

## **Phase II Environmental Site Assessment**

12192 Chinguacousy Road  
Caledon, Ontario

### **Prepared For:**

Argo Mayfield West V Limited  
4900 Palladium Way, Unit 105  
Burlington, Ontario  
L7M 0W7

**DS Project No:** 24-371-600

**Date:** 2025-02-04



DS CONSULTANTS LTD.  
6221 Highway 7, Unit 16  
Vaughan, Ontario, L4H 0K8  
Telephone: (905) 264-9393  
[www.dsconsultants.ca](http://www.dsconsultants.ca)

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## 1.0 Executive Summary

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DS Consultants Ltd. (DS) was retained by Argo Mayfield West V Limited (the “Client”) to conduct a Phase II Environmental Site Assessment (ESA) of the Property located at 12192 Chinguacousy Road, Caledon, Ontario, herein referred to as the “Site”. DS understands that this work has been requested for due diligence purposes in association with the proposed acquisition and redevelopment of the Site for residential purposes.

This Phase II ESA was conducted in general accordance with the CSA Standards Association protocols outlined in the document “*Phase II Environmental Site Assessment, CSA Standard Z769-00 (R2013)*” dated 2000, and reaffirmed in 2013. It should be noted that the CSA methodology is sufficient for due diligence purposes but cannot be used to support the filing of a Record of Site Condition for the Site. The objective of this Phase II ESA is to confirm whether contaminants are present, and at what concentration are they present on the Site, as related to the issues of potential environmental concern identified in the Phase I ESA.

The Phase II Property is a 6.05-hectare (14.95 acres) parcel of land situated within a rural setting in the Town of Caledon, Ontario. The Site is located approximately 510 m northwest of the intersection of Chinguacousy Road and Mayfield Road. The Site is currently occupied by a residential house, three (3) paddocks, two (2) barns, two (2) storage sheds, a parking area, and a grass field. Note that one of the storage sheds has attached animal enclosures.

The Phase I ESA completed in January 2025 indicated that the Site was first developed for agricultural purposes from at least 1860 to present day. The Property is currently used as a hobby farm and for residential purposes. A total of five (5) Potentially Contaminating Activities (PCAs) were identified in the Phase I ESA, of which four (4) were considered to be contributing to four (4) APECs on the Site. A summary of the APECs, associated PCAs, and Contaminants of Potential Concern (COPC) identified is presented in the table below:

**Table 1-1: Summary of APECs**

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase I Property	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or sediment)
APEC-1	West of the Residential House	#28 - Gasoline and associated products stored in a fixed tank	On-Site <b>PCA-1</b>	PHCs, BTEX, VOCs, PAHs	Soil, Groundwater

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase I Property	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or sediment)
APEC-2	Entire Property	#40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site <b>PCA-2</b>	OCPs, Metals, As, Sb, Se, Hg, CN-	Soil
APEC-3	Driveway and Parking Area on Property	#N/S - Inferred application of de-icing agents	On-Site <b>PCA-3</b>	EC, SAR	Soil
				Na, Cl-	Groundwater
APEC-4	Northeast of the Residential House	#55 – Transformer Manufacturing, Processing and Use	On-Site <b>PCA-4</b>	PCBs, PHCs, BTEX	Soil

N/S - not specified in Table 2, Schedule D, of O.Reg. 153/04

During the site reconnaissance, DS observed a parking area on the Property that would likely have de-icing salts applied during the winter months for safety purposes. As such, a Potentially Contaminating Activity (PCA) for de-icing activities applies to this portion of the Property. However, it is the opinion of the Qualified Person that the contaminants of potential concern associated with the PCA (including electrical conductivity and sodium adsorption ratio in soil and chloride and sodium in ground water) do not require further investigation since exceedances of these parameters would be deemed not to exceed based on paragraph 1 of section 49.1 of O.Reg.153/04.

Based on the findings of the Phase I ESA it was concluded that a Phase II ESA is warranted to assess the soil and groundwater conditions on the Site.

This Phase II ESA was completed concurrently with the geotechnical investigation which involved the advancement of seven (7) boreholes, which were completed on December 6 and December 9, 2024. The boreholes were advanced to a maximum depth of 7 metres below ground surface (mbgs) under the supervision of DS personnel. Groundwater monitoring wells were installed in three (3) of the boreholes to allow for an assessment of groundwater

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flow direction and groundwater conditions. The borehole locations were determined based on the findings of the Phase I ESA. Soil and groundwater samples were collected and submitted for analysis of all COPCs, including: Petroleum Hydrocarbons (PHCs), Benzene, Toluene, Ethylbenzene, Xylene (BTEX), Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs), Organochlorine Pesticides (OCPs), Metals, hydride forming metals (Arsenic (As), Antimony (Sb), Selenium (Se)) and Other Regulated Parameters (ORPs : Mercury (Hg), Cyanide (CN<sup>-</sup>)), and Polychlorinated Biphenyls (PCBs).

The soil and groundwater analytical results were compared to the “Table 2 SCS: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for Residential/Parkland/Institutional Use with coarse-textured soils” provided in the MECP document entitled, “*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*” dated April 15, 2011 (MECP Table 2 SCS) for coarse-textured soils and residential/parkland/institutional property use.

Based on the findings of the Phase II ESA, DS presents the following findings:

- ◆ A surficial layer of topsoil, ranging in thickness from 150 mm to 250 mm, was encountered in all of the boreholes advanced except for BH24-3. At BH24-3, a 180 mm thick layer of granular fill material consisting of sand and gravel mixed with asphalt was encountered at the ground surface. Fill material, consisting of sand and gravel, ranging in thickness from 0.4 to 1.3 m was encountered below the topsoil in BH24-2 and BH24-4. Clayey silt to silty clay, ranging in thickness from 0.2 to 0.6 m was encountered below the topsoil in BH24-1, BH24-5, and BH24-6, and below the fill material in BH24-3 and BH24-4. Clayey silt to silty clay till, ranging in thickness from 1.5 to 6.2 m was encountered below the clayey silt to silty clay in BH24-1, BH24-3, BH24-4, BH24-5, BH24-6, BH24-7 and below the fill material in BH24-2. Sandy silt till, ranging in thickness from 0.7 to 2.4 m was encountered at 6.0 m to borehole termination at 6.7 m in BH24-3 and below the clayey silt to silty clay till in BH24-5. Another layer of clayey silt to silty clay till was encountered from 4.7 m to borehole termination at a depth of 6.7 m in BH24-5. Bedrock was not encountered during this investigation.
- ◆ The depth to groundwater was measured in three (3) monitoring wells installed during the course of this investigation. The monitoring wells were screened to intercept the groundwater water table encountered within the clayey silt to silty clay unit. The groundwater levels were found to range between 0.68 to 3.81 mbgs, with corresponding elevations of 257.19 to 258.92 metres above sea level (masl) on

January 10, 2025. Based on the groundwater elevations recorded, the groundwater flow direction is interpreted to be southeasterly towards Fletcher’s Creek. It is possible that the groundwater levels may vary seasonally. The groundwater flow direction can only be confirmed through long term monitoring.

- ◆ Soil samples were collected from the boreholes advanced on the Site and submitted for analysis of: PHCs, BTEX, VOCs, Metals, As, Sb, Se, Other Regulated Parameters (ORPs), PAHs, OCPs, pH, and PCBs. The results of the soil chemical analyses indicated that the soil samples met the MECP Table 2 SCS for the parameters analyzed at the locations tested.
- ◆ Groundwater samples were collected from one (1) monitoring well and submitted for analysis of PHCs, BTEX, VOCs, Metals, As, Sb, Se, and ORPs, and PAHs. The well was sampled on two different occasions to assess the groundwater quality. The results of the chemical analyses conducted indicated the following exceedances of the MECP Table 2 SCS:

**Table 1-2: Summary of Groundwater Impacts Identified**

Sample ID	Date Sampled	Well Screen Interval (mbgs)	Parameter	Units	MECP Table 2 SCS	Reported Value
BH24-2	December 18, 2024	3.10-6.10	Cobalt	µg/L	3.8	16
	January 10, 2025					38

Based on a review of the findings of this Phase II ESA, DS presents the following conclusions and recommendations:

- ◆ The results of the chemical analyses indicated that the applicable Site Condition Standards for soil have been met, with respect to the issues of potential environmental concern identified in the Phase I ESA. No further soil investigation is recommended at this time.
- ◆ The applicable Site Condition Standards for groundwater have not been met. It is the opinion of the Qualified Person that the elevated cobalt in groundwater is likely natural occurring and not from an anthropogenic source. Consideration should be given to continuing to monitor the groundwater quality at the location of monitoring well BH24-2.
- ◆ All monitoring wells should be decommissioned in accordance with O.Reg. 903 when no longer required.



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## 2.0 Introduction

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DS Consultants Ltd. (DS) was retained by Argo Mayfield West V Limited to complete a Phase II Environmental Site Assessment (ESA) of the Property located at 12192 Chinguacousy Road, Caledon, Ontario, herein referred to as the “Phase II Property” or “Site”. It is DS’s understanding that this Phase II ESA has been requested for due diligence purposes in association with the proposed acquisition and redevelopment of the Property for residential purposes.

This Phase II ESA was conducted in general accordance with the CSA Standards Association protocols outlined in the document “*Phase II Environmental Site Assessment, CSA Standard Z769-00 (R2013)*” dated 2000, and reaffirmed in 2013. It should be noted that the CSA methodology is sufficient for due diligence purposes but cannot be used to support the filing of a Record of Site Condition for the Site.

The objective of this Phase II ESA is to confirm whether contaminants are present, and at what concentration are they present on the Site, as related to the Areas of Potential Environmental Concern (APEC) identified in the Phase I ESA.

### 2.1 Site Description

The Phase I Property is a 6.05-hectare (14.95 acres) parcel of land situated within a rural setting in the Town of Caledon, Ontario. The Phase II Property is located approximately 510 m northwest of the intersection of Chinguacousy Road and Mayfield Road. The Property was occupied by multiple paddocks, animal barns, storage sheds, a grass field, and a residential house at the time of the investigation. A Site Location Plan is provided in Figure 1.

A Plan of Survey for the Property dated December 9, 2024, and prepared by R-PE Surveying Ltd., an Ontario Land Surveyor, has been provided under Appendix A.

The Site is currently occupied by a residential house, three (3) paddocks, two (2) barns, two (2) storage sheds, a parking area, and a grass field. Note that one of the storage sheds has attached animal enclosures. A Site Plan depicting the orientation of the buildings on-site is provided in Figure 2.

Additional details regarding the Site are provided in the table below.

