped at the top, was installed from the screen section above the top grade. A sand pack, consisting of clean silica sand, was placed around the screened zone with a bentonite seal placed above the sand pack. The top of each well was sealed with concrete to approximately 0.3 mbgs. At each monitoring well location, the PVC risers were protected by monument casings that have been sealed into ground with concrete. The monitoring well construction details are provided on the Borehole Logs in Appendix 'A'.

The monitoring wells installed at the subject site were instrumented with dedicated low-density polyethylene tubing to facilitate well development, purging and sampling requirements.

Groundwater development was performed on March 9, 2023. The monitoring wells were developed to remove any fluids that may have been introduced into the well during drilling and to remove particles that may have become entrained in the well and filter pack (three well casing volumes of groundwater in each well). Purged water was contained and stored at the subject site for future disposal. Water level measurements and water temperature were taken using a water level meter (Dipper-T) equipped with a thermometer.



Groundwater observations were recorded for colour, clarity, the presence or absence of any free product / surface sheen and any odours present during developing the wells. The water level measuring device was cleaned after each measurement using Alconox solution and water, followed by a distilled water rinse and a methanol rinse, in order to prevent cross-contamination between monitoring wells.

Groundwater sampling was conducted on March 10, 2023, after purging and allows the water to stabilize. The groundwater purging and sampling activities were carried out using dedicated low-density polyethylene tubing. Groundwater samples were collected into laboratory-supplied containers, prepared with preservative for the analysis being conducted. The samples scheduled for analysis of metals were passed through a 0.45 micron filter as part of the sampling process.



#### 4.0 **SUBSOIL AND GROUNDWATER CONDITION**

##### 4.1 **Geology**

The subsoil conditions at the borehole locations indicate that beneath a layer of topsoil, the subject site is generally underlain by silty clay and/or silt deposits, at various depths and locations. No bedrock was encountered during the Phase II ESA. Detailed descriptions of the encountered subsurface conditions are presented on the Borehole Logs provided in Appendix 'A'.

##### 4.2 **Hydrogeology**

Upon completion of drilling activities, groundwater was detected in the boreholes. On March 9, 2023 during groundwater monitoring and sampling event, water levels were recorded at depths of 3.56 mbgs, 3.18 mbgs and 3.75 mbgs in the monitoring wells BH/MW5, BH/MW7 and BH/MW8, respectively. Based on the field observation and groundwater monitoring records, shallow groundwater is present in the silty clay deposit.

##### 4.3 **Headspace and Organic Vapour Readings**

Headspace vapour screening was conducted for the retrieved soil samples using a combustible gas detector (RKI Eagle) in methane elimination mode, calibrated with hexane and having a minimum detection level of 2 ppmv (parts per million by volume). The instrument's calibration is checked by the supplier (Pine Environmental Services Inc.) seasonally.

Soil vapour readings of non-detectable to 10 ppm were recorded for collected soil samples, retrieved during this investigation.



## 5.0 ANALYTICAL TESTING PROGRAM

### 5.1 Soil Samples

The soil samples retrieved from the borehole locations were examined for visual and olfactory evidence of potential contamination. No evidence of contamination was documented in any of the retrieved soil samples during the field investigation.

Representative “worst case” soil sample from each borehole to determine the maximum concentration was selected based on the soil vapour measurements and visual and olfactory observations. The selected soil samples were submitted to the laboratory for chemical analyses of PHCs, VOCs, PAHs, OCs, Metals, Hg, Cr(VI), CN<sup>-</sup> and/or pH parameters. Details of soil analysis (including QA/QC sample) are presented in the table below:

| Sample ID | Sample Depth (mbgs) | Type of Material | Parameters of Testing                       |
|-----------|---------------------|------------------|---------------------------------------------|
| BH5/4     | 2.3-3.0             | Silty Clay       | PAHs, Metals                                |
| BH5/5     | 3.0-3.8             |                  | PHCs, VOCs                                  |
| BH6/1     | 0-0.8               |                  | OCs                                         |
| BH6/2     | 1.5-3.0             |                  | Metals, Hg, Cr(VI), CN <sup>-</sup> pH      |
| BH7/1     | 0-0.8               |                  | OCs                                         |
| BH7/2     | 0.8-1.5             |                  | Metals, Hg, Cr(VI), CN <sup>-</sup>         |
| BH7/4     | 2.3-3.0             |                  | pH                                          |
| BH8/1     | 0-0.8               |                  | OCs                                         |
| BH8/2     | 0.8-1.5             |                  | Metals, Hg, Cr(VI), CN <sup>-</sup>         |
| BH8/3     | 2.3-3.0             |                  | pH                                          |
| BH9/1     | 0-0.8               |                  | OCs                                         |
| BH9/2     | 0.8-1.5             |                  | Metals, Hg, Cr(VI), CN <sup>-</sup> pH      |
| BH10/1    | 0-0.8               |                  | OCs, Metals, Hg, Cr(VI), CN <sup>-</sup> pH |
| BH11/1    | 0-0.8               |                  | OCs                                         |
| BH11/2    | 0.8-1.5             |                  | Metals, Hg, Cr(VI), CN <sup>-</sup> pH      |
| TP1       | 0-0.4               |                  | PHCs, BTEX, Metals                          |
| TP2       | 0-0.4               |                  | PHCs, BTEX, Metals                          |



| Sample ID                                     | Sample Depth (mbgs) | Type of Material | Parameters of Testing                         |
|-----------------------------------------------|---------------------|------------------|-----------------------------------------------|
| TP3                                           | 0-0.4               | Silty Clay       | PHCs, VOCs, PAHs, Metals                      |
| TP4                                           | 0-0.4               |                  | PHCs, BTEX, Metals                            |
| TP5                                           | 0-0.4               |                  | OCs, Metals, Hg, Cr(VI), CN <sup>-</sup> , pH |
| TP6                                           | 0-0.4               |                  | OCs, Metals, Hg, Cr(VI), CN <sup>-</sup> , pH |
| DUPS1<br>(from original soil sample BH9/1)    | 0-0.8               |                  | OCs                                           |
| DUPS2<br>(from original soil sample BH11/2)   | 0.8-1.5             |                  | Metals, Hg, Cr(VI), CN <sup>-</sup> , pH      |
| DUPS3<br>(from original soil sample BH/MW5/5) | 3.0-3.8             |                  | PHCs, BTEX                                    |

## 5.2 Groundwater Samples

There was no visible sheen or odour in the groundwater during monitoring and purging program at the monitoring wells installed at the subject site.

Groundwater samples collected from one (1) monitoring well at the subject site were submitted to the laboratory for chemical analyses of Petroleum Hydrocarbons (PHCs), Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs) and Metals parameters. Details of groundwater analysis (including QA/QC sample) are presented in the table below:

| Sample ID                                          | Screen Interval (mbgs) | Parameters of Testing       |
|----------------------------------------------------|------------------------|-----------------------------|
| BH/MW5                                             | 3.1-6.1                | PHCs, VOCs, PAHs and Metals |
| DUPW1<br>(from original groundwater sample BH/MW5) | 3.1-6.1                | VOCs                        |
| Trip Blank                                         | -                      | VOCs                        |



## 6.0 **RESULTS OF CHEMICAL ANALYSIS**

The soil and groundwater samples were analysed by Bureau Veritas Laboratories (BV Labs) in Mississauga, Ontario. BV Labs is accredited by Canadian Association for Laboratory Accreditation (CALA) in accordance with ISO/IEC 17025:2005, as amended – “General Requirements for the Competence of Testing and Calibration Laboratories” for all the parameters analysed during this investigation. Copies of the laboratory Certificates of Analyses are enclosed in the Appendices ‘B’ and ‘C’.

Laboratory analytical methods, protocols and procedures were carried out in accordance with the “Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act”, dated March 9, 2004, amended.

The test results were reviewed using the Table 8, Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition, for Residential/ Parkland/Institutional/ Industrial/ Commercial/Community Property Use (Table 8 Standards), as published in the "Soil, Ground Water and Sediment Standards for Use Under Part XV. 1 of the Environmental Protection Act" (EPA), April 15, 2011.

### 6.1 **Soil Results**

A total of thirty-five (35) soil samples (including QA/QC samples) were submitted for analyses of PHCs, VOCs, PAHs, Metals, Hg, Cr (VI), CN<sup>-</sup>, and/or pH parameters. The certificate of Analyses for the soil samples are presented in Appendix ‘B’.

With the exception of the following exceedances for soil parameters, the test results indicate that the tested parameters for the soil samples at the test locations meet the Table 8 Standards:

| Location | Sample ID        | Parameter | Result (µg/g) | Table 8 Standard (µg/g) |
|----------|------------------|-----------|---------------|-------------------------|
| TP1      | TP1 (0-0.4 mbgs) | PHC F2    | 36            | 10                      |
|          |                  | PHC F3    | 320           | 240                     |
|          |                  | PHC F4    | 610           | 120                     |
| TP4      | TP4 (0-0.4 mbgs) | PHC F4    | 610           | 120                     |



The soil exceedance locations are presented on Drawing No. 3.

## 6.2 **Groundwater Results**

A total of six (6) groundwater samples (including QA/QC sample) were submitted for analysis of Petroleum Hydrocarbons (PHCs), Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs) and Metals parameters. The certificate of Analyses for the groundwater samples are presented in Appendix 'C'.

The test results indicate that the tested parameters in the groundwater samples at the test locations meet the Table 8 Standards.

## 6.3 **Quality Assurance/Quality Control Results**

As part of the QA/QC program for the Phase II ESA, QC samples in the form of field duplicate samples were analysed. Field duplicate samples were collected in the field for the analyses of PHCs, BTEX, OCs, Metals Hg, Cr(VI), CN<sup>-</sup> and pH in soil and VOCs in groundwater. One (1) trip blank for VOCs was shipped with the batch of the groundwater samples submitted for the analyses. Details of the QC samples are presented in the Section 5 of this report.

The results of the analyses of the field duplicate samples are similar to the results for the original samples, and relative percent differences (RPDs) for the detectable tested parameters are within acceptable range. The Certificates of Analysis for the QC sample are presented in Appendixes 'B' and 'C'.



## 7.0 **SUMMARY**

The objective of this investigation was to assess the soil and groundwater quality at the subject site. The Phase II ESA addressed the following potential environmental concerns, in accordance with the CSA Standard Z768-01 for the subject site.

- Potential use of pesticides during agricultural activities including a historical orchard located in the north-eastern portion of the subject site.
- One (1) fuel oil AST is located to the west of barn in the north-western portion of the subject site.
- Two (2) abandoned fuel ASTs are located to the south of barn in the north-western portion of the subject site.
- One (1) waste oil AST is located inside the northern barn at the north-eastern portion of the subject site.
- Four (4) fuel oil ASTs are located to the southwest of the north-eastern barns in the north-eastern portion of the subject site.
- Operation and maintenance yard associated with waste generator including waste oil and light fuel is located adjacent to the northeast of the subject site.

The findings of the field investigation and analytical results are summarized below:

- The field investigation consisted of advancing seven (7) boreholes to the depths ranging from 6.6 metres below the ground surface (mbgs) to 8.5 mbgs and six (6) hand-dug test pits to depth of 0.4 mbgs at the subject site.
- The subsoil conditions at the borehole locations indicate that beneath a layer of topsoil at the surface underlain by silty clay and/or silt at all borehole locations.
- The soil samples retrieved from the boreholes were examined for visual and olfactory evidence of potential contamination. No evidence of contamination was documented in any of the retrieved soil samples during the field investigation.
- Headspace vapour screening was conducted for all retrieved soil samples using a combustible gas detector (RKI Eagle) in methane elimination mode, calibrated with hexane and having a minimum detection level of 2 parts per million by volume



(ppmv). Soil vapour readings of non-detectable to 10 ppm were recorded for collected soil samples during this investigation.

- Based on the soil vapour measurements and/or visual and olfactory observations, representative “worst case” soil samples to determine the maximum concentration were selected from each borehole for chemical analyses of Petroleum Hydrocarbons (PHCs), Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs), Organochlorine Pesticides (OCs), Metals, Hg, Cr (VI), CN<sup>-</sup>, and/or pH parameters.
- Groundwater samples collected from the monitoring well were submitted for analysis of Petroleum Hydrocarbons (PHCs), Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs) and Metals parameters.
- As part of the QA/QC program for the investigation, QC sample in the form of field duplicate samples were analysed. Field duplicate samples were collected in the field for the analyses of PHCs, BTEX, OCs, Metals Hg, Cr (VI), CN<sup>-</sup> and pH in soil and VOCs in groundwater.
- The overall QA/QC results are considered reliable.
- The analytical test results were reviewed using the Ministry of the Environment, Conservation and Parks (MECP) Table 8, Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition, for Residential/ Parkland/Institutional/ Industrial/ Commercial/Community Property Use (Table 8 Standards), as published in the "Soil, Ground Water and Sediment Standards for Use Under Part XV. 1 of the Environmental Protection Act" (EPA), April 15, 2011.
- A review of the analytical test results of the soil and groundwater samples indicated the following soil exceedances for PHC parameters at fuel oil AST locations:

#### Soil Exceedances

| Location                                                                                                                              | Sample ID        | Parameter | Result (µg/g) | Table 8 Standard (µg/g) |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------|---------------|-------------------------|
| TP1- Fuel oil AST area located to the west of barn in the north-western portion of the subject site                                   | TP1 (0-0.4 mbgs) | PHC F2    | 36            | 10                      |
|                                                                                                                                       |                  | PHC F3    | 320           | 240                     |
|                                                                                                                                       |                  | PHC F4    | 610           | 120                     |
| TP4- Four (4) fuel oil ASTs area located to the southwest of the north-eastern barns in the north-eastern portion of the subject site | TP4 (0-0.4 mbgs) | PHC F4    | 610           | 120                     |



- The remaining parameters in the analytical test results of soil and groundwater samples at the test locations meet the Table 8 Standards.
- The results of the analysis of the duplicate samples are similar to the results for the original samples, and RPDs for the detectable tested parameters are within acceptable range or non-calculable.
- The results of the analysis of the trip blank sample indicate that the tested parameters in the sample were below the reported laboratory detection limits (RDLs). There was no issue with the trip blank that was shipped with the batch of the groundwater samples submitted for analysis.



## 8.0 CONCLUSION AND RECOMMENDATION

A review of the analytical test results of soil and groundwater samples indicates the following exceedances in soil above Table 8 Standards:

- PHC F2-F4 impacted soil from the ground surface to a depth of 0.4 mbgs at the location of TP1.
- PHC F4 impacted soil from the ground surface to a depth of 0.4 mbgs at the location of TP4.

The remaining parameters in the analytical test results of soil and groundwater samples at the test locations meet the Table 8 Standards.

The extent of the contamination is not determined in this stage of the Phase II ESA. Based on the findings of the field investigation and the review of analytical results, additional testing and removal of the impacted soil along with the verification soil testing program is required at the locations of the TP1 and TP4 to bring the subject site into compliance with the Table 8 Standards.

Please note that the information supplied by this report and Previous Phase I ESA, and their format do not meet all the requirements as set out in the O. Reg. 153/04, as amended. Therefore, this report cannot be used in support of a filing of a Record of Site Condition (RSC) with the Environmental Site Registry (ESR) of the Ministry of the Environment, Conservation and Parks (MECP).

If there is an intent to file an RSC, a Phase One and Phase Two ESA in accordance with all the requirements of the O. Reg. 153/04, as amended, must be completed prior for filing an RSC.



## 9.0 QUALIFICATIONS

Soil Engineers Ltd., formerly known as Soil-Eng Limited (founded in 1976), offers to its clients a range of specialized engineering services. Our company is staffed with both engineers and scientists who draw upon their combined experience to provide a team approach to problem solving. Specifically, our environmental division employs more than 20 people who are trained to understand the Ministry of Environment, Conservation and Parks (MECP) regulations. We play an integral role in the development of industrial, commercial, institutional and residential subdivisions, complexes, structures and their related infrastructures, by providing our clients with the needed expertise for their projects.

This report and its assessment were prepared by Mr. Ram Sah. He has a Master of Applied Science (M.A.Sc.) Degree in Environmental Engineering from Ryerson University (Toronto). He is licensed to practice in Ontario (PEO Licence 100070941). He has more than 17 years of experience in conducting Phase I/One and Phase II/Two ESAs and site remediation (soil and groundwater) in Canada.

Mr. Raj Kundu is a Senior Environmental Project Manager of Soil Engineers Ltd. He has a Bachelor's Degree in Civil Engineering. He also has a Master's Degree in Environmental Engineering from National University of Singapore. Raj is licensed to practice professional engineering in Ontario (PEO Licence 100061263). He has more than 21 years of experience in environmental site assessments, remediation, ecological and human risk assessments, air emissions and water and wastewater consulting. Raj is involved in the review of this report.

Mr. Arshad Shaikh is a Project Manager in Environmental Department of Soil Engineers Ltd. He has a Bachelor Degree in Civil Engineering from NED University (in Pakistan) and a Master Degree in Water Resources Engineering and Management from the University of Stuttgart, Germany. He is Registered Professional Engineer and License to practice in Ontario (PEO License 100196680). He has more than 13 years of experience in conducting Environmental Site assessments (ESA), remediation, site decommissioning in Ontario. He supervises ESA work and review ESA reports and involved reviewing this report.



One must understand that the mandate of Soil Engineers Ltd. is to collect a finite number of soil and groundwater samples and submit representative samples to chemically characterize the contaminants in the subject site for a Phase II Environmental Site Assessment only. No other warranty or representation, expressed or implied, as to the accuracy of the information is included or intended by this assessment. One must be aware that the subsurface conditions may vary between sampling locations.

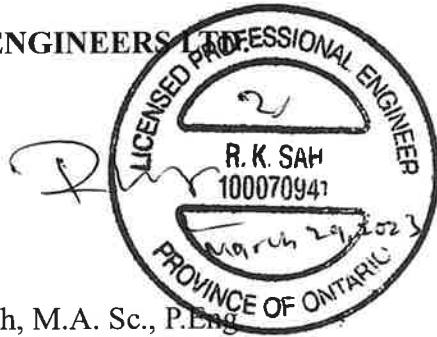
Any deleterious debris found on the surface or buried on site must be removed and disposed of properly. It should be noted that the information supplied in this report may not be sufficient to obtain approval for the disposal of any excess soil or materials generated during future construction, and supplementary chemical testing of samples may be necessary to obtain such approval.

This report was prepared by Soil Engineers Ltd. for the account of Cedar City Developments and for review by their designated agents, financial institutions and government agencies. Use of the report is subject to the conditions and limitations of the contractual agreement. The material in it reflects the judgement of Ram Sah, M.A.Sc., P.Eng., Raj Kundu, M.Sc., P.Eng. and Arshad Shaikh, M.Sc, P.Eng., QP<sub>ESA</sub> in light of the information available at the time of preparation. Any use which a Third Party makes of this report, and/or any reliance on decisions to be made based on it, is the responsibility of such Third Parties. Soil Engineers Ltd. accepts no responsibility for damages, if any, suffered by any Third Party as a result of decisions made or actions based on this report.



Should any further adverse environmental conditions become apparent in the future, we request immediate notification in order to provide further assessment and recommendations.

SOIL ENGINEERS LTD.



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Raj Kundu, M.Sc., P.Eng.



Arshad Shaikh, P.Eng., QP<sub>ESA</sub>  
RS/RK/AS:rs



# ***Soil Engineers Ltd.***

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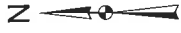
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FAX: (905) 881-8335

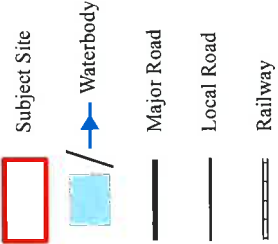
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## **FIGURES**

**REFERENCE NO. 2302-E004-1**







**Soil Engineers Ltd.**

Title: Site Location Plan

Project:  
Proposed Residential Development  
7505 Airport Road East  
City of Hamilton

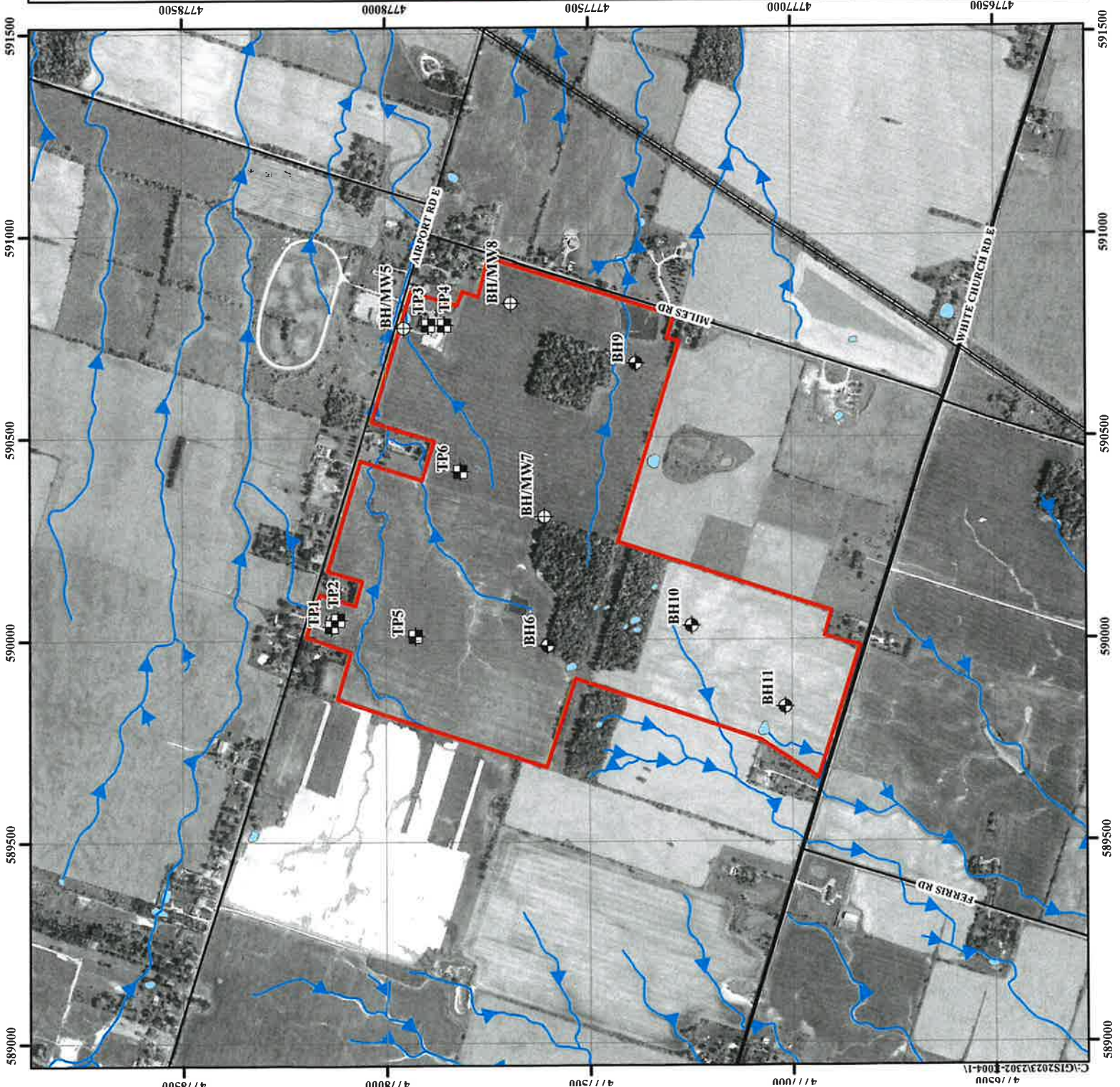
Reference No. 2302-E004-1

Date: March 20, 2023

Scale:  
0 87.5 175 350 525 700 875  
Metres

Drawing No. 1





- Subject Site
- Borehole
- Borehole with Monitoring Well
- Test Pit
- Waterbody
- Major Road
- Local Road
- Railway

**Soil Engineers Ltd.**

Title: Sampling Location Plan

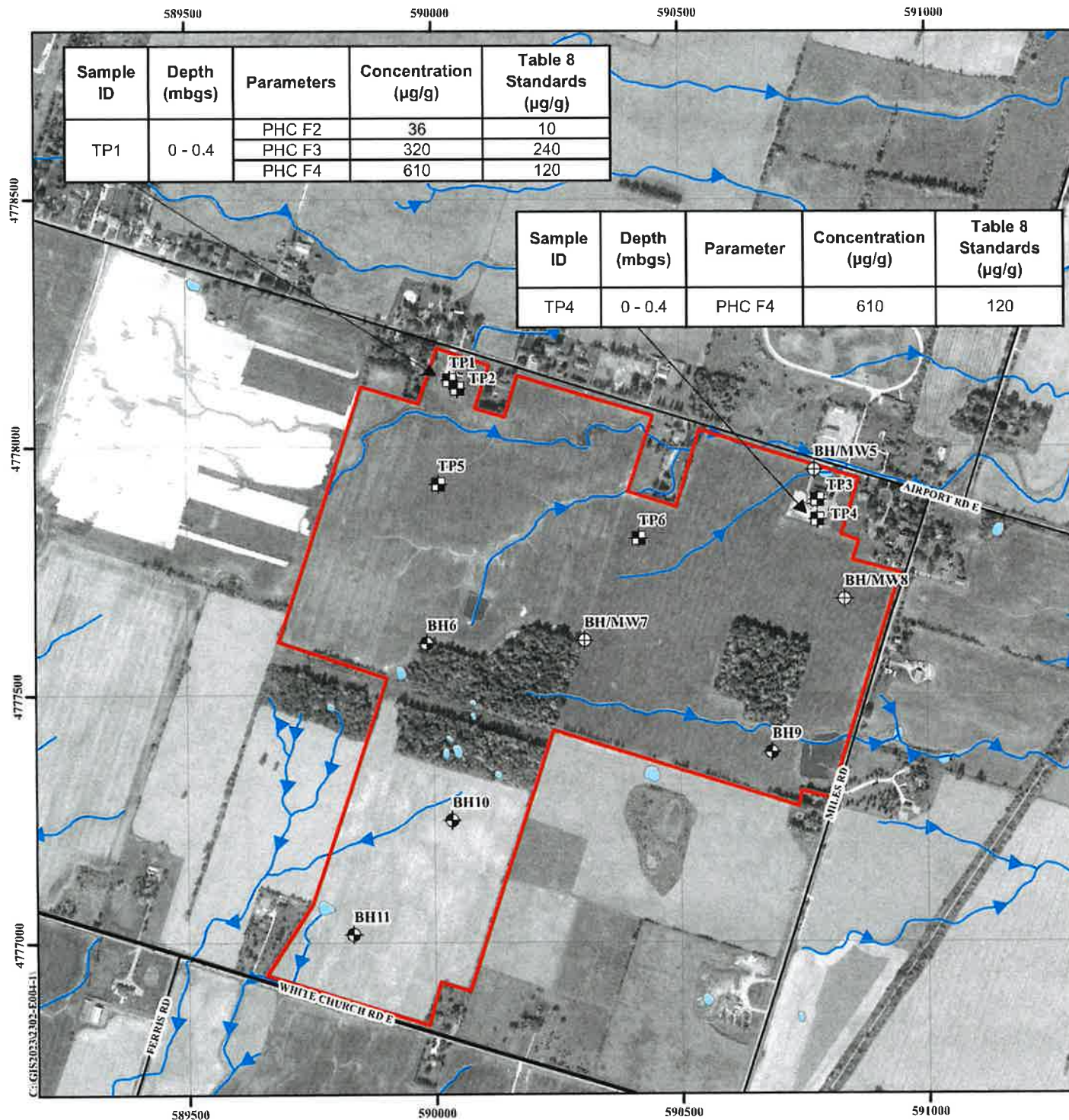
Project:  
Proposed Residential Development  
7505 Airport Road East  
City of Hamilton

Reference No. 2302-E004-1

Date: March 20, 2023

Scale:  
0 70 140 280 420 560 700  
Metres

Drawing No. 2



| Sample ID | Depth (mbgs) | Parameters | Concentration (µg/g) | Table 8 Standards (µg/g) |
|-----------|--------------|------------|----------------------|--------------------------|
| TP1       | 0 - 0.4      | PHC F2     | 36                   | 10                       |
|           |              | PHC F3     | 320                  | 240                      |
|           |              | PHC F4     | 610                  | 120                      |

| Sample ID | Depth (mbgs) | Parameter | Concentration (µg/g) | Table 8 Standards (µg/g) |
|-----------|--------------|-----------|----------------------|--------------------------|
| TP4       | 0 - 0.4      | PHC F4    | 610                  | 120                      |



N

Subject Site



Borehole



Borehole with Monitoring Well



Test Pit



Waterbody



Major Road



Local Road



**Soil Engineers Ltd.**

Title: Soil Exceedance Plan

Project:  
Proposed Residential Development  
7505 Airport Road East  
City of Hamilton

Reference No. 2302-E004-1

Date: February 13, 2023

Scale:  
0 55 110 220 330 440 550  
Metres

Drawing No. 3

Source: Ontario Ministry of Natural Resources and Forestry  
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## **APPENDIX 'A'**