**Table 2-1: Site Property Information**

Criteria	Information	Source
Legal Description	PT LT 18 CON 3 WHS CHINGUACOUSY AS IN RO1101303; CALEDON	Land Registry Office
Property Identification Number (PIN)	14252-0037 (LT)	Land Registry Office

Criteria	Information	Source
Current Site Occupants	Harjinder Dhaliwal Kamaljit Kaur Dhaliwal Rajdeep Dhaliwal Harviarinder Singh Rupinder Kaur	Site Reconnaissance Interview
Site Area	6.05 hectares (14.95 acres)	Town of Caledon Address Search Map

## 2.2 Property Ownership

The ownership details for the Site are provided in the table below.

**Table 2-2: Site Ownership**

Property Owner	Address	Contact
Harjinder Dhaliwal	12192 Chinguacousy Road Caledon, Ontario L7C 1S9	Harjinder Dhaliwal 647-523-3259

## 2.3 Current and Proposed Future Use

The Site is currently occupied by multiple tenants for agricultural and residential property use under O.Reg. 153/04 (as amended). It is DS’s understanding that the Client intends to redevelop the Site for residential use.

## 2.4 Applicable Site Condition Standards

The applicable Site Condition Standards (SCS) for the Site are considered by the Qualified Person (QP) to be the Table 2 SCS: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for Residential/Parkland/Institutional Use with coarse-textured soils as contained in the April 15, 2011 Ontario Ministry of Environment and Climate Change (MOECC) “Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act”, herein referred to as the “MECP Table 2 SCS”.

The selection of the Table 2 SCS is considered appropriate based on the following rationale:

- ◆ The residential house on the Site obtains their water via private wells and rely on groundwater as a potable water source;
- ◆ The Site is not considered to be environmentally sensitive, as defined under O.Reg. 153/04 (as amended);
- ◆ The proposed future use of the Site will be residential;
- ◆ The Site is not located within 30 m of a water body;

- 
- ◆ The pH of the soils analyzed during this Phase Two ESA are within the accepted range specified under O.Reg. 153/04 (as amended); and
  - ◆ Bedrock was not encountered within 2 metres of the ground surface.

## **3.0 Background Information**

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### **3.1 Physical Setting**

#### **3.1.1 Water Bodies and Areas of Natural Significance**

The nearest water body is a tributary of Fletcher's Creek, located approximately 550 m southeast of the Site.

The Natural Heritage Areas database published by the Ministry of Natural Resources and Forestry (MNR) was reviewed in order to identify the presence/absence of areas of natural significance including provincial parks, conservation reserves, areas of natural and scientific interest, wetlands, environmentally significant areas, habitats of threatened or endangered species, and wilderness areas. The Region of Peel and Town of Caledon Official Plans were also reviewed as part of this assessment.

A review of the MNR database indicated that the Site had not yet been surveyed by the MNR. The MNR database did not cover the Site.

Additionally, the Town of Caledon Official Plans were consulted to determine if the Site is located within an environmentally significant area. No areas of Natural Significance were identified on-Site or within 30 m of the Site.

#### **3.1.2 Topography and Surface Water Draining Features**

The Site is located in a rural setting, at an elevation of approximately 257 to 260 metres above sea level (masl). The topography of the Site and neighbouring properties is generally flat, with a slight slope to the southeast.

Drainage swales were observed on the property, and were used to maintain drainage across the agricultural fields. Surface flow associated with precipitation events is anticipated to run overland into the drainage swales and drain off-site.

### **3.2 Past Investigations**

#### **3.2.1 Previous Report Summary**

No previous environmental reports were provided for review.

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## 4.0 Scope of the Investigation

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The scope of the Phase II ESA was designed to investigate the portions of the Site determined in the Phase I ESA to be Areas of Potential Environmental Concern. This Phase II ESA was conducted in general accordance with the CSA Standards Association protocols outlined in the document “*Phase II Environmental Site Assessment, CSA Standard Z769-00 (R2013)*” dated 2000, and reaffirmed in 2013. The scope of the investigation including the subsurface investigation, sampling, and laboratory analysis was based on the findings of the Phase I ESA.

### 4.1 Overview of Site Investigation

The following tasks were completed as part of the Phase II ESA:

- ◆ Prepared a Health and Safety Plan to ensure that all work was executed safely;
- ◆ Obtained clearance of public and private underground utility services prior to commencement of subsurface investigative operations;
- ◆ Prepared a Sampling and Analysis Plan (SAP);
- ◆ Retained a MECP licensed driller to advance a total of seven (7) boreholes on the Site, to depths ranging between 1.3 to 7.0 mbgs. Three (3) of the boreholes were instrumented with groundwater monitoring wells upon completion. The soil lithology was logged during drilling, and representative soil samples were collected at regular intervals. The soil samples were screened for organic vapours using an RKI Eagle 2 MultiGas Detector, and examined for visual and olfactory indications of soil impacts;
- ◆ Submitted “worst case” soil samples collected from the boreholes for laboratory analysis of relevant contaminants of potential environmental concern (COPCs) as identified in the Phase I ESA;
- ◆ Conducted groundwater level measurements in the monitoring wells in order to determine the groundwater elevation, and to establish the local groundwater flow direction;
- ◆ Surveyed all monitoring wells to a geodetic benchmark;
- ◆ Compared all soil analytical data to the applicable MECP SCS; and
- ◆ Prepared a Phase II ESA Report.

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## 4.2 Media Investigated

### 4.2.1 Rationale for Inclusion or Exclusion of Media

**Table 4-1: Rationale of Sampling Media**

Media	Included or Excluded	Rationale
Soil	Included	Soil was identified as a media of potential environmental concern in the Phase I ESA, based on the historical operations conducted on-Site.
Groundwater	Included	Groundwater was identified as a media of potential environmental concern in the Phase I ESA, based on historical operations conducted on-Site.
Sediment	Excluded	Sediment is not present on the Site.
Surface Water	Excluded	Surface water is not present on the Site.

### 4.2.2 Overview of Field Investigation of Media

**Table 4-2: Field Investigation of Media**

Media	Methodology of Investigation
Soil	A total of seven (7) boreholes were advanced on the Site, to a maximum depth of 7.0 mbgs. Soil samples were collected and submitted for analysis of all relevant COPCs.
Groundwater	A total of three (3) monitoring wells were present on the Phase Two Property at the time of the investigation. Representative groundwater samples were collected from monitoring well BH24-2 and submitted for analysis of all relevant COPCs.

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## 5.0 Investigation Method

### 5.1 General

The Phase II ESA followed the methodology outlined in the following documents:

- Ontario Ministry of the Environment “Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario” (December 1996);
- Ontario Ministry of the Environment “Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” (July 2011) (Analytical Protocol);

The methods used in the Phase II ESA investigation did not differ from the associated standard operating procedures.

## 5.2 Drilling and Excavating

A site visit was conducted prior to drilling in order to identify the borehole locations based on the APECs identified in the Phase I ESA. The selected borehole locations are presented on Figure 4. The borehole locations were cleared of underground public and private utility services prior to commencement of drilling. A summary of the drilling activities is provided in the table below.

**Table 5-1: Summary of Drilling Activities**

Parameter	Details
Drilling Contractor	Kodiak Drilling
Drilling Dates	December 6, 2024, and December 9, 2024
Drilling Equipment Used	Geoprobe
Measures taken to minimize the potential for cross contamination	<ul style="list-style-type: none"> <li>◆ Soil sampling was conducted using a 50 mm stainless steel split spoon sampler to collect soil samples from the boreholes. The split spoon sampler was brushed clean of soil, washed in municipal water containing phosphate free detergent, rinsed in municipal water, and then rinsed with distilled water for each sampling interval in order to reduce the potential for cross contamination;</li> <li>◆ Use of dedicated and disposable acrylonitrile gloves for the handling of soil samples. A new set of gloves was used for each sample.</li> </ul>
Sample collection frequency	Samples were collected at a frequency of every 0.6 m per 0.8 m from the ground surface to 3.1 mbgs, followed by one sample per 1.5 m to borehole termination depth.

## 5.3 Soil Sampling

Soil samples were collected using a split spoon sampling system. Discrete soil samples were collected from the split-spoon samplers by DS personnel using dedicated nitrile gloves.

A portion of each sample was placed in a resealable plastic bag for field screening, and the remaining portion was placed into laboratory supplied glass sampling jars. Samples intended for VOC and the F1 fraction of petroleum hydrocarbons analysis were collected using a laboratory-supplied soil core sampler, placed into the vials containing methanol for preservation purposes and sealed using Teflon lined septa lids. All sample jars were stored

in dedicated coolers with ice for storage, pending transport to the analytical laboratory. A formal chain of custody was maintained for all samples submitted to the laboratory.

The subsurface soil conditions were logged by DS personnel at the time of drilling and recorded on field borehole logs. The borehole logs are presented under Appendix C. Additional details regarding the lithology encountered in the boreholes is presented under Section 6.1.

#### 5.4 Field Screening Measurements

All retrieved soil samples were screened in the field for visual and olfactory observations. No obvious visual or olfactory evidence of potential contamination was noted. No aesthetic impacts (e.g. cinders, slag, hydrocarbon odours) were encountered during this investigation. The soil sample headspace vapour concentrations for all soil samples recovered during the investigation were screened using portable organic vapour testing equipment in accordance with the procedure outlined in the MOECC's '*Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*'.

The soil samples were inspected and examined to assess soil type, ground water conditions, and possible chemical contamination by visual and olfactory observations or by organic vapour screening. Samples submitted for chemical analysis were collected from locations judged by the assessor to be most likely to exhibit the highest concentrations of contaminants based on several factors including (i) visual or olfactory observations, (ii) sample location, depth, and soil type (iii) ground water conditions and headspace readings. A summary of the equipment used for field screening is provided below:

**Table 5-2: Field Screening Equipment**

Parameter	Details
Make and Model of Field Screening Instrument	RKI Eagle 2, Model 2101-P2 Serial Number: E2G721
Chemicals the equipment can detect and associated detection limits	VOCs with dynamic range of 0 parts per million (ppm) to 2,000 ppm PHCs with range of 0 to 50,000 ppm
Precision of the measurements	3 significant figures
Accuracy of the measurements	VOCs: $\pm 10\%$ display reading + one digit Hydrocarbons: $\pm 5\%$ display reading + one digit
Calibration reference standards	PID: Isobutylene CGD: Hexane

Parameter	Details
Procedures for checking calibration of equipment	In-field re-calibration of the CGI was conducted (using the gas standard in accordance with the operator's manual instructions) if the calibration check indicated that the calibration had drifted by more than +/- 10%.

A summary of the soil headspace measurements are provided in the borehole logs, appended under Appendix C.

## 5.5 Groundwater Monitoring Well Installation

Monitoring wells were installed upon completion of three (3) of the boreholes advanced on the Site. The monitoring wells were constructed of 51-millimetre (2-inch) inner diameter (ID) flush-threaded schedule 40 polyvinyl chloride (PVC) risers, equipped with a 1.5 m length of No. 10 slot PVC screen. The well screens were sealed at the bottom using a threaded cap and at the top with a lockable J-plug.

Silica sand was placed around and up to 0.6 m above the well screen to act as a filter pack. Bentonite was placed from the ground surface to the top of the sand pack. The wells were completed with protective aboveground monument casings.

Details regarding the monitoring well construction can be found in Table 1, and on the borehole logs provided in Appendix C.

Disposable nitrile gloves were used to minimize the potential for cross-contamination during well installation.

## 5.6 Groundwater Field Measurement of Water Quality Parameters

Field measurements of water quality parameters including temperature, specific conductivity, pH, turbidity, dissolved oxygen, oxidation-reduction potential and turbidity were collected using a flow-through cell and a YSI Water Quality Meter (YSI-556™). The YSI Water Quality Meter was calibrated by the supplier (Maxim) in accordance with the manufacturer's specifications.

The measurements were conducted at regular intervals in order to determine whether stabilized geochemical conditions had been established in the monitoring well, indicating representative groundwater conditions.

The field measurements have been archived and can be provided upon request.



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## **5.7 Groundwater Sampling**

Groundwater samples were collected a minimum of 24 hours after the development of the monitoring wells. The monitoring wells could not be sampled using low flow methodology due to the low yield and recovery of the monitoring wells. The monitoring wells were purged to dryness at the lowest possible pumping rate. The monitoring wells were allowed to recover prior to sampling. Groundwater samples to be submitted for analysis of volatile parameters (PHC F1, and VOCs) were collected using a dedicated inertial pump. The remaining samples were collected using a peristaltic pump with dedicated 6.4 mm ID polyethylene tubing.

Groundwater samples for metals analysis were field filtered using dedicated 0.45 micro in-line filters. The groundwater was transferred directly into laboratory supplied containers and preserved as appropriate using the containers supplied by the analytical laboratory. The samples were placed in coolers upon completion of sampling and stored on ice for storage, pending transport to the analytical laboratory. A formal chain of custody was maintained for all samples submitted to the laboratory.

## **5.8 Sediment Sampling**

No sediment as defined under O.Reg. 153/04 (as amended) was present on the Site at the time of this investigation. Sediment sampling was not conducted as a result.

## **5.9 Analytical Testing**

The soil and groundwater samples collected were submitted to Bureau Veritas (BV) Analytics under chain of custody protocols. BV is a member of the Standards Council of Canada (SCC) and meets the requirements of Section 47 of O.Reg. 153/04 (as amended) certifying that the analytical laboratory be accredited in accordance with the International Standard ISO/IEC 17025 and with standards developed by the Standards Council of Canada. BV conducted the analyses in accordance with the MECP document “Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” dated March 9, 2004 (revised on July 1, 2011).

## **5.10 Residue Management Procedures**

### **5.10.1 Soil Cuttings From Drilling and Excavations**

The soil cuttings generated by the borehole drilling program were left on-site for disposal at the time of site redevelopment.

### 5.10.2 Fluids from Equipment Cleaning

Excess equipment cleaning fluids were stored in 20-L sealed plastic pails and removed by the drilling contractor.

### 5.11 Elevation Surveying

The ground surface elevations of the boreholes/monitoring wells were surveyed using a Sokkia GCX-2 GNSS RTK receiver.

The ground surface elevations can be found on the borehole logs presented in Appendix A.

### 5.12 Quality Assurance and Quality Control Measures

All soil samples were stored in laboratory-supplied sample containers in accordance with the MECP Analytical Protocol. A summary of the preservatives supplied by the laboratory is provided in the table below.

**Table 5-3: Summary of Sample Bottle Preservatives**

Media	Parameter	Sample Container
Soil	PHCs F1 VOCs	40 mL methanol preserved glass vial with septum lid.
	PHCs F2-F4 metals and ORPs PAHs	120 mL or 250 mL unpreserved glass jar with Teflon™-lined lid.
Groundwater	PHCs F1 VOCs	40 mL glass vial with septum lid, containing sodium bisulphate preservative.
	PHCs F2-F4	250 mL amber glass bottle with sodium bisulphate preservative
	PAHs	250 mL amber glass bottle (unpreserved)
	Inorganics	500 mL high density polyethylene bottle (unpreserved)
	Metals	125 mL high density polyethylene bottle containing nitric acid preservative
	Hexavalent Chromium	125 mL high density polyethylene bottle containing ammonium sulphate/ammonium hydroxide preservative
	Mercury	125 mL glass bottle containing hydrochloric acid preservative
Cyanide	125 mL high density polyethylene bottle containing sodium hydroxide preservative	

Each sample container was labelled with a unique sample identification, the project number, and the sampling date. All samples were placed in an ice-filled cooler upon completion of sampling, and kept under refrigerated conditions until the time of delivery to the analytical laboratory. A formal chain of custody was maintained for all samples submitted to the laboratory.

Dedicated, disposable nitrile gloves were used for each sampling event to reduce the potential for cross-contamination.

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The split spoon sampler was brushed clean of soil, washed in municipal water containing phosphate free detergent, rinsed in municipal water, and then rinsed with distilled water for each sampling interval in order to reduce the potential for cross contamination. Dedicated equipment was used for well development and sampling to further minimize the risk of cross contamination. Non-dedicated equipment (i.e. interface probe) was cleaned before initial use and between all measurement points with a solution of Alconox™ and distilled water. The Alconox™ solution was rinsed off using distilled water.

Field duplicate samples were collected at the time of sampling. In accordance with O.Reg. 153/04, one duplicate sample was analyzed per ten samples submitted for analysis.

All field screening devices (i.e. RKI Eagle 2) were calibrated prior to use by the supplier. Calibration checks were completed, and re-calibrations were conducted as required.

## **6.0 Review and Evaluation**

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### **6.1 Geology**

A summary of the subsurface conditions is presented below. Additional details may be found in the borehole logs appended in Appendix C.

#### **Topsoil:**

A surficial topsoil layer, ranging in thickness from 150 to 250 mm was encountered at all borehole locations except BH24-3.

#### **Granular Fill Materials:**

At BH24-3, a 180 mm thick layer of granular fill material consisting of sand and gravel mixed with asphalt was encountered at the ground surface.

#### **Fill and Weathered/Disturbed Soils:**

Below the surficial topsoil in BH24-2 and BH24-3, clayey silt to silty clay (BH24-2) and sand and gravel (BH24-3) fill materials were encountered and extended to a depth of 1.5 and 0.6 m below the existing ground surface, respectively. Inclusions of rootlets/organics were observed in the fill material in BH24-2. Below the fill material in BH24-3 and the topsoil in BH24-1 and BH24-4 to BH24-6, weathered/disturbed clayey silt to silty clay with inclusions of rootlets was encountered and extended to a depth of 0.8 m below the existing ground surface.

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### **Clayey Silt to Silty Clay Till:**

Below the fill material in boreholes BH24-2 and the weathered/disturbed soils in the remaining boreholes, clayey silt to silty clay till deposits were encountered and extended to depths ranging from 6.0 to 7.0 m below the existing ground surface, except for in BH24-3. The clayey silt to silty clay till deposits were found with trace to some gravel, some sand to sandy, fine roots in BH24-2, sandy silt layer and silt pockets in BH24-1, sand seams in BH24-4, and a silty sand layer in BH24-6. Cobbles/boulders were inferred within the till deposits during drilling.

### **Sandy Silt Till:**

Sandy silt (till) deposits were encountered below and embedded within the clayey silt to silty clay (till) deposits in boreholes BH24-3 and BH24-5 and extended to a depth of 6.7 and 4.7 m below the existing ground surface, respectively. Borehole BH24-3 was terminated in the sandy silt (till) deposit. This deposit typically contained trace to some gravel, some clay to clayey, and occasional cobbles/boulders.

## **6.2 Ground Water Elevations and Flow Direction**

### **6.2.1 Rationale for Monitoring Well Location and Well Screen Intervals**

A total of three (3) monitoring wells were installed on the Site for geotechnical purposes, including one (1) well that was also used for environmental purposes. The monitoring wells were screened to intersect the first water bearing formation encountered. The monitoring wells were screened to intercept the water table within the clayey silt to silty clay till unit encountered at an approximate depth of 0.2 to 7.0 mbgs.

### **6.2.2 Results of Interface Probe Measurements**

A summary of the groundwater level measurements is provided in Table 1. The groundwater level measurements were collected using a Solinst Model 122 interface probe. The depth to groundwater was found to range between 0.68 to 3.81 mbgs on January 10, 2025. There was no indication of DNAPL or LNAPL in the monitoring wells at this time.

### **6.2.3 Product Thickness and Free Flowing Product**

No evidence of product was observed in the monitoring wells at the time of the investigation.

### **6.2.4 Groundwater Elevation and Flow Direction**

The groundwater elevation was calculated by subtracting the depth to groundwater from the surface elevation determined by the surface elevation survey conducted as part of this

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investigation. A summary of the groundwater elevations calculated is presented in Table 1. Generally, the groundwater elevation was found to range from 257.19 to 258.92 masl in the upper aquifer investigated. Based on the groundwater elevations recorded, the interpreted groundwater flow direction is southeasterly.

### **6.3 Fine-Medium Soil Texture**

For the purposes of evaluating the SCS, all soils on the Phase II Property are considered to be course textured.

### **6.4 Soil Field Screening**

Soil vapour headspace readings were collected at the time of sample collection, the results of which are presented on the borehole logs in Appendix C. The soil vapour headspace readings were collected using a PID and CGD in methane elimination mode. The PID and CGD readings were all non-detectable (0ppm).

The soil samples were also screened for visual and olfactory indicators of impacts (e.g. staining, odours). No visual or olfactory indicators were noted at the time of sampling.

### **6.5 Soil Quality**

The results of the chemical analyses conducted are presented in Tables 5 through 10. A visual summary of the location of the sample locations is provided in Figure 7. The laboratory certificates of analysis have been provided under Appendix D.

#### **6.5.1 Metals and Other Regulated Parameters (ORPs)**

A total of six (6) samples, including one (1) field duplicate for QA/QC purposes were submitted for analysis of metals and ORPs. Two (2) additional samples were submitted for pH. The results of the analyses are tabulated in Table 5 and presented on Figure 7. The results of the analyses indicated no exceedances of the Table 2 SCS.

#### **6.5.2 Petroleum Hydrocarbons (PHCs)**

Three (3) samples were submitted for analysis of PHCs (incl. BTEX). The results of the analyses are tabulated in Table 6 and presented on Figure 7. The results of the analyses indicated no exceedances of the Table 2 SCS.