### **BOREHOLE LOGS**

**REFERENCE NO. 2302-E004-1**

JOB NO.: 2302-E004-1

**LOG OF BOREHOLE NO.: 5**

FIGURE NO.: 1

**PROJECT DESCRIPTION:** Proposed Residential Development**METHOD OF BORING:** Geoprobe**PROJECT LOCATION:** 7505 Airport Road East  
City of Hamilton**DRILLING DATE:** March 6, 2023

| El.<br>(masl)<br><br>Depth<br>(mbgs) | SOIL<br>DESCRIPTION                                                                                                                                                                                                              | SAMPLES |      |                                           | Depth Scale (mbgs) | Combustible<br>Headspace<br>Reading (ppm) | REMARKS                                 | WATER LEVEL |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-------------------------------------------|--------------------|-------------------------------------------|-----------------------------------------|-------------|
|                                      |                                                                                                                                                                                                                                  | Number  | Type | Combustible<br>Headspace<br>Reading (ppm) |                    |                                           |                                         |             |
| 225.3                                | Ground Surface                                                                                                                                                                                                                   |         |      |                                           |                    |                                           |                                         |             |
| 0.0                                  | 10 cm TOPSOIL                                                                                                                                                                                                                    |         |      |                                           | 0                  |                                           |                                         |             |
| 0.1                                  | Brown to grey<br>SILTY CLAY                                                                                                                                                                                                      | 1       | TO   | 5                                         | 0                  |                                           |                                         |             |
|                                      | — — — weathered                                                                                                                                                                                                                  | 2       | TO   | 5                                         | 1                  |                                           |                                         |             |
|                                      |                                                                                                                                                                                                                                  | 3       | TO   | 5                                         | 2                  |                                           |                                         |             |
|                                      |                                                                                                                                                                                                                                  | 4       | TO   | 10                                        | 3                  |                                           | BH5/4: PAHs, Metals                     |             |
|                                      |                                                                                                                                                                                                                                  | 5       | TO   | 10                                        | 4                  |                                           | BH5/5: PHCs, VOCs,<br>DUPS3: PHCs, BTEX |             |
|                                      | — — — brown<br>grey                                                                                                                                                                                                              | 6       | TO   | 0                                         | 5                  |                                           |                                         |             |
|                                      |                                                                                                                                                                                                                                  | 7       | TO   | 0                                         | 6                  |                                           |                                         |             |
|                                      |                                                                                                                                                                                                                                  | 8       | TO   | 0                                         | 7                  |                                           |                                         |             |
|                                      |                                                                                                                                                                                                                                  | 9       | TO   | 0                                         | 8                  |                                           |                                         |             |
|                                      |                                                                                                                                                                                                                                  | 10      | TO   | 0                                         | 9                  |                                           |                                         |             |
|                                      |                                                                                                                                                                                                                                  | 11      | TO   | 0                                         | 10                 |                                           |                                         |             |
| 8.5                                  | END OF BOREHOLE<br>Installed 51mm standpipe @ 8.5m<br>Concrete from 0.0 to 0.3<br>Bentonite seal from 0.3m to 4.9m<br>Sand backfill from 4.9m to 8.5m<br>3m screen from 5.5m to 8.5m<br>Provided with monument protective casing |         |      |                                           |                    |                                           |                                         |             |

**Soil Engineers Ltd.**

W.L. @ 3.56 mbgs on March 9, 2023

JOB NO.: 2302-E004-1

**LOG OF BOREHOLE NO.: 6**

FIGURE NO.: 2

**PROJECT DESCRIPTION:** Proposed Residential Development**METHOD OF BORING:** Geoprobe**PROJECT LOCATION:** 7505 Airport Road East  
City of Hamilton**DRILLING DATE:** March 3, 2023

| El.<br>(masl)<br><br>Depth<br>(mbgs) | SOIL<br>DESCRIPTION            | SAMPLES |      |                                           | Depth Scale (mbgs) | Combustible<br>Headspace<br>Reading (ppm) | REMARKS                                   | WATER LEVEL |
|--------------------------------------|--------------------------------|---------|------|-------------------------------------------|--------------------|-------------------------------------------|-------------------------------------------|-------------|
|                                      |                                | Number  | Type | Combustible<br>Headspace<br>Reading (ppm) |                    |                                           |                                           |             |
| 228.1                                | Ground Surface                 |         |      |                                           | 0                  |                                           |                                           |             |
| 0.0                                  | <b>8 cm TOPSOIL</b>            |         |      |                                           |                    |                                           |                                           |             |
| 0.1                                  | Brown, Very soft to very stiff | 1       | TO   | 10                                        |                    |                                           | BH6/1: OCs                                |             |
|                                      | <b>SILTY CLAY</b>              |         |      |                                           |                    |                                           |                                           |             |
|                                      | ----- weathered                | 2       | TO   | 5                                         | 1                  |                                           | BH6/2: Metals, Hg,<br>Cr(VI), Cyanide, pH |             |
|                                      |                                | 3       | TO   | 5                                         | 2                  |                                           |                                           |             |
|                                      |                                | 4       | TO   | 0                                         | 3                  |                                           |                                           |             |
|                                      |                                | 5       | TO   | 0                                         | 4                  |                                           |                                           |             |
|                                      | ----- brown<br>grey            | 6       | TO   | 0                                         | 5                  |                                           |                                           |             |
|                                      |                                | 7       | TO   | 0                                         | 6                  |                                           |                                           |             |
|                                      |                                | 8       | TO   | 0                                         | 7                  |                                           |                                           |             |
|                                      |                                | 9       | TO   | 0                                         | 8                  |                                           |                                           |             |
| 221.5                                | END OF BOREHOLE                |         |      |                                           |                    |                                           |                                           |             |
| 6.6                                  |                                |         |      |                                           |                    |                                           |                                           |             |

**Soil Engineers Ltd.**

JOB NO.: 2302-E004-1

**LOG OF BOREHOLE NO.: 7**

FIGURE NO.: 3

**PROJECT DESCRIPTION:** Proposed Residential Development**METHOD OF BORING:** Geoprobe**PROJECT LOCATION:** 7505 Airport Road East  
City of Hamilton**DRILLING DATE:** March 3, 2023

| El.<br>(masl)<br>Depth<br>(mbgs) | SOIL<br>DESCRIPTION                                                                                                                                                                                           | SAMPLES |      |                                           | Depth Scale (mbgs) | Combustible<br>Headspace<br>Reading (ppm) | REMARKS                               | WATER LEVEL |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-------------------------------------------|--------------------|-------------------------------------------|---------------------------------------|-------------|
|                                  |                                                                                                                                                                                                               | Number  | Type | Combustible<br>Headspace<br>Reading (ppm) |                    |                                           |                                       |             |
| 227.1                            | Ground Surface                                                                                                                                                                                                |         |      |                                           | 0                  |                                           |                                       |             |
| 0.0                              | <b>5 cm TOPSOIL</b>                                                                                                                                                                                           |         |      |                                           |                    |                                           |                                       |             |
| 0.1                              | Brown to grey, Firm to hard                                                                                                                                                                                   | 1       | TO   | 5                                         |                    |                                           | BH7/1: OCs                            |             |
|                                  | <b>SILTY CLAY</b> — — — weathered                                                                                                                                                                             | 2       | TO   | 10                                        | 1                  |                                           | BH7/2: Metals, Hg,<br>Cr(VI), Cyanide |             |
|                                  | a trace of sand<br>occ. silt layers<br>seepage at 4.6m                                                                                                                                                        | 3       | TO   | 5                                         | 2                  |                                           |                                       |             |
|                                  |                                                                                                                                                                                                               | 4       | TO   | 0                                         |                    |                                           | BH7/4: pH                             |             |
|                                  |                                                                                                                                                                                                               | 5       | TO   | 0                                         | 3                  |                                           |                                       |             |
|                                  | — — — brown grey                                                                                                                                                                                              | 6       | TO   | 0                                         | 4                  |                                           |                                       |             |
|                                  |                                                                                                                                                                                                               | 7       | TO   | 0                                         | 5                  |                                           |                                       |             |
|                                  |                                                                                                                                                                                                               | 8       | TO   | 0                                         | 6                  |                                           |                                       |             |
|                                  |                                                                                                                                                                                                               | 9       | TO   | 0                                         | 7                  |                                           |                                       |             |
| 220.4                            | <b>END OF BOREHOLE</b>                                                                                                                                                                                        |         |      |                                           | 8                  |                                           |                                       |             |
| 6.7                              | Installed 51mm standpipe @ 6.1m<br>Concrete from 0.0 to 0.3<br>Bentonite seal from 0.3m to 2.5m<br>Sand backfill from 2.5m to 6.1m<br>3m screen from 3.1m to 6.1m<br>Provided with monument protective casing |         |      |                                           |                    |                                           |                                       |             |

W.L. @ 3.18 mbgs on March 9, 2023

**Soil Engineers Ltd.**

JOB NO.: 2302-E004-1

**LOG OF BOREHOLE NO.: 8**

FIGURE NO.: 4

**PROJECT DESCRIPTION:** Proposed Residential Development**METHOD OF BORING:** Geoprobe**PROJECT LOCATION:** 7505 Airport Road East  
City of Hamilton**DRILLING DATE:** March 3, 2023

| El.<br>(masl)<br>Depth<br>(mbgs) | SOIL<br>DESCRIPTION                                                                                                                                                                                           | SAMPLES |      |                                           | Depth Scale (mbgs) | Combustible<br>Headspace<br>Reading (ppm) | REMARKS                               | WATER LEVEL |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-------------------------------------------|--------------------|-------------------------------------------|---------------------------------------|-------------|
|                                  |                                                                                                                                                                                                               | Number  | Type | Combustible<br>Headspace<br>Reading (ppm) |                    |                                           |                                       |             |
| 225.9                            | Ground Surface                                                                                                                                                                                                |         |      |                                           |                    |                                           |                                       |             |
| 0.0                              | <b>10 cm TOPSOIL</b>                                                                                                                                                                                          |         |      |                                           | 0                  |                                           |                                       |             |
| 0.1                              | Brown to grey, Firm to very stiff                                                                                                                                                                             | 1       | TO   | 5                                         |                    |                                           | BH8/1: OCs                            |             |
|                                  | <b>SILTY CLAY</b>                                                                                                                                                                                             |         |      |                                           |                    |                                           |                                       |             |
|                                  | — — — weathered                                                                                                                                                                                               | 2       | TO   | 5                                         | 1                  |                                           | BH8/2: Metals, Hg,<br>Cr(VI), Cyanide |             |
|                                  | a trace of sand<br>occ. silt layers<br>seepage at 1.5m                                                                                                                                                        | 3       | TO   | 10                                        | 2                  |                                           | BH8/3: pH                             |             |
|                                  |                                                                                                                                                                                                               | 4       | TO   | 10                                        |                    |                                           |                                       |             |
|                                  |                                                                                                                                                                                                               | 5       | TO   | 5                                         | 3                  |                                           |                                       |             |
|                                  | — — — brown<br>grey                                                                                                                                                                                           | 6       | TO   | 0                                         | 4                  |                                           |                                       |             |
|                                  |                                                                                                                                                                                                               | 7       | TO   | 0                                         | 5                  |                                           |                                       |             |
|                                  |                                                                                                                                                                                                               | 8       | TO   | 0                                         | 6                  |                                           |                                       |             |
|                                  |                                                                                                                                                                                                               | 9       | TO   | 0                                         | 7                  |                                           |                                       |             |
| 219.2                            | END OF BOREHOLE                                                                                                                                                                                               |         |      |                                           | 8                  |                                           |                                       |             |
| 6.7                              | Installed 51mm standpipe @ 6.1m<br>Concrete from 0.0 to 0.3<br>Bentonite seal from 0.3m to 2.5m<br>Sand backfill from 2.5m to 6.1m<br>3m screen from 3.1m to 6.1m<br>Provided with monument protective casing |         |      |                                           |                    |                                           |                                       |             |

W.L. @ 3.75 mbgs on March 9, 2023

**Soil Engineers Ltd.**

JOB NO.: 2302-E004-1

**LOG OF BOREHOLE NO.: 9**

FIGURE NO.: 5

PROJECT DESCRIPTION: Proposed Residential Development

METHOD OF BORING: Geoprobe

PROJECT LOCATION: 7505 Airport Road East  
City of Hamilton

DRILLING DATE: March 3, 2023

| El.<br>(masl)<br>Depth<br>(mbgs) | SOIL<br>DESCRIPTION       | SAMPLES |      |                                           | Depth Scale (mbgs) | Combustible<br>Headspace<br>Reading (ppm) | REMARKS                                   | WATER LEVEL |
|----------------------------------|---------------------------|---------|------|-------------------------------------------|--------------------|-------------------------------------------|-------------------------------------------|-------------|
|                                  |                           | Number  | Type | Combustible<br>Headspace<br>Reading (ppm) |                    |                                           |                                           |             |
| 225.3                            | Ground Surface            |         |      |                                           |                    |                                           |                                           |             |
| 0.0                              | 8 cm TOPSOIL              |         |      |                                           | 0                  |                                           |                                           |             |
| 0.1                              | Brown, firm to very stiff | 1       | TO   | 5                                         |                    |                                           | BH9/1: DUPS1: OCs                         |             |
|                                  | SILTY CLAY                |         |      |                                           |                    |                                           |                                           |             |
|                                  | --- weathered             |         |      |                                           |                    |                                           |                                           |             |
|                                  | a trace of sand           | 2       | TO   | 10                                        | 1                  |                                           | BH9/2: Metals, Hg,<br>Cr(VI), Cyanide, pH |             |
|                                  | occ. silt layers          |         |      |                                           |                    |                                           |                                           |             |
|                                  |                           | 3       | TO   | 5                                         | 2                  |                                           |                                           |             |
|                                  |                           | 4       | TO   | 0                                         |                    |                                           |                                           |             |
|                                  |                           | 5       | TO   | 0                                         |                    |                                           |                                           |             |
| 221.3                            |                           | 6       | TO   | 0                                         | 4                  |                                           |                                           |             |
| 4.0                              | Grey, compact             |         |      |                                           |                    |                                           |                                           |             |
|                                  | SILT                      | 7       | TO   | 0                                         | 5                  |                                           |                                           |             |
|                                  | a trace of clay           |         |      |                                           |                    |                                           |                                           |             |
|                                  | wet                       |         |      |                                           |                    |                                           |                                           |             |
| 219.7                            |                           | 8       | TO   | 0                                         |                    |                                           |                                           |             |
| 5.6                              | Grey, very stiff          |         |      |                                           |                    |                                           |                                           |             |
|                                  | SILTY CLAY                | 9       | TO   | 0                                         | 6                  |                                           |                                           |             |
|                                  | a trace of sand           |         |      |                                           |                    |                                           |                                           |             |
|                                  | occ. silt layers          |         |      |                                           |                    |                                           |                                           |             |
| 218.7                            | END OF BOREHOLE           |         |      |                                           | 7                  |                                           |                                           |             |
| 6.6                              |                           |         |      |                                           | 8                  |                                           |                                           |             |

**Soil Engineers Ltd.**

JOB NO.: 2302-E004-1

**LOG OF BOREHOLE NO.: 10**

FIGURE NO.: 6

**PROJECT DESCRIPTION:** Proposed Residential Development**METHOD OF BORING:** Geoprobe**PROJECT LOCATION:** 7505 Airport Road East  
City of Hamilton**DRILLING DATE:** March 3, 2023

| El.<br>(masl)<br><br>Depth<br>(mbgs) | SOIL<br>DESCRIPTION                                    | SAMPLES |      |                                           | Depth Scale (mbgs) | Combustible<br>Headspace<br>Reading (ppm)<br><br>● 20 60 100 140 180 | REMARKS                                         | WATER LEVEL |
|--------------------------------------|--------------------------------------------------------|---------|------|-------------------------------------------|--------------------|----------------------------------------------------------------------|-------------------------------------------------|-------------|
|                                      |                                                        | Number  | Type | Combustible<br>Headspace<br>Reading (ppm) |                    |                                                                      |                                                 |             |
| 227.9                                | Ground Surface                                         |         |      |                                           | 0                  |                                                                      |                                                 |             |
| 0.0                                  | <b>18 cm TOPSOIL</b>                                   |         |      |                                           |                    |                                                                      |                                                 |             |
| 0.2                                  | Brown, Soft to very stiff                              | 1       | TO   | 10                                        |                    |                                                                      | BH10/1: OCs, Metals,<br>Hg, Cr(VI), Cyanide, pH |             |
|                                      | <b>SILTY CLAY</b> — — — weathered                      | 2       | TO   | 5                                         | 1                  |                                                                      |                                                 |             |
|                                      | a trace of sand<br>occ. silt layers<br>seepage at 4.6m | 3       | TO   | 5                                         | 2                  |                                                                      |                                                 |             |
|                                      |                                                        | 4       | TO   | 0                                         |                    |                                                                      |                                                 |             |
|                                      | — — — brown<br>grey                                    | 5       | TO   | 0                                         | 3                  |                                                                      |                                                 |             |
|                                      |                                                        | 6       | TO   | 0                                         | 4                  |                                                                      |                                                 |             |
|                                      |                                                        | 7       | TO   | 0                                         | 5                  |                                                                      |                                                 |             |
|                                      |                                                        | 8       | TO   | 0                                         | 6                  |                                                                      |                                                 |             |
|                                      |                                                        | 9       | TO   | 0                                         | 7                  |                                                                      |                                                 |             |
| 221.3                                | END OF BOREHOLE                                        |         |      |                                           | 8                  |                                                                      |                                                 |             |
| 6.6                                  |                                                        |         |      |                                           |                    |                                                                      |                                                 |             |

**Soil Engineers Ltd.**

JOB NO.: 2302-E004-1

**LOG OF BOREHOLE NO.: 11**

FIGURE NO.: 7

**PROJECT DESCRIPTION:** Proposed Residential Development**METHOD OF BORING:** Geoprobe**PROJECT LOCATION:** 7505 Airport Road East  
City of Hamilton**DRILLING DATE:** March 3, 2023

| El.<br>(masl)<br><br>Depth<br>(mbgs) | SOIL<br>DESCRIPTION                                    | SAMPLES |      |                                           | Depth Scale (mbgs) | Combustible<br>Headspace<br>Reading (ppm) | REMARKS                                              | WATER LEVEL |
|--------------------------------------|--------------------------------------------------------|---------|------|-------------------------------------------|--------------------|-------------------------------------------|------------------------------------------------------|-------------|
|                                      |                                                        | Number  | Type | Combustible<br>Headspace<br>Reading (ppm) |                    |                                           |                                                      |             |
| 225.6                                | Ground Surface                                         |         |      |                                           |                    |                                           |                                                      |             |
| 0.0                                  | <b>13 cm TOPSOIL</b>                                   |         |      |                                           | 0                  |                                           |                                                      |             |
| 0.1                                  | Brown, Firm to very stiff                              | 1       | TO   | 5                                         |                    |                                           | BH11/1: OCs                                          |             |
|                                      | <b>SILTY CLAY</b>                                      |         |      |                                           |                    |                                           |                                                      |             |
|                                      | — — — weathered                                        | 2       | TO   | 10                                        | 1                  |                                           | BH11/2: DUPS2:<br>Metals, Hg, Cr(VI),<br>Cyanide, pH |             |
|                                      | a trace of sand<br>occ. silt layers<br>seepage at 6.1m | 3       | TO   | 5                                         | 2                  |                                           |                                                      |             |
|                                      |                                                        | 4       | TO   | 0                                         |                    |                                           |                                                      |             |
|                                      |                                                        | 5       | TO   | 0                                         |                    |                                           |                                                      |             |
|                                      | — — — brown<br>grey                                    | 6       | TO   | 0                                         | 4                  |                                           |                                                      |             |
|                                      |                                                        | 7       | TO   | 0                                         | 5                  |                                           |                                                      |             |
|                                      |                                                        | 8       | TO   | 0                                         |                    |                                           |                                                      |             |
|                                      |                                                        | 9       | TO   | 0                                         | 6                  |                                           |                                                      |             |
| 219.0                                | END OF BOREHOLE                                        |         |      |                                           | 7                  |                                           |                                                      |             |
| 6.6                                  |                                                        |         |      |                                           | 8                  |                                           |                                                      |             |

**Soil Engineers Ltd.**



# ***Soil Engineers Ltd.***

CONSULTING ENGINEERS

GEOTECHNICAL • ENVIRONMENTAL • HYDROGEOLOGICAL • BUILDING SCIENCE

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**HAMILTON**  
TEL: (905) 777-7956  
FAX: (905) 542-2769

## **APPENDIX 'B'**

### **CERTIFICATES OF ANALYSIS (SOIL SAMPLES)**

**REFERENCE NO. 2302-E004-1**



Your Project #: 2302-E004-1

**Attention: Ram Sah**

Soil Engineers Ltd  
90 West Beaver Creek Road  
Unit 100  
Richmond Hill, ON  
CANADA L4B 1E7

**Report Date: 2023/03/16**

Report #: R7548637

Version: 3 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C365033**

**Received: 2023/03/07, 17:36**

Sample Matrix: Soil  
# Samples Received: 24

| Analyses                                    | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method | Analytical Method    |
|---------------------------------------------|----------|-------------------|------------------|-------------------|----------------------|
| Methylnaphthalene Sum                       | 2        | N/A               | 2023/03/10       | CAM SOP-00301     | EPA 8270D m          |
| 1,3-Dichloropropene Sum                     | 2        | N/A               | 2023/03/13       |                   | EPA 8260C m          |
| Free (WAD) Cyanide                          | 9        | 2023/03/10        | 2023/03/10       | CAM SOP-00457     | OMOE E3015 m         |
| Hexavalent Chromium in Soil by IC (1)       | 6        | 2023/03/10        | 2023/03/10       | CAM SOP-00436     | EPA 3060/7199 m      |
| Hexavalent Chromium in Soil by IC (1)       | 3        | 2023/03/10        | 2023/03/13       | CAM SOP-00436     | EPA 3060/7199 m      |
| Petroleum Hydro. CCME F1 & BTEX in Soil (2) | 4        | N/A               | 2023/03/10       | CAM SOP-00315     | CCME PHC-CWS m       |
| Petroleum Hydrocarbons F2-F4 in Soil (3)    | 5        | 2023/03/09        | 2023/03/10       | CAM SOP-00316     | CCME CWS m           |
| Petroleum Hydrocarbons F2-F4 in Soil (3)    | 1        | 2023/03/09        | 2023/03/09       | CAM SOP-00316     | CCME CWS m           |
| Acid Extractable Metals by ICPMS            | 14       | 2023/03/10        | 2023/03/10       | CAM SOP-00447     | EPA 6020B m          |
| Moisture                                    | 22       | N/A               | 2023/03/09       | CAM SOP-00445     | Carter 2nd ed 51.2 m |
| OC Pesticides (Selected) & PCB (4)          | 3        | 2023/03/13        | 2023/03/14       | CAM SOP-00307     | EPA 8081B/ 8082A     |
| OC Pesticides (Selected) & PCB (4)          | 6        | 2023/03/14        | 2023/03/15       | CAM SOP-00307     | EPA 8081B/ 8082A     |
| OC Pesticides Summed Parameters             | 9        | N/A               | 2023/03/10       | CAM SOP-00307     | EPA 8081B/ 8082A     |
| PAH Compounds in Soil by GC/MS (SIM)        | 2        | 2023/03/09        | 2023/03/10       | CAM SOP-00318     | EPA 8270E            |
| pH CaCl2 EXTRACT                            | 10       | 2023/03/10        | 2023/03/10       | CAM SOP-00413     | EPA 9045 D m         |
| Volatile Organic Compounds and F1 PHCs      | 2        | N/A               | 2023/03/10       | CAM SOP-00230     | EPA 8260C m          |

**Remarks:**

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

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

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



Your Project #: 2302-E004-1

**Attention: Ram Sah**

Soil Engineers Ltd  
90 West Beaver Creek Road  
Unit 100  
Richmond Hill, ON  
CANADA L4B 1E7

**Report Date: 2023/03/16**

**Report #: R7548637**

**Version: 3 - Final**

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C365033**

**Received: 2023/03/07, 17:36**

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

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

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

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

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

(1) Soils are reported on a dry weight basis unless otherwise specified.

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

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

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

(4) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Encryption Key

Antonella Brasil  
Senior Project Manager  
16 Mar 2023 13:21:37

Please direct all questions regarding this Certificate of Analysis to:

Antonella Brasil, Senior Project Manager

Email: Antonella.Brasil@bureauveritas.com

Phone# (905)817-5817

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

### O.REG 153 ICPMS METALS (SOIL)

| Bureau Veritas ID                |       | VFO840              | VFO841              |          | VFO842              | VFO843              |       |       |          |
|----------------------------------|-------|---------------------|---------------------|----------|---------------------|---------------------|-------|-------|----------|
| Sampling Date                    |       | 2023/03/06<br>11:30 | 2023/03/06<br>11:50 |          | 2023/03/06<br>12:10 | 2023/03/06<br>13:05 |       |       |          |
|                                  | UNITS | TP1                 | TP2                 | QC Batch | TP3                 | TP4                 | RDL   | MDL   | QC Batch |
| <b>Metals</b>                    |       |                     |                     |          |                     |                     |       |       |          |
| Acid Extractable Antimony (Sb)   | ug/g  | 0.46                | 0.25                | 8545799  | 0.20                | 0.28                | 0.20  | 0.10  | 8545205  |
| Acid Extractable Arsenic (As)    | ug/g  | 9.5                 | 3.9                 | 8545799  | 4.3                 | 4.9                 | 1.0   | 0.10  | 8545205  |
| Acid Extractable Barium (Ba)     | ug/g  | 51                  | 68                  | 8545799  | 71                  | 96                  | 0.50  | 0.30  | 8545205  |
| Acid Extractable Beryllium (Be)  | ug/g  | 0.34                | 0.64                | 8545799  | 0.69                | 0.64                | 0.20  | 0.020 | 8545205  |
| Acid Extractable Boron (B)       | ug/g  | 9.4                 | 5.6                 | 8545799  | 5.2                 | 8.0                 | 5.0   | 1.0   | 8545205  |
| Acid Extractable Cadmium (Cd)    | ug/g  | 0.53                | 0.23                | 8545799  | 0.26                | 0.28                | 0.10  | 0.030 | 8545205  |
| Acid Extractable Chromium (Cr)   | ug/g  | 17                  | 20                  | 8545799  | 22                  | 18                  | 1.0   | 0.20  | 8545205  |
| Acid Extractable Cobalt (Co)     | ug/g  | 6.0                 | 9.7                 | 8545799  | 10                  | 8.4                 | 0.10  | 0.020 | 8545205  |
| Acid Extractable Copper (Cu)     | ug/g  | 30                  | 28                  | 8545799  | 23                  | 22                  | 0.50  | 0.20  | 8545205  |
| Acid Extractable Lead (Pb)       | ug/g  | 39                  | 20                  | 8545799  | 20                  | 24                  | 1.0   | 0.10  | 8545205  |
| Acid Extractable Molybdenum (Mo) | ug/g  | 0.97                | 0.54                | 8545799  | 0.53                | 1.1                 | 0.50  | 0.10  | 8545205  |
| Acid Extractable Nickel (Ni)     | ug/g  | 12                  | 20                  | 8545799  | 21                  | 17                  | 0.50  | 0.20  | 8545205  |
| Acid Extractable Selenium (Se)   | ug/g  | <0.50               | <0.50               | 8545799  | <0.50               | <0.50               | 0.50  | 0.10  | 8545205  |
| Acid Extractable Silver (Ag)     | ug/g  | <0.20               | <0.20               | 8545799  | <0.20               | <0.20               | 0.20  | 0.040 | 8545205  |
| Acid Extractable Thallium (Tl)   | ug/g  | 0.10                | 0.13                | 8545799  | 0.13                | 0.13                | 0.050 | 0.010 | 8545205  |
| Acid Extractable Uranium (U)     | ug/g  | 0.56                | 0.63                | 8545799  | 0.75                | 0.84                | 0.050 | 0.030 | 8545205  |
| Acid Extractable Vanadium (V)    | ug/g  | 19                  | 28                  | 8545799  | 30                  | 25                  | 5.0   | 0.50  | 8545205  |
| Acid Extractable Zinc (Zn)       | ug/g  | 240                 | 120                 | 8545799  | 93                  | 94                  | 5.0   | 0.50  | 8545205  |
| Acid Extractable Mercury (Hg)    | ug/g  | <0.050              | 0.054               | 8545799  | <0.050              | 0.071               | 0.050 | 0.030 | 8545205  |
| RDL = Reportable Detection Limit |       |                     |                     |          |                     |                     |       |       |          |
| QC Batch = Quality Control Batch |       |                     |                     |          |                     |                     |       |       |          |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

### O.REG 153 METALS & INORGANICS PKG (SOIL)

|                                   |              |                     |            |            |                 |                     |                 |                     |            |            |                 |
|-----------------------------------|--------------|---------------------|------------|------------|-----------------|---------------------|-----------------|---------------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b>          |              | VFO825              |            |            |                 | VFO828              |                 | VFO830              |            |            |                 |
| <b>Sampling Date</b>              |              | 2023/03/06<br>09:15 |            |            |                 | 2023/03/03<br>08:55 |                 | 2023/03/03<br>10:15 |            |            |                 |
|                                   | <b>UNITS</b> | <b>BH/MW 5/4</b>    | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> | <b>BH 6/2</b>       | <b>QC Batch</b> | <b>BH/MW 7/2</b>    | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |
| <b>Inorganics</b>                 |              |                     |            |            |                 |                     |                 |                     |            |            |                 |
| Available (CaCl <sub>2</sub> ) pH | pH           | 7.72                |            |            | 8545401         | 7.58                | 8545471         |                     |            |            |                 |
| WAD Cyanide (Free)                | ug/g         |                     |            |            |                 | <0.01               | 8545201         | <0.01               | 0.01       | 0.005      | 8545201         |
| Chromium (VI)                     | ug/g         |                     |            |            |                 | <0.18               | 8545384         | <0.18               | 0.18       | 0.050      | 8545390         |
| <b>Metals</b>                     |              |                     |            |            |                 |                     |                 |                     |            |            |                 |
| Acid Extractable Antimony (Sb)    | ug/g         | <0.20               | 0.20       | 0.10       | 8545236         | <0.20               | 8545236         | <0.20               | 0.20       | 0.10       | 8545799         |
| Acid Extractable Arsenic (As)     | ug/g         | 5.3                 | 1.0        | 0.10       | 8545236         | 4.5                 | 8545236         | 5.9                 | 1.0        | 0.10       | 8545799         |
| Acid Extractable Barium (Ba)      | ug/g         | 77                  | 0.50       | 0.30       | 8545236         | 72                  | 8545236         | 77                  | 0.50       | 0.30       | 8545799         |
| Acid Extractable Beryllium (Be)   | ug/g         | 0.67                | 0.20       | 0.020      | 8545236         | 0.55                | 8545236         | 0.73                | 0.20       | 0.020      | 8545799         |
| Acid Extractable Boron (B)        | ug/g         | 8.6                 | 5.0        | 1.0        | 8545236         | 7.0                 | 8545236         | 6.4                 | 5.0        | 1.0        | 8545799         |
| Acid Extractable Cadmium (Cd)     | ug/g         | <0.10               | 0.10       | 0.030      | 8545236         | 0.13                | 8545236         | 0.14                | 0.10       | 0.030      | 8545799         |
| Acid Extractable Chromium (Cr)    | ug/g         | 22                  | 1.0        | 0.20       | 8545236         | 17                  | 8545236         | 22                  | 1.0        | 0.20       | 8545799         |
| Acid Extractable Cobalt (Co)      | ug/g         | 14                  | 0.10       | 0.020      | 8545236         | 9.7                 | 8545236         | 12                  | 0.10       | 0.020      | 8545799         |
| Acid Extractable Copper (Cu)      | ug/g         | 32                  | 0.50       | 0.20       | 8545236         | 33                  | 8545236         | 34                  | 0.50       | 0.20       | 8545799         |
| Acid Extractable Lead (Pb)        | ug/g         | 12                  | 1.0        | 0.10       | 8545236         | 16                  | 8545236         | 12                  | 1.0        | 0.10       | 8545799         |
| Acid Extractable Molybdenum (Mo)  | ug/g         | <0.50               | 0.50       | 0.10       | 8545236         | <0.50               | 8545236         | <0.50               | 0.50       | 0.10       | 8545799         |
| Acid Extractable Nickel (Ni)      | ug/g         | 28                  | 0.50       | 0.20       | 8545236         | 21                  | 8545236         | 27                  | 0.50       | 0.20       | 8545799         |
| Acid Extractable Selenium (Se)    | ug/g         | <0.50               | 0.50       | 0.10       | 8545236         | <0.50               | 8545236         | <0.50               | 0.50       | 0.10       | 8545799         |
| Acid Extractable Silver (Ag)      | ug/g         | <0.20               | 0.20       | 0.040      | 8545236         | <0.20               | 8545236         | <0.20               | 0.20       | 0.040      | 8545799         |
| Acid Extractable Thallium (Tl)    | ug/g         | 0.13                | 0.050      | 0.010      | 8545236         | 0.11                | 8545236         | 0.14                | 0.050      | 0.010      | 8545799         |
| Acid Extractable Uranium (U)      | ug/g         | 0.58                | 0.050      | 0.030      | 8545236         | 0.50                | 8545236         | 0.64                | 0.050      | 0.030      | 8545799         |
| Acid Extractable Vanadium (V)     | ug/g         | 29                  | 5.0        | 0.50       | 8545236         | 25                  | 8545236         | 31                  | 5.0        | 0.50       | 8545799         |
| Acid Extractable Zinc (Zn)        | ug/g         | 65                  | 5.0        | 0.50       | 8545236         | 72                  | 8545236         | 59                  | 5.0        | 0.50       | 8545799         |
| Acid Extractable Mercury (Hg)     | ug/g         | <0.050              | 0.050      | 0.030      | 8545236         | <0.050              | 8545236         | <0.050              | 0.050      | 0.030      | 8545799         |
| RDL = Reportable Detection Limit  |              |                     |            |            |                 |                     |                 |                     |            |            |                 |
| QC Batch = Quality Control Batch  |              |                     |            |            |                 |                     |                 |                     |            |            |                 |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

### O.REG 153 METALS & INORGANICS PKG (SOIL)

| Bureau Veritas ID                                                                                                |       | VFO833              |       |       |          | VFO833              |       |       |          | VFO836              |       |       |          |
|------------------------------------------------------------------------------------------------------------------|-------|---------------------|-------|-------|----------|---------------------|-------|-------|----------|---------------------|-------|-------|----------|
| Sampling Date                                                                                                    |       | 2023/03/03<br>11:40 |       |       |          | 2023/03/03<br>11:40 |       |       |          | 2023/03/03<br>12:55 |       |       |          |
|                                                                                                                  | UNITS | BH/MW 8/2           | RDL   | MDL   | QC Batch | BH/MW 8/2 Lab-Dup   | RDL   | MDL   | QC Batch | BH 9/2              | RDL   | MDL   | QC Batch |
| <b>Inorganics</b>                                                                                                |       |                     |       |       |          |                     |       |       |          |                     |       |       |          |
| Available (CaCl <sub>2</sub> ) pH                                                                                | pH    |                     |       |       |          |                     |       |       |          | 7.56                |       |       | 8545471  |
| WAD Cyanide (Free)                                                                                               | ug/g  | <0.01               | 0.01  | 0.005 | 8545201  |                     |       |       |          | <0.01               | 0.01  | 0.005 | 8545201  |
| Chromium (VI)                                                                                                    | ug/g  | <0.18               | 0.18  | 0.050 | 8545384  |                     |       |       |          | <0.18               | 0.18  | 0.050 | 8545384  |
| <b>Metals</b>                                                                                                    |       |                     |       |       |          |                     |       |       |          |                     |       |       |          |
| Acid Extractable Antimony (Sb)                                                                                   | ug/g  | <0.20               | 0.20  | 0.10  | 8545236  | <0.20               | 0.20  | 0.10  | 8545236  | <0.20               | 0.20  | 0.10  | 8545236  |
| Acid Extractable Arsenic (As)                                                                                    | ug/g  | 7.5                 | 1.0   | 0.10  | 8545236  | 7.3                 | 1.0   | 0.10  | 8545236  | 5.4                 | 1.0   | 0.10  | 8545236  |
| Acid Extractable Barium (Ba)                                                                                     | ug/g  | 83                  | 0.50  | 0.30  | 8545236  | 80                  | 0.50  | 0.30  | 8545236  | 74                  | 0.50  | 0.30  | 8545236  |
| Acid Extractable Beryllium (Be)                                                                                  | ug/g  | 0.80                | 0.20  | 0.020 | 8545236  | 0.77                | 0.20  | 0.020 | 8545236  | 0.67                | 0.20  | 0.020 | 8545236  |
| Acid Extractable Boron (B)                                                                                       | ug/g  | 5.4                 | 5.0   | 1.0   | 8545236  | 5.2                 | 5.0   | 1.0   | 8545236  | 7.5                 | 5.0   | 1.0   | 8545236  |
| Acid Extractable Cadmium (Cd)                                                                                    | ug/g  | 0.15                | 0.10  | 0.030 | 8545236  | 0.13                | 0.10  | 0.030 | 8545236  | <0.10               | 0.10  | 0.030 | 8545236  |
| Acid Extractable Chromium (Cr)                                                                                   | ug/g  | 26                  | 1.0   | 0.20  | 8545236  | 26                  | 1.0   | 0.20  | 8545236  | 21                  | 1.0   | 0.20  | 8545236  |
| Acid Extractable Cobalt (Co)                                                                                     | ug/g  | 14                  | 0.10  | 0.020 | 8545236  | 13                  | 0.10  | 0.020 | 8545236  | 14                  | 0.10  | 0.020 | 8545236  |
| Acid Extractable Copper (Cu)                                                                                     | ug/g  | 41                  | 0.50  | 0.20  | 8545236  | 40                  | 0.50  | 0.20  | 8545236  | 34                  | 0.50  | 0.20  | 8545236  |
| Acid Extractable Lead (Pb)                                                                                       | ug/g  | 13                  | 1.0   | 0.10  | 8545236  | 12                  | 1.0   | 0.10  | 8545236  | 11                  | 1.0   | 0.10  | 8545236  |
| Acid Extractable Molybdenum (Mo)                                                                                 | ug/g  | 0.52                | 0.50  | 0.10  | 8545236  | <0.50               | 0.50  | 0.10  | 8545236  | <0.50               | 0.50  | 0.10  | 8545236  |
| Acid Extractable Nickel (Ni)                                                                                     | ug/g  | 33                  | 0.50  | 0.20  | 8545236  | 31                  | 0.50  | 0.20  | 8545236  | 28                  | 0.50  | 0.20  | 8545236  |
| Acid Extractable Selenium (Se)                                                                                   | ug/g  | <0.50               | 0.50  | 0.10  | 8545236  | <0.50               | 0.50  | 0.10  | 8545236  | <0.50               | 0.50  | 0.10  | 8545236  |
| Acid Extractable Silver (Ag)                                                                                     | ug/g  | <0.20               | 0.20  | 0.040 | 8545236  | <0.20               | 0.20  | 0.040 | 8545236  | <0.20               | 0.20  | 0.040 | 8545236  |
| Acid Extractable Thallium (Tl)                                                                                   | ug/g  | 0.16                | 0.050 | 0.010 | 8545236  | 0.14                | 0.050 | 0.010 | 8545236  | 0.14                | 0.050 | 0.010 | 8545236  |
| Acid Extractable Uranium (U)                                                                                     | ug/g  | 0.56                | 0.050 | 0.030 | 8545236  | 0.53                | 0.050 | 0.030 | 8545236  | 0.54                | 0.050 | 0.030 | 8545236  |
| Acid Extractable Vanadium (V)                                                                                    | ug/g  | 35                  | 5.0   | 0.50  | 8545236  | 35                  | 5.0   | 0.50  | 8545236  | 30                  | 5.0   | 0.50  | 8545236  |
| Acid Extractable Zinc (Zn)                                                                                       | ug/g  | 70                  | 5.0   | 0.50  | 8545236  | 67                  | 5.0   | 0.50  | 8545236  | 67                  | 5.0   | 0.50  | 8545236  |
| Acid Extractable Mercury (Hg)                                                                                    | ug/g  | <0.050              | 0.050 | 0.030 | 8545236  | <0.050              | 0.050 | 0.030 | 8545236  | <0.050              | 0.050 | 0.030 | 8545236  |
| RDL = Reportable Detection Limit<br>QC Batch = Quality Control Batch<br>Lab-Dup = Laboratory Initiated Duplicate |       |                     |       |       |          |                     |       |       |          |                     |       |       |          |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

### O.REG 153 METALS & INORGANICS PKG (SOIL)

| Bureau Veritas ID                                                                                                |       | VFO836              |     |          | VFO837              | VFO839              | VFO844              |       |       |          |
|------------------------------------------------------------------------------------------------------------------|-------|---------------------|-----|----------|---------------------|---------------------|---------------------|-------|-------|----------|
| Sampling Date                                                                                                    |       | 2023/03/03<br>12:55 |     |          | 2023/03/03<br>13:45 | 2023/03/03<br>15:25 | 2023/03/06<br>13:50 |       |       |          |
|                                                                                                                  | UNITS | BH 9/2<br>Lab-Dup   | MDL | QC Batch | BH 10/1             | BH 11/2             | TP5                 | RDL   | MDL   | QC Batch |
| <b>Inorganics</b>                                                                                                |       |                     |     |          |                     |                     |                     |       |       |          |
| Available (CaCl2) pH                                                                                             | pH    | 7.61                |     | 8545471  | 7.57                | 7.65                | 6.02                |       |       | 8545401  |
| WAD Cyanide (Free)                                                                                               | ug/g  |                     |     |          | <0.01               | <0.01               | <0.01               | 0.01  | 0.005 | 8545201  |
| Chromium (VI)                                                                                                    | ug/g  |                     |     |          | <0.18               | <0.18               | <0.18               | 0.18  | 0.050 | 8545384  |
| <b>Metals</b>                                                                                                    |       |                     |     |          |                     |                     |                     |       |       |          |
| Acid Extractable Antimony (Sb)                                                                                   | ug/g  |                     |     |          | <0.20               | <0.20               | <0.20               | 0.20  | 0.10  | 8545236  |
| Acid Extractable Arsenic (As)                                                                                    | ug/g  |                     |     |          | 6.0                 | 7.1                 | 4.0                 | 1.0   | 0.10  | 8545236  |
| Acid Extractable Barium (Ba)                                                                                     | ug/g  |                     |     |          | 95                  | 100                 | 74                  | 0.50  | 0.30  | 8545236  |
| Acid Extractable Beryllium (Be)                                                                                  | ug/g  |                     |     |          | 0.92                | 1.0                 | 0.72                | 0.20  | 0.020 | 8545236  |
| Acid Extractable Boron (B)                                                                                       | ug/g  |                     |     |          | 6.6                 | 7.5                 | <5.0                | 5.0   | 1.0   | 8545236  |
| Acid Extractable Cadmium (Cd)                                                                                    | ug/g  |                     |     |          | 0.17                | 0.15                | 0.25                | 0.10  | 0.030 | 8545236  |
| Acid Extractable Chromium (Cr)                                                                                   | ug/g  |                     |     |          | 26                  | 31                  | 21                  | 1.0   | 0.20  | 8545236  |
| Acid Extractable Cobalt (Co)                                                                                     | ug/g  |                     |     |          | 12                  | 18                  | 8.5                 | 0.10  | 0.020 | 8545236  |
| Acid Extractable Copper (Cu)                                                                                     | ug/g  |                     |     |          | 32                  | 39                  | 23                  | 0.50  | 0.20  | 8545236  |
| Acid Extractable Lead (Pb)                                                                                       | ug/g  |                     |     |          | 13                  | 18                  | 17                  | 1.0   | 0.10  | 8545236  |
| Acid Extractable Molybdenum (Mo)                                                                                 | ug/g  |                     |     |          | 0.51                | <0.50               | 0.50                | 0.50  | 0.10  | 8545236  |
| Acid Extractable Nickel (Ni)                                                                                     | ug/g  |                     |     |          | 26                  | 41                  | 19                  | 0.50  | 0.20  | 8545236  |
| Acid Extractable Selenium (Se)                                                                                   | ug/g  |                     |     |          | <0.50               | <0.50               | <0.50               | 0.50  | 0.10  | 8545236  |
| Acid Extractable Silver (Ag)                                                                                     | ug/g  |                     |     |          | <0.20               | <0.20               | <0.20               | 0.20  | 0.040 | 8545236  |
| Acid Extractable Thallium (Tl)                                                                                   | ug/g  |                     |     |          | 0.13                | 0.20                | 0.11                | 0.050 | 0.010 | 8545236  |
| Acid Extractable Uranium (U)                                                                                     | ug/g  |                     |     |          | 1.1                 | 0.58                | 1.2                 | 0.050 | 0.030 | 8545236  |
| Acid Extractable Vanadium (V)                                                                                    | ug/g  |                     |     |          | 40                  | 41                  | 29                  | 5.0   | 0.50  | 8545236  |
| Acid Extractable Zinc (Zn)                                                                                       | ug/g  |                     |     |          | 70                  | 89                  | 91                  | 5.0   | 0.50  | 8545236  |
| Acid Extractable Mercury (Hg)                                                                                    | ug/g  |                     |     |          | <0.050              | <0.050              | <0.050              | 0.050 | 0.030 | 8545236  |
| RDL = Reportable Detection Limit<br>QC Batch = Quality Control Batch<br>Lab-Dup = Laboratory Initiated Duplicate |       |                     |     |          |                     |                     |                     |       |       |          |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

### O.REG 153 METALS & INORGANICS PKG (SOIL)

|                          |              |                     |            |            |                 |                        |            |            |                 |              |            |            |                 |
|--------------------------|--------------|---------------------|------------|------------|-----------------|------------------------|------------|------------|-----------------|--------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b> |              | VFO845              |            |            |                 | VFO845                 |            |            |                 | VFO847       |            |            |                 |
| <b>Sampling Date</b>     |              | 2023/03/06<br>14:15 |            |            |                 | 2023/03/06<br>14:15    |            |            |                 | 2023/03/03   |            |            |                 |
|                          | <b>UNITS</b> | <b>TP6</b>          | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> | <b>TP6<br/>Lab-Dup</b> | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> | <b>DUP52</b> | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |

|                                   |      |       |      |       |         |       |      |       |         |       |      |       |         |
|-----------------------------------|------|-------|------|-------|---------|-------|------|-------|---------|-------|------|-------|---------|
| <b>Inorganics</b>                 |      |       |      |       |         |       |      |       |         |       |      |       |         |
| Available (CaCl <sub>2</sub> ) pH | pH   | 6.04  |      |       | 8545401 |       |      |       |         | 7.63  |      |       | 8545492 |
| WAD Cyanide (Free)                | ug/g | <0.01 | 0.01 | 0.005 | 8545201 |       |      |       |         | <0.01 | 0.01 | 0.005 | 8545201 |
| Chromium (VI)                     | ug/g | <0.18 | 0.18 | 0.050 | 8545390 | <0.18 | 0.18 | 0.050 | 8545390 | <0.18 | 0.18 | 0.050 | 8545390 |

|                                  |      |       |       |       |         |  |  |  |  |        |       |       |         |
|----------------------------------|------|-------|-------|-------|---------|--|--|--|--|--------|-------|-------|---------|
| <b>Metals</b>                    |      |       |       |       |         |  |  |  |  |        |       |       |         |
| Acid Extractable Antimony (Sb)   | ug/g | <0.20 | 0.20  | 0.10  | 8545799 |  |  |  |  | <0.20  | 0.20  | 0.10  | 8545799 |
| Acid Extractable Arsenic (As)    | ug/g | 4.0   | 1.0   | 0.10  | 8545799 |  |  |  |  | 7.2    | 1.0   | 0.10  | 8545799 |
| Acid Extractable Barium (Ba)     | ug/g | 83    | 0.50  | 0.30  | 8545799 |  |  |  |  | 100    | 0.50  | 0.30  | 8545799 |
| Acid Extractable Beryllium (Be)  | ug/g | 0.80  | 0.20  | 0.020 | 8545799 |  |  |  |  | 1.0    | 0.20  | 0.020 | 8545799 |
| Acid Extractable Boron (B)       | ug/g | <5.0  | 5.0   | 1.0   | 8545799 |  |  |  |  | 8.7    | 5.0   | 1.0   | 8545799 |
| Acid Extractable Cadmium (Cd)    | ug/g | 0.27  | 0.10  | 0.030 | 8545799 |  |  |  |  | 0.19   | 0.10  | 0.030 | 8545799 |
| Acid Extractable Chromium (Cr)   | ug/g | 23    | 1.0   | 0.20  | 8545799 |  |  |  |  | 30     | 1.0   | 0.20  | 8545799 |
| Acid Extractable Cobalt (Co)     | ug/g | 8.9   | 0.10  | 0.020 | 8545799 |  |  |  |  | 18     | 0.10  | 0.020 | 8545799 |
| Acid Extractable Copper (Cu)     | ug/g | 25    | 0.50  | 0.20  | 8545799 |  |  |  |  | 42     | 0.50  | 0.20  | 8545799 |
| Acid Extractable Lead (Pb)       | ug/g | 20    | 1.0   | 0.10  | 8545799 |  |  |  |  | 18     | 1.0   | 0.10  | 8545799 |
| Acid Extractable Molybdenum (Mo) | ug/g | 0.52  | 0.50  | 0.10  | 8545799 |  |  |  |  | <0.50  | 0.50  | 0.10  | 8545799 |
| Acid Extractable Nickel (Ni)     | ug/g | 20    | 0.50  | 0.20  | 8545799 |  |  |  |  | 40     | 0.50  | 0.20  | 8545799 |
| Acid Extractable Selenium (Se)   | ug/g | 0.58  | 0.50  | 0.10  | 8545799 |  |  |  |  | <0.50  | 0.50  | 0.10  | 8545799 |
| Acid Extractable Silver (Ag)     | ug/g | <0.20 | 0.20  | 0.040 | 8545799 |  |  |  |  | <0.20  | 0.20  | 0.040 | 8545799 |
| Acid Extractable Thallium (Tl)   | ug/g | 0.12  | 0.050 | 0.010 | 8545799 |  |  |  |  | 0.21   | 0.050 | 0.010 | 8545799 |
| Acid Extractable Uranium (U)     | ug/g | 1.4   | 0.050 | 0.030 | 8545799 |  |  |  |  | 0.59   | 0.050 | 0.030 | 8545799 |
| Acid Extractable Vanadium (V)    | ug/g | 32    | 5.0   | 0.50  | 8545799 |  |  |  |  | 40     | 5.0   | 0.50  | 8545799 |
| Acid Extractable Zinc (Zn)       | ug/g | 100   | 5.0   | 0.50  | 8545799 |  |  |  |  | 90     | 5.0   | 0.50  | 8545799 |
| Acid Extractable Mercury (Hg)    | ug/g | 0.052 | 0.050 | 0.030 | 8545799 |  |  |  |  | <0.050 | 0.050 | 0.030 | 8545799 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

### O.REG 153 OC PESTICIDES (SOIL)

| Bureau Veritas ID                                                                            |       | VFO827              | VFO829              | VFO832              | VFO835              |          | VFO837              |        |         |          |
|----------------------------------------------------------------------------------------------|-------|---------------------|---------------------|---------------------|---------------------|----------|---------------------|--------|---------|----------|
| Sampling Date                                                                                |       | 2023/03/03<br>08:45 | 2023/03/03<br>10:05 | 2023/03/03<br>11:30 | 2023/03/03<br>12:40 |          | 2023/03/03<br>13:45 |        |         |          |
|                                                                                              | UNITS | BH 6/1              | BH/MW 7/1           | BH/MW 8/1           | BH 9/1              | QC Batch | BH 10/1             | RDL    | MDL     | QC Batch |
| <b>Calculated Parameters</b>                                                                 |       |                     |                     |                     |                     |          |                     |        |         |          |
| Chlordane (Total)                                                                            | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8540721  | <0.0020             | 0.0020 | N/A     | 8540721  |
| o,p-DDD + p,p-DDD                                                                            | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8540721  | <0.0020             | 0.0020 | N/A     | 8540721  |
| o,p-DDE + p,p-DDE                                                                            | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8540721  | <0.0020             | 0.0020 | N/A     | 8540721  |
| o,p-DDT + p,p-DDT                                                                            | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8540721  | <0.0020             | 0.0020 | N/A     | 8540721  |
| Total Endosulfan                                                                             | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8540721  | <0.0020             | 0.0020 | N/A     | 8540721  |
| <b>Pesticides &amp; Herbicides</b>                                                           |       |                     |                     |                     |                     |          |                     |        |         |          |
| Aldrin                                                                                       | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| a-Chlordane                                                                                  | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| g-Chlordane                                                                                  | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| o,p-DDD                                                                                      | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| p,p-DDD                                                                                      | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| o,p-DDE                                                                                      | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| p,p-DDE                                                                                      | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| o,p-DDT                                                                                      | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| p,p-DDT                                                                                      | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| Dieldrin                                                                                     | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| Lindane                                                                                      | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| Endosulfan I (alpha)                                                                         | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| Endosulfan II (beta)                                                                         | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| Endrin                                                                                       | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| Heptachlor                                                                                   | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| Heptachlor epoxide                                                                           | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| Hexachlorobenzene                                                                            | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | 0.00040 | 8549305  |
| Hexachlorobutadiene                                                                          | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | N/A     | 8549305  |
| Hexachloroethane                                                                             | ug/g  | <0.0020             | <0.0020             | <0.0020             | <0.0020             | 8551240  | <0.0020             | 0.0020 | N/A     | 8549305  |
| Methoxychlor                                                                                 | ug/g  | <0.0050             | <0.0050             | <0.0050             | <0.0050             | 8551240  | <0.0050             | 0.0050 | 0.0016  | 8549305  |
| <b>Surrogate Recovery (%)</b>                                                                |       |                     |                     |                     |                     |          |                     |        |         |          |
| 2,4,5,6-Tetrachloro-m-xylene                                                                 | %     | 81                  | 66                  | 76                  | 78                  | 8551240  | 66                  |        |         | 8549305  |
| Decachlorobiphenyl                                                                           | %     | 99                  | 96                  | 93                  | 92                  | 8551240  | 93                  |        |         | 8549305  |
| RDL = Reportable Detection Limit<br>QC Batch = Quality Control Batch<br>N/A = Not Applicable |       |                     |                     |                     |                     |          |                     |        |         |          |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

### O.REG 153 OC PESTICIDES (SOIL)

| Bureau Veritas ID                                                                            |       | VFO838              |          | VFO844              | VFO845              |          | VFO846     |        |         |          |
|----------------------------------------------------------------------------------------------|-------|---------------------|----------|---------------------|---------------------|----------|------------|--------|---------|----------|
| Sampling Date                                                                                |       | 2023/03/03<br>15:10 |          | 2023/03/06<br>13:50 | 2023/03/06<br>14:15 |          | 2023/03/03 |        |         |          |
|                                                                                              | UNITS | BH 11/1             | QC Batch | TP5                 | TP6                 | QC Batch | DUPS1      | RDL    | MDL     | QC Batch |
| <b>Calculated Parameters</b>                                                                 |       |                     |          |                     |                     |          |            |        |         |          |
| Chlordane (Total)                                                                            | ug/g  | <0.0020             | 8540721  | <0.0020             | <0.0020             | 8540721  | <0.0020    | 0.0020 | N/A     | 8540721  |
| o,p-DDD + p,p-DDD                                                                            | ug/g  | <0.0020             | 8540721  | <0.0020             | <0.0020             | 8540721  | <0.0020    | 0.0020 | N/A     | 8540721  |
| o,p-DDE + p,p-DDE                                                                            | ug/g  | <0.0020             | 8540721  | <0.0020             | <0.0020             | 8540721  | <0.0020    | 0.0020 | N/A     | 8540721  |
| o,p-DDT + p,p-DDT                                                                            | ug/g  | <0.0020             | 8540721  | <0.0020             | <0.0020             | 8540721  | <0.0020    | 0.0020 | N/A     | 8540721  |
| Total Endosulfan                                                                             | ug/g  | <0.0020             | 8540721  | <0.0020             | <0.0020             | 8540721  | <0.0020    | 0.0020 | N/A     | 8540721  |
| <b>Pesticides &amp; Herbicides</b>                                                           |       |                     |          |                     |                     |          |            |        |         |          |
| Aldrin                                                                                       | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| a-Chlordane                                                                                  | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| g-Chlordane                                                                                  | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| o,p-DDD                                                                                      | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| p,p-DDD                                                                                      | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| o,p-DDE                                                                                      | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| p,p-DDE                                                                                      | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| o,p-DDT                                                                                      | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| p,p-DDT                                                                                      | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| Dieldrin                                                                                     | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| Lindane                                                                                      | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| Endosulfan I (alpha)                                                                         | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| Endosulfan II (beta)                                                                         | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| Endrin                                                                                       | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| Heptachlor                                                                                   | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| Heptachlor epoxide                                                                           | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| Hexachlorobenzene                                                                            | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | 0.00040 | 8551240  |
| Hexachlorobutadiene                                                                          | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | N/A     | 8551240  |
| Hexachloroethane                                                                             | ug/g  | <0.0020             | 8551240  | <0.0020             | <0.0020             | 8549305  | <0.0020    | 0.0020 | N/A     | 8551240  |
| Methoxychlor                                                                                 | ug/g  | <0.0050             | 8551240  | <0.0050             | <0.0050             | 8549305  | <0.0050    | 0.0050 | 0.0016  | 8551240  |
| <b>Surrogate Recovery (%)</b>                                                                |       |                     |          |                     |                     |          |            |        |         |          |
| 2,4,5,6-Tetrachloro-m-xylene                                                                 | %     | 75                  | 8551240  | 75                  | 69                  | 8549305  | 73         |        |         | 8551240  |
| Decachlorobiphenyl                                                                           | %     | 88                  | 8551240  | 90                  | 88                  | 8549305  | 98         |        |         | 8551240  |
| RDL = Reportable Detection Limit<br>QC Batch = Quality Control Batch<br>N/A = Not Applicable |       |                     |          |                     |                     |          |            |        |         |          |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

### O.REG 153 PAHS (SOIL)

| Bureau Veritas ID                                                                            |       | VFO825              | VFO842              |        |        |          |
|----------------------------------------------------------------------------------------------|-------|---------------------|---------------------|--------|--------|----------|
| Sampling Date                                                                                |       | 2023/03/06<br>09:15 | 2023/03/06<br>12:10 |        |        |          |
|                                                                                              | UNITS | BH/MW 5/4           | TP3                 | RDL    | MDL    | QC Batch |
| <b>Calculated Parameters</b>                                                                 |       |                     |                     |        |        |          |
| Methylnaphthalene, 2-(1-)                                                                    | ug/g  | <0.0071             | <0.0071             | 0.0071 | N/A    | 8540213  |
| <b>Polyaromatic Hydrocarbons</b>                                                             |       |                     |                     |        |        |          |
| Acenaphthene                                                                                 | ug/g  | <0.0050             | <0.0050             | 0.0050 | 0.0020 | 8543936  |
| Acenaphthylene                                                                               | ug/g  | <0.0050             | <0.0050             | 0.0050 | 0.0010 | 8543936  |
| Anthracene                                                                                   | ug/g  | <0.0050             | <0.0050             | 0.0050 | 0.0010 | 8543936  |
| Benzo(a)anthracene                                                                           | ug/g  | <0.0050             | 0.014               | 0.0050 | 0.0020 | 8543936  |
| Benzo(a)pyrene                                                                               | ug/g  | <0.0050             | 0.020               | 0.0050 | 0.0010 | 8543936  |
| Benzo(b,j)fluoranthene                                                                       | ug/g  | <0.0050             | 0.030               | 0.0050 | 0.0020 | 8543936  |
| Benzo(g,h,i)perylene                                                                         | ug/g  | <0.0050             | 0.016               | 0.0050 | 0.0040 | 8543936  |
| Benzo(k)fluoranthene                                                                         | ug/g  | <0.0050             | 0.0093              | 0.0050 | 0.0020 | 8543936  |
| Chrysene                                                                                     | ug/g  | <0.0050             | 0.018               | 0.0050 | 0.0020 | 8543936  |
| Dibenzo(a,h)anthracene                                                                       | ug/g  | <0.0050             | <0.0050             | 0.0050 | 0.0040 | 8543936  |
| Fluoranthene                                                                                 | ug/g  | <0.0050             | 0.048               | 0.0050 | 0.0010 | 8543936  |
| Fluorene                                                                                     | ug/g  | <0.0050             | <0.0050             | 0.0050 | 0.0010 | 8543936  |
| Indeno(1,2,3-cd)pyrene                                                                       | ug/g  | <0.0050             | 0.016               | 0.0050 | 0.0040 | 8543936  |
| 1-Methylnaphthalene                                                                          | ug/g  | <0.0050             | <0.0050             | 0.0050 | 0.0010 | 8543936  |
| 2-Methylnaphthalene                                                                          | ug/g  | <0.0050             | <0.0050             | 0.0050 | 0.0010 | 8543936  |
| Naphthalene                                                                                  | ug/g  | <0.0050             | <0.0050             | 0.0050 | 0.0010 | 8543936  |
| Phenanthrene                                                                                 | ug/g  | <0.0050             | 0.015               | 0.0050 | 0.0010 | 8543936  |
| Pyrene                                                                                       | ug/g  | <0.0050             | 0.039               | 0.0050 | 0.0010 | 8543936  |
| <b>Surrogate Recovery (%)</b>                                                                |       |                     |                     |        |        |          |
| D10-Anthracene                                                                               | %     | 104                 | 98                  |        |        | 8543936  |
| D14-Terphenyl (FS)                                                                           | %     | 92                  | 92                  |        |        | 8543936  |
| D8-Acenaphthylene                                                                            | %     | 95                  | 94                  |        |        | 8543936  |
| RDL = Reportable Detection Limit<br>QC Batch = Quality Control Batch<br>N/A = Not Applicable |       |                     |                     |        |        |          |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