#### **6.5.3 Volatile Organic Compounds (VOCs)**

Two (2) samples were submitted for analysis of VOCs. The results of the analyses are tabulated in Table 7 and presented on Figure 7. The results of the analyses indicated no exceedances of the Table 2 SCS.

#### 6.5.4 Polycyclic Aromatic Hydrocarbons (PAHs)

Two (2) samples were submitted for analysis of PAHs. The results of the analyses are tabulated in Table 8 and presented in Figure 7. The results of the analyses indicated no exceedances of the Table 2 SCS.

#### 6.5.5 Organochlorine Pesticides (OCPs)

A total of six (6) samples, including one (1) field duplicates for QA/QC purposes were submitted for analysis of OCPs. The results of the analyses are tabulated in Table 9 and presented in Figure 7. The results of the analyses indicated no exceedances of the Table 2 SCS.

#### 6.5.6 Polychlorinated Biphenyls (PCBs)

One (1) sample was submitted for analysis of PCBs. The results of the analyses are tabulated in Table 10 and presented in Figure 7. The results of the analyses indicated no exceedances of the Table 2 SCS.

### 6.6 Ground Water Quality

The results of the chemical analyses conducted are presented in Tables 11 through 14. A visual summary of the sample locations is provided in Figure 8. The laboratory certificates of analysis have been provided under Appendix D.

#### 6.6.1 Metals and Other Regulated Parameters (ORPs)

A total of two (2) samples were submitted for analysis of metals and ORPs. The results of the analyses are tabulated in Table 11 and presented on Figure 7. The results of the analyses indicated the following exceedances of the Table 2 SCS:

**Table 6-1: Summary of Metals and ORPs Exceedances in Groundwater**

Sample ID	Date Sampled	Well Screen Interval (mbs)	Parameter	Units	Table 2 SCS	Reported Value
BH/MW24-2	December 18, 2024	3.10-6.10	Cobalt	µg/L	3.8	16
	January 10, 2025					38

#### 6.6.4 Petroleum Hydrocarbons (PHCs)

One (1) sample was submitted for analysis of PHCs (incl. BTEX), and one (1) trip blank for QA/QC purposes. The results of the analyses are tabulated in Table 12 and presented on Figure 8. The results of the analyses indicated no exceedances of the Table 2 SCS.

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### 6.6.1 Volatile Organic Compounds (VOCs)

One (1) sample was submitted for analysis of VOCs, and one (1) trip blank for QA/QC purposes. The results of the analyses are tabulated in Table 13 and presented on Figure 8. The results of the analyses indicated no exceedances of the Table 2 SCS.

### 6.6.2 Polycyclic Aromatic Hydrocarbons (PAHs)

One (1) sample was submitted for analysis of PAHs. The results of the analyses are tabulated in Table 14 and presented on Figure 8. The results of the analyses indicated no exceedances of the Table 2 SCS.

## 6.7 Sediment Quality

The quality of sediment was not assessed as part of this investigation. No sediment was present on the Site at the time of the investigation.

## 6.8 Quality Assurance and Quality Control Results

Collection of soil and groundwater samples was conducted in general accordance with the MECP *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*. As described in Section 5.12, dedicated equipment was used where possible, and all non-dedicated equipment was decontaminated before and between sampling events. All soil samples were transferred directly into laboratory-supplied containers. The laboratory containers were prepared by the laboratory with suitable preservative, as required. All samples were stored and transported under refrigerated conditions. Chain of custody protocols were maintained from the time of sampling to delivery to the analytical laboratory. The field QA/QC program involved the collection of field duplicate soil samples, analytical laboratory method blanks, internal laboratory duplicates, surrogate spike samples, matrix spike samples, and standard reference materials.

A summary of the field duplicate samples analyzed and an interpretation of the efficacy of the QA/QC program is provided in the table below.

**Table 6-2: Summary of QA/QC Results**

Sample ID	QA/QC duplicate	Medium	Parameters Analyzed	QA/QC Result
DUP-1	BH24-1 SS1	Soil	OC Pesticides, Metals and ORPs	All results were within the analytical protocol criteria for RPD.

Based on the interpretation of the laboratory results and the QA/QC program, it is the opinion of the QP that the laboratory analytical data can be relied upon. All samples were

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handled in accordance with the MECP Analytical Protocol regarding sample holding time, preservation methods, storage requirements, and type of container.

Bureau Veritas routinely conducts internal QA/QC analyses in order to satisfy regulatory QA/QC requirements. The results of the Bureau Veritas QA/QC analyses for the submitted soil samples are summarized in the laboratory Certificates of Analyses provided in Appendix D.

With respect to subsection 47(3) of O.Reg 153/04 (as amended), all certificates of analysis or analytical reports pursuant to clause 47(2) (b) of the regulation comply with subsection 47(3). A certificate of analysis has been received for each sample submitted for analysis and has been provided (in full) in Appendix D.

A review of the QA/QC sample results indicated that no issues were identified with respect to both the field collection methodology and the laboratory reporting. It is the opinion of the QP that the analytical data obtained are representative of the soil and groundwater conditions at the Site for the purpose of assessing whether the soil and groundwater at the Phase II Property meets the applicable MECP SCS.



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## 7.0 Conclusions

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This Phase Two ESA involved the advancement of seven (7) boreholes, the installation of three (3) monitoring wells on the Site, one (1) of which was for environmental purposes, and the collection of soil and groundwater samples for analysis of the potential contaminants of concern, including: PHCs, BTEX, VOCs, PAHs, OCPs, Metals, As, Sb, Se, Hg, CN<sup>-</sup>, and PCBs.

Based on the results of the information gathered through the course of the investigation, DS presents the following conclusions:

- ◆ The results of the chemical analyses indicated that the applicable Site Condition Standards for soil have been met, with respect to the issues of potential environmental concern identified in the Phase I ESA. No further soil investigation is recommended at this time.
- ◆ The applicable Site Condition Standards for groundwater have not been met. It is the opinion of the Qualified Person that the elevated cobalt in groundwater is likely natural occurring and not from an anthropogenic source. Consideration should be given to continuing to monitor the groundwater quality at the location of monitoring well BH24-2.
- ◆ All monitoring wells should be decommissioned in accordance with O.Reg. 903 when no longer required.

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## **7.1 Qualifications of the Assessors**

### **Aisha Sharif, MEnvSc., G.I.T.**

Ms. Aisha Sharif is an Environmental Specialist with DS Consultants Ltd. Ms. Sharif has an Honours Bachelor of Science degree specializing in environmental geoscience and a Master of Environmental Science degree, both from the University of Toronto. Her academic experiences include multiple publications in reputable scientific journals, providing her with strong background knowledge in environmental geoscience. Ms. Sharif is registered with the Professional Geoscientists of Ontario (PGO) as a Geoscientist in Training (G.I.T.).

### **Megan Bender, B.E.S, EP**

Megan Bender is an Assistant Project Manager with DS Consultants Ltd. Megan holds a Bachelor's degree in Environmental Studies, specializing in environmental assessments, a minor in geography from the University of Waterloo and a Post Graduate Certificate in Environmental Engineering Applications from Conestoga College. Megan is registered as an Environmental Professional (EP) with ECO Canada. Megan has been involved with Phase One and Phase Two Environmental Site Assessments, remediation, excess soil management, data interpretation and reporting, and geotechnical projects.

### **Teresa Weatherhead, LEL, QP<sub>ESA</sub>**

Ms. Teresa Weatherhead is an Environmental Team Lead with DS Consultants Limited who has 17 years of direct experience in the consulting industry. Ms. Weatherhead has an Honours Science Degree from the University of Waterloo and a Post Graduate Diploma in Environmental Engineering Applications from Conestoga College. Ms. Weatherhead is a registered Limited Engineering Licensee (LEL) in the Province of Ontario. Ms. Weatherhead has conducted and supervised numerous Phase One and Phase Two Environmental Site Assessments for a variety of agricultural, residential, industrial, commercial and institutional properties. She also has experience in site remediation, environmental monitoring, submission of Record of Site Conditions and Excess Soil Management. Teresa is considered a Qualified Person to conduct Environmental Site Assessments as defined by Ontario Regulation 153/04 (as amended).

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## 7.2 Signatures

This Phase Two ESA was conducted under the supervision of Ms. Teresa Weatherhead, LEL, QP<sub>ESA</sub>, in accordance with the requirements of O.Reg. 153/04 (as amended). The findings and conclusions presented have been determined based on the information obtained at the time of the investigation, and on an assessment of the conditions of the Site at this time.

We trust this report meets with your requirements. Should you have any questions regarding the information presented, please do not hesitate to contact our office.

Yours truly,

**DS Consultants Ltd**

DRAFT

DRAFT

Aisha Sharif, H.B.Sc., MEnvSc., G.I.T.  
Environmental Specialist

Megan Bender, B.E.S., EP  
Assistant Project Manager - Environmental

DRAFT

Teresa Weatherhead, LEL  
Environmental Team Lead

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### **7.3 Limitations**

This report was prepared for the sole use of Argo Mayfield West V Limited and is intended to provide an assessment of the environmental condition on the property located at 12192 Chinguacousy Road, Caledon, Ontario. The information presented in this report is based on information collected during the completion of the Phase Two Environmental Site Assessment by DS Consultants Ltd. The material in this report reflects DS' judgment in light of the information available at the time of report preparation. This report may not be relied upon by any other person or entity without the written authorization of DS Consultants Ltd. The scope of services performed in the execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or reuse of this documents or findings, conclusions and recommendations represented herein, is at the sole risk of said users.

The conclusions drawn from the Phase Two ESA were based on information at selected observation and sampling locations. Conditions between and beyond these locations may become apparent during future investigations or on-site work, which could not be detected or anticipated at the time of this investigation. The sampling locations were chosen based upon a cursory historical search, visual observations and limited information provided by persons knowledgeable about past and current activities on this site during the Phase Two ESA activities. As such, DS Consultants Ltd. cannot be held responsible for environmental conditions at the site that was not apparent from the available information.

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## 8.0 References

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- ◆ Armstrong, D.K. and Dodge, J.E.P. *Paleozoic Geology Map of Southern Ontario*. Ontario Geological Survey, Miscellaneous Release--Data 219.
- ◆ Chapman, L.J. and Putnam, D.F. 2007. *The Physiography of Southern Ontario*. Ontario Geological Survey, Miscellaneous Release--Data 228.
- ◆ Freeze, R. Allen and Cherry, John A., 1979. *Ground water*. Page 29.
- ◆ Ontario Ministry of the Environment, December 1996. *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*.
- ◆ Ontario Ministry of Environment, 15 April 2011. *Soil, Ground Water and Sediment Standards for use under part XV.1 of the Environmental Protection Act*.
- ◆ Ontario Ministry of the Environment, June 2011. *Guide for Completing Phase Two Environmental Site Assessments under Ontario regulation 153/04*.
- ◆ Ontario Ministry of the Environment, July 2011. *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act*.
- ◆ The Ontario Geological Survey. 2003. *Surficial Geology of Southern Ontario*.
- ◆ "Phase I Environmental Site Assessment, 12192 Chinguacousy Road, Caledon, Ontario", prepared for Argo Mayfield West V Limited, prepared by DS Consultants Ltd., dated January 14, 2025.