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

| Bureau Veritas ID                 |       | VFO840              | VFO841              | VFO843              | VFO848     |       |       |          |
|-----------------------------------|-------|---------------------|---------------------|---------------------|------------|-------|-------|----------|
| Sampling Date                     |       | 2023/03/06<br>11:30 | 2023/03/06<br>11:50 | 2023/03/06<br>13:05 | 2023/03/06 |       |       |          |
|                                   | UNITS | TP1                 | TP2                 | TP4                 | DUPS3      | RDL   | MDL   | QC Batch |
| <b>BTEX &amp; F1 Hydrocarbons</b> |       |                     |                     |                     |            |       |       |          |
| Benzene                           | ug/g  | <0.020              | <0.020              | <0.020              | <0.020     | 0.020 | 0.020 | 8545247  |
| Toluene                           | ug/g  | <0.020              | <0.020              | <0.020              | <0.020     | 0.020 | 0.020 | 8545247  |
| Ethylbenzene                      | ug/g  | <0.020              | <0.020              | <0.020              | <0.020     | 0.020 | 0.020 | 8545247  |
| o-Xylene                          | ug/g  | <0.020              | <0.020              | <0.020              | <0.020     | 0.020 | 0.020 | 8545247  |
| p+m-Xylene                        | ug/g  | <0.040              | <0.040              | <0.040              | <0.040     | 0.040 | 0.040 | 8545247  |
| Total Xylenes                     | ug/g  | <0.040              | <0.040              | <0.040              | <0.040     | 0.040 | 0.040 | 8545247  |
| F1 (C6-C10)                       | ug/g  | <10                 | <10                 | <10                 | <10        | 10    | 5.0   | 8545247  |
| F1 (C6-C10) - BTEX                | ug/g  | <10                 | <10                 | <10                 | <10        | 10    | 5.0   | 8545247  |
| <b>F2-F4 Hydrocarbons</b>         |       |                     |                     |                     |            |       |       |          |
| F2 (C10-C16 Hydrocarbons)         | ug/g  | 36                  | <10                 | <10                 | <10        | 10    | 5.0   | 8543906  |
| F3 (C16-C34 Hydrocarbons)         | ug/g  | 320                 | <50                 | 190                 | <50        | 50    | 5.0   | 8543906  |
| F4 (C34-C50 Hydrocarbons)         | ug/g  | 610                 | <50                 | 610                 | <50        | 50    | 10    | 8543906  |
| Reached Baseline at C50           | ug/g  | No                  | Yes                 | No                  | Yes        |       |       | 8543906  |
| <b>Surrogate Recovery (%)</b>     |       |                     |                     |                     |            |       |       |          |
| 1,4-Difluorobenzene               | %     | 97                  | 96                  | 98                  | 97         |       |       | 8545247  |
| 4-Bromofluorobenzene              | %     | 110                 | 100                 | 104                 | 92         |       |       | 8545247  |
| D10-o-Xylene                      | %     | 103                 | 105                 | 115                 | 111        |       |       | 8545247  |
| D4-1,2-Dichloroethane             | %     | 100                 | 100                 | 102                 | 101        |       |       | 8545247  |
| o-Terphenyl                       | %     | 98                  | 99                  | 98                  | 96         |       |       | 8543906  |
| RDL = Reportable Detection Limit  |       |                     |                     |                     |            |       |       |          |
| QC Batch = Quality Control Batch  |       |                     |                     |                     |            |       |       |          |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

### O.REG 153 VOCs BY HS & F1-F4 (SOIL)

| Bureau Veritas ID                   |       | VFO826              | VFO842              |        |        |          |
|-------------------------------------|-------|---------------------|---------------------|--------|--------|----------|
| Sampling Date                       |       | 2023/03/06<br>09:30 | 2023/03/06<br>12:10 |        |        |          |
|                                     | UNITS | BH/MW 5/5           | TP3                 | RDL    | MDL    | QC Batch |
| <b>Calculated Parameters</b>        |       |                     |                     |        |        |          |
| 1,3-Dichloropropene (cis+trans)     | ug/g  | <0.050              | <0.050              | 0.050  | 0.010  | 8540311  |
| <b>Volatile Organics</b>            |       |                     |                     |        |        |          |
| Acetone (2-Propanone)               | ug/g  | <0.49               | <0.49               | 0.49   | 0.49   | 8543322  |
| Benzene                             | ug/g  | <0.0060             | <0.0060             | 0.0060 | 0.0060 | 8543322  |
| Bromodichloromethane                | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| Bromoform                           | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| Bromomethane                        | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| Carbon Tetrachloride                | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| Chlorobenzene                       | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| Chloroform                          | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| Dibromochloromethane                | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| 1,2-Dichlorobenzene                 | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| 1,3-Dichlorobenzene                 | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| 1,4-Dichlorobenzene                 | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| Dichlorodifluoromethane (FREON 12)  | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| 1,1-Dichloroethane                  | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| 1,2-Dichloroethane                  | ug/g  | <0.049              | <0.049              | 0.049  | 0.049  | 8543322  |
| 1,1-Dichloroethylene                | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| cis-1,2-Dichloroethylene            | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| trans-1,2-Dichloroethylene          | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| 1,2-Dichloropropane                 | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| cis-1,3-Dichloropropene             | ug/g  | <0.030              | <0.030              | 0.030  | 0.030  | 8543322  |
| trans-1,3-Dichloropropene           | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| Ethylbenzene                        | ug/g  | <0.010              | <0.010              | 0.010  | 0.010  | 8543322  |
| Ethylene Dibromide                  | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| Hexane                              | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| Methylene Chloride(Dichloromethane) | ug/g  | <0.049              | <0.049              | 0.049  | 0.049  | 8543322  |
| Methyl Ethyl Ketone (2-Butanone)    | ug/g  | <0.40               | <0.40               | 0.40   | 0.40   | 8543322  |
| Methyl Isobutyl Ketone              | ug/g  | <0.40               | <0.40               | 0.40   | 0.40   | 8543322  |
| Methyl t-butyl ether (MTBE)         | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| Styrene                             | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| 1,1,1,2-Tetrachloroethane           | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| 1,1,2,2-Tetrachloroethane           | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| Tetrachloroethylene                 | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| Toluene                             | ug/g  | <0.020              | <0.020              | 0.020  | 0.020  | 8543322  |
| 1,1,1-Trichloroethane               | ug/g  | <0.040              | <0.040              | 0.040  | 0.040  | 8543322  |
| RDL = Reportable Detection Limit    |       |                     |                     |        |        |          |
| QC Batch = Quality Control Batch    |       |                     |                     |        |        |          |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

### O.REG 153 VOCs BY HS & F1-F4 (SOIL)

|                                   |              |                     |                     |            |            |                 |
|-----------------------------------|--------------|---------------------|---------------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b>          |              | VFO826              | VFO842              |            |            |                 |
| <b>Sampling Date</b>              |              | 2023/03/06<br>09:30 | 2023/03/06<br>12:10 |            |            |                 |
|                                   | <b>UNITS</b> | <b>BH/MW 5/5</b>    | <b>TP3</b>          | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |
| 1,1,2-Trichloroethane             | ug/g         | <0.040              | <0.040              | 0.040      | 0.040      | 8543322         |
| Trichloroethylene                 | ug/g         | <0.010              | <0.010              | 0.010      | 0.010      | 8543322         |
| Trichlorofluoromethane (FREON 11) | ug/g         | <0.040              | <0.040              | 0.040      | 0.040      | 8543322         |
| Vinyl Chloride                    | ug/g         | <0.019              | <0.019              | 0.019      | 0.019      | 8543322         |
| p+m-Xylene                        | ug/g         | <0.020              | <0.020              | 0.020      | 0.020      | 8543322         |
| o-Xylene                          | ug/g         | <0.020              | <0.020              | 0.020      | 0.020      | 8543322         |
| Total Xylenes                     | ug/g         | <0.020              | <0.020              | 0.020      | 0.020      | 8543322         |
| F1 (C6-C10)                       | ug/g         | <10                 | <10                 | 10         | 2.0        | 8543322         |
| F1 (C6-C10) - BTEX                | ug/g         | <10                 | <10                 | 10         | 2.0        | 8543322         |
| <b>F2-F4 Hydrocarbons</b>         |              |                     |                     |            |            |                 |
| F2 (C10-C16 Hydrocarbons)         | ug/g         | <10                 | <10                 | 10         | 5.0        | 8543906         |
| F3 (C16-C34 Hydrocarbons)         | ug/g         | <50                 | <50                 | 50         | 5.0        | 8543906         |
| F4 (C34-C50 Hydrocarbons)         | ug/g         | <50                 | <50                 | 50         | 10         | 8543906         |
| Reached Baseline at C50           | ug/g         | Yes                 | Yes                 |            |            | 8543906         |
| <b>Surrogate Recovery (%)</b>     |              |                     |                     |            |            |                 |
| o-Terphenyl                       | %            | 99                  | 96                  |            |            | 8543906         |
| 4-Bromofluorobenzene              | %            | 74                  | 73                  |            |            | 8543322         |
| D10-o-Xylene                      | %            | 80                  | 83                  |            |            | 8543322         |
| D4-1,2-Dichloroethane             | %            | 108                 | 111                 |            |            | 8543322         |
| D8-Toluene                        | %            | 100                 | 99                  |            |            | 8543322         |
| RDL = Reportable Detection Limit  |              |                     |                     |            |            |                 |
| QC Batch = Quality Control Batch  |              |                     |                     |            |            |                 |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

### RESULTS OF ANALYSES OF SOIL

|                          |              |                     |                     |                 |                     |                 |                     |                 |                     |            |            |                 |
|--------------------------|--------------|---------------------|---------------------|-----------------|---------------------|-----------------|---------------------|-----------------|---------------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b> |              | VFO825              | VFO826              |                 | VFO827              |                 | VFO828              |                 | VFO829              |            |            |                 |
| <b>Sampling Date</b>     |              | 2023/03/06<br>09:15 | 2023/03/06<br>09:30 |                 | 2023/03/03<br>08:45 |                 | 2023/03/03<br>08:55 |                 | 2023/03/03<br>10:05 |            |            |                 |
|                          | <b>UNITS</b> | <b>BH/MW 5/4</b>    | <b>BH/MW 5/5</b>    | <b>QC Batch</b> | <b>BH 6/1</b>       | <b>QC Batch</b> | <b>BH 6/2</b>       | <b>QC Batch</b> | <b>BH/MW 7/1</b>    | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |

|                   |   |    |    |         |    |         |    |         |    |     |      |         |
|-------------------|---|----|----|---------|----|---------|----|---------|----|-----|------|---------|
| <b>Inorganics</b> |   |    |    |         |    |         |    |         |    |     |      |         |
| Moisture          | % | 15 | 14 | 8544043 | 20 | 8544600 | 15 | 8543296 | 21 | 1.0 | 0.50 | 8544600 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

|                          |              |                     |            |            |                 |                     |            |                 |                     |            |            |                 |
|--------------------------|--------------|---------------------|------------|------------|-----------------|---------------------|------------|-----------------|---------------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b> |              | VFO830              |            |            |                 | VFO831              |            |                 | VFO832              |            |            |                 |
| <b>Sampling Date</b>     |              | 2023/03/03<br>10:15 |            |            |                 | 2023/03/03<br>10:30 |            |                 | 2023/03/03<br>11:30 |            |            |                 |
|                          | <b>UNITS</b> | <b>BH/MW 7/2</b>    | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> | <b>BH/MW 7/4</b>    | <b>MDL</b> | <b>QC Batch</b> | <b>BH/MW 8/1</b>    | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |

|                                   |    |    |     |      |         |      |  |         |    |     |      |         |
|-----------------------------------|----|----|-----|------|---------|------|--|---------|----|-----|------|---------|
| <b>Inorganics</b>                 |    |    |     |      |         |      |  |         |    |     |      |         |
| Moisture                          | %  | 21 | 1.0 | 0.50 | 8544043 |      |  |         | 18 | 1.0 | 0.50 | 8544600 |
| Available (CaCl <sub>2</sub> ) pH | pH |    |     |      |         | 7.83 |  | 8545471 |    |     |      |         |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

|                          |              |                     |                              |            |            |                 |                     |            |                 |                     |            |            |                 |
|--------------------------|--------------|---------------------|------------------------------|------------|------------|-----------------|---------------------|------------|-----------------|---------------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b> |              | VFO833              | VFO833                       |            |            |                 | VFO834              |            |                 | VFO835              |            |            |                 |
| <b>Sampling Date</b>     |              | 2023/03/03<br>11:40 | 2023/03/03<br>11:40          |            |            |                 | 2023/03/03<br>11:55 |            |                 | 2023/03/03<br>12:40 |            |            |                 |
|                          | <b>UNITS</b> | <b>BH/MW 8/2</b>    | <b>BH/MW 8/2<br/>Lab-Dup</b> | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> | <b>BH/MW 8/3</b>    | <b>MDL</b> | <b>QC Batch</b> | <b>BH 9/1</b>       | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |

|                                   |    |    |    |     |      |         |      |  |         |    |     |      |         |
|-----------------------------------|----|----|----|-----|------|---------|------|--|---------|----|-----|------|---------|
| <b>Inorganics</b>                 |    |    |    |     |      |         |      |  |         |    |     |      |         |
| Moisture                          | %  | 20 | 20 | 1.0 | 0.50 | 8543296 |      |  |         | 22 | 1.0 | 0.50 | 8544600 |
| Available (CaCl <sub>2</sub> ) pH | pH |    |    |     |      |         | 7.74 |  | 8545471 |    |     |      |         |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

### RESULTS OF ANALYSES OF SOIL

|                          |              |                           |                 |                     |                     |                 |                     |                 |                     |            |            |                 |
|--------------------------|--------------|---------------------------|-----------------|---------------------|---------------------|-----------------|---------------------|-----------------|---------------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b> |              | VFO835                    |                 | VFO836              | VFO837              |                 | VFO838              |                 | VFO839              |            |            |                 |
| <b>Sampling Date</b>     |              | 2023/03/03<br>12:40       |                 | 2023/03/03<br>12:55 | 2023/03/03<br>13:45 |                 | 2023/03/03<br>15:10 |                 | 2023/03/03<br>15:25 |            |            |                 |
|                          | <b>UNITS</b> | <b>BH 9/1<br/>Lab-Dup</b> | <b>QC Batch</b> | <b>BH 9/2</b>       | <b>BH 10/1</b>      | <b>QC Batch</b> | <b>BH 11/1</b>      | <b>QC Batch</b> | <b>BH 11/2</b>      | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |

|                   |   |    |         |    |    |         |    |         |    |     |      |         |
|-------------------|---|----|---------|----|----|---------|----|---------|----|-----|------|---------|
| <b>Inorganics</b> |   |    |         |    |    |         |    |         |    |     |      |         |
| Moisture          | % | 20 | 8544600 | 15 | 22 | 8543296 | 18 | 8544600 | 20 | 1.0 | 0.50 | 8543296 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

|                          |              |                     |                     |                     |                     |                 |                     |            |            |                 |
|--------------------------|--------------|---------------------|---------------------|---------------------|---------------------|-----------------|---------------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b> |              | VFO840              | VFO841              | VFO842              | VFO843              |                 | VFO844              |            |            |                 |
| <b>Sampling Date</b>     |              | 2023/03/06<br>11:30 | 2023/03/06<br>11:50 | 2023/03/06<br>12:10 | 2023/03/06<br>13:05 |                 | 2023/03/06<br>13:50 |            |            |                 |
|                          | <b>UNITS</b> | <b>TP1</b>          | <b>TP2</b>          | <b>TP3</b>          | <b>TP4</b>          | <b>QC Batch</b> | <b>TP5</b>          | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |

|                   |   |    |    |    |    |         |    |     |      |         |
|-------------------|---|----|----|----|----|---------|----|-----|------|---------|
| <b>Inorganics</b> |   |    |    |    |    |         |    |     |      |         |
| Moisture          | % | 13 | 25 | 21 | 20 | 8544043 | 25 | 1.0 | 0.50 | 8543296 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

|                          |              |                     |                 |              |                 |              |              |            |            |                 |
|--------------------------|--------------|---------------------|-----------------|--------------|-----------------|--------------|--------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b> |              | VFO845              |                 | VFO846       |                 | VFO847       | VFO848       |            |            |                 |
| <b>Sampling Date</b>     |              | 2023/03/06<br>14:15 |                 | 2023/03/03   |                 | 2023/03/03   | 2023/03/06   |            |            |                 |
|                          | <b>UNITS</b> | <b>TP6</b>          | <b>QC Batch</b> | <b>DUPS1</b> | <b>QC Batch</b> | <b>DUPS2</b> | <b>DUPS3</b> | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |

|                   |   |    |         |    |         |    |    |     |      |         |
|-------------------|---|----|---------|----|---------|----|----|-----|------|---------|
| <b>Inorganics</b> |   |    |         |    |         |    |    |     |      |         |
| Moisture          | % | 24 | 8544043 | 19 | 8544600 | 20 | 15 | 1.0 | 0.50 | 8544043 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

## TEST SUMMARY

**Bureau Veritas ID:** VFO825  
**Sample ID:** BH/MW 5/4  
**Matrix:** Soil

**Collected:** 2023/03/06  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                     | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst           |
|--------------------------------------|-----------------|---------|------------|---------------|-------------------|
| Methylnaphthalene Sum                | CALC            | 8540213 | N/A        | 2023/03/10    | Automated Statchk |
| Acid Extractable Metals by ICPMS     | ICP/MS          | 8545236 | 2023/03/10 | 2023/03/10    | Azita Fazaali     |
| Moisture                             | BAL             | 8544043 | N/A        | 2023/03/09    | Simrat Bhathal    |
| PAH Compounds in Soil by GC/MS (SIM) | GC/MS           | 8543936 | 2023/03/09 | 2023/03/10    | Mitesh Raj        |
| pH CaCl <sub>2</sub> EXTRACT         | AT              | 8545401 | 2023/03/10 | 2023/03/10    | Taslina Aktar     |

**Bureau Veritas ID:** VFO826  
**Sample ID:** BH/MW 5/5  
**Matrix:** Soil

**Collected:** 2023/03/06  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                       | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst           |
|----------------------------------------|-----------------|---------|------------|---------------|-------------------|
| 1,3-Dichloropropene Sum                | CALC            | 8540311 | N/A        | 2023/03/13    | Automated Statchk |
| Petroleum Hydrocarbons F2-F4 in Soil   | GC/FID          | 8543906 | 2023/03/09 | 2023/03/09    | Emir Danisman     |
| Moisture                               | BAL             | 8544043 | N/A        | 2023/03/09    | Simrat Bhathal    |
| Volatile Organic Compounds and F1 PHCs | GC/MSFD         | 8543322 | N/A        | 2023/03/10    | Jett Wu           |

**Bureau Veritas ID:** VFO827  
**Sample ID:** BH 6/1  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst           |
|---------------------------------|-----------------|---------|------------|---------------|-------------------|
| Moisture                        | BAL             | 8544600 | N/A        | 2023/03/09    | Rajkumar Patel    |
| OC Pesticides (Selected) & PCB  | GC/ECD          | 8551240 | 2023/03/14 | 2023/03/15    | Li Peng           |
| OC Pesticides Summed Parameters | CALC            | 8540721 | N/A        | 2023/03/10    | Automated Statchk |

**Bureau Veritas ID:** VFO828  
**Sample ID:** BH 6/2  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|-----------------------------------|-----------------|---------|------------|---------------|---------------------|
| Free (WAD) Cyanide                | TECH            | 8545201 | 2023/03/10 | 2023/03/10    | Kruti Jitesh Patel  |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 8545384 | 2023/03/10 | 2023/03/10    | Surleen Kaur Romana |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 8545236 | 2023/03/10 | 2023/03/10    | Azita Fazaali       |
| Moisture                          | BAL             | 8543296 | N/A        | 2023/03/09    | Simrat Bhathal      |
| pH CaCl <sub>2</sub> EXTRACT      | AT              | 8545471 | 2023/03/10 | 2023/03/10    | Taslina Aktar       |

**Bureau Veritas ID:** VFO829  
**Sample ID:** BH/MW 7/1  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst           |
|---------------------------------|-----------------|---------|------------|---------------|-------------------|
| Moisture                        | BAL             | 8544600 | N/A        | 2023/03/09    | Rajkumar Patel    |
| OC Pesticides (Selected) & PCB  | GC/ECD          | 8551240 | 2023/03/14 | 2023/03/15    | Li Peng           |
| OC Pesticides Summed Parameters | CALC            | 8540721 | N/A        | 2023/03/10    | Automated Statchk |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

## TEST SUMMARY

**Bureau Veritas ID:** VFO830  
**Sample ID:** BH/MW 7/2  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst            |
|-----------------------------------|-----------------|---------|------------|---------------|--------------------|
| Free (WAD) Cyanide                | TECH            | 8545201 | 2023/03/10 | 2023/03/10    | Kruti Jitesh Patel |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 8545390 | 2023/03/10 | 2023/03/13    | Sousan Besharatlou |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 8545799 | 2023/03/10 | 2023/03/10    | Azita Fazaeli      |
| Moisture                          | BAL             | 8544043 | N/A        | 2023/03/09    | Simrat Bhathal     |

**Bureau Veritas ID:** VFO831  
**Sample ID:** BH/MW 7/4  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst       |
|------------------|-----------------|---------|------------|---------------|---------------|
| pH CaCl2 EXTRACT | AT              | 8545471 | 2023/03/10 | 2023/03/10    | Taslina Aktar |

**Bureau Veritas ID:** VFO832  
**Sample ID:** BH/MW 8/1  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst           |
|---------------------------------|-----------------|---------|------------|---------------|-------------------|
| Moisture                        | BAL             | 8544600 | N/A        | 2023/03/09    | Rajkumar Patel    |
| OC Pesticides (Selected) & PCB  | GC/ECD          | 8551240 | 2023/03/14 | 2023/03/15    | Li Peng           |
| OC Pesticides Summed Parameters | CALC            | 8540721 | N/A        | 2023/03/10    | Automated Statchk |

**Bureau Veritas ID:** VFO833  
**Sample ID:** BH/MW 8/2  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|-----------------------------------|-----------------|---------|------------|---------------|---------------------|
| Free (WAD) Cyanide                | TECH            | 8545201 | 2023/03/10 | 2023/03/10    | Kruti Jitesh Patel  |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 8545384 | 2023/03/10 | 2023/03/10    | Surleen Kaur Romana |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 8545236 | 2023/03/10 | 2023/03/10    | Azita Fazaeli       |
| Moisture                          | BAL             | 8543296 | N/A        | 2023/03/09    | Simrat Bhathal      |

**Bureau Veritas ID:** VFO833 Dup  
**Sample ID:** BH/MW 8/2  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                 | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst        |
|----------------------------------|-----------------|---------|------------|---------------|----------------|
| Acid Extractable Metals by ICPMS | ICP/MS          | 8545236 | 2023/03/10 | 2023/03/10    | Azita Fazaeli  |
| Moisture                         | BAL             | 8543296 | N/A        | 2023/03/09    | Simrat Bhathal |

**Bureau Veritas ID:** VFO834  
**Sample ID:** BH/MW 8/3  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst       |
|------------------|-----------------|---------|------------|---------------|---------------|
| pH CaCl2 EXTRACT | AT              | 8545471 | 2023/03/10 | 2023/03/10    | Taslina Aktar |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

## TEST SUMMARY

**Bureau Veritas ID:** VFO835  
**Sample ID:** BH 9/1  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst           |
|---------------------------------|-----------------|---------|------------|---------------|-------------------|
| Moisture                        | BAL             | 8544600 | N/A        | 2023/03/09    | Rajkumar Patel    |
| OC Pesticides (Selected) & PCB  | GC/ECD          | 8551240 | 2023/03/14 | 2023/03/15    | Li Peng           |
| OC Pesticides Summed Parameters | CALC            | 8540721 | N/A        | 2023/03/10    | Automated Statchk |

**Bureau Veritas ID:** VFO835 Dup  
**Sample ID:** BH 9/1  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description | Instrumentation | Batch   | Extracted | Date Analyzed | Analyst        |
|------------------|-----------------|---------|-----------|---------------|----------------|
| Moisture         | BAL             | 8544600 | N/A       | 2023/03/09    | Rajkumar Patel |

**Bureau Veritas ID:** VFO836  
**Sample ID:** BH 9/2  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|-----------------------------------|-----------------|---------|------------|---------------|---------------------|
| Free (WAD) Cyanide                | TECH            | 8545201 | 2023/03/10 | 2023/03/10    | Kruti Jitesh Patel  |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 8545384 | 2023/03/10 | 2023/03/10    | Surleen Kaur Romana |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 8545236 | 2023/03/10 | 2023/03/10    | Azita Fazaali       |
| Moisture                          | BAL             | 8543296 | N/A        | 2023/03/09    | Simrat Bhathal      |
| pH CaCl2 EXTRACT                  | AT              | 8545471 | 2023/03/10 | 2023/03/10    | Taslima Aktar       |

**Bureau Veritas ID:** VFO836 Dup  
**Sample ID:** BH 9/2  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst       |
|------------------|-----------------|---------|------------|---------------|---------------|
| pH CaCl2 EXTRACT | AT              | 8545471 | 2023/03/10 | 2023/03/10    | Taslima Aktar |

**Bureau Veritas ID:** VFO837  
**Sample ID:** BH 10/1  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|-----------------------------------|-----------------|---------|------------|---------------|---------------------|
| Free (WAD) Cyanide                | TECH            | 8545201 | 2023/03/10 | 2023/03/10    | Kruti Jitesh Patel  |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 8545384 | 2023/03/10 | 2023/03/10    | Surleen Kaur Romana |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 8545236 | 2023/03/10 | 2023/03/10    | Azita Fazaali       |
| Moisture                          | BAL             | 8543296 | N/A        | 2023/03/09    | Simrat Bhathal      |
| OC Pesticides (Selected) & PCB    | GC/ECD          | 8549305 | 2023/03/13 | 2023/03/14    | Li Peng             |
| OC Pesticides Summed Parameters   | CALC            | 8540721 | N/A        | 2023/03/10    | Automated Statchk   |
| pH CaCl2 EXTRACT                  | AT              | 8545401 | 2023/03/10 | 2023/03/10    | Taslima Aktar       |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

## TEST SUMMARY

**Bureau Veritas ID:** VFO838  
**Sample ID:** BH 11/1  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst           |
|---------------------------------|-----------------|---------|------------|---------------|-------------------|
| Moisture                        | BAL             | 8544600 | N/A        | 2023/03/09    | Rajkumar Patel    |
| OC Pesticides (Selected) & PCB  | GC/ECD          | 8551240 | 2023/03/14 | 2023/03/15    | Li Peng           |
| OC Pesticides Summed Parameters | CALC            | 8540721 | N/A        | 2023/03/10    | Automated Statchk |

**Bureau Veritas ID:** VFO839  
**Sample ID:** BH 11/2  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|-----------------------------------|-----------------|---------|------------|---------------|---------------------|
| Free (WAD) Cyanide                | TECH            | 8545201 | 2023/03/10 | 2023/03/10    | Kruti Jitesh Patel  |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 8545384 | 2023/03/10 | 2023/03/10    | Surleen Kaur Romana |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 8545236 | 2023/03/10 | 2023/03/10    | Azita Fazaeli       |
| Moisture                          | BAL             | 8543296 | N/A        | 2023/03/09    | Simrat Bhathal      |
| pH CaCl2 EXTRACT                  | AT              | 8545401 | 2023/03/10 | 2023/03/10    | Taslina Aktar       |

**Bureau Veritas ID:** VFO840  
**Sample ID:** TP1  
**Matrix:** Soil

**Collected:** 2023/03/06  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                        | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst            |
|-----------------------------------------|-----------------|---------|------------|---------------|--------------------|
| Petroleum Hydro. CCME F1 & BTEX in Soil | HSGC/MSFD       | 8545247 | N/A        | 2023/03/10    | Domnica Andronesco |
| Petroleum Hydrocarbons F2-F4 in Soil    | GC/FID          | 8543906 | 2023/03/09 | 2023/03/10    | Emir Danisman      |
| Acid Extractable Metals by ICPMS        | ICP/MS          | 8545799 | 2023/03/10 | 2023/03/10    | Azita Fazaeli      |
| Moisture                                | BAL             | 8544043 | N/A        | 2023/03/09    | Simrat Bhathal     |

**Bureau Veritas ID:** VFO841  
**Sample ID:** TP2  
**Matrix:** Soil

**Collected:** 2023/03/06  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                        | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst            |
|-----------------------------------------|-----------------|---------|------------|---------------|--------------------|
| Petroleum Hydro. CCME F1 & BTEX in Soil | HSGC/MSFD       | 8545247 | N/A        | 2023/03/10    | Domnica Andronesco |
| Petroleum Hydrocarbons F2-F4 in Soil    | GC/FID          | 8543906 | 2023/03/09 | 2023/03/10    | Emir Danisman      |
| Acid Extractable Metals by ICPMS        | ICP/MS          | 8545799 | 2023/03/10 | 2023/03/10    | Azita Fazaeli      |
| Moisture                                | BAL             | 8544043 | N/A        | 2023/03/09    | Simrat Bhathal     |

**Bureau Veritas ID:** VFO842  
**Sample ID:** TP3  
**Matrix:** Soil

**Collected:** 2023/03/06  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                     | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst           |
|--------------------------------------|-----------------|---------|------------|---------------|-------------------|
| Methylnaphthalene Sum                | CALC            | 8540213 | N/A        | 2023/03/10    | Automated Statchk |
| 1,3-Dichloropropene Sum              | CALC            | 8540311 | N/A        | 2023/03/13    | Automated Statchk |
| Petroleum Hydrocarbons F2-F4 in Soil | GC/FID          | 8543906 | 2023/03/09 | 2023/03/10    | Emir Danisman     |
| Acid Extractable Metals by ICPMS     | ICP/MS          | 8545205 | 2023/03/10 | 2023/03/10    | Indira HarryPaul  |
| Moisture                             | BAL             | 8544043 | N/A        | 2023/03/09    | Simrat Bhathal    |
| PAH Compounds in Soil by GC/MS (SIM) | GC/MS           | 8543936 | 2023/03/09 | 2023/03/10    | Mitesh Raj        |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

## TEST SUMMARY

**Bureau Veritas ID:** VFO842  
**Sample ID:** TP3  
**Matrix:** Soil

**Collected:** 2023/03/06  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                       | Instrumentation | Batch   | Extracted | Date Analyzed | Analyst |
|----------------------------------------|-----------------|---------|-----------|---------------|---------|
| Volatile Organic Compounds and F1 PHCs | GC/MSFD         | 8543322 | N/A       | 2023/03/10    | Jett Wu |

**Bureau Veritas ID:** VFO843  
**Sample ID:** TP4  
**Matrix:** Soil

**Collected:** 2023/03/06  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                        | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst            |
|-----------------------------------------|-----------------|---------|------------|---------------|--------------------|
| Petroleum Hydro. CCME F1 & BTEX in Soil | HSGC/MSFD       | 8545247 | N/A        | 2023/03/10    | Domnica Andronesco |
| Petroleum Hydrocarbons F2-F4 in Soil    | GC/FID          | 8543906 | 2023/03/09 | 2023/03/10    | Emir Danisman      |
| Acid Extractable Metals by ICPMS        | ICP/MS          | 8545205 | 2023/03/10 | 2023/03/10    | Indira HarryPaul   |
| Moisture                                | BAL             | 8544043 | N/A        | 2023/03/09    | Simrat Bhathal     |

**Bureau Veritas ID:** VFO844  
**Sample ID:** TP5  
**Matrix:** Soil

**Collected:** 2023/03/06  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|-----------------------------------|-----------------|---------|------------|---------------|---------------------|
| Free (WAD) Cyanide                | TECH            | 8545201 | 2023/03/10 | 2023/03/10    | Kruti Jitesh Patel  |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 8545384 | 2023/03/10 | 2023/03/10    | Surleen Kaur Romana |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 8545236 | 2023/03/10 | 2023/03/10    | Azita Fazaeli       |
| Moisture                          | BAL             | 8543296 | N/A        | 2023/03/09    | Simrat Bhathal      |
| OC Pesticides (Selected) & PCB    | GC/ECD          | 8549305 | 2023/03/13 | 2023/03/14    | Li Peng             |
| OC Pesticides Summed Parameters   | CALC            | 8540721 | N/A        | 2023/03/10    | Automated Statchk   |
| pH CaCl2 EXTRACT                  | AT              | 8545401 | 2023/03/10 | 2023/03/10    | Taslina Aktar       |

**Bureau Veritas ID:** VFO845  
**Sample ID:** TP6  
**Matrix:** Soil

**Collected:** 2023/03/06  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst            |
|-----------------------------------|-----------------|---------|------------|---------------|--------------------|
| Free (WAD) Cyanide                | TECH            | 8545201 | 2023/03/10 | 2023/03/10    | Kruti Jitesh Patel |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 8545390 | 2023/03/10 | 2023/03/13    | Sousan Besharatlou |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 8545799 | 2023/03/10 | 2023/03/10    | Azita Fazaeli      |
| Moisture                          | BAL             | 8544043 | N/A        | 2023/03/09    | Simrat Bhathal     |
| OC Pesticides (Selected) & PCB    | GC/ECD          | 8549305 | 2023/03/13 | 2023/03/14    | Li Peng            |
| OC Pesticides Summed Parameters   | CALC            | 8540721 | N/A        | 2023/03/10    | Automated Statchk  |
| pH CaCl2 EXTRACT                  | AT              | 8545401 | 2023/03/10 | 2023/03/10    | Taslina Aktar      |

**Bureau Veritas ID:** VFO845 Dup  
**Sample ID:** TP6  
**Matrix:** Soil

**Collected:** 2023/03/06  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst            |
|-----------------------------------|-----------------|---------|------------|---------------|--------------------|
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 8545390 | 2023/03/10 | 2023/03/13    | Sousan Besharatlou |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

## TEST SUMMARY

**Bureau Veritas ID:** VFO846  
**Sample ID:** DUPS1  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst           |
|---------------------------------|-----------------|---------|------------|---------------|-------------------|
| Moisture                        | BAL             | 8544600 | N/A        | 2023/03/09    | Rajkumar Patel    |
| OC Pesticides (Selected) & PCB  | GC/ECD          | 8551240 | 2023/03/14 | 2023/03/15    | Li Peng           |
| OC Pesticides Summed Parameters | CALC            | 8540721 | N/A        | 2023/03/10    | Automated Statchk |

**Bureau Veritas ID:** VFO847  
**Sample ID:** DUPS2  
**Matrix:** Soil

**Collected:** 2023/03/03  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst            |
|-----------------------------------|-----------------|---------|------------|---------------|--------------------|
| Free (WAD) Cyanide                | TECH            | 8545201 | 2023/03/10 | 2023/03/10    | Kruti Jitesh Patel |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 8545390 | 2023/03/10 | 2023/03/13    | Sousan Besharatlou |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 8545799 | 2023/03/10 | 2023/03/10    | Azita Fazaeli      |
| Moisture                          | BAL             | 8544043 | N/A        | 2023/03/09    | Simrat Bhathal     |
| pH CaCl2 EXTRACT                  | AT              | 8545492 | 2023/03/10 | 2023/03/10    | Taslina Aktar      |

**Bureau Veritas ID:** VFO848  
**Sample ID:** DUPS3  
**Matrix:** Soil

**Collected:** 2023/03/06  
**Shipped:**  
**Received:** 2023/03/07

| Test Description                        | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst            |
|-----------------------------------------|-----------------|---------|------------|---------------|--------------------|
| Petroleum Hydro. CCME F1 & BTEX in Soil | HSGC/MSFD       | 8545247 | N/A        | 2023/03/10    | Domnica Andronescu |
| Petroleum Hydrocarbons F2-F4 in Soil    | GC/FID          | 8543906 | 2023/03/09 | 2023/03/10    | Emir Danisman      |
| Moisture                                | BAL             | 8544043 | N/A        | 2023/03/09    | Simrat Bhathal     |



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

#### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

|           |       |
|-----------|-------|
| Package 1 | 0.7°C |
|-----------|-------|

#### O.REG 153 OC PESTICIDES (SOIL)

OC Pesticides (Selected) & PCB: The recovery was above the upper control limit. This may represent a high bias in some results for flagged analytes. For results that were not detected (ND), this potential bias has no impact.

**Results relate only to the items tested.**



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

## QUALITY ASSURANCE REPORT

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

| QC Batch | Parameter                    | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                              |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 8543322  | 4-Bromofluorobenzene         | 2023/03/10 | 90           | 60 - 140  | 90           | 60 - 140  | 74           | %     |           |           |
| 8543322  | D10-o-Xylene                 | 2023/03/10 | 94           | 60 - 130  | 96           | 60 - 130  | 79           | %     |           |           |
| 8543322  | D4-1,2-Dichloroethane        | 2023/03/10 | 101          | 60 - 140  | 107          | 60 - 140  | 107          | %     |           |           |
| 8543322  | D8-Toluene                   | 2023/03/10 | 110          | 60 - 140  | 108          | 60 - 140  | 101          | %     |           |           |
| 8543906  | o-Terphenyl                  | 2023/03/09 | 99           | 60 - 130  | 99           | 60 - 130  | 102          | %     |           |           |
| 8543936  | D10-Anthracene               | 2023/03/10 | 94           | 50 - 130  | 112          | 50 - 130  | 110          | %     |           |           |
| 8543936  | D14-Terphenyl (FS)           | 2023/03/10 | 91           | 50 - 130  | 101          | 50 - 130  | 95           | %     |           |           |
| 8543936  | D8-Acenaphthylene            | 2023/03/10 | 97           | 50 - 130  | 107          | 50 - 130  | 100          | %     |           |           |
| 8545247  | 1,4-Difluorobenzene          | 2023/03/10 | 90           | 60 - 140  | 94           | 60 - 140  | 97           | %     |           |           |
| 8545247  | 4-Bromofluorobenzene         | 2023/03/10 | 118          | 60 - 140  | 109          | 60 - 140  | 103          | %     |           |           |
| 8545247  | D10-o-Xylene                 | 2023/03/10 | 103          | 60 - 140  | 94           | 60 - 140  | 90           | %     |           |           |
| 8545247  | D4-1,2-Dichloroethane        | 2023/03/10 | 92           | 60 - 140  | 99           | 60 - 140  | 100          | %     |           |           |
| 8549305  | 2,4,5,6-Tetrachloro-m-xylene | 2023/03/14 | 76           | 50 - 130  | 84           | 50 - 130  | 79           | %     |           |           |
| 8549305  | Decachlorobiphenyl           | 2023/03/14 | 96           | 50 - 130  | 106          | 50 - 130  | 114          | %     |           |           |
| 8551240  | 2,4,5,6-Tetrachloro-m-xylene | 2023/03/15 | 109          | 50 - 130  | 80           | 50 - 130  | 77           | %     |           |           |
| 8551240  | Decachlorobiphenyl           | 2023/03/15 | 121          | 50 - 130  | 95           | 50 - 130  | 103          | %     |           |           |
| 8543296  | Moisture                     | 2023/03/09 |              |           |              |           |              |       | 2.0       | 20        |
| 8543322  | 1,1,1,2-Tetrachloroethane    | 2023/03/10 | 103          | 60 - 140  | 105          | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | 1,1,1-Trichloroethane        | 2023/03/10 | 104          | 60 - 140  | 102          | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | 1,1,2,2-Tetrachloroethane    | 2023/03/10 | 93           | 60 - 140  | 102          | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | 1,1,2-Trichloroethane        | 2023/03/10 | 102          | 60 - 140  | 110          | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | 1,1-Dichloroethane           | 2023/03/10 | 104          | 60 - 140  | 105          | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | 1,1-Dichloroethylene         | 2023/03/10 | 102          | 60 - 140  | 99           | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | 1,2-Dichlorobenzene          | 2023/03/10 | 98           | 60 - 140  | 99           | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | 1,2-Dichloroethane           | 2023/03/10 | 89           | 60 - 140  | 95           | 60 - 130  | <0.049       | ug/g  |           |           |
| 8543322  | 1,2-Dichloropropane          | 2023/03/10 | 101          | 60 - 140  | 104          | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | 1,3-Dichlorobenzene          | 2023/03/10 | 101          | 60 - 140  | 100          | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | 1,4-Dichlorobenzene          | 2023/03/10 | 108          | 60 - 140  | 107          | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | Acetone (2-Propanone)        | 2023/03/10 | 93           | 60 - 140  | 100          | 60 - 140  | <0.49        | ug/g  |           |           |
| 8543322  | Benzene                      | 2023/03/10 | 95           | 60 - 140  | 96           | 60 - 130  | <0.0060      | ug/g  | NC        | 50        |
| 8543322  | Bromodichloromethane         | 2023/03/10 | 99           | 60 - 140  | 103          | 60 - 130  | <0.040       | ug/g  |           |           |

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll Free: 1-800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

### QUALITY ASSURANCE REPORT(CONT'D)

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

| QC Batch | Parameter                           | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|-------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                                     |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 8543322  | Bromoform                           | 2023/03/10 | 90           | 60 - 140  | 97           | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | Bromomethane                        | 2023/03/10 | 100          | 60 - 140  | 101          | 60 - 140  | <0.040       | ug/g  |           |           |
| 8543322  | Carbon Tetrachloride                | 2023/03/10 | 103          | 60 - 140  | 101          | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | Chlorobenzene                       | 2023/03/10 | 97           | 60 - 140  | 97           | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | Chloroform                          | 2023/03/10 | 96           | 60 - 140  | 98           | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | cis-1,2-Dichloroethylene            | 2023/03/10 | 95           | 60 - 140  | 97           | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | cis-1,3-Dichloropropene             | 2023/03/10 | 94           | 60 - 140  | 97           | 60 - 130  | <0.030       | ug/g  |           |           |
| 8543322  | Dibromochloromethane                | 2023/03/10 | 93           | 60 - 140  | 98           | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | Dichlorodifluoromethane (FREON 12)  | 2023/03/10 | 101          | 60 - 140  | 99           | 60 - 140  | <0.040       | ug/g  |           |           |
| 8543322  | Ethylbenzene                        | 2023/03/10 | 87           | 60 - 140  | 86           | 60 - 130  | <0.010       | ug/g  | NC        | 50        |
| 8543322  | Ethylene Dibromide                  | 2023/03/10 | 88           | 60 - 140  | 94           | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | F1 (C6-C10) - BTEX                  | 2023/03/10 |              |           |              |           | <10          | ug/g  | NC        | 30        |
| 8543322  | F1 (C6-C10)                         | 2023/03/10 | 94           | 60 - 140  | 87           | 80 - 120  | <10          | ug/g  | NC        | 30        |
| 8543322  | Hexane                              | 2023/03/10 | 110          | 60 - 140  | 107          | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | Methyl Ethyl Ketone (2-Butanone)    | 2023/03/10 | 91           | 60 - 140  | 101          | 60 - 140  | <0.40        | ug/g  |           |           |
| 8543322  | Methyl Isobutyl Ketone              | 2023/03/10 | 86           | 60 - 140  | 98           | 60 - 130  | <0.40        | ug/g  |           |           |
| 8543322  | Methyl t-butyl ether (MTBE)         | 2023/03/10 | 79           | 60 - 140  | 83           | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | Methylene Chloride(Dichloromethane) | 2023/03/10 | 103          | 60 - 140  | 107          | 60 - 130  | <0.049       | ug/g  |           |           |
| 8543322  | o-Xylene                            | 2023/03/10 | 89           | 60 - 140  | 88           | 60 - 130  | <0.020       | ug/g  | NC        | 50        |
| 8543322  | p+m-Xylene                          | 2023/03/10 | 89           | 60 - 140  | 87           | 60 - 130  | <0.020       | ug/g  | NC        | 50        |
| 8543322  | Styrene                             | 2023/03/10 | 90           | 60 - 140  | 94           | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | Tetrachloroethylene                 | 2023/03/10 | 95           | 60 - 140  | 93           | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | Toluene                             | 2023/03/10 | 96           | 60 - 140  | 96           | 60 - 130  | <0.020       | ug/g  | NC        | 50        |
| 8543322  | Total Xylenes                       | 2023/03/10 |              |           |              |           | <0.020       | ug/g  | NC        | 50        |
| 8543322  | trans-1,2-Dichloroethylene          | 2023/03/10 | 102          | 60 - 140  | 101          | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | trans-1,3-Dichloropropene           | 2023/03/10 | 105          | 60 - 140  | 108          | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | Trichloroethylene                   | 2023/03/10 | 98           | 60 - 140  | 98           | 60 - 130  | <0.010       | ug/g  |           |           |
| 8543322  | Trichlorofluoromethane (FREON 11)   | 2023/03/10 | 99           | 60 - 140  | 96           | 60 - 130  | <0.040       | ug/g  |           |           |
| 8543322  | Vinyl Chloride                      | 2023/03/10 | 96           | 60 - 140  | 94           | 60 - 130  | <0.019       | ug/g  |           |           |
| 8543906  | F2 (C10-C16 Hydrocarbons)           | 2023/03/10 | 110          | 60 - 130  | 107          | 80 - 120  | <10          | ug/g  | NC        | 30        |
| 8543906  | F3 (C16-C34 Hydrocarbons)           | 2023/03/10 | 109          | 60 - 130  | 107          | 80 - 120  | <50          | ug/g  | 14        | 30        |

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Microbiology testing is conducted at 6660 Campbell Rd. Chemistry testing is conducted at 6740 Campbell Rd.



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

## QUALITY ASSURANCE REPORT(CONT'D)

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

| QC Batch | Parameter                       | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|---------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                                 |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 8543906  | F4 (C34-C50 Hydrocarbons)       | 2023/03/10 | 109          | 60 - 130  | 107          | 80 - 120  | <50          | ug/g  | 1.5       | 30        |
| 8543936  | 1-Methylnaphthalene             | 2023/03/10 | 93           | 50 - 130  | 87           | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 8543936  | 2-Methylnaphthalene             | 2023/03/10 | 92           | 50 - 130  | 83           | 50 - 130  | <0.0050      | ug/g  | 21        | 40        |
| 8543936  | Acenaphthene                    | 2023/03/10 | 152 (1)      | 50 - 130  | 100          | 50 - 130  | <0.0050      | ug/g  | 88 (1)    | 40        |
| 8543936  | Acenaphthylene                  | 2023/03/10 | 113          | 50 - 130  | 115          | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 8543936  | Anthracene                      | 2023/03/10 | 111          | 50 - 130  | 114          | 50 - 130  | <0.0050      | ug/g  | 61 (1)    | 40        |
| 8543936  | Benzo(a)anthracene              | 2023/03/10 | 104          | 50 - 130  | 104          | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 8543936  | Benzo(a)pyrene                  | 2023/03/10 | 94           | 50 - 130  | 94           | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 8543936  | Benzo(b,j)fluoranthene          | 2023/03/10 | 88           | 50 - 130  | 91           | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 8543936  | Benzo(g,h,i)perylene            | 2023/03/10 | 83           | 50 - 130  | 86           | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 8543936  | Benzo(k)fluoranthene            | 2023/03/10 | 93           | 50 - 130  | 91           | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 8543936  | Chrysene                        | 2023/03/10 | 102          | 50 - 130  | 103          | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 8543936  | Dibenzo(a,h)anthracene          | 2023/03/10 | 83           | 50 - 130  | 80           | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 8543936  | Fluoranthene                    | 2023/03/10 | 103          | 50 - 130  | 103          | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 8543936  | Fluorene                        | 2023/03/10 | 118          | 50 - 130  | 108          | 50 - 130  | <0.0050      | ug/g  | NC (2)    | 40        |
| 8543936  | Indeno(1,2,3-cd)pyrene          | 2023/03/10 | 90           | 50 - 130  | 91           | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 8543936  | Naphthalene                     | 2023/03/10 | 88           | 50 - 130  | 85           | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 8543936  | Phenanthrene                    | 2023/03/10 | 107          | 50 - 130  | 99           | 50 - 130  | <0.0050      | ug/g  | 53 (1)    | 40        |
| 8543936  | Pyrene                          | 2023/03/10 | 103          | 50 - 130  | 107          | 50 - 130  | <0.0050      | ug/g  | 81 (1)    | 40        |
| 8544043  | Moisture                        | 2023/03/09 |              |           |              |           |              |       | 0         | 20        |
| 8544600  | Moisture                        | 2023/03/09 |              |           |              |           |              |       | 9.1       | 20        |
| 8545201  | WAD Cyanide (Free)              | 2023/03/10 | 106          | 75 - 125  | 104          | 80 - 120  | <0.01        | ug/g  | NC        | 35        |
| 8545205  | Acid Extractable Antimony (Sb)  | 2023/03/10 | 92           | 75 - 125  | 100          | 80 - 120  | <0.20        | ug/g  | NC        | 30        |
| 8545205  | Acid Extractable Arsenic (As)   | 2023/03/10 | 93           | 75 - 125  | 100          | 80 - 120  | <1.0         | ug/g  | NC        | 30        |
| 8545205  | Acid Extractable Barium (Ba)    | 2023/03/10 | 84           | 75 - 125  | 97           | 80 - 120  | <0.50        | ug/g  | 11        | 30        |
| 8545205  | Acid Extractable Beryllium (Be) | 2023/03/10 | 89           | 75 - 125  | 95           | 80 - 120  | <0.20        | ug/g  | NC        | 30        |
| 8545205  | Acid Extractable Boron (B)      | 2023/03/10 | 88           | 75 - 125  | 100          | 80 - 120  | <5.0         | ug/g  | NC        | 30        |
| 8545205  | Acid Extractable Cadmium (Cd)   | 2023/03/10 | 89           | 75 - 125  | 95           | 80 - 120  | <0.10        | ug/g  | NC        | 30        |
| 8545205  | Acid Extractable Chromium (Cr)  | 2023/03/10 | 91           | 75 - 125  | 99           | 80 - 120  | <1.0         | ug/g  | 0.73      | 30        |
| 8545205  | Acid Extractable Cobalt (Co)    | 2023/03/10 | 91           | 75 - 125  | 99           | 80 - 120  | <0.10        | ug/g  | 6.7       | 30        |
| 8545205  | Acid Extractable Copper (Cu)    | 2023/03/10 | 90           | 75 - 125  | 100          | 80 - 120  | <0.50        | ug/g  | 0.10      | 30        |

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.



BUREAU  
VERITAS  
Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

## QUALITY ASSURANCE REPORT(CONT'D)

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

| QC Batch | Parameter                        | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|----------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                                  |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 8545205  | Acid Extractable Lead (Pb)       | 2023/03/10 | 91           | 75 - 125  | 103          | 80 - 120  | <1.0         | ug/g  | 2.1       | 30        |
| 8545205  | Acid Extractable Mercury (Hg)    | 2023/03/10 | 93           | 75 - 125  | 107          | 80 - 120  | <0.050       | ug/g  | NC        | 30        |
| 8545205  | Acid Extractable Molybdenum (Mo) | 2023/03/10 | 92           | 75 - 125  | 98           | 80 - 120  | <0.50        | ug/g  | NC        | 30        |
| 8545205  | Acid Extractable Nickel (Ni)     | 2023/03/10 | 90           | 75 - 125  | 99           | 80 - 120  | <0.50        | ug/g  | 2.0       | 30        |
| 8545205  | Acid Extractable Selenium (Se)   | 2023/03/10 | 94           | 75 - 125  | 103          | 80 - 120  | <0.50        | ug/g  | NC        | 30        |
| 8545205  | Acid Extractable Silver (Ag)     | 2023/03/10 | 91           | 75 - 125  | 100          | 80 - 120  | <0.20        | ug/g  | NC        | 30        |
| 8545205  | Acid Extractable Thallium (Tl)   | 2023/03/10 | 90           | 75 - 125  | 101          | 80 - 120  | <0.050       | ug/g  | NC        | 30        |
| 8545205  | Acid Extractable Uranium (U)     | 2023/03/10 | 92           | 75 - 125  | 103          | 80 - 120  | <0.050       | ug/g  | 17        | 30        |
| 8545205  | Acid Extractable Vanadium (V)    | 2023/03/10 | 86           | 75 - 125  | 98           | 80 - 120  | <5.0         | ug/g  | 2.4       | 30        |
| 8545205  | Acid Extractable Zinc (Zn)       | 2023/03/10 | 86           | 75 - 125  | 92           | 80 - 120  | <5.0         | ug/g  | 15        | 30        |
| 8545236  | Acid Extractable Antimony (Sb)   | 2023/03/10 | 79           | 75 - 125  | 98           | 80 - 120  | <0.20        | ug/g  | NC        | 30        |
| 8545236  | Acid Extractable Arsenic (As)    | 2023/03/10 | 97           | 75 - 125  | 92           | 80 - 120  | <1.0         | ug/g  | 2.4       | 30        |
| 8545236  | Acid Extractable Barium (Ba)     | 2023/03/10 | NC           | 75 - 125  | 94           | 80 - 120  | <0.50        | ug/g  | 3.4       | 30        |
| 8545236  | Acid Extractable Beryllium (Be)  | 2023/03/10 | 104          | 75 - 125  | 100          | 80 - 120  | <0.20        | ug/g  | 4.0       | 30        |
| 8545236  | Acid Extractable Boron (B)       | 2023/03/10 | 102          | 75 - 125  | 102          | 80 - 120  | <5.0         | ug/g  | 3.4       | 30        |
| 8545236  | Acid Extractable Cadmium (Cd)    | 2023/03/10 | 98           | 75 - 125  | 95           | 80 - 120  | <0.10        | ug/g  | 13        | 30        |
| 8545236  | Acid Extractable Chromium (Cr)   | 2023/03/10 | NC           | 75 - 125  | 101          | 80 - 120  | <1.0         | ug/g  | 1.5       | 30        |
| 8545236  | Acid Extractable Cobalt (Co)     | 2023/03/10 | 99           | 75 - 125  | 98           | 80 - 120  | <0.10        | ug/g  | 4.3       | 30        |
| 8545236  | Acid Extractable Copper (Cu)     | 2023/03/10 | NC           | 75 - 125  | 99           | 80 - 120  | <0.50        | ug/g  | 3.4       | 30        |
| 8545236  | Acid Extractable Lead (Pb)       | 2023/03/10 | 93           | 75 - 125  | 94           | 80 - 120  | <1.0         | ug/g  | 4.8       | 30        |
| 8545236  | Acid Extractable Mercury (Hg)    | 2023/03/10 | 99           | 75 - 125  | 97           | 80 - 120  | <0.050       | ug/g  | NC        | 30        |
| 8545236  | Acid Extractable Molybdenum (Mo) | 2023/03/10 | 100          | 75 - 125  | 99           | 80 - 120  | <0.50        | ug/g  | 3.2       | 30        |
| 8545236  | Acid Extractable Nickel (Ni)     | 2023/03/10 | NC           | 75 - 125  | 99           | 80 - 120  | <0.50        | ug/g  | 5.7       | 30        |
| 8545236  | Acid Extractable Selenium (Se)   | 2023/03/10 | 101          | 75 - 125  | 102          | 80 - 120  | <0.50        | ug/g  | NC        | 30        |
| 8545236  | Acid Extractable Silver (Ag)     | 2023/03/10 | 101          | 75 - 125  | 97           | 80 - 120  | <0.20        | ug/g  | NC        | 30        |
| 8545236  | Acid Extractable Thallium (Tl)   | 2023/03/10 | 96           | 75 - 125  | 95           | 80 - 120  | <0.050       | ug/g  | 13        | 30        |
| 8545236  | Acid Extractable Uranium (U)     | 2023/03/10 | 103          | 75 - 125  | 101          | 80 - 120  | <0.050       | ug/g  | 5.1       | 30        |
| 8545236  | Acid Extractable Vanadium (V)    | 2023/03/10 | NC           | 75 - 125  | 99           | 80 - 120  | <5.0         | ug/g  | 0.61      | 30        |
| 8545236  | Acid Extractable Zinc (Zn)       | 2023/03/10 | NC           | 75 - 125  | 100          | 80 - 120  | <5.0         | ug/g  | 4.4       | 30        |
| 8545247  | Benzene                          | 2023/03/10 | 81           | 50 - 140  | 76           | 50 - 140  | <0.020       | ug/g  | NC        | 50        |
| 8545247  | Ethylbenzene                     | 2023/03/10 | 94           | 50 - 140  | 81           | 50 - 140  | <0.020       | ug/g  | NC        | 50        |

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Bureau Veritas 6740 Campbell Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campbell Rd. Chemistry testing is conducted at 6740 Campbell Rd.



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

## QUALITY ASSURANCE REPORT(CONT'D)

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

| QC Batch | Parameter                        | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|----------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                                  |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 8545247  | F1 (C6-C10) - BTEX               | 2023/03/10 |              |           |              |           | <10          | ug/g  | NC        | 30        |
| 8545247  | F1 (C6-C10)                      | 2023/03/10 | 98           | 60 - 140  | 84           | 80 - 120  | <10          | ug/g  | NC        | 30        |
| 8545247  | o-Xylene                         | 2023/03/10 | 91           | 50 - 140  | 81           | 50 - 140  | <0.020       | ug/g  | NC        | 50        |
| 8545247  | p+m-Xylene                       | 2023/03/10 | 95           | 50 - 140  | 88           | 50 - 140  | <0.040       | ug/g  | NC        | 50        |
| 8545247  | Toluene                          | 2023/03/10 | 81           | 50 - 140  | 74           | 50 - 140  | <0.020       | ug/g  | NC        | 50        |
| 8545247  | Total Xylenes                    | 2023/03/10 |              |           |              |           | <0.040       | ug/g  | NC        | 50        |
| 8545384  | Chromium (VI)                    | 2023/03/10 | 32 (3)       | 70 - 130  | 94           | 80 - 120  | <0.18        | ug/g  | NC        | 35        |
| 8545390  | Chromium (VI)                    | 2023/03/13 | 0 (4)        | 70 - 130  | 92           | 80 - 120  | <0.18        | ug/g  | NC        | 35        |
| 8545401  | Available (CaCl2) pH             | 2023/03/10 |              |           | 100          | 97 - 103  |              |       | 0.65      | N/A       |
| 8545471  | Available (CaCl2) pH             | 2023/03/10 |              |           | 100          | 97 - 103  |              |       | 0.68      | N/A       |
| 8545492  | Available (CaCl2) pH             | 2023/03/10 |              |           | 100          | 97 - 103  |              |       | 0.58      | N/A       |
| 8545799  | Acid Extractable Antimony (Sb)   | 2023/03/10 | 101          | 75 - 125  | 99           | 80 - 120  | <0.20        | ug/g  | NC        | 30        |
| 8545799  | Acid Extractable Arsenic (As)    | 2023/03/10 | 103          | 75 - 125  | 104          | 80 - 120  | <1.0         | ug/g  | NC        | 30        |
| 8545799  | Acid Extractable Barium (Ba)     | 2023/03/10 | 101          | 75 - 125  | 96           | 80 - 120  | <0.50        | ug/g  | 5.3       | 30        |
| 8545799  | Acid Extractable Beryllium (Be)  | 2023/03/10 | 108          | 75 - 125  | 99           | 80 - 120  | <0.20        | ug/g  | NC        | 30        |
| 8545799  | Acid Extractable Boron (B)       | 2023/03/10 | 108          | 75 - 125  | 100          | 80 - 120  | <5.0         | ug/g  | NC        | 30        |
| 8545799  | Acid Extractable Cadmium (Cd)    | 2023/03/10 | 103          | 75 - 125  | 96           | 80 - 120  | <0.10        | ug/g  | NC        | 30        |
| 8545799  | Acid Extractable Chromium (Cr)   | 2023/03/10 | 108          | 75 - 125  | 100          | 80 - 120  | <1.0         | ug/g  | 20        | 30        |
| 8545799  | Acid Extractable Cobalt (Co)     | 2023/03/10 | 103          | 75 - 125  | 97           | 80 - 120  | <0.10        | ug/g  | 15        | 30        |
| 8545799  | Acid Extractable Copper (Cu)     | 2023/03/10 | 105          | 75 - 125  | 99           | 80 - 120  | <0.50        | ug/g  | 2.9       | 30        |
| 8545799  | Acid Extractable Lead (Pb)       | 2023/03/10 | 101          | 75 - 125  | 95           | 80 - 120  | <1.0         | ug/g  | 1.7       | 30        |
| 8545799  | Acid Extractable Mercury (Hg)    | 2023/03/10 | 105          | 75 - 125  | 95           | 80 - 120  | <0.050       | ug/g  | NC        | 30        |
| 8545799  | Acid Extractable Molybdenum (Mo) | 2023/03/10 | 104          | 75 - 125  | 98           | 80 - 120  | <0.50        | ug/g  | NC        | 30        |
| 8545799  | Acid Extractable Nickel (Ni)     | 2023/03/10 | 105          | 75 - 125  | 99           | 80 - 120  | <0.50        | ug/g  | 8.7       | 30        |
| 8545799  | Acid Extractable Selenium (Se)   | 2023/03/10 | 110          | 75 - 125  | 107          | 80 - 120  | <0.50        | ug/g  | NC        | 30        |
| 8545799  | Acid Extractable Silver (Ag)     | 2023/03/10 | 103          | 75 - 125  | 97           | 80 - 120  | <0.20        | ug/g  | NC        | 30        |
| 8545799  | Acid Extractable Thallium (Tl)   | 2023/03/10 | 99           | 75 - 125  | 94           | 80 - 120  | <0.050       | ug/g  | NC        | 30        |
| 8545799  | Acid Extractable Uranium (U)     | 2023/03/10 | 108          | 75 - 125  | 102          | 80 - 120  | <0.050       | ug/g  | NC        | 30        |
| 8545799  | Acid Extractable Vanadium (V)    | 2023/03/10 | 110          | 75 - 125  | 101          | 80 - 120  | <5.0         | ug/g  | NC        | 30        |
| 8545799  | Acid Extractable Zinc (Zn)       | 2023/03/10 | 113          | 75 - 125  | 103          | 80 - 120  | <5.0         | ug/g  | 0.32      | 30        |
| 8549305  | a-Chlordane                      | 2023/03/14 | 93           | 50 - 130  | 70           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |

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Bureau Veritas 6740 Campbell Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campbell Rd. Chemistry testing is conducted at 6740 Campbell Rd.