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# Tables



**Table 1: Summary of Monitoring Well Installation and Groundwater Data**

Well ID		BH24-1	BH24-2	BH24-6	
Installed By:		DS	DS	DS	
Installation Date:		9-Dec-24	6-Dec-24	9-Dec-24	
Well Status:		Active	Active	Active	
EastUTM17		592508.027	592362.393	592134.817	
NorthUTM17		4841148.363	4840993.062	4840674.81	
Inner Diameter	(mm)	50	50	50	
Surface Elevation	(masl)	259.60	261.00	260.30	
Bottom of Concrete Seal/Top of Bentonite Seal	mbgs	0.00	0.00	0.00	
	masl	259.60	261.00	260.30	
Bottom of Bentonite Seal/Top of Sand Pack	mbgs	2.40	2.50	1.20	
	masl	257.20	258.50	259.10	
Top of Well Screen	mbgs	3.10	3.10	3.10	
	masl	256.50	257.90	257.20	
Well Screen Length	m	3.00	3.00	3.00	
Bottom of Well Screen	mbgs	6.10	6.10	6.10	
	masl	253.50	254.90	254.20	
<b>GW Monitoring</b>					
18-Dec-24	Depth to GW	mbgs	NM	5.83	2.31
	GW Elevation	masl		255.17	257.99
10-Jan-25	Depth to GW	mbgs	0.68	3.81	1.80
	GW Elevation	masl	258.92	257.19	258.50



**Table 2: Summary of Soil Samples Submitted for Chemical Analysis**

Borehole ID	Sample No.	Sample Depth (mbgs)	Soil Description	Parameter Analyzed	APEC Investigated
BH24-1	SS1	0.0 - 0.6	Topsoil	Metals and ORPs, OCPs	APEC-2
	DUP-1	0.0 - 0.6	Topsoil	Metals and ORPs, OCPs	APEC-2
	SS3	1.5 - 2.1	Topsoil	pH	General Investigation
BH24-2	SS1	0.0 - 0.6	Topsoil	Metals and ORPs, OCPs	APEC-2
	SS2	0.8 - 1.4	Fill - clayey silt to silty clay	PHCs, BTEX, VOCs, PAHs	APEC-1
	SS5	3.1 - 3.7	Clayey silt to silty clay till	PHCs, BTEX, VOCs, PAHs, pH	APEC-1
BH24-4	SS1	0.0 - 0.6	Topsoil	Metals and ORPs, OCPs	APEC-2
BH24-5	SS1	0.0 - 0.6	Topsoil	Metals and ORPs, OCPs	APEC-2
BH24-6	SS1	0.0 - 0.6	Topsoil	Metals and ORPs, OCPs	APEC-2
BH24-7	SS1	0.0 - 0.6	Clayey silt to silty clay	PHCs, BTEX, PCBs	APEC-4





**Table 3: Summary of Groundwater Samples Submitted for Chemical Analysis**

Well ID	Well Screen Interval (masl)		Sample Date	Parameter Analyzed	APEC Investigated	
BH24-2	254.90	-	257.90	18-Dec-24	PHCs, BTEX, VOCs, Metals and ORPs, PAHs	APEC-1
				10-Jan-25	Metals, As, Sb, Se	APEC-1



**Table 4: Summary of APECs Investigated**

APEC	Description	COPCs	Media	Boreholes Within APEC	Samples Analysed	Parameter Analyzed
APEC-1	According to the current owners, the previous owners had an oil tank in the basement of the residential houses. The basement floor where the oil tank was previously stored has minor staining.	PHCs, BTEX, VOCs, PAHs	Soil	BH24-2	SS2	PHCs, BTEX, VOCs, PAHs
					SS5	PHCs, BTEX, VOCs, PAHs, pH
			Groundwater	BH24-2	BH24-2	Metals and ORPs, PHCs, VOCs, PAHs
APEC-2	Inferred pesticide application on a historical agricultural field on the Property.	OCPs, Metals, As, Sb, Se, Hg, CN-	Soil	BH24-1	SS1	Metals and ORPs, OCPs
					DUP-1	Metals and ORPs, OCPs
				BH24-2	SS1	Metals and ORPs, OCPs
				BH24-4	SS1	Metals and ORPs, OCPs
				BH24-5	SS1	Metals and ORPs, OCPs
			BH24-6	SS1	Metals and ORPs, OCPs	
APEC-3	During the site reconnaissance, DS observed a parking area on the Property that would likely have de-icing salts applied during the winter months for safety purposes. As such, a Potentially Contaminating Activity (PCA) for de-icing activities applies to this portion of the Property. However, it is the opinion of the Qualified Person that the contaminants of potential concern associated with the PCA (including electrical conductivity and sodium adsorption ratio in soil and chloride and sodium in ground water) do not require further investigation since exceedances of these parameters would be deemed not to exceed based on paragraph 1 of section 49.1 of O.Reg.153/04.					
APEC-4	A transformer is located northeast of the residential house.	PCBs, PHCs, BTEX	Soil	BH24-7	SS1	PHCs, BTEX, PCBs

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section.

DS Consultants Ltd.

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**Table 5: Summary of Metals and ORPs in Soil**

Parameter	MECP Table 2 SCS	BH24-1 SS1	DUP-1 (BH24-1 SS1)	BH24-1 SS3	BH24-2 SS1
Date of Collection		9-Dec-24	9-Dec-24	9-Dec-24	6-Dec-24
Date Reported		23-Dec-24	23-Dec-24	23-Dec-24	23-Dec-24
Sampling Depth (mbgs)		0.0 - 0.6	0.0 - 0.6	1.5 - 2.1	0.0 - 0.6
Analytical Report Reference No.		R8457852	R8457852	R8457852	R8457852
Antimony	7.5	<0.20	<0.20	-	<0.20
Arsenic	18	4.9	5	-	3.6
Barium	390	98	94	-	63
Beryllium	4	0.97	0.91	-	0.6
Boron	120	6.8	8	-	<5.0
Boron (Hot Water Soluble)	1.5	0.29	0.094	-	0.42
Cadmium	1.2	0.16	0.11	-	0.44
Chromium	160	27	28	-	22
Chromium VI	8	<0.18	<0.18	-	<0.18
Cobalt	22	13	14	-	7.9
Copper	140	27	29	-	19
Cyanide	0.051	<0.01	<0.01	-	<0.01
Lead	120	12	12	-	13
Mercury	0.27	<0.050	<0.050	-	<0.050
Molybdenum	6.9	<0.50	<0.50	-	0.52
Nickel	100	29	32	-	16
Selenium	2.4	<0.50	<0.50	-	<0.50
Silver	20	<0.20	<0.20	-	<0.20
Thallium	1	0.16	0.17	-	0.12
Uranium	23	0.67	0.74	-	0.57
Vanadium	86	37	39	-	26
Zinc	340	69	69	-	63
Electrical Conductivity (2:1)	0.7	0.37	0.31	-	0.39
Sodium Adsorption Ratio	5	1.5	1.5	-	0.16
pH, 2:1 CaCl2 Extraction	NV	7.68	7.74	7.82	7.42

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section

DS Consultants Ltd.

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**Table 5: Summary of Metals and ORPs in Soil**

Parameter	MECP Table 2 SCS	BH24-2 SS5	BH24-4 SS1	BH24-5 SS1	BH24-6 SS1
Date of Collection		6-Dec-24	6-Dec-24	9-Dec-24	9-Dec-24
Date Reported		23-Dec-24	23-Dec-24	23-Dec-24	23-Dec-24
Sampling Depth (mbgs)		3.1 - 3.7	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6
Analytical Report Reference No.		R8457852	R8457852	R8457852	R8457852
Antimony	7.5	-	<0.20	<0.20	<0.20
Arsenic	18	-	4.1	5.7	5.6
Barium	390	-	82	74	110
Beryllium	4	-	0.74	0.69	1
Boron	120	-	8.3	<5.0	8.2
Boron (Hot Water Soluble)	1.5	-	0.09	0.12	0.1
Cadmium	1.2	-	<0.10	0.12	0.11
Chromium	160	-	22	23	26
Chromium VI	8	-	<0.18	0.19	<0.18
Cobalt	22	-	11	11	13
Copper	140	-	26	20	33
Cyanide	0.051	-	<0.01	<0.01	<0.01
Lead	120	-	8.5	9.2	9.2
Mercury	0.27	-	<0.050	<0.050	<0.050
Molybdenum	6.9	-	<0.50	<0.50	<0.50
Nickel	100	-	24	20	32
Selenium	2.4	-	<0.50	<0.50	<0.50
Silver	20	-	<0.20	<0.20	<0.20
Thallium	1	-	0.12	0.13	0.15
Uranium	23	-	0.47	0.54	0.55
Vanadium	86	-	30	32	36
Zinc	340	-	51	57	62
Electrical Conductivity (2:1)	0.7	-	0.21	0.27	0.59
Sodium Adsorption Ratio	5	-	0.88	0.87	0.49
pH, 2:1 CaCl2 Extraction	NV	7.85	7.56	7.03	7.69



**Table 6: Summary of PHCs and BTEX in Soil**

Parameter		BH24-2 SS2	BH24-2 SS5	BH24-7 SS1
<b>Date of Collection</b>	<b>MECP Table 2 SCS</b>	9-Dec-24	31-Jul-20	31-Jul-20
<b>Date Reported</b>		9-Dec-24	9-Dec-24	6-Dec-24
<b>Sampling Depth (mbgs)</b>		0.8 - 1.4	3.1 - 3.7	0.0 - 0.6
<b>Analytical Report Reference No.</b>		R8457852	R8457852	R8457852
Benzene	0.21	<0.0060	<0.0060	<0.020
Ethylbenzene	1.1	<0.010	<0.010	<0.020
Toluene	2.3	<0.020	<0.020	<0.020
Xylenes (Total)	3.1	<0.020	<0.020	<0.040
F1 (C6-C10) -BTEX	55	<10	<10	<10
F2 (C10-C16)	98	<7.0	<7.0	<7.0
F3 (C16-C34)	300	<50	<50	<50
F4 (C34-C50)	2800	<50	<50	<50