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

### QUALITY ASSURANCE REPORT(CONT'D)

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

| QC Batch | Parameter            | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|----------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                      |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 8549305  | Aldrin               | 2023/03/14 | 81           | 50 - 130  | 86           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | Dieldrin             | 2023/03/14 | 100          | 50 - 130  | 74           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | Endosulfan I (alpha) | 2023/03/14 | 100          | 50 - 130  | 77           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | Endosulfan II (beta) | 2023/03/14 | 91           | 50 - 130  | 71           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | Endrin               | 2023/03/14 | 103          | 50 - 130  | 77           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | g-Chlordane          | 2023/03/14 | 99           | 50 - 130  | 68           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | Heptachlor epoxide   | 2023/03/14 | 94           | 50 - 130  | 66           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | Heptachlor           | 2023/03/14 | 88           | 50 - 130  | 91           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | Hexachlorobenzene    | 2023/03/14 | 91           | 50 - 130  | 92           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | Hexachlorobutadiene  | 2023/03/14 | 75           | 50 - 130  | 109          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | Hexachloroethane     | 2023/03/14 | 53           | 50 - 130  | 82           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | Lindane              | 2023/03/14 | 86           | 50 - 130  | 65           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | Methoxychlor         | 2023/03/14 | 77           | 50 - 130  | 76           | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 8549305  | o,p-DDD              | 2023/03/14 | 102          | 50 - 130  | 77           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | o,p-DDE              | 2023/03/14 | 96           | 50 - 130  | 97           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | o,p-DDT              | 2023/03/14 | 94           | 50 - 130  | 94           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | p,p-DDD              | 2023/03/14 | 101          | 50 - 130  | 77           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | p,p-DDE              | 2023/03/14 | 99           | 50 - 130  | 105          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8549305  | p,p-DDT              | 2023/03/14 | 97           | 50 - 130  | 85           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | a-Chlordane          | 2023/03/15 | 150 (1)      | 50 - 130  | 98           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | Aldrin               | 2023/03/15 | 120          | 50 - 130  | 81           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | Dieldrin             | 2023/03/15 | 182 (1)      | 50 - 130  | 108          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | Endosulfan I (alpha) | 2023/03/15 | 150 (1)      | 50 - 130  | 93           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | Endosulfan II (beta) | 2023/03/15 | 153 (1)      | 50 - 130  | 97           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | Endrin               | 2023/03/15 | 151 (1)      | 50 - 130  | 111          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | g-Chlordane          | 2023/03/15 | 148 (1)      | 50 - 130  | 101          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | Heptachlor epoxide   | 2023/03/15 | 148 (1)      | 50 - 130  | 101          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | Heptachlor           | 2023/03/15 | 127          | 50 - 130  | 83           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | Hexachlorobenzene    | 2023/03/15 | 122          | 50 - 130  | 90           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | Hexachlorobutadiene  | 2023/03/15 | 106          | 50 - 130  | 104          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | Hexachloroethane     | 2023/03/15 | 77           | 50 - 130  | 86           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll Free: 1-800-561-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

## QUALITY ASSURANCE REPORT(CONT'D)

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

| QC Batch | Parameter    | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|--------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |              |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 8551240  | Lindane      | 2023/03/15 | 123          | 50 - 130  | 94           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | Methoxychlor | 2023/03/15 | 154 (1)      | 50 - 130  | 93           | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 8551240  | o,p-DDD      | 2023/03/15 | 164 (1)      | 50 - 130  | 107          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | o,p-DDE      | 2023/03/15 | 138 (1)      | 50 - 130  | 92           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | o,p-DDT      | 2023/03/15 | 138 (1)      | 50 - 130  | 87           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | p,p-DDD      | 2023/03/15 | 171 (1)      | 50 - 130  | 108          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | p,p-DDE      | 2023/03/15 | 104          | 50 - 130  | 83           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 8551240  | p,p-DDT      | 2023/03/15 | 134 (1)      | 50 - 130  | 96           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |

N/A = Not Applicable

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

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

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

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

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

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

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference  $\leq 2 \times \text{RDL}$ ).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Detection Limit was raised due to matrix interferences.

(3) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The sample was reanalyzed with the same results.

(4) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The sample was re-analyzed with the same results



Bureau Veritas Job #: C365033  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: AB

### VALIDATION SIGNATURE PAGE

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

*Cristina Carriere*

Cristina Carriere, Senior Scientific Specialist

*Ewa Pranjic*



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

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.

## CHAIN OF CUSTODY RECORD

07-Mar-23 17:36

Antonella Brasil

NEED PRIORITY

C365033

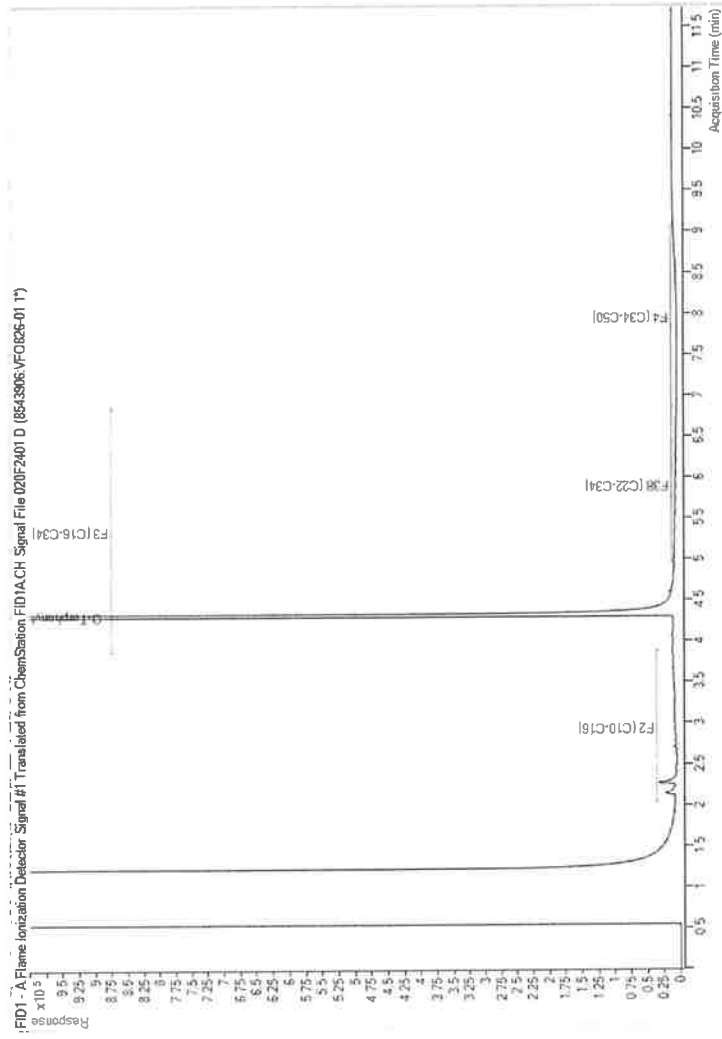
ATH FNV-2098

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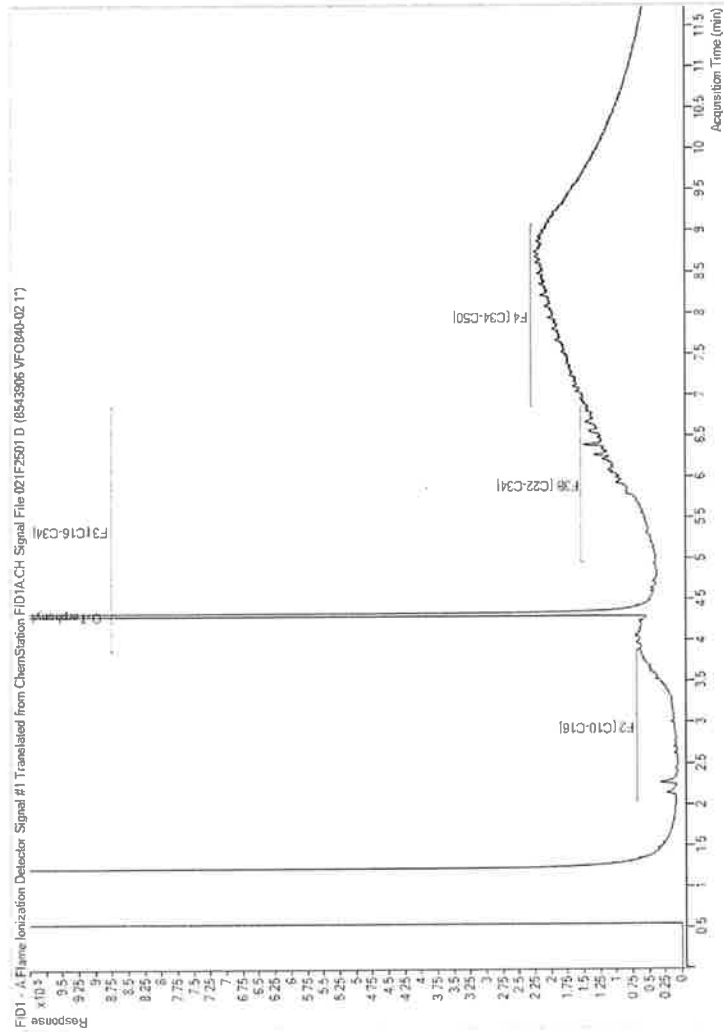
## CHAIN OF CUSTODY RECORD

| Invoice Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Report Information (if differs from invoice)                                                                           |  | Project Information (where applicable)                                                                                                                   |  | Turnaround Time (TAT) Required                                                                                                                                                                                                                                                                                                                          |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Company Name:</b> Soil Engineers Ltd.<br><b>Contact Name:</b> Ram Sah<br><b>Address:</b> 50 West Beaver Creek Road<br>Richmond Hill, ON L4B 1E7<br><b>Phone:</b> (416) 754-8515 Ext. 1313 Fax: (905) 883-8335<br><b>Email:</b> ram.sah@soilengineersltd.com                                                                                                                                                                                                                                                                                                                                                                                    |  | <b>Company Name:</b><br><b>Contact Name:</b><br><b>Address:</b><br><b>Phone:</b><br><b>Fax:</b><br><b>Email:</b>       |  | <b>Quotation #:</b><br><b>P.O. # / A/E/R #:</b><br><b>Project #:</b> 2302-0004-1<br><b>Site Location:</b><br><b>Site #:</b><br><b>Sampled By:</b> Ashish |  | <input checked="" type="checkbox"/> Regular TAT (5-7 days) Most analyses<br>PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS<br><input type="checkbox"/> Rush TAT (Samples will be analyzed)<br><input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3-4 Days<br><b>Date Required:</b><br><b>Rush Confirmation #:</b> |  |
| (USE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                        |  |                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                         |  |
| Other Regulations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | Analysis Requested                                                                                                     |  | LABORATORY USE ONLY                                                                                                                                      |  | COOLING MEDIA PRESENT: Y / N                                                                                                                                                                                                                                                                                                                            |  |
| Regulation 153<br><input checked="" type="checkbox"/> Table 1 <input type="checkbox"/> Res/Perk <input type="checkbox"/> Med/Fine <input type="checkbox"/> LCMC <input type="checkbox"/> Sanitary Sewer Bylaw<br><input type="checkbox"/> Table 2 <input type="checkbox"/> Inp/Asm <input type="checkbox"/> MHA <input type="checkbox"/> Storm Sewer Bylaw<br><input type="checkbox"/> Table 3 <input checked="" type="checkbox"/> Agri/Other <input type="checkbox"/> PWLDU <input type="checkbox"/> region <input type="checkbox"/> Other (Specify)<br>FOR RSC (PLEASE CIRCLE) Y / N <input type="checkbox"/> REG 558 (MIN. 3 DAY TAT REQUIRED) |  | FIELD FILTERED (CMC) Matrix / Hg / C/M<br>Pesticides<br>VOCs<br>PAHs<br>Metal Scan<br>Cr (VI) Hg<br>Cyanide<br>P<br>Cd |  | CUSTODY SEAL<br>Y / N<br>Present <input type="checkbox"/> Intact <input type="checkbox"/>                                                                |  | COMMENTS                                                                                                                                                                                                                                                                                                                                                |  |
| SAMPLE IDENTIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | DATE SAMPLED (YYYY/MM/DD)                                                                                              |  | TIME SAMPLED (HH:MM)                                                                                                                                     |  | NATRIA                                                                                                                                                                                                                                                                                                                                                  |  |
| 1 BH9/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 2023-03-03                                                                                                             |  | 12:40                                                                                                                                                    |  | S 1                                                                                                                                                                                                                                                                                                                                                     |  |
| 2 BH9/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 2023-03-03                                                                                                             |  | 12:55                                                                                                                                                    |  | S 1                                                                                                                                                                                                                                                                                                                                                     |  |
| 3 BH10/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 2023-03-03                                                                                                             |  | 13:45                                                                                                                                                    |  | S 2                                                                                                                                                                                                                                                                                                                                                     |  |
| 4 BH11/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 2023-03-03                                                                                                             |  | 15:10                                                                                                                                                    |  | S 1                                                                                                                                                                                                                                                                                                                                                     |  |
| 5 BH11/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 2023-03-03                                                                                                             |  | 15:25                                                                                                                                                    |  | S 1                                                                                                                                                                                                                                                                                                                                                     |  |
| 6 TP1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 2023-03-06                                                                                                             |  | 11:30                                                                                                                                                    |  | S 4                                                                                                                                                                                                                                                                                                                                                     |  |
| 7 TP2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 2023-03-06                                                                                                             |  | 11:50                                                                                                                                                    |  | S 4                                                                                                                                                                                                                                                                                                                                                     |  |
| 8 TP3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 2023-03-06                                                                                                             |  | 12:10                                                                                                                                                    |  | S 5                                                                                                                                                                                                                                                                                                                                                     |  |
| 9 TP4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 2023-03-06                                                                                                             |  | 13:05                                                                                                                                                    |  | S 4                                                                                                                                                                                                                                                                                                                                                     |  |
| 10 TP5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 2023-03-06                                                                                                             |  | 13:30                                                                                                                                                    |  | S 2                                                                                                                                                                                                                                                                                                                                                     |  |
| <b>RELINQUISHED BY:</b> (Signature/Print)<br>Ashish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | <b>DATE:</b> (YYYY/MM/DD)<br>2023/03/07                                                                                |  | <b>TIME:</b> (HH:MM)<br>13:20                                                                                                                            |  | <b>RECEIVED BY:</b> (Signature/Print)<br>See Page 1                                                                                                                                                                                                                                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | <b>DATE:</b> (YYYY/MM/DD)<br>2023/03/07                                                                                |  | <b>TIME:</b> (HH:MM)<br>13:20                                                                                                                            |  | <b>MAXXAM JOB #</b>                                                                                                                                                                                                                                                                                                                                     |  |

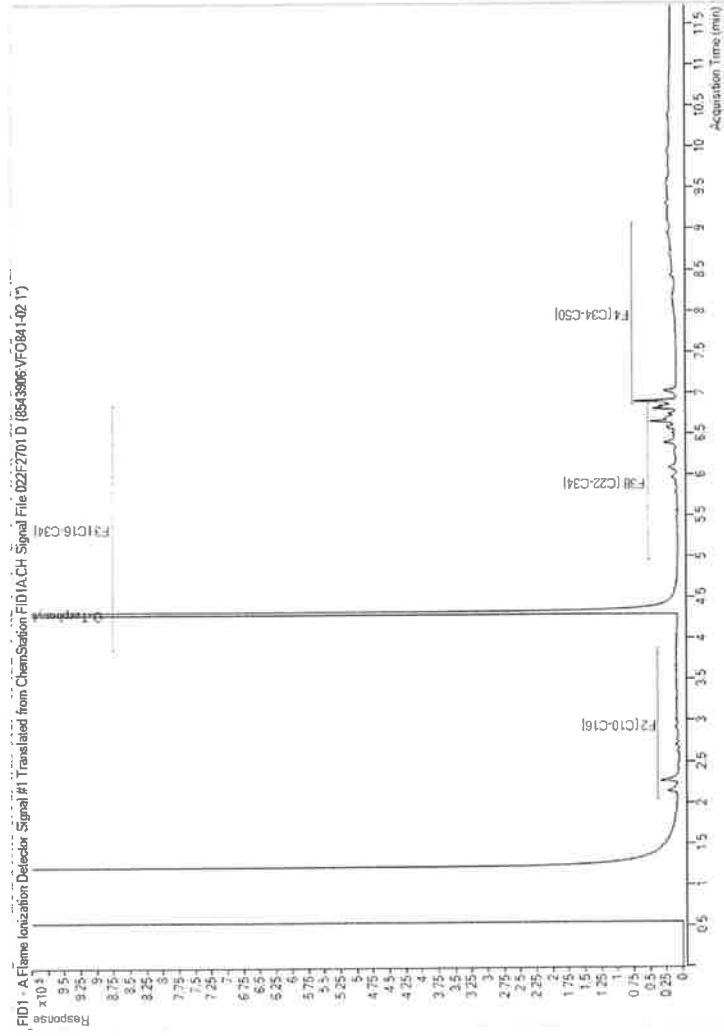
Group Company



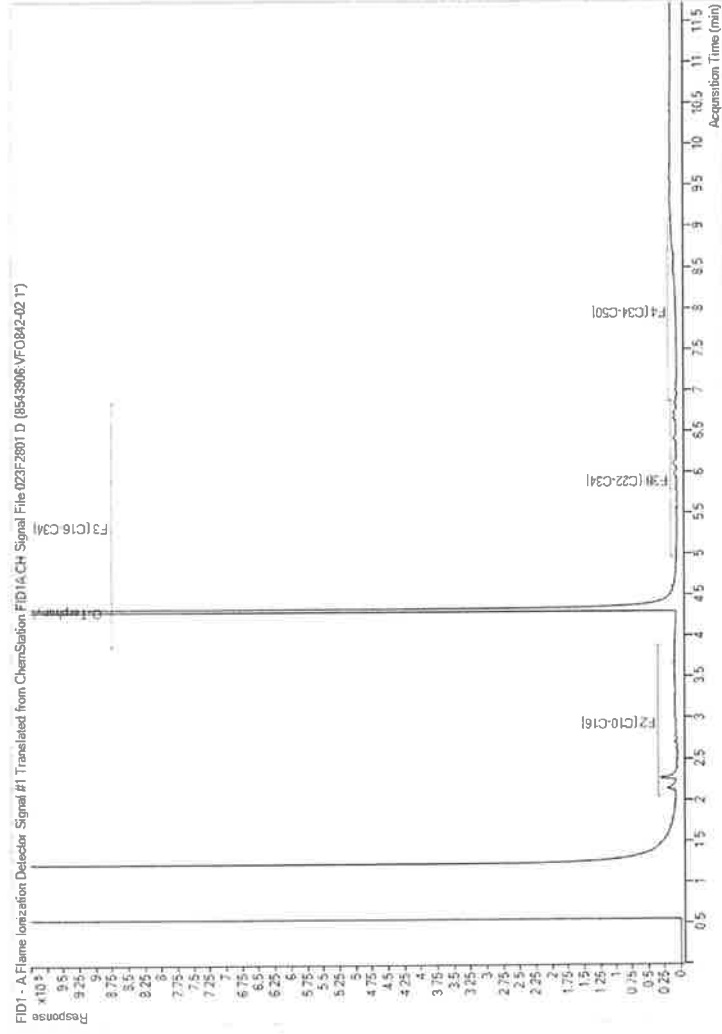
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



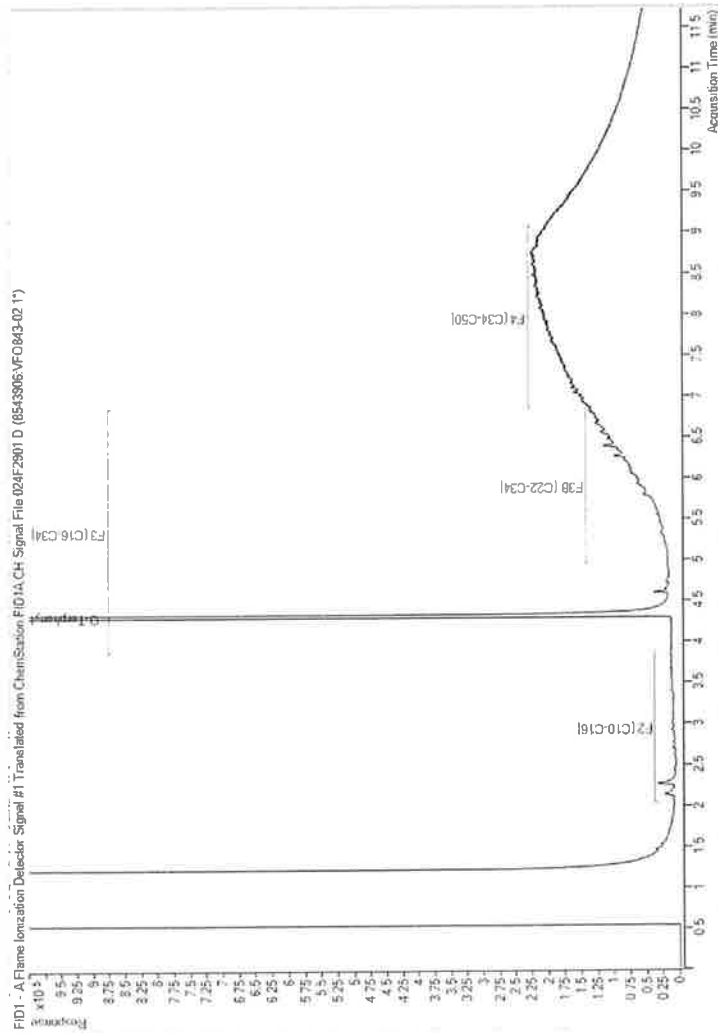
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



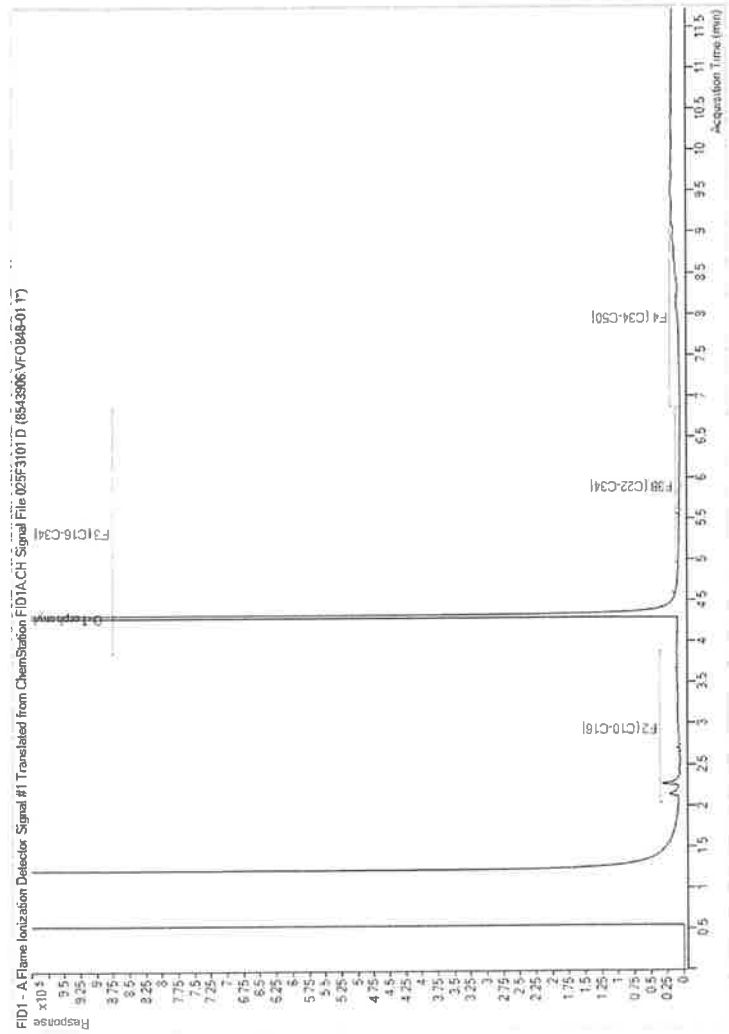
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



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



# ***Soil Engineers Ltd.***

CONSULTING ENGINEERS

GEOTECHNICAL • ENVIRONMENTAL • HYDROGEOLOGICAL • BUILDING SCIENCE

90 WEST BEAVER CREEK ROAD, SUITE 100, RICHMOND HILL, ONTARIO L4B 1E7 • TEL: (416) 754-8515 • FAX: (905) 881-8335

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FAX: (905) 542-2769

## **APPENDIX 'C'**

### **CERTIFICATES OF ANALYSIS (GROUNDWATER SAMPLES)**

**REFERENCE NO. 2302-E004-1**



Your Project #: 2302-E004-1  
Your C.O.C. #: n/a

**Attention: Ram Sah**

Soil Engineers Ltd  
90 West Beaver Creek Road  
Unit 100  
Richmond Hill, ON  
CANADA L4B 1E7

**Report Date: 2023/03/16**  
Report #: R7548903  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C370495**

**Received: 2023/03/13, 15:25**

Sample Matrix: Water  
# Samples Received: 3

| Analyses                                  | Quantity | Date       | Date       | Laboratory Method | Analytical Method |
|-------------------------------------------|----------|------------|------------|-------------------|-------------------|
|                                           |          | Extracted  | Analyzed   |                   |                   |
| Methylnaphthalene Sum                     | 1        | N/A        | 2023/03/15 | CAM SOP-00301     | EPA 8270D m       |
| 1,3-Dichloropropene Sum                   | 3        | N/A        | 2023/03/16 |                   | EPA 8260C m       |
| Petroleum Hydrocarbons F2-F4 in Water (1) | 1        | 2023/03/14 | 2023/03/15 | CAM SOP-00316     | CCME PHC-CWS m    |
| Dissolved Metals by ICPMS                 | 1        | N/A        | 2023/03/14 | CAM SOP-00447     | EPA 6020B m       |
| PAH Compounds in Water by GC/MS (SIM)     | 1        | 2023/03/14 | 2023/03/15 | CAM SOP-00318     | EPA 8270E         |
| Volatile Organic Compounds and F1 PHCs    | 1        | N/A        | 2023/03/16 | CAM SOP-00230     | EPA 8260C m       |
| Volatile Organic Compounds in Water       | 2        | N/A        | 2023/03/16 | CAM SOP-00228     | EPA 8260D         |

**Remarks:**

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

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

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

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

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

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

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

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

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



Your Project #: 2302-E004-1  
Your C.O.C. #: n/a

**Attention: Ram Sah**

Soil Engineers Ltd  
90 West Beaver Creek Road  
Unit 100  
Richmond Hill, ON  
CANADA L4B 1E7

**Report Date: 2023/03/16**  
**Report #: R7548903**  
**Version: 1 - Final**

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C370495**

**Received: 2023/03/13, 15:25**

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

Encryption Key



AUTHORIZED REPORT  
RAPPORT AUTORISÉ

Bureau Veritas

16 Mar 2023 15:37:41

Please direct all questions regarding this Certificate of Analysis to:

Antonella Brasil, Senior Project Manager  
Email: Antonella.Brasil@bureauveritas.com  
Phone# (905)817-5817

=====

This report has been generated and distributed using a secure automated process.

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas Job #: C370495  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: ANK

### O.REG 153 DISSOLVED ICPMS METALS (WATER)

|                                  |              |               |            |            |                 |
|----------------------------------|--------------|---------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b>         |              | VGT132        |            |            |                 |
| <b>Sampling Date</b>             |              | 2023/03/10    |            |            |                 |
| <b>COC Number</b>                |              | n/a           |            |            |                 |
|                                  | <b>UNITS</b> | <b>BH/MW5</b> | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |
| <b>Metals</b>                    |              |               |            |            |                 |
| Dissolved Antimony (Sb)          | ug/L         | 2.5           | 0.50       | 0.50       | 8550468         |
| Dissolved Arsenic (As)           | ug/L         | 2.1           | 1.0        | 1.0        | 8550468         |
| Dissolved Barium (Ba)            | ug/L         | 56            | 2.0        | 2.0        | 8550468         |
| Dissolved Beryllium (Be)         | ug/L         | <0.40         | 0.40       | 0.40       | 8550468         |
| Dissolved Boron (B)              | ug/L         | 250           | 10         | 10         | 8550468         |
| Dissolved Cadmium (Cd)           | ug/L         | <0.090        | 0.090      | 0.090      | 8550468         |
| Dissolved Chromium (Cr)          | ug/L         | <5.0          | 5.0        | 5.0        | 8550468         |
| Dissolved Cobalt (Co)            | ug/L         | <0.50         | 0.50       | 0.50       | 8550468         |
| Dissolved Copper (Cu)            | ug/L         | 2.0           | 0.90       | 0.90       | 8550468         |
| Dissolved Lead (Pb)              | ug/L         | <0.50         | 0.50       | 0.50       | 8550468         |
| Dissolved Molybdenum (Mo)        | ug/L         | 18            | 0.50       | 0.50       | 8550468         |
| Dissolved Nickel (Ni)            | ug/L         | <1.0          | 1.0        | 1.0        | 8550468         |
| Dissolved Selenium (Se)          | ug/L         | <2.0          | 2.0        | 2.0        | 8550468         |
| Dissolved Silver (Ag)            | ug/L         | <0.090        | 0.090      | 0.090      | 8550468         |
| Dissolved Thallium (Tl)          | ug/L         | <0.050        | 0.050      | 0.050      | 8550468         |
| Dissolved Uranium (U)            | ug/L         | 3.8           | 0.10       | 0.10       | 8550468         |
| Dissolved Vanadium (V)           | ug/L         | 0.95          | 0.50       | 0.50       | 8550468         |
| Dissolved Zinc (Zn)              | ug/L         | <5.0          | 5.0        | 5.0        | 8550468         |
| RDL = Reportable Detection Limit |              |               |            |            |                 |
| QC Batch = Quality Control Batch |              |               |            |            |                 |



Bureau Veritas Job #: C370495  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: ANK

### O.REG 153 PAHS (WATER)

|                                  |              |               |            |            |                 |
|----------------------------------|--------------|---------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b>         |              | VGT132        |            |            |                 |
| <b>Sampling Date</b>             |              | 2023/03/10    |            |            |                 |
| <b>COC Number</b>                |              | n/a           |            |            |                 |
|                                  | <b>UNITS</b> | <b>BH/MW5</b> | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |
| <b>Calculated Parameters</b>     |              |               |            |            |                 |
| Methylnaphthalene, 2-(1-)        | ug/L         | <0.071        | 0.071      | N/A        | 8548895         |
| <b>Polyaromatic Hydrocarbons</b> |              |               |            |            |                 |
| Acenaphthene                     | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| Acenaphthylene                   | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| Anthracene                       | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| Benzo(a)anthracene               | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| Benzo(a)pyrene                   | ug/L         | <0.0090       | 0.0090     | 0.0030     | 8551257         |
| Benzo(b,j)fluoranthene           | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| Benzo(g,h,i)perylene             | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| Benzo(k)fluoranthene             | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| Chrysene                         | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| Dibenzo(a,h)anthracene           | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| Fluoranthene                     | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| Fluorene                         | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| Indeno(1,2,3-cd)pyrene           | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| 1-Methylnaphthalene              | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| 2-Methylnaphthalene              | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| Naphthalene                      | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| Phenanthrene                     | ug/L         | <0.030        | 0.030      | 0.0030     | 8551257         |
| Pyrene                           | ug/L         | <0.050        | 0.050      | 0.0030     | 8551257         |
| <b>Surrogate Recovery (%)</b>    |              |               |            |            |                 |
| D10-Anthracene                   | %            | 106           |            |            | 8551257         |
| D14-Terphenyl (FS)               | %            | 108           |            |            | 8551257         |
| D8-Acenaphthylene                | %            | 93            |            |            | 8551257         |
| RDL = Reportable Detection Limit |              |               |            |            |                 |
| QC Batch = Quality Control Batch |              |               |            |            |                 |
| N/A = Not Applicable             |              |               |            |            |                 |



Bureau Veritas Job #: C370495  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: ANK

### O.REG 153 VOCs BY HS & F1-F4 (WATER)

|                                     |              |               |            |            |                 |
|-------------------------------------|--------------|---------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b>            |              | VGT132        |            |            |                 |
| <b>Sampling Date</b>                |              | 2023/03/10    |            |            |                 |
| <b>COC Number</b>                   |              | n/a           |            |            |                 |
|                                     | <b>UNITS</b> | <b>BH/MW5</b> | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |
| <b>Calculated Parameters</b>        |              |               |            |            |                 |
| 1,3-Dichloropropene (cis+trans)     | ug/L         | <0.50         | 0.50       | 0.50       | 8550925         |
| <b>Volatile Organics</b>            |              |               |            |            |                 |
| Acetone (2-Propanone)               | ug/L         | 22            | 10         | 1.0        | 8550925         |
| Benzene                             | ug/L         | <0.17         | 0.17       | 0.020      | 8550925         |
| Bromodichloromethane                | ug/L         | <0.50         | 0.50       | 0.050      | 8550925         |
| Bromoform                           | ug/L         | <1.0          | 1.0        | 0.10       | 8550925         |
| Bromomethane                        | ug/L         | <0.50         | 0.50       | 0.10       | 8550925         |
| Carbon Tetrachloride                | ug/L         | <0.20         | 0.20       | 0.050      | 8550925         |
| Chlorobenzene                       | ug/L         | <0.20         | 0.20       | 0.010      | 8550925         |
| Chloroform                          | ug/L         | <0.20         | 0.20       | 0.050      | 8550925         |
| Dibromochloromethane                | ug/L         | <0.50         | 0.50       | 0.050      | 8550925         |
| 1,2-Dichlorobenzene                 | ug/L         | <0.50         | 0.50       | 0.050      | 8550925         |
| 1,3-Dichlorobenzene                 | ug/L         | <0.50         | 0.50       | 0.050      | 8550925         |
| 1,4-Dichlorobenzene                 | ug/L         | <0.50         | 0.50       | 0.050      | 8550925         |
| Dichlorodifluoromethane (FREON 12)  | ug/L         | <1.0          | 1.0        | 0.050      | 8550925         |
| 1,1-Dichloroethane                  | ug/L         | <0.20         | 0.20       | 0.050      | 8550925         |
| 1,2-Dichloroethane                  | ug/L         | <0.50         | 0.50       | 0.020      | 8550925         |
| 1,1-Dichloroethylene                | ug/L         | <0.20         | 0.20       | 0.050      | 8550925         |
| cis-1,2-Dichloroethylene            | ug/L         | <0.50         | 0.50       | 0.050      | 8550925         |
| trans-1,2-Dichloroethylene          | ug/L         | <0.50         | 0.50       | 0.050      | 8550925         |
| 1,2-Dichloropropane                 | ug/L         | <0.20         | 0.20       | 0.050      | 8550925         |
| cis-1,3-Dichloropropene             | ug/L         | <0.30         | 0.30       | 0.050      | 8550925         |
| trans-1,3-Dichloropropene           | ug/L         | <0.40         | 0.40       | 0.050      | 8550925         |
| Ethylbenzene                        | ug/L         | <0.20         | 0.20       | 0.010      | 8550925         |
| Ethylene Dibromide                  | ug/L         | <0.20         | 0.20       | 0.050      | 8550925         |
| Hexane                              | ug/L         | <1.0          | 1.0        | 0.10       | 8550925         |
| Methylene Chloride(Dichloromethane) | ug/L         | <2.0          | 2.0        | 0.10       | 8550925         |
| Methyl Ethyl Ketone (2-Butanone)    | ug/L         | <10           | 10         | 0.50       | 8550925         |
| Methyl Isobutyl Ketone              | ug/L         | <5.0          | 5.0        | 0.10       | 8550925         |
| Methyl t-butyl ether (MTBE)         | ug/L         | <0.50         | 0.50       | 0.050      | 8550925         |
| Styrene                             | ug/L         | <0.50         | 0.50       | 0.050      | 8550925         |
| 1,1,1,2-Tetrachloroethane           | ug/L         | <0.50         | 0.50       | 0.050      | 8550925         |
| 1,1,2,2-Tetrachloroethane           | ug/L         | <0.50         | 0.50       | 0.050      | 8550925         |
| Tetrachloroethylene                 | ug/L         | <0.20         | 0.20       | 0.050      | 8550925         |
| Toluene                             | ug/L         | 0.27          | 0.20       | 0.010      | 8550925         |
| 1,1,1-Trichloroethane               | ug/L         | <0.20         | 0.20       | 0.050      | 8550925         |
| RDL = Reportable Detection Limit    |              |               |            |            |                 |
| QC Batch = Quality Control Batch    |              |               |            |            |                 |



Bureau Veritas Job #: C370495  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: ANK

### O.REG 153 VOCs BY HS & F1-F4 (WATER)

|                                   |              |               |            |            |                 |
|-----------------------------------|--------------|---------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b>          |              | VGT132        |            |            |                 |
| <b>Sampling Date</b>              |              | 2023/03/10    |            |            |                 |
| <b>COC Number</b>                 |              | n/a           |            |            |                 |
|                                   | <b>UNITS</b> | <b>BH/MW5</b> | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |
| 1,1,2-Trichloroethane             | ug/L         | <0.50         | 0.50       | 0.050      | 8550925         |
| Trichloroethylene                 | ug/L         | <0.20         | 0.20       | 0.050      | 8550925         |
| Trichlorofluoromethane (FREON 11) | ug/L         | <0.50         | 0.50       | 0.10       | 8550925         |
| Vinyl Chloride                    | ug/L         | <0.20         | 0.20       | 0.050      | 8550925         |
| p+m-Xylene                        | ug/L         | <0.20         | 0.20       | 0.010      | 8550925         |
| o-Xylene                          | ug/L         | <0.20         | 0.20       | 0.010      | 8550925         |
| Total Xylenes                     | ug/L         | <0.20         | 0.20       | 0.010      | 8550925         |
| F1 (C6-C10)                       | ug/L         | <25           | 25         | 20         | 8550925         |
| F1 (C6-C10) - BTEX                | ug/L         | <25           | 25         | 20         | 8550925         |
| <b>F2-F4 Hydrocarbons</b>         |              |               |            |            |                 |
| F2 (C10-C16 Hydrocarbons)         | ug/L         | <100          | 100        | 50         | 8551262         |
| F3 (C16-C34 Hydrocarbons)         | ug/L         | <200          | 200        | 70         | 8551262         |
| F4 (C34-C50 Hydrocarbons)         | ug/L         | <200          | 200        | 50         | 8551262         |
| Reached Baseline at C50           | ug/L         | Yes           |            |            | 8551262         |
| <b>Surrogate Recovery (%)</b>     |              |               |            |            |                 |
| o-Terphenyl                       | %            | 99            |            |            | 8551262         |
| 4-Bromofluorobenzene              | %            | 95            |            |            | 8550925         |
| D4-1,2-Dichloroethane             | %            | 102           |            |            | 8550925         |
| D8-Toluene                        | %            | 98            |            |            | 8550925         |
| RDL = Reportable Detection Limit  |              |               |            |            |                 |
| QC Batch = Quality Control Batch  |              |               |            |            |                 |



Bureau Veritas Job #: C370495  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: ANK

### O.REG 153 VOCs BY HS (WATER)

|                                     |              |              |                   |            |            |                 |
|-------------------------------------|--------------|--------------|-------------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b>            |              | VGT133       | VGT134            |            |            |                 |
| <b>Sampling Date</b>                |              | 2023/03/10   | 2023/03/10        |            |            |                 |
| <b>COC Number</b>                   |              | n/a          | n/a               |            |            |                 |
|                                     | <b>UNITS</b> | <b>DUPW1</b> | <b>TRIP BLANK</b> | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |
| <b>Calculated Parameters</b>        |              |              |                   |            |            |                 |
| 1,3-Dichloropropene (cis+trans)     | ug/L         | <0.50        | <0.50             | 0.50       | 0.50       | 8551060         |
| <b>Volatile Organics</b>            |              |              |                   |            |            |                 |
| Acetone (2-Propanone)               | ug/L         | 16           | <10               | 10         | 1.0        | 8551060         |
| Benzene                             | ug/L         | <0.20        | <0.20             | 0.20       | 0.020      | 8551060         |
| Bromodichloromethane                | ug/L         | <0.50        | <0.50             | 0.50       | 0.050      | 8551060         |
| Bromoform                           | ug/L         | <1.0         | <1.0              | 1.0        | 0.10       | 8551060         |
| Bromomethane                        | ug/L         | <0.50        | <0.50             | 0.50       | 0.10       | 8551060         |
| Carbon Tetrachloride                | ug/L         | <0.19        | <0.19             | 0.19       | 0.050      | 8551060         |
| Chlorobenzene                       | ug/L         | <0.20        | <0.20             | 0.20       | 0.010      | 8551060         |
| Chloroform                          | ug/L         | <0.20        | <0.20             | 0.20       | 0.050      | 8551060         |
| Dibromochloromethane                | ug/L         | <0.50        | <0.50             | 0.50       | 0.050      | 8551060         |
| 1,2-Dichlorobenzene                 | ug/L         | <0.40        | <0.40             | 0.40       | 0.050      | 8551060         |
| 1,3-Dichlorobenzene                 | ug/L         | <0.40        | <0.40             | 0.40       | 0.050      | 8551060         |
| 1,4-Dichlorobenzene                 | ug/L         | <0.40        | <0.40             | 0.40       | 0.050      | 8551060         |
| Dichlorodifluoromethane (FREON 12)  | ug/L         | <1.0         | <1.0              | 1.0        | 0.050      | 8551060         |
| 1,1-Dichloroethane                  | ug/L         | <0.20        | <0.20             | 0.20       | 0.050      | 8551060         |
| 1,2-Dichloroethane                  | ug/L         | <0.49        | <0.49             | 0.49       | 0.020      | 8551060         |
| 1,1-Dichloroethylene                | ug/L         | <0.20        | <0.20             | 0.20       | 0.050      | 8551060         |
| cis-1,2-Dichloroethylene            | ug/L         | <0.50        | <0.50             | 0.50       | 0.050      | 8551060         |
| trans-1,2-Dichloroethylene          | ug/L         | <0.50        | <0.50             | 0.50       | 0.050      | 8551060         |
| 1,2-Dichloropropane                 | ug/L         | <0.20        | <0.20             | 0.20       | 0.050      | 8551060         |
| cis-1,3-Dichloropropene             | ug/L         | <0.30        | <0.30             | 0.30       | 0.050      | 8551060         |
| trans-1,3-Dichloropropene           | ug/L         | <0.40        | <0.40             | 0.40       | 0.050      | 8551060         |
| Ethylbenzene                        | ug/L         | <0.20        | <0.20             | 0.20       | 0.010      | 8551060         |
| Ethylene Dibromide                  | ug/L         | <0.19        | <0.19             | 0.19       | 0.050      | 8551060         |
| Hexane                              | ug/L         | <1.0         | <1.0              | 1.0        | 0.10       | 8551060         |
| Methylene Chloride(Dichloromethane) | ug/L         | <2.0         | <2.0              | 2.0        | 0.10       | 8551060         |
| Methyl Ethyl Ketone (2-Butanone)    | ug/L         | <10          | <10               | 10         | 0.50       | 8551060         |
| Methyl Isobutyl Ketone              | ug/L         | <5.0         | <5.0              | 5.0        | 0.10       | 8551060         |
| Methyl t-butyl ether (MTBE)         | ug/L         | <0.50        | <0.50             | 0.50       | 0.050      | 8551060         |
| Styrene                             | ug/L         | <0.40        | <0.40             | 0.40       | 0.050      | 8551060         |
| 1,1,1,2-Tetrachloroethane           | ug/L         | <0.50        | <0.50             | 0.50       | 0.050      | 8551060         |
| 1,1,1,2-Tetrachloroethane           | ug/L         | <0.40        | <0.40             | 0.40       | 0.050      | 8551060         |
| Tetrachloroethylene                 | ug/L         | <0.20        | <0.20             | 0.20       | 0.050      | 8551060         |
| Toluene                             | ug/L         | <0.20        | <0.20             | 0.20       | 0.010      | 8551060         |
| 1,1,1-Trichloroethane               | ug/L         | <0.20        | <0.20             | 0.20       | 0.050      | 8551060         |
| RDL = Reportable Detection Limit    |              |              |                   |            |            |                 |
| QC Batch = Quality Control Batch    |              |              |                   |            |            |                 |



Bureau Veritas Job #: C370495  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: ANK

### O.REG 153 VOCS BY HS (WATER)

|                                   |              |              |                   |            |            |                 |
|-----------------------------------|--------------|--------------|-------------------|------------|------------|-----------------|
| <b>Bureau Veritas ID</b>          |              | VGT133       | VGT134            |            |            |                 |
| <b>Sampling Date</b>              |              | 2023/03/10   | 2023/03/10        |            |            |                 |
| <b>COC Number</b>                 |              | n/a          | n/a               |            |            |                 |
|                                   | <b>UNITS</b> | <b>DUPW1</b> | <b>TRIP BLANK</b> | <b>RDL</b> | <b>MDL</b> | <b>QC Batch</b> |
| 1,1,2-Trichloroethane             | ug/L         | <0.40        | <0.40             | 0.40       | 0.050      | 8551060         |
| Trichloroethylene                 | ug/L         | <0.20        | <0.20             | 0.20       | 0.050      | 8551060         |
| Trichlorofluoromethane (FREON 11) | ug/L         | <0.50        | <0.50             | 0.50       | 0.10       | 8551060         |
| Vinyl Chloride                    | ug/L         | <0.20        | <0.20             | 0.20       | 0.050      | 8551060         |
| p+m-Xylene                        | ug/L         | <0.20        | <0.20             | 0.20       | 0.010      | 8551060         |
| o-Xylene                          | ug/L         | <0.20        | <0.20             | 0.20       | 0.010      | 8551060         |
| Total Xylenes                     | ug/L         | <0.20        | <0.20             | 0.20       | 0.010      | 8551060         |
| <b>Surrogate Recovery (%)</b>     |              |              |                   |            |            |                 |
| 4-Bromofluorobenzene              | %            | 85           | 85                |            |            | 8551060         |
| D4-1,2-Dichloroethane             | %            | 112          | 114               |            |            | 8551060         |
| D8-Toluene                        | %            | 89           | 90                |            |            | 8551060         |
| RDL = Reportable Detection Limit  |              |              |                   |            |            |                 |
| QC Batch = Quality Control Batch  |              |              |                   |            |            |                 |



Bureau Veritas Job #: C370495  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: ANK

## TEST SUMMARY

**Bureau Veritas ID:** VGT132  
**Sample ID:** BH/MW5  
**Matrix:** Water

**Collected:** 2023/03/10  
**Shipped:**  
**Received:** 2023/03/13

| Test Description                       | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst           |
|----------------------------------------|-----------------|---------|------------|---------------|-------------------|
| Methylnaphthalene Sum                  | CALC            | 8548895 | N/A        | 2023/03/15    | Automated Statchk |
| 1,3-Dichloropropene Sum                | CALC            | 8548896 | N/A        | 2023/03/16    | Automated Statchk |
| Petroleum Hydrocarbons F2-F4 in Water  | GC/FID          | 8551262 | 2023/03/14 | 2023/03/15    | Emir Danisman     |
| Dissolved Metals by ICPMS              | ICP/MS          | 8550468 | N/A        | 2023/03/14    | Prempal Bhatti    |
| PAH Compounds in Water by GC/MS (SIM)  | GC/MS           | 8551257 | 2023/03/14 | 2023/03/15    | Jonghan Yoon      |
| Volatile Organic Compounds and F1 PHCs | GC/MSFD         | 8550925 | N/A        | 2023/03/16    | Anna Gabrielyan   |

**Bureau Veritas ID:** VGT133  
**Sample ID:** DUPW1  
**Matrix:** Water

**Collected:** 2023/03/10  
**Shipped:**  
**Received:** 2023/03/13

| Test Description                    | Instrumentation | Batch   | Extracted | Date Analyzed | Analyst           |
|-------------------------------------|-----------------|---------|-----------|---------------|-------------------|
| 1,3-Dichloropropene Sum             | CALC            | 8548896 | N/A       | 2023/03/16    | Automated Statchk |
| Volatile Organic Compounds in Water | GC/MS           | 8551060 | N/A       | 2023/03/16    | Narayan Ghimire   |

**Bureau Veritas ID:** VGT134  
**Sample ID:** TRIP BLANK  
**Matrix:** Water

**Collected:** 2023/03/10  
**Shipped:**  
**Received:** 2023/03/13

| Test Description                    | Instrumentation | Batch   | Extracted | Date Analyzed | Analyst           |
|-------------------------------------|-----------------|---------|-----------|---------------|-------------------|
| 1,3-Dichloropropene Sum             | CALC            | 8548896 | N/A       | 2023/03/16    | Automated Statchk |
| Volatile Organic Compounds in Water | GC/MS           | 8551060 | N/A       | 2023/03/16    | Narayan Ghimire   |



Bureau Veritas Job #: C370495  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: ANK

### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

|           |       |
|-----------|-------|
| Package 1 | 0.3°C |
|-----------|-------|

Sample VGT132 [BH/MW5] : Cooler custody seal was present and intact.

**Results relate only to the items tested.**



Bureau Veritas Job #: C370495  
Report Date: 2023/03/16

## QUALITY ASSURANCE REPORT

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: ANK

| QC Batch | Parameter                 | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|---------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                           |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 8550925  | 4-Bromofluorobenzene      | 2023/03/15 | 100          | 70 - 130  | 100          | 70 - 130  | 97           | %     |           |           |
| 8550925  | D4-1,2-Dichloroethane     | 2023/03/15 | 102          | 70 - 130  | 100          | 70 - 130  | 99           | %     |           |           |
| 8550925  | D8-Toluene                | 2023/03/15 | 102          | 70 - 130  | 102          | 70 - 130  | 100          | %     |           |           |
| 8551060  | 4-Bromofluorobenzene      | 2023/03/15 | 100          | 70 - 130  | 99           | 70 - 130  | 92           | %     |           |           |
| 8551060  | D4-1,2-Dichloroethane     | 2023/03/15 | 98           | 70 - 130  | 94           | 70 - 130  | 99           | %     |           |           |
| 8551060  | D8-Toluene                | 2023/03/15 | 105          | 70 - 130  | 107          | 70 - 130  | 96           | %     |           |           |
| 8551257  | D10-Anthracene            | 2023/03/15 | 108          | 50 - 130  | 107          | 50 - 130  | 108          | %     |           |           |
| 8551257  | D14-Terphenyl (FS)        | 2023/03/15 | 108          | 50 - 130  | 108          | 50 - 130  | 110          | %     |           |           |
| 8551257  | D8-Acenaphthylene         | 2023/03/15 | 94           | 50 - 130  | 93           | 50 - 130  | 92           | %     |           |           |
| 8551262  | o-Terphenyl               | 2023/03/15 | 104          | 60 - 130  | 101          | 60 - 130  | 102          | %     |           |           |
| 8550468  | Dissolved Antimony (Sb)   | 2023/03/14 | 111          | 80 - 120  | 101          | 80 - 120  | <0.50        | ug/L  | NC        | 20        |
| 8550468  | Dissolved Arsenic (As)    | 2023/03/14 | 107          | 80 - 120  | 100          | 80 - 120  | <1.0         | ug/L  | NC        | 20        |
| 8550468  | Dissolved Barium (Ba)     | 2023/03/14 | 107          | 80 - 120  | 100          | 80 - 120  | <2.0         | ug/L  | 3.7       | 20        |
| 8550468  | Dissolved Beryllium (Be)  | 2023/03/14 | 105          | 80 - 120  | 98           | 80 - 120  | <0.40        | ug/L  | NC        | 20        |
| 8550468  | Dissolved Boron (B)       | 2023/03/14 | 104          | 80 - 120  | 97           | 80 - 120  | <10          | ug/L  | 2.3       | 20        |
| 8550468  | Dissolved Cadmium (Cd)    | 2023/03/14 | 109          | 80 - 120  | 99           | 80 - 120  | <0.090       | ug/L  | NC        | 20        |
| 8550468  | Dissolved Chromium (Cr)   | 2023/03/14 | 105          | 80 - 120  | 98           | 80 - 120  | <5.0         | ug/L  | NC        | 20        |
| 8550468  | Dissolved Cobalt (Co)     | 2023/03/14 | 104          | 80 - 120  | 97           | 80 - 120  | <0.50        | ug/L  | NC        | 20        |
| 8550468  | Dissolved Copper (Cu)     | 2023/03/14 | 109          | 80 - 120  | 101          | 80 - 120  | <0.90        | ug/L  | 3.2       | 20        |
| 8550468  | Dissolved Lead (Pb)       | 2023/03/14 | 103          | 80 - 120  | 95           | 80 - 120  | <0.50        | ug/L  | 0.60      | 20        |
| 8550468  | Dissolved Molybdenum (Mo) | 2023/03/14 | 112          | 80 - 120  | 102          | 80 - 120  | <0.50        | ug/L  | 5.2       | 20        |
| 8550468  | Dissolved Nickel (Ni)     | 2023/03/14 | 105          | 80 - 120  | 97           | 80 - 120  | <1.0         | ug/L  | NC        | 20        |
| 8550468  | Dissolved Selenium (Se)   | 2023/03/14 | 109          | 80 - 120  | 100          | 80 - 120  | <2.0         | ug/L  | NC        | 20        |
| 8550468  | Dissolved Silver (Ag)     | 2023/03/14 | 107          | 80 - 120  | 99           | 80 - 120  | <0.090       | ug/L  | NC        | 20        |
| 8550468  | Dissolved Thallium (Tl)   | 2023/03/14 | 106          | 80 - 120  | 96           | 80 - 120  | <0.050       | ug/L  | NC        | 20        |
| 8550468  | Dissolved Uranium (U)     | 2023/03/14 | 104          | 80 - 120  | 96           | 80 - 120  | <0.10        | ug/L  | 3.0       | 20        |
| 8550468  | Dissolved Vanadium (V)    | 2023/03/14 | 106          | 80 - 120  | 99           | 80 - 120  | <0.50        | ug/L  | NC        | 20        |
| 8550468  | Dissolved Zinc (Zn)       | 2023/03/14 | 106          | 80 - 120  | 98           | 80 - 120  | <5.0         | ug/L  | NC        | 20        |
| 8550925  | 1,1,1,2-Tetrachloroethane | 2023/03/15 | 98           | 70 - 130  | 99           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8550925  | 1,1,1-Trichloroethane     | 2023/03/15 | 100          | 70 - 130  | 100          | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8550925  | 1,1,2,2-Tetrachloroethane | 2023/03/15 | 97           | 70 - 130  | 97           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5177 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd., Chemistry testing is conducted at 6740 Campobello Rd.



Bureau Veritas Job #: C370495  
Report Date: 2023/03/16

### QUALITY ASSURANCE REPORT(CONT'D)

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: ANK

| QC Batch | Parameter                           | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|-------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                                     |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 8550925  | 1,1,2-Trichloroethane               | 2023/03/15 | 101          | 70 - 130  | 101          | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8550925  | 1,1-Dichloroethane                  | 2023/03/15 | 93           | 70 - 130  | 94           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8550925  | 1,1-Dichloroethylene                | 2023/03/15 | 100          | 70 - 130  | 102          | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8550925  | 1,2-Dichlorobenzene                 | 2023/03/15 | 97           | 70 - 130  | 97           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8550925  | 1,2-Dichloroethane                  | 2023/03/15 | 94           | 70 - 130  | 93           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8550925  | 1,2-Dichloropropane                 | 2023/03/15 | 95           | 70 - 130  | 96           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8550925  | 1,3-Dichlorobenzene                 | 2023/03/15 | 101          | 70 - 130  | 102          | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8550925  | 1,4-Dichlorobenzene                 | 2023/03/15 | 116          | 70 - 130  | 117          | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8550925  | Acetone (2-Propanone)               | 2023/03/15 | 102          | 60 - 140  | 102          | 60 - 140  | <10          | ug/L  | NC        | 30        |
| 8550925  | Benzene                             | 2023/03/15 | 91           | 70 - 130  | 91           | 70 - 130  | <0.17        | ug/L  | NC        | 30        |
| 8550925  | Bromodichloromethane                | 2023/03/15 | 99           | 70 - 130  | 99           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8550925  | Bromoform                           | 2023/03/15 | 97           | 70 - 130  | 97           | 70 - 130  | <1.0         | ug/L  | NC        | 30        |
| 8550925  | Bromomethane                        | 2023/03/15 | 94           | 60 - 140  | 93           | 60 - 140  | <0.50        | ug/L  | NC        | 30        |
| 8550925  | Carbon Tetrachloride                | 2023/03/15 | 98           | 70 - 130  | 98           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8550925  | Chlorobenzene                       | 2023/03/15 | 97           | 70 - 130  | 97           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8550925  | Chloroform                          | 2023/03/15 | 96           | 70 - 130  | 96           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8550925  | cis-1,2-Dichloroethylene            | 2023/03/15 | 98           | 70 - 130  | 98           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8550925  | cis-1,3-Dichloropropene             | 2023/03/15 | 92           | 70 - 130  | 90           | 70 - 130  | <0.30        | ug/L  | NC        | 30        |
| 8550925  | Dibromochloromethane                | 2023/03/15 | 97           | 70 - 130  | 97           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8550925  | Dichlorodifluoromethane (FREON 12)  | 2023/03/15 | 108          | 60 - 140  | 111          | 60 - 140  | <1.0         | ug/L  | NC        | 30        |
| 8550925  | Ethylbenzene                        | 2023/03/15 | 90           | 70 - 130  | 92           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8550925  | Ethylene Dibromide                  | 2023/03/15 | 96           | 70 - 130  | 95           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8550925  | F1 (C6-C10) - BTEX                  | 2023/03/15 |              |           |              |           | <25          | ug/L  | NC        | 30        |
| 8550925  | F1 (C6-C10)                         | 2023/03/15 | 96           | 60 - 140  | 92           | 60 - 140  | <25          | ug/L  | NC        | 30        |
| 8550925  | Hexane                              | 2023/03/15 | 99           | 70 - 130  | 100          | 70 - 130  | <1.0         | ug/L  | NC        | 30        |
| 8550925  | Methyl Ethyl Ketone (2-Butanone)    | 2023/03/15 | 100          | 60 - 140  | 100          | 60 - 140  | <10          | ug/L  | NC        | 30        |
| 8550925  | Methyl Isobutyl Ketone              | 2023/03/15 | 102          | 70 - 130  | 104          | 70 - 130  | <5.0         | ug/L  | NC        | 30        |
| 8550925  | Methyl t-butyl ether (MTBE)         | 2023/03/15 | 93           | 70 - 130  | 93           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8550925  | Methylene Chloride(Dichloromethane) | 2023/03/15 | 97           | 70 - 130  | 96           | 70 - 130  | <2.0         | ug/L  | NC        | 30        |
| 8550925  | o-Xylene                            | 2023/03/15 | 93           | 70 - 130  | 94           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8550925  | p+m-Xylene                          | 2023/03/15 | 93           | 70 - 130  | 94           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd, Chemistry testing is conducted at 6740 Campobello Rd.