**Table 7: Summary of VOCs in Soil**

Parameter	MECP Table 2 SCS	BH24-2 SS2	BH24-2 SS5
Date of Collection		9-Dec-24	31-Jul-20
Date Reported		9-Dec-24	9-Dec-24
Sampling Depth (mbgs)		0.8 - 1.4	3.1 - 3.7
Analytical Report Reference No.		R8457852	R8457852
Acetone	16	<0.49	<0.49
Bromomethane	0.05	<0.040	<0.040
Carbon Tetrachloride	0.05	<0.040	<0.040
Chlorobenzene	2.4	<0.040	<0.040
Chloroform	0.05	<0.040	<0.040
Dichlorobenzene, 1,2-	1.2	<0.040	<0.040
Dichlorobenzene, 1,3-	4.8	<0.040	<0.040
Dichlorobenzene, 1,4-	0.083	<0.040	<0.040
Dichlorodifluoromethane	2.3	<0.040	<0.040
Dichloroethane, 1,1-	0.47	<0.040	<0.040
Dichloroethane, 1,2-	0.05	<0.049	<0.049
Dichloroethylene, 1,1-	0.05	<0.040	<0.040
Dichloroethylene, 1,2-cis-	1.9	<0.040	<0.040
Dichloroethylene, 1,2-trans-	0.084	<0.040	<0.040
Dichloropropane, 1,2-	0.05	<0.040	<0.040
Dichloropropene, 1,3-	0.05	<0.050	<0.050
Ethylene dibromide	0.05	<0.040	<0.040
Hexane (n)	2.8	<0.040	<0.040
Methyl Ethyl Ketone	16	<0.40	<0.40
Methyl Isobutyl Ketone	1.7	<0.40	<0.40
Methyl tert-Butyl Ether (MTBE)	0.75	<0.040	<0.040
Methylene Chloride	0.1	<0.049	<0.049
Styrene	0.7	<0.040	<0.040
Tetrachloroethane, 1,1,1,2-	0.058	<0.040	<0.040
Tetrachloroethane, 1,1,2,2-	0.05	<0.040	<0.040
Tetrachloroethylene	0.28	<0.040	<0.040
Trichloroethane, 1,1,1-	0.38	<0.040	<0.040
Trichloroethane, 1,1,2-	0.05	<0.040	<0.040
Trichloroethylene	0.061	<0.010	<0.010
Trichlorofluoromethane	4	<0.040	<0.040
Vinyl Chloride	0.02	<0.019	<0.019



**Table 8: Summary of PAHs in Soil**

Parameter		BH24-2 SS2	BH24-2 SS5
<b>Date of Collection</b>	<b>MECP Table 2 SCS</b>	9-Dec-24	31-Jul-20
<b>Date Reported</b>		9-Dec-24	9-Dec-24
<b>Sampling Depth (mbgs)</b>		0.8 - 1.4	3.1 - 3.7
<b>Analytical Report Reference No.</b>		R8457852	R8457852
Methylnaphthalene, 2-(1-)	0.99	<0.0071	<0.0071
Acenaphthene	7.9	<0.0050	<0.0050
Acenaphthylene	0.15	<0.0050	<0.0050
Anthracene	0.67	<0.0050	<0.0050
Benz(a)anthracene	0.5	<0.0050	<0.0050
Benzo(a)pyrene	0.3	<0.0050	<0.0050
Benzo(b+j)fluoranthene	0.78	<0.0050	<0.0050
Benzo(g,h,i)perylene	6.6	<0.0050	<0.0050
Benzo(k)fluoranthene	0.78	<0.0050	<0.0050
Chrysene	7	<0.0050	<0.0050
Dibenz(a,h)anthracene	0.1	<0.0050	<0.0050
Fluoranthene	0.69	<0.0050	<0.0050
Fluorene	62	<0.0050	<0.0050
Indeno(1,2,3-cd)pyrene	0.38	<0.0050	<0.0050
Naphthalene	0.6	<0.0050	<0.0050
Phenanthrene	6.2	<0.0050	<0.0050
Pyrene	78	<0.0050	<0.0050



**Table 9: Summary of OCPs in Soil**

Parameter	MECP Table 2 SCS	BH24-1 SS1	DUP-1 (BH24-1 SS1)	BH24-2 SS1	BH24-4 SS1	BH24-5 SS1	BH24-6 SS1
Date of Collection		9-Dec-24	9-Dec-24	6-Dec-24	6-Dec-24	9-Dec-24	9-Dec-24
Date Reported		23-Dec-24	23-Dec-24	23-Dec-24	23-Dec-24	23-Dec-24	23-Dec-24
Screen Interval (mbgs)		0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6
Analytical Report Reference No.		R8457852	R8457852	R8457852	R8457852	R8457852	R8457852
Aldrin	0.05	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Chlordane	0.05	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
DDD	3.3	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
DDE	0.26	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
DDT	1.4	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Dieldrin	0.05	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Endosulfan	0.04	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Endrin	0.04	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachlorocyclohexane Gamma-	0.056	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Heptachlor	0.15	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Heptachlor Epoxide	0.05	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachlorobenzene	0.52	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachlorobutadiene	0.012	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachloroethane	0.089	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Methoxychlor	0.13	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050





**Table 10: Summary of PCBs in Soil**

Parameter		BH24-7 SS1
Date of Collection	MECP Table 2 SCS	31-Jul-20
Date Reported		6-Dec-24
Sampling Depth (mbgs)		0.0 - 0.6
Analytical Report Reference No.		R8457852
Total PCBs	0.21	<0.010



**Table 11: Summary of Metals and ORPs in Groundwater**

Parameter	MECP Table 2 SCS	Units	BH24-2	BH24-2	
			Date of Collection	18-Dec-24	10-Jan-25
			Date Reported	30-Dec-24	15-Jan-25
			Screen Interval (mbgs)	3.1 - 6.1	3.1 - 6.1
			Analytical Report Reference No.	R8463892	R8471161
Antimony	6	µg/L	0.77	0.56	
Arsenic	25	µg/L	<1.0	<1.0	
Barium	1000	µg/L	24	22	
Beryllium	4	µg/L	<0.40	<0.40	
Boron (total)	5000	µg/L	350	300	
Cadmium	2.7	µg/L	0.13	0.45	
Chromium Total	50	µg/L	<5.0	<5.0	
Cobalt	3.8	µg/L	<b>16</b>	<b>38</b>	
Copper	87	µg/L	1	2.3	
Lead	10	µg/L	<0.50	<0.50	
Molybdenum	70	µg/L	7.4	5	
Nickel	100	µg/L	21	45	
Selenium	10	µg/L	<2.0	2.5	
Silver	1.5	µg/L	<0.090	<0.090	
Sodium	490000	µg/L	99000	140000	
Thallium	2	µg/L	<0.050	<0.050	
Uranium	20	µg/L	5.9	11	
Vanadium	6.2	µg/L	<0.50	<0.50	
Zinc	1100	µg/L	23	27	



**Table 12: Summary of PHCs in Groundwater**

Parameter	MECP Table 2 SCS	BH24-2	Trip Blank
Date of Collection		18-Dec-24	18-Dec-24
Date Reported		30-Dec-24	30-Dec-24
Screen Interval (mbgs)		3.1 - 6.1	-
Analytical Report Reference No.		R8463892	R8463892
Benzene	5	<0.17	<0.17
Ethylbenzene	2.4	<0.20	<0.20
Toluene	24	<0.20	<0.20
Xylenes (Total)	300	<0.20	<0.20
F1 (C6 to C10) minus BTEX	750	<25	<25
F2 (C10 to C16)	150	<90	-
F3 (C16 to C34)	500	<200	-
F4 (C34 to C50) minus PAHs	500	<200	-



**Table 13: Summary of VOCs in Groundwater**

Parameter	MECP Table 2 SCS	BH24-2	Trip Blank
Date of Collection		18-Dec-24	18-Dec-24
Date Reported		30-Dec-24	30-Dec-24
Screen Interval (mbgs)		3.1 - 6.1	-
Analytical Report Reference No.		R8463892	R8463892
Acetone	2700	<10	<10
Bromomethane	0.89	<0.50	<0.50
Carbon Tetrachloride	0.79	<0.20	<0.20
Chlorobenzene	30	<0.20	<0.20
Chloroform	2.4	<0.20	<0.20
Dichlorobenzene, 1,2-	3	<0.50	<0.50
Dichlorobenzene, 1,3-	59	<0.50	<0.50
Dichlorobenzene, 1,4-	1	<0.50	<0.50
Dichlorodifluoromethane	590	<1.0	<1.0
Dichloroethane, 1,1-	5	<0.20	<0.20
Dichloroethane, 1,2-	1.6	<0.50	<0.50
Dichloroethylene, 1,1-	1.6	<0.20	<0.20
Dichloroethylene, 1,2-cis-	1.6	<0.50	<0.50
Dichloroethylene, 1,2-trans-	1.6	<0.50	<0.50
Dichloropropane, 1,2-	5	<0.20	<0.20
Dichloropropene, 1,3-	0.5	<0.50	<0.50
Ethylene dibromide	0.2	<0.20	<0.20
Hexane (n)	51	<1.0	<1.0
Methyl Ethyl Ketone	1800	<10	<10
Methyl Isobutyl Ketone	640	<5.0	<5.0
Methyl tert-Butyl Ether (MTBE)	15	<0.50	<0.50
Methylene Chloride	50	<2.0	<2.0
Styrene	5.4	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	1.1	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	1	<0.50	<0.50
Tetrachloroethylene	1.6	<0.20	<0.20
Trichloroethane, 1,1,1-	200	<0.20	<0.20
Trichloroethane, 1,1,2-	4.7	<0.50	<0.50
Trichloroethylene	1.6	<0.20	<0.20
Trichlorofluoromethane	150	<0.50	<0.50
Vinyl Chloride	0.5	<0.20	<0.20

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section

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**Table 14: Summary of PAHs in Groundwater**

Parameter	MECP Table 2 SCS	BH24-2
Date of Collection		18-Dec-24
Date Reported		30-Dec-24
Screen Interval (mbgs)		3.1-6.1
Analytical Report Reference No.		R8463892
Acenaphthene	4.1	<0.050
Acenaphthylene	1	<0.050
Anthracene	2.4	<0.050
Benzo(a)anthracene	1	<0.050
Benzo(a)pyrene	0.01	<0.0090
Benzo(b/j)fluoranthene	0.1	<0.050
Benzo(ghi)perylene	0.2	<0.050
Benzo(k)fluoranthene	0.1	<0.050
Chrysene	0.1	<0.050
Dibenzo(a,h)anthracene	0.2	<0.050
Fluoranthene	0.41	<0.050
Fluorene	120	<0.050
Indeno(1,2,3-cd)pyrene	0.2	<0.050
1-Methylnaphthalene	3.2	<0.050
2-Methylnaphthalene	3.2	<0.050
Naphthalene	11	<0.050
Phenanthrene	1	<0.030
Pyrene	4.1	<0.050
Methylnaphthalene, 2-(1-)	3.2	0.071



**Table 15: Summary of Maximum Concentrations in Soil**

	Parameter	Standard	Maximum Concentration	Location
Metals and ORPs	Antimony	7.5	<0.20	All Samples
	Arsenic	18	5.7	BH24-5 SS1
	Barium	390	110	BH24-6 SS1
	Beryllium	4	1	BH24-6 SS1
	Boron	120	8.3	BH24-4 SS1
	Boron (Hot Water Soluble)	1.5	0.42	BH24-2 SS1
	Cadmium	1.2	0.44	BH24-2 SS1
	Chromium	160	28	DUP-1(BH24-1 SS1)
	Chromium VI	8	0.19	BH24-5 SS1
	Cobalt	22	14	DUP-1(BH24-1 SS1)
	Copper	140	33	BH24-6 SS1
	Cyanide	0.051	<0.01	All Samples
	Lead	120	13	BH24-2 SS1
	Mercury	0.27	<0.050	All Samples
	Molybdenum	6.9	0.52	BH24-2 SS1
	Nickel	100	32	DUP-1(BH24-1 SS1)
	Selenium	2.4	<0.50	All Samples
	Silver	20	<0.20	All Samples
	Thallium	1	0.17	DUP-1(BH24-1 SS1)
	Uranium	23	0.74	DUP-1(BH24-1 SS1)
	Vanadium	86	39	DUP-1(BH24-1 SS1)
Zinc	340	69	BH24-1 SS1	
	Electrical Conductivity (2:1)	0.7	0.59	BH24-6 SS1
	Sodium Adsorption Ratio	5	1.5	BH24-1 SS1
	pH, 2:1 CaCl2 Extraction	NV	7.85	BH24-2 SS5
PHCs	Benzene	0.21	<0.0060	All Samples
	Ethylbenzene	1.1	<0.010	All Samples
	Toluene	2.3	<0.020	All Samples
	Xylenes (Total)	3.1	<0.020	All Samples
	F1 (C6-C10) -BTEX	55	<10	All Samples
	F2 (C10-C16)	98	<7.0	All Samples
	F3 (C16-C34)	300	<50	All Samples
	F4 (C34-C50)	2800	<50	All Samples
	Acetone	16	<0.49	All Samples
	Bromomethane	0.05	<0.040	All Samples
	Carbon Tetrachloride	0.05	<0.040	All Samples
	Chlorobenzene	2.4	<0.040	All Samples
	Chloroform	0.05	<0.040	All Samples
	Dichlorobenzene, 1,2-	1.2	<0.040	All Samples
	Dichlorobenzene, 1,3-	4.8	<0.040	All Samples
	Dichlorobenzene, 1,4-	0.083	<0.040	All Samples
	Dichlorodifluoromethane	2.3	<0.040	All Samples
	Dichloroethane, 1,1-	0.47	<0.040	All Samples
	Dichloroethane, 1,2-	0.05	<0.049	All Samples
	Dichloroethylene, 1,1-	0.05	<0.040	All Samples

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section

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**Table 15: Summary of Maximum Concentrations in Soil**

	Parameter	Standard	Maximum Concentration	Location
VOCs	Dichloroethylene, 1,2-cis-	1.9	<0.040	All Samples
	Dichloroethylene, 1,2-trans-	0.084	<0.040	All Samples
	Dichloropropane, 1,2-	0.05	<0.040	All Samples
	Dichloropropene, 1,3-	0.05	<0.050	All Samples
	Ethylene dibromide	0.05	<0.040	All Samples
	Hexane (n)	2.8	<0.040	All Samples
	Methyl Ethyl Ketone	16	<0.40	All Samples
	Methyl Isobutyl Ketone	1.7	<0.40	All Samples
	Methyl tert-Butyl Ether (MTBE)	0.75	<0.040	All Samples
	Methylene Chloride	0.1	<0.049	All Samples
	Styrene	0.7	<0.040	All Samples
	Tetrachloroethane, 1,1,1,2-	0.058	<0.040	All Samples
	Tetrachloroethane, 1,1,2,2-	0.05	<0.040	All Samples
	Tetrachloroethylene	0.28	<0.040	All Samples
	Trichloroethane, 1,1,1-	0.38	<0.040	All Samples
	Trichloroethane, 1,1,2-	0.05	<0.040	All Samples
	Trichloroethylene	0.061	<0.010	All Samples
	Trichlorofluoromethane	4	<0.040	All Samples
	Vinyl Chloride	0.02	<0.019	All Samples
	PAHs	Methylnaphthalene, 2-(1-)	0.99	<0.0071
Acenaphthene		7.9	<0.0050	All Samples
Acenaphthylene		0.15	<0.0050	All Samples
Anthracene		0.67	<0.0050	All Samples
Benz(a)anthracene		0.5	<0.0050	All Samples
Benzo(a)pyrene		0.3	<0.0050	All Samples
Benzo(b+j)fluoranthene		0.78	<0.0050	All Samples
Benzo(g,h,i)perylene		6.6	<0.0050	All Samples
Benzo(k)fluoranthene		0.78	<0.0050	All Samples
Chrysene		7	<0.0050	All Samples
Dibenz(a,h)anthracene		0.1	<0.0050	All Samples
Fluoranthene		0.69	<0.0050	All Samples
Fluorene		62	<0.0050	All Samples
Indeno(1,2,3-cd)pyrene		0.38	<0.0050	All Samples
Naphthalene		0.6	<0.0050	All Samples
Phenanthrene		6.2	<0.0050	All Samples
Pyrene		78	<0.0050	All Samples
OCPS		Aldrin	0.05	<0.0020
	Chlordane	0.05	<0.0020	All Samples
	DDD	3.3	<0.0020	All Samples
	DDE	0.26	<0.0020	All Samples
	DDT	1.4	<0.0020	All Samples
	Dieldrin	0.05	<0.0020	All Samples
	Endosulfan	0.04	<0.0020	All Samples
	Endrin	0.04	<0.0020	All Samples
	Hexachlorocyclohexane Gamma-	0.056	<0.0020	All Samples

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section



**Table 15: Summary of Maximum Concentrations in Soil**

Parameter		Standard	Maximum Concentration	Location
	Heptachlor	0.15	<0.0020	All Samples
	Heptachlor Epoxide	0.05	<0.0020	All Samples
	Hexachlorobenzene	0.52	<0.0020	All Samples
	Hexachlorobutadiene	0.012	<0.0020	All Samples
	Hexachloroethane	0.089	<0.0020	All Samples
	Methoxychlor	0.13	<0.0050	All Samples
PCBs	Total PCBs	0.21	<0.010	BH24-7 SS1





**Table 16: Summary of Maximum Concentrations in Groundwater**

	Parameter	Standard	Maximum Concentration	Location
Metals and ORPs	Antimony	6	0.77	BH24-2
	Arsenic	25	<1.0	All Samples
	Barium	1000	24	BH24-2
	Beryllium	4	<0.40	All Samples
	Boron (total)	5000	350	BH24-2
	Cadmium	2.7	0.45	BH24-2
	Chromium Total	50	<5.0	All Samples
	Cobalt	3.8	<b>38</b>	BH24-2
	Copper	87	2.3	BH24-2
	Lead	10	<0.50	All Samples
	Molybdenum	70	7.4	BH24-2
	Nickel	100	45	BH24-2
	Selenium	10	2.5	BH24-2
	Silver	1.5	<0.090	All Samples
	Sodium	490000	140000	BH24-2
	Thallium	2	<0.050	All Samples
	Uranium	20	11	BH24-2
	Vanadium	6.2	<0.50	All Samples
Zinc	1100	27	BH24-2	
PHCs	Benzene	5	<0.17	All Samples
	Ethylbenzene	2.4	<0.20	All Samples
	Toluene	24	<0.20	All Samples
	Xylenes (Total)	300	<0.20	All Samples
	F1 (C6 to C10) minus BTEX	750	<25	All Samples
	F2 (C10 to C16)	150	<90	All Samples
	F3 (C16 to C34)	500	<200	All Samples
	F4 (C34 to C50) minus PAHs	500	<200	All Samples
VOCs	Acetone	2700	<10	All Samples
	Bromomethane	0.89	<0.50	All Samples
	Carbon Tetrachloride	0.79	<0.20	All Samples
	Chlorobenzene	30	<0.20	All Samples
	Chloroform	2.4	<0.20	All Samples
	Dichlorobenzene, 1,2-	3	<0.50	All Samples
	Dichlorobenzene, 1,3-	59	<0.50	All Samples
	Dichlorobenzene, 1,4-	1	<0.50	All Samples
	Dichlorodifluoromethane	590	<1.0	All Samples
	Dichloroethane, 1,1-	5	<0.20	All Samples
	Dichloroethane, 1,2-	1.6	<0.50	All Samples
	Dichloroethylene, 1,1-	1.6	<0.20	All Samples
	Dichloroethylene, 1,2-cis-	1.6	<0.50	All Samples
	Dichloroethylene, 1,2-trans-	1.6	<0.50	All Samples
	Dichloropropane, 1,2-	5	<0.20	All Samples
	Dichloropropene, 1,3-	0.5	<0.50	All Samples
	Ethylene dibromide	0.2	<0.20	All Samples
Hexane (n)	51	<1.0	All Samples	

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section



**Table 16: Summary of Maximum Concentrations in Groundwater**

	Parameter	Standard	Maximum Concentration	Location
	Methyl Ethyl Ketone	1800	<10	All Samples
	Methyl Isobutyl Ketone	640	<5.0	All Samples
	Methyl tert-Butyl Ether (MTBE)	15	<0.50	All Samples
	Methylene Chloride	50	<2.0	All Samples
	Styrene	5.4	<0.50	All Samples
	Tetrachloroethane, 1,1,1,2-	1.1	<0.50	All Samples
	Tetrachloroethane, 1,1,2,2-	1	<0.50	All Samples
	Tetrachloroethylene	1.6	<0.20	All Samples
	Trichloroethane, 1,1,1-	200	<0.20	All Samples
	Trichloroethane, 1,1,2-	4.7	<0.50	All Samples
	Trichloroethylene	1.6	<0.20	All Samples
	Trichlorofluoromethane	150	<0.50	All Samples
	Vinyl Chloride	0.5	<0.20	All Samples
	PAHs	Acenaphthene	4.1	<0.050
Acenaphthylene		1	<0.050	All Samples
Anthracene		2.4	<0.050	All Samples
Benzo(a)anthracene		1	<0.050	All Samples
Benzo(a)pyrene		0.01	<0.0090	All Samples
Benzo(b/j)fluoranthene		0.1	<0.050	All Samples
Benzo(ghi)perylene		0.2	<0.050	All Samples
Benzo(k)fluoranthene		0.1	<0.050	All Samples
Chrysene		0.1	<0.050	All Samples
Dibenzo(a,h)anthracene		0.2	<0.050	All Samples
Fluoranthene		0.41	<0.050	All Samples
Fluorene		120	<0.050	All Samples
Indeno(1,2,3-cd)pyrene		0.2	<0.050	All Samples
1-Methylnaphthalene		3.2	<0.050	All Samples
2-Methylnaphthalene		3.2	<0.050	All Samples
Naphthalene		11	<0.050	All Samples
Phenanthrene		1	<0.030	All Samples
Pyrene	4.1	<0.050	All Samples	