Bureau Veritas Job #: C370495  
Report Date: 2023/03/16

### QUALITY ASSURANCE REPORT(CONT'D)

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: ANK

| QC Batch | Parameter                         | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|-----------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                                   |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 8550925  | Styrene                           | 2023/03/15 | 100          | 70 - 130  | 102          | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8550925  | Tetrachloroethylene               | 2023/03/15 | 92           | 70 - 130  | 93           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8550925  | Toluene                           | 2023/03/15 | 93           | 70 - 130  | 94           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8550925  | Total Xylenes                     | 2023/03/15 |              |           |              |           | <0.20        | ug/L  | NC        | 30        |
| 8550925  | trans-1,2-Dichloroethylene        | 2023/03/15 | 98           | 70 - 130  | 98           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8550925  | trans-1,3-Dichloropropene         | 2023/03/15 | 101          | 70 - 130  | 99           | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 8550925  | Trichloroethylene                 | 2023/03/15 | 102          | 70 - 130  | 102          | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8550925  | Trichlorofluoromethane (FREON 11) | 2023/03/15 | 100          | 70 - 130  | 100          | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8550925  | Vinyl Chloride                    | 2023/03/15 | 90           | 70 - 130  | 92           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551060  | 1,1,1,2-Tetrachloroethane         | 2023/03/15 | 93           | 70 - 130  | 90           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8551060  | 1,1,1-Trichloroethane             | 2023/03/15 | 97           | 70 - 130  | 92           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551060  | 1,1,2,2-Tetrachloroethane         | 2023/03/15 | 96           | 70 - 130  | 90           | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 8551060  | 1,1,2-Trichloroethane             | 2023/03/15 | 101          | 70 - 130  | 96           | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 8551060  | 1,1-Dichloroethane                | 2023/03/15 | 97           | 70 - 130  | 91           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551060  | 1,1-Dichloroethylene              | 2023/03/15 | 102          | 70 - 130  | 98           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551060  | 1,2-Dichlorobenzene               | 2023/03/15 | 97           | 70 - 130  | 96           | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 8551060  | 1,2-Dichloroethane                | 2023/03/15 | 94           | 70 - 130  | 87           | 70 - 130  | <0.49        | ug/L  | NC        | 30        |
| 8551060  | 1,2-Dichloropropane               | 2023/03/15 | 99           | 70 - 130  | 93           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551060  | 1,3-Dichlorobenzene               | 2023/03/15 | 98           | 70 - 130  | 99           | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 8551060  | 1,4-Dichlorobenzene               | 2023/03/15 | 118          | 70 - 130  | 117          | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 8551060  | Acetone (2-Propanone)             | 2023/03/15 | 120          | 60 - 140  | 107          | 60 - 140  | <10          | ug/L  | NC        | 30        |
| 8551060  | Benzene                           | 2023/03/15 | 95           | 70 - 130  | 90           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551060  | Bromodichloromethane              | 2023/03/15 | 100          | 70 - 130  | 93           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8551060  | Bromoform                         | 2023/03/15 | 92           | 70 - 130  | 87           | 70 - 130  | <1.0         | ug/L  | NC        | 30        |
| 8551060  | Bromomethane                      | 2023/03/15 | 88           | 60 - 140  | 84           | 60 - 140  | <0.50        | ug/L  | NC        | 30        |
| 8551060  | Carbon Tetrachloride              | 2023/03/15 | 92           | 70 - 130  | 87           | 70 - 130  | <0.19        | ug/L  | NC        | 30        |
| 8551060  | Chlorobenzene                     | 2023/03/15 | 99           | 70 - 130  | 97           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551060  | Chloroform                        | 2023/03/15 | 96           | 70 - 130  | 90           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551060  | cis-1,2-Dichloroethylene          | 2023/03/15 | 100          | 70 - 130  | 94           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8551060  | cis-1,3-Dichloropropene           | 2023/03/15 | 90           | 70 - 130  | 87           | 70 - 130  | <0.30        | ug/L  | NC        | 30        |
| 8551060  | Dibromochloromethane              | 2023/03/15 | 92           | 70 - 130  | 88           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |



Bureau Veritas Job #: C370495  
Report Date: 2023/03/16

## QUALITY ASSURANCE REPORT(CONT'D)

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: ANK

| QC Batch | Parameter                           | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|-------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                                     |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 8551060  | Dichlorodifluoromethane (FREON 12)  | 2023/03/15 | 105          | 60 - 140  | 98           | 60 - 140  | <1.0         | ug/L  | NC        | 30        |
| 8551060  | Ethylbenzene                        | 2023/03/15 | 97           | 70 - 130  | 97           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551060  | Ethylene Dibromide                  | 2023/03/15 | 96           | 70 - 130  | 91           | 70 - 130  | <0.19        | ug/L  | NC        | 30        |
| 8551060  | Hexane                              | 2023/03/15 | 111          | 70 - 130  | 107          | 70 - 130  | <1.0         | ug/L  | NC        | 30        |
| 8551060  | Methyl Ethyl Ketone (2-Butanone)    | 2023/03/15 | 135          | 60 - 140  | 123          | 60 - 140  | <10          | ug/L  | NC        | 30        |
| 8551060  | Methyl Isobutyl Ketone              | 2023/03/15 | 98           | 70 - 130  | 90           | 70 - 130  | <5.0         | ug/L  | NC        | 30        |
| 8551060  | Methyl t-butyl ether (MTBE)         | 2023/03/15 | 103          | 70 - 130  | 97           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8551060  | Methylene Chloride(Dichloromethane) | 2023/03/15 | 113          | 70 - 130  | 105          | 70 - 130  | <2.0         | ug/L  | NC        | 30        |
| 8551060  | o-Xylene                            | 2023/03/15 | 95           | 70 - 130  | 99           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551060  | p+m-Xylene                          | 2023/03/15 | 81           | 70 - 130  | 81           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551060  | Styrene                             | 2023/03/15 | 89           | 70 - 130  | 91           | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 8551060  | Tetrachloroethylene                 | 2023/03/15 | 84           | 70 - 130  | 83           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551060  | Toluene                             | 2023/03/15 | 102          | 70 - 130  | 100          | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551060  | Total Xylenes                       | 2023/03/15 |              |           |              |           | <0.20        | ug/L  | NC        | 30        |
| 8551060  | trans-1,2-Dichloroethylene          | 2023/03/15 | 96           | 70 - 130  | 91           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8551060  | trans-1,3-Dichloropropene           | 2023/03/15 | 97           | 70 - 130  | 97           | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 8551060  | Trichloroethylene                   | 2023/03/15 | 97           | 70 - 130  | 92           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551060  | Trichlorofluoromethane (FREON 11)   | 2023/03/15 | 91           | 70 - 130  | 86           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 8551060  | Vinyl Chloride                      | 2023/03/15 | 93           | 70 - 130  | 88           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 8551257  | 1-Methylnaphthalene                 | 2023/03/15 | 102          | 50 - 130  | 100          | 50 - 130  | <0.050       | ug/L  | NC        | 30        |
| 8551257  | 2-Methylnaphthalene                 | 2023/03/15 | 89           | 50 - 130  | 88           | 50 - 130  | <0.050       | ug/L  | NC        | 30        |
| 8551257  | Acenaphthene                        | 2023/03/15 | 100          | 50 - 130  | 98           | 50 - 130  | <0.050       | ug/L  | NC        | 30        |
| 8551257  | Acenaphthylene                      | 2023/03/15 | 98           | 50 - 130  | 96           | 50 - 130  | <0.050       | ug/L  | NC        | 30        |
| 8551257  | Anthracene                          | 2023/03/15 | 106          | 50 - 130  | 105          | 50 - 130  | <0.050       | ug/L  | NC        | 30        |
| 8551257  | Benzo(a)anthracene                  | 2023/03/15 | 93           | 50 - 130  | 94           | 50 - 130  | <0.050       | ug/L  | NC        | 30        |
| 8551257  | Benzo(a)pyrene                      | 2023/03/15 | 83           | 50 - 130  | 86           | 50 - 130  | <0.0090      | ug/L  | 17        | 30        |
| 8551257  | Benzo(b,j)fluoranthene              | 2023/03/15 | 92           | 50 - 130  | 94           | 50 - 130  | <0.050       | ug/L  | NC        | 30        |
| 8551257  | Benzo(g,h,i)perylene                | 2023/03/15 | 97           | 50 - 130  | 100          | 50 - 130  | <0.050       | ug/L  | NC        | 30        |
| 8551257  | Benzo(k)fluoranthene                | 2023/03/15 | 82           | 50 - 130  | 89           | 50 - 130  | <0.050       | ug/L  | NC        | 30        |
| 8551257  | Chrysene                            | 2023/03/15 | 91           | 50 - 130  | 95           | 50 - 130  | <0.050       | ug/L  | NC        | 30        |
| 8551257  | Dibenzo(a,h)anthracene              | 2023/03/15 | 81           | 50 - 130  | 83           | 50 - 130  | <0.050       | ug/L  | NC        | 30        |

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.



Bureau Veritas Job #: C370495  
Report Date: 2023/03/16

## QUALITY ASSURANCE REPORT(CONT'D)

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: ANK

| QC Batch | Parameter                 | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|---------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                           |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 8551257  | Fluoranthene              | 2023/03/15 | 112          | 50 - 130  | 111          | 50 - 130  | <0.050       | ug/L  | 6.9       | 30        |
| 8551257  | Fluorene                  | 2023/03/15 | 96           | 50 - 130  | 95           | 50 - 130  | <0.050       | ug/L  | NC        | 30        |
| 8551257  | Indeno(1,2,3-cd)pyrene    | 2023/03/15 | 92           | 50 - 130  | 95           | 50 - 130  | <0.050       | ug/L  | NC        | 30        |
| 8551257  | Naphthalene               | 2023/03/15 | 97           | 50 - 130  | 96           | 50 - 130  | <0.050       | ug/L  | NC        | 30        |
| 8551257  | Phenanthrene              | 2023/03/15 | 99           | 50 - 130  | 97           | 50 - 130  | <0.030       | ug/L  | 8.2       | 30        |
| 8551257  | Pyrene                    | 2023/03/15 | 111          | 50 - 130  | 110          | 50 - 130  | <0.050       | ug/L  | 6.1       | 30        |
| 8551262  | F2 (C10-C16 Hydrocarbons) | 2023/03/15 | 103          | 60 - 130  | 95           | 60 - 130  | <100         | ug/L  | NC        | 30        |
| 8551262  | F3 (C16-C34 Hydrocarbons) | 2023/03/15 | 104          | 60 - 130  | 99           | 60 - 130  | <200         | ug/L  | 24        | 30        |
| 8551262  | F4 (C34-C50 Hydrocarbons) | 2023/03/15 | 104          | 60 - 130  | 98           | 60 - 130  | <200         | ug/L  | NC        | 30        |

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

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

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

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

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

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference  $\leq 2 \times \text{RDL}$ ).



Bureau Veritas Job #: C370495  
Report Date: 2023/03/16

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Sampler Initials: ANK

### VALIDATION SIGNATURE PAGE

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

*Cristina Carriere*

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Cristina Carriere, Senior Scientific Specialist

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



6740 Campbell Road, Mississauga, Ontario L5N 2L8  
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266  
CAM FCD 01191/2

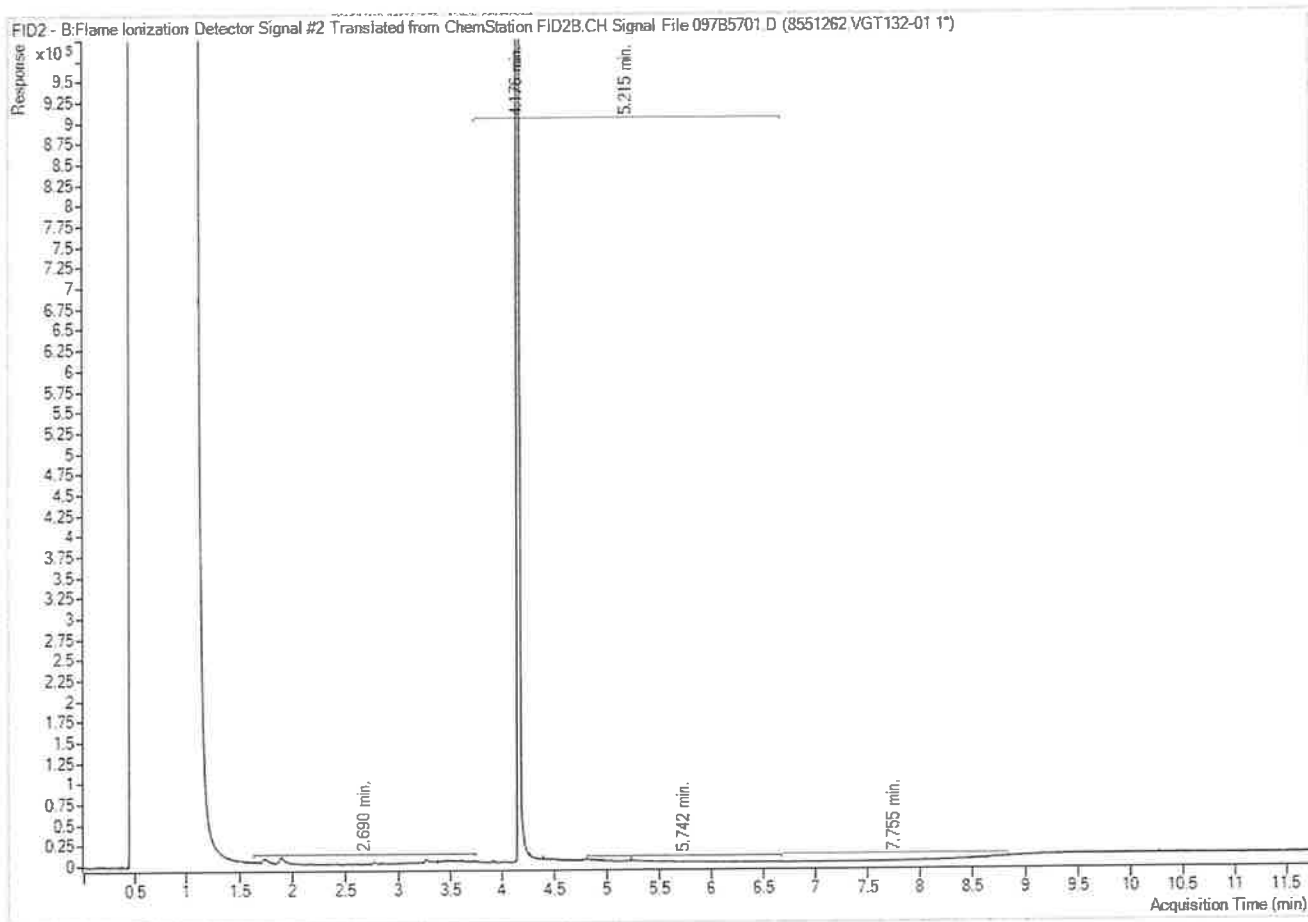
# CHAIN OF CUSTODY RECORD

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|                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                         |  |                                            |  |                                                                                                  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------|--|--------------------------------------------------------------------------------------------------|--|
| Invoice Information                                                                                                                             |  | Report Information (if differs from invoice)                                                                                                                                                                                                                                            |  | Project Information (where applicable)     |  | Turnaround Time (TAT) Required                                                                   |  |
| Company Name: <b>Soil Engineers Ltd.</b>                                                                                                        |  | Company Name: <u>                    </u>                                                                                                                                                                                                                                               |  | Quotation #: <u>                    </u>   |  | <input checked="" type="checkbox"/> Regular TAT (5-7 days) Most analyses                         |  |
| Contact Name: <b>Ram Sah</b>                                                                                                                    |  | Contact Name: <u>                    </u>                                                                                                                                                                                                                                               |  | P.O. #/ A/E/P: <u>                    </u> |  | PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS                                                  |  |
| Address: <b>100-90 West Beaver Creek Road,<br/>Richmond Hill, Ontario L4B 1E7</b>                                                               |  | Address: <u>                    </u>                                                                                                                                                                                                                                                    |  | Project #: <b>2302-ED04-1</b>              |  | Rush TAT (Surcharge will be applied)                                                             |  |
| Phone: <b>416 754 8515</b>                                                                                                                      |  | Phone: <u>                    </u>                                                                                                                                                                                                                                                      |  | Site Location: <u>                    </u> |  | <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3-4 Days |  |
| Email: <b>ram.sah@soilengineers.ltd.com</b>                                                                                                     |  | Email: <u>                    </u>                                                                                                                                                                                                                                                      |  | Site #: <u>                    </u>        |  | Date Required: <u>                    </u>                                                       |  |
| Fax: <b>905-8818335</b>                                                                                                                         |  | Fax: <u>                    </u>                                                                                                                                                                                                                                                        |  | Sampled By: <b>Antita</b>                  |  | Rush Confirmation #: <u>                    </u>                                                 |  |
| Regulation 153                                                                                                                                  |  | Other Regulations                                                                                                                                                                                                                                                                       |  | Analysis Requested                         |  | LABORATORY USE ONLY                                                                              |  |
| <input checked="" type="checkbox"/> Table 1 <input type="checkbox"/> Res/Part <input type="checkbox"/> Med/Fine <input type="checkbox"/> Coarse |  | <input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> MDA <input type="checkbox"/> Storm Sewer Inflow <input type="checkbox"/> PWLU <input type="checkbox"/> Region <input type="checkbox"/> Other (Specify) <u>                    </u> |  | HOLD - DO NOT ANALYZE                      |  | CUSTODY SEAL <u>                    </u>                                                         |  |
| FOR RSC (PLEASE CIRCLE) Y / N                                                                                                                   |  | REG 558 (MIN. 3 DAY TAT REQUIRED)                                                                                                                                                                                                                                                       |  |                                            |  | Present <input type="checkbox"/> Intact <input type="checkbox"/>                                 |  |
| Include Criteria on Certificate of Analysis: Y / N                                                                                              |  |                                                                                                                                                                                                                                                                                         |  |                                            |  | COOLING MEDIA PRESENT: <u>                    </u> Y / N                                         |  |
| SAMPLE IDENTIFICATION                                                                                                                           |  | DATE SAMPLED (YYYY/MM/DD)                                                                                                                                                                                                                                                               |  | TIME SAMPLED (HH:MM)                       |  | COMMENTS                                                                                         |  |
| 1 BH/MW5                                                                                                                                        |  | 2023-03-10                                                                                                                                                                                                                                                                              |  | Ground water                               |  |                                                                                                  |  |
| 2 DUPW1                                                                                                                                         |  | 2023-03-10                                                                                                                                                                                                                                                                              |  | Ground water                               |  |                                                                                                  |  |
| 3 Trip Blank                                                                                                                                    |  | 2023-03-10                                                                                                                                                                                                                                                                              |  | Water                                      |  |                                                                                                  |  |
| 4                                                                                                                                               |  |                                                                                                                                                                                                                                                                                         |  |                                            |  |                                                                                                  |  |
| 5                                                                                                                                               |  |                                                                                                                                                                                                                                                                                         |  |                                            |  |                                                                                                  |  |
| 6                                                                                                                                               |  |                                                                                                                                                                                                                                                                                         |  |                                            |  |                                                                                                  |  |
| 7                                                                                                                                               |  |                                                                                                                                                                                                                                                                                         |  |                                            |  |                                                                                                  |  |
| 8                                                                                                                                               |  |                                                                                                                                                                                                                                                                                         |  |                                            |  |                                                                                                  |  |
| 9                                                                                                                                               |  |                                                                                                                                                                                                                                                                                         |  |                                            |  |                                                                                                  |  |
| 10                                                                                                                                              |  |                                                                                                                                                                                                                                                                                         |  |                                            |  |                                                                                                  |  |
| RELINQUISHED BY: (Signature/Print)                                                                                                              |  | DATE: (YYYY/MM/DD)                                                                                                                                                                                                                                                                      |  | TIME: (HH:MM)                              |  | RECEIVED BY: (Signature/Print)                                                                   |  |
| Antita                                                                                                                                          |  | 2023/03/13                                                                                                                                                                                                                                                                              |  | 10:40                                      |  | Ramon RAMANDEEP                                                                                  |  |
|                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                         |  |                                            |  | KAP                                                                                              |  |
|                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                         |  |                                            |  | DATE: (YYYY/MM/DD) 2023/03/13 15:25                                                              |  |
|                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                         |  |                                            |  | TIME: (HH:MM)                                                                                    |  |
|                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                         |  |                                            |  | Antionella Brasil                                                                                |  |
|                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                         |  |                                            |  | C370495                                                                                          |  |
|                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                         |  |                                            |  | SWP ENV-796                                                                                      |  |

66 3050

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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



Your Project #: 2302-E004-1  
Site Location: AIRPORT ROAD EAST  
Your C.O.C. #: n/a

**Attention: Ram Sah**

Soil Engineers Ltd  
90 West Beaver Creek Road  
Unit 100  
Richmond Hill, ON  
CANADA L4B 1E7

**Report Date: 2023/03/15**  
Report #: R7547507  
Version: 2 - Revision

**CERTIFICATE OF ANALYSIS – REVISED REPORT**

**BUREAU VERITAS JOB #: C370486**

**Received: 2023/03/13, 15:25**

Sample Matrix: Water  
# Samples Received: 1

| Analyses | Quantity | Date       | Date       | Laboratory Method | Analytical Method |
|----------|----------|------------|------------|-------------------|-------------------|
|          |          | Extracted  | Analyzed   |                   |                   |
| pH       | 1        | 2023/03/14 | 2023/03/14 | CAM SOP-00413     | SM 4500H+ B m     |

**Remarks:**

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

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

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

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

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

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

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

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



Your Project #: 2302-E004-1  
Site Location: AIRPORT ROAD EAST  
Your C.O.C. #: n/a

**Attention: Ram Sah**

Soil Engineers Ltd  
90 West Beaver Creek Road  
Unit 100  
Richmond Hill, ON  
CANADA L4B 1E7

**Report Date: 2023/03/15**  
Report #: R7547507  
Version: 2 - Revision

**CERTIFICATE OF ANALYSIS – REVISED REPORT**

**BUREAU VERITAS JOB #: C370486**

**Received: 2023/03/13, 15:25**

Encryption Key

Antonella Brasil  
Senior Project Manager  
15 Mar 2023 17:56:37

Please direct all questions regarding this Certificate of Analysis to:  
Antonella Brasil, Senior Project Manager  
Email: Antonella.Brasil@bureauveritas.com  
Phone# (905)817-5817

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU  
VERITAS

Bureau Veritas Job #: C370486

Report Date: 2023/03/15

Soil Engineers Ltd

Client Project #: 2302-E004-1

Site Location: AIRPORT ROAD EAST

Sampler Initials: ANK

### RESULTS OF ANALYSES OF WATER

|                                  |       |            |     |          |
|----------------------------------|-------|------------|-----|----------|
| Bureau Veritas ID                |       | VGT071     |     |          |
| Sampling Date                    |       | 2023/03/10 |     |          |
| COC Number                       |       | n/a        |     |          |
|                                  | UNITS | BH/MW5     | MDL | QC Batch |
| Inorganics                       |       |            |     |          |
| pH                               | pH    | 8.01       |     | 8551420  |
| QC Batch = Quality Control Batch |       |            |     |          |



Bureau Veritas Job #: C370486  
Report Date: 2023/03/15

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Site Location: AIRPORT ROAD EAST  
Sampler Initials: ANK

### TEST SUMMARY

Bureau Veritas ID: VGT071  
Sample ID: BH/MW5  
Matrix: Water

Collected: 2023/03/10  
Shipped:  
Received: 2023/03/13

| Test Description | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst       |
|------------------|-----------------|---------|------------|---------------|---------------|
| pH               | AT              | 8551420 | 2023/03/14 | 2023/03/14    | Taslina Aktar |



BUREAU  
VERITAS

Bureau Veritas Job #: C370486

Report Date: 2023/03/15

Soil Engineers Ltd

Client Project #: 2302-E004-1

Site Location: AIRPORT ROAD EAST

Sampler Initials: ANK

### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

|           |       |
|-----------|-------|
| Package 1 | 0.3°C |
|-----------|-------|

Cooler custody seal was present and intact.

Revised Report (2023/03/15) : Project # 2302-E004-1 included as per client request .

**Results relate only to the items tested.**



Bureau Veritas Job #: C370486  
Report Date: 2023/03/15

## QUALITY ASSURANCE REPORT

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Site Location: AIRPORT ROAD EAST  
Sampler Initials: ANK

| QC Batch                                                                                                                                                    | Parameter | Date       | SPIKED BLANK |           | RPD       |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------------|-----------|-----------|-----------|
|                                                                                                                                                             |           |            | % Recovery   | QC Limits | Value (%) | QC Limits |
| 8551420                                                                                                                                                     | pH        | 2023/03/14 | 102          | 98 - 103  | 0.13      | N/A       |
| N/A = Not Applicable                                                                                                                                        |           |            |              |           |           |           |
| Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.                                      |           |            |              |           |           |           |
| Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy. |           |            |              |           |           |           |



Bureau Veritas Job #: C370486  
Report Date: 2023/03/15

Soil Engineers Ltd  
Client Project #: 2302-E004-1  
Site Location: AIRPORT ROAD EAST  
Sampler Initials: ANK

### VALIDATION SIGNATURE PAGE

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

*Cristina Carriere*

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Cristina Carriere, Senior Scientific Specialist

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.

## CHAIN OF CUSTODY RECORD

| Invoice Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                  | Report Information (if differs from invoice)                                                                                                                                                                                                                                                                                                   |       | Project Information (where applicable)                                                                                         |                   | Turnaround Time (TAT) Required                                                                                                                                                                                           |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Company Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Soil Engineers Ltd.                                              | Company Name:                                                                                                                                                                                                                                                                                                                                  |       | Quotation #:                                                                                                                   |                   | <input checked="" type="checkbox"/> Regular TAT (5-7 days) Most analyses                                                                                                                                                 |  |
| Contact Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ram Sah                                                          | Contact Name:                                                                                                                                                                                                                                                                                                                                  | SAMIR | P.O. #/ AFEN:                                                                                                                  |                   | PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS                                                                                                                                                                          |  |
| Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 100-90 West Beaver Creek Road,<br>Richmond Hill, Ontario L4B 1E7 | Address:                                                                                                                                                                                                                                                                                                                                       |       | Project #:                                                                                                                     | Airport Road East | Rush TAT (Surcharge will be applied)                                                                                                                                                                                     |  |
| Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 416 754 8515 Fax: 905-881-8335                                   | Phone:                                                                                                                                                                                                                                                                                                                                         |       | Site Location:                                                                                                                 |                   | <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3-4 Days                                                                                                                         |  |
| Email:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ram.sah@soilengineers.ltd.com                                    | Email:                                                                                                                                                                                                                                                                                                                                         |       | Site #:                                                                                                                        |                   |                                                                                                                                                                                                                          |  |
| MCC REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM ORIGINATING WATER CHAIN OF CUSTODY                                                                                                                                                                                                                                                                                                                                                                 |                                                                  | Other Regulations                                                                                                                                                                                                                                                                                                                              |       | Analysis Requested                                                                                                             |                   | LABORATORY USE ONLY                                                                                                                                                                                                      |  |
| Regulation 153<br><input checked="" type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Med/Fine <input type="checkbox"/> Loose<br><input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input checked="" type="checkbox"/> Agri/Urban<br><input type="checkbox"/> Table 3 <input checked="" type="checkbox"/> Other (Specify) _____<br><input type="checkbox"/> Table 4 <input type="checkbox"/> Other (Specify) _____<br>FOR RSC (PLEASE CIRCLE) Y / N |                                                                  | <input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw<br><input type="checkbox"/> MISA <input type="checkbox"/> Storm Sewer Bylaw<br><input type="checkbox"/> WLUU <input type="checkbox"/> Region _____<br><input type="checkbox"/> Other (Specify) _____<br><input type="checkbox"/> REG 558 (MIN. 3 DAY TAT REQUIRED) |       | <input type="checkbox"/> FIELD FILTERED (FORCE) Metals / Hg / CVI<br><input type="checkbox"/> PH<br><input type="checkbox"/> X |                   | <input type="checkbox"/> CUSTODY SEAL Y / N<br><input type="checkbox"/> Present <input type="checkbox"/> Intact<br><input type="checkbox"/> COOLING MEDIA PRESENT: Y / N<br><input checked="" type="checkbox"/> COMMENTS |  |
| SAMPLES MUST BE KEPT COOL ( $< 10^{\circ}\text{C}$ ) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM<br>Include Criteria on Certificate of Analysis: Y / N                                                                                                                                                                                                                                                                                                                                               |                                                                  | DATE SAMPLED (YYYY/MM/DD)<br>2023-03-10                                                                                                                                                                                                                                                                                                        |       | TIME SAMPLED (HH:MM)<br>10:30                                                                                                  |                   | MATRIX<br>Ground water                                                                                                                                                                                                   |  |
| SAMPLE IDENTIFICATION<br>BH/MW/S                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                  | DATE (YYYY/MM/DD)<br>2023/03/13                                                                                                                                                                                                                                                                                                                |       | TIME (HH:MM)<br>15:25                                                                                                          |                   | HOLD-DO NOT ANALYZE                                                                                                                                                                                                      |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                |                   |                                                                                                                                                                                                                          |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                |                   |                                                                                                                                                                                                                          |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                |                   |                                                                                                                                                                                                                          |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                |                   |                                                                                                                                                                                                                          |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                |                   |                                                                                                                                                                                                                          |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                |                   |                                                                                                                                                                                                                          |  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                |                   |                                                                                                                                                                                                                          |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                |                   |                                                                                                                                                                                                                          |  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                |                   |                                                                                                                                                                                                                          |  |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                  |                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                |                   |                                                                                                                                                                                                                          |  |
| RELINQUISHED BY: (Signature/Print)<br>Anita                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                  | DATE: (YYYY/MM/DD)<br>2023/03/13                                                                                                                                                                                                                                                                                                               |       | TIME: (HH:MM)<br>10:30                                                                                                         |                   | RECEIVED BY: (Signature/Print)<br>Ramon RAMANDEEP                                                                                                                                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                  |                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                |                   | 13-Mar-23 15:25<br>Antonella Brasi<br>C370486                                                                                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                  |                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                |                   | SWP ENV-796<br>6740517                                                                                                                                                                                                   |  |