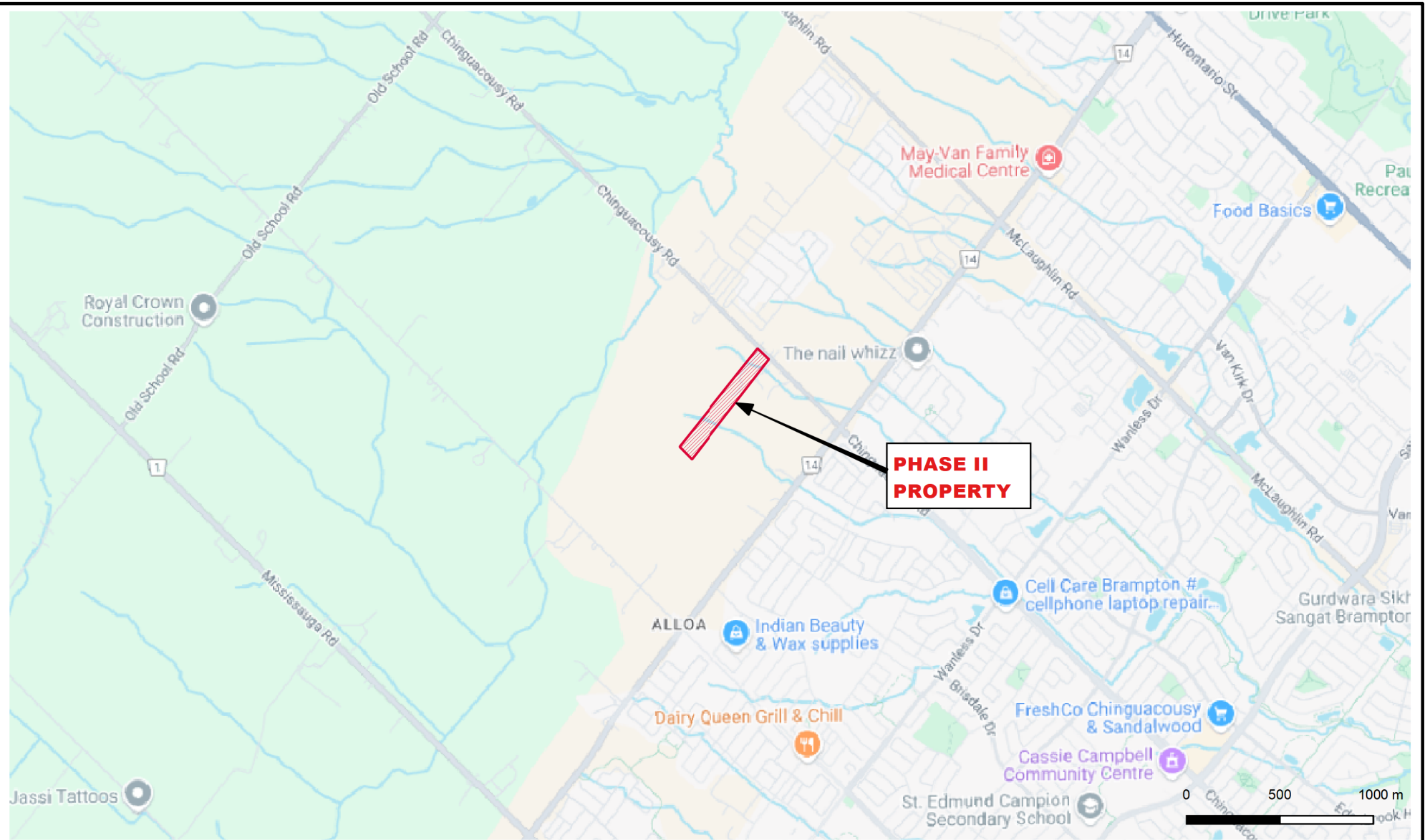
**Notes for Soil and Groundwater Summary Tables**

	For soil and groundwater analytical results, concentration exceeds the applicable Standards.
	For soil and groundwater analytical results, laboratory detection limits exceed the applicable Standards.
<b>MECP Table 2 SCS</b>	Generic Condition Standards in a Potable Groundwater Condition for Use for Residential/Parkland/Institutional Use and Coarse Textured soils as contained in Table 2 of the “Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act”, published by the MECP on April 15, 2011.
masl	Meters above sea level
mbgs	Meters below ground surface
NM	Not Monitored
NA	Not Available
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
VOCs	Volatile Organic Compounds
ORPs	Other Regulated Parameters
PCBs	Polychlorinated Biphenyl
OCPs	Organochlorine Pesticides
PAH	Polyaromatic Hydrocarbon
PHC	Petroleum Hydrocarbon
<b>Units</b>	Units for all soil analyses are in µg/g (ppm) unless otherwise indicated
<b>Units</b>	Units for all groundwater analyses are in µg/L (ppb) unless otherwise indicated



---

# Figures



Legend

 Site Boundary



**DS CONSULTANTS LTD.**

6221 Highway 7, UNIT 16  
 Vaughan, Ontario L4H 0K8  
 Telephone: (905) 264-9393  
 www.dsconsultants.ca

Project: PHASE II ENVIRONMENTAL SITE ASSESSMENT  
 12192 Chinguacousy Road, Caledon, ON

Title: **SITE LOCATION PLAN**



Client:  
**ARGO MAYFIELD WEST V LIMITED**

Size:  
 8.5 x 11

Rev:  
 0

Approved By: M.B

Scale: As Shown

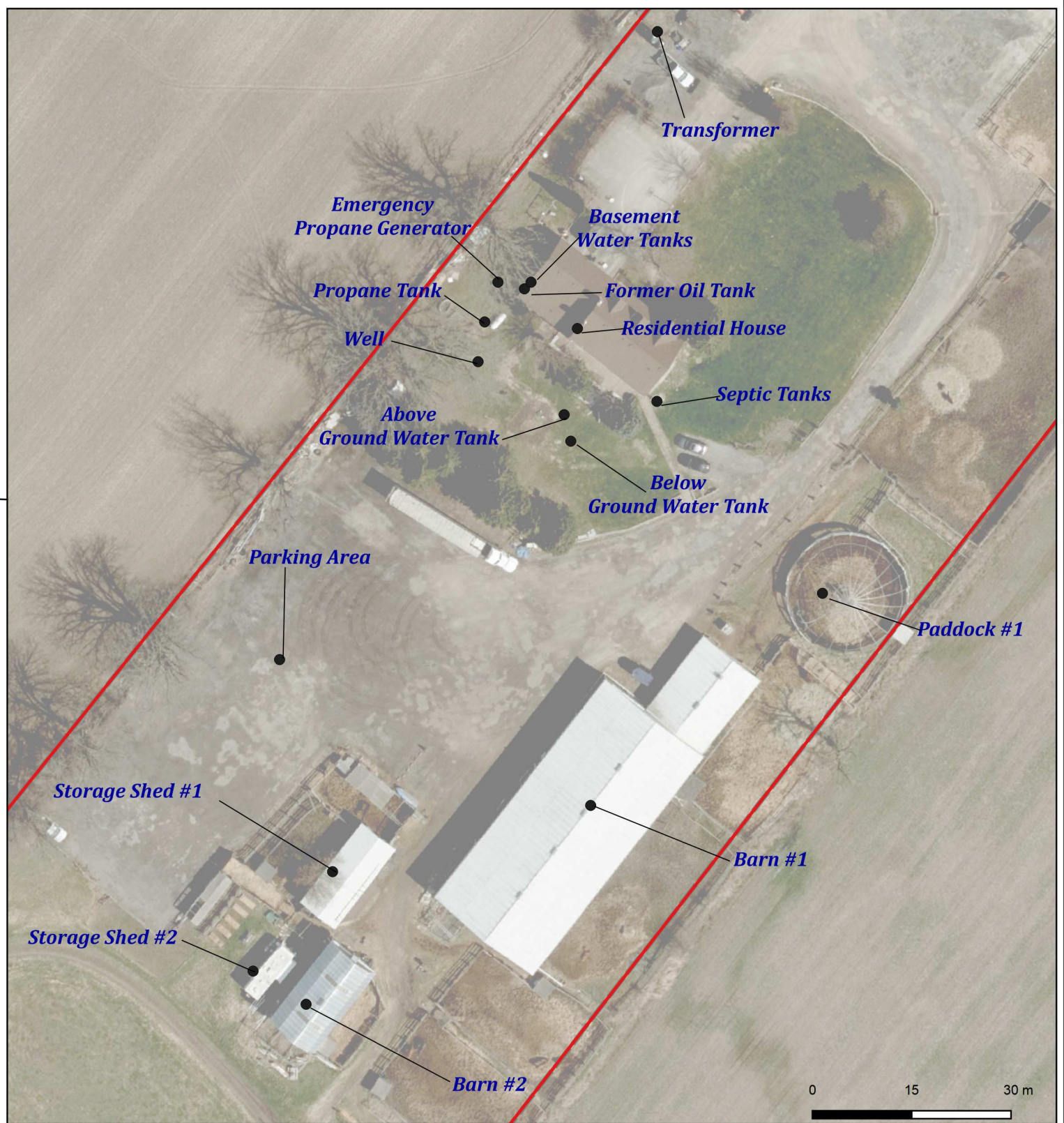
Image/Map Source: Google Street Map

Drawn By: S.Y

Project No.: 24-371-600

Date: January 2025

Figure No.: **1**



**Legend**

 Site Boundary



**DS CONSULTANTS LTD.**  
 6221 Highway 7, UNIT 16  
 Vaughan, Ontario L4H 0K8  
 Telephone: (905) 264-9393  
 www.dsconsultants.ca

Client:  
**ARGO MAYFIELD WEST V LIMITED**

Project:  
 PHASE II ENVIRONMENTAL SITE ASSESSMENT  
 12192 Chinguacousy Road, Caledon, ON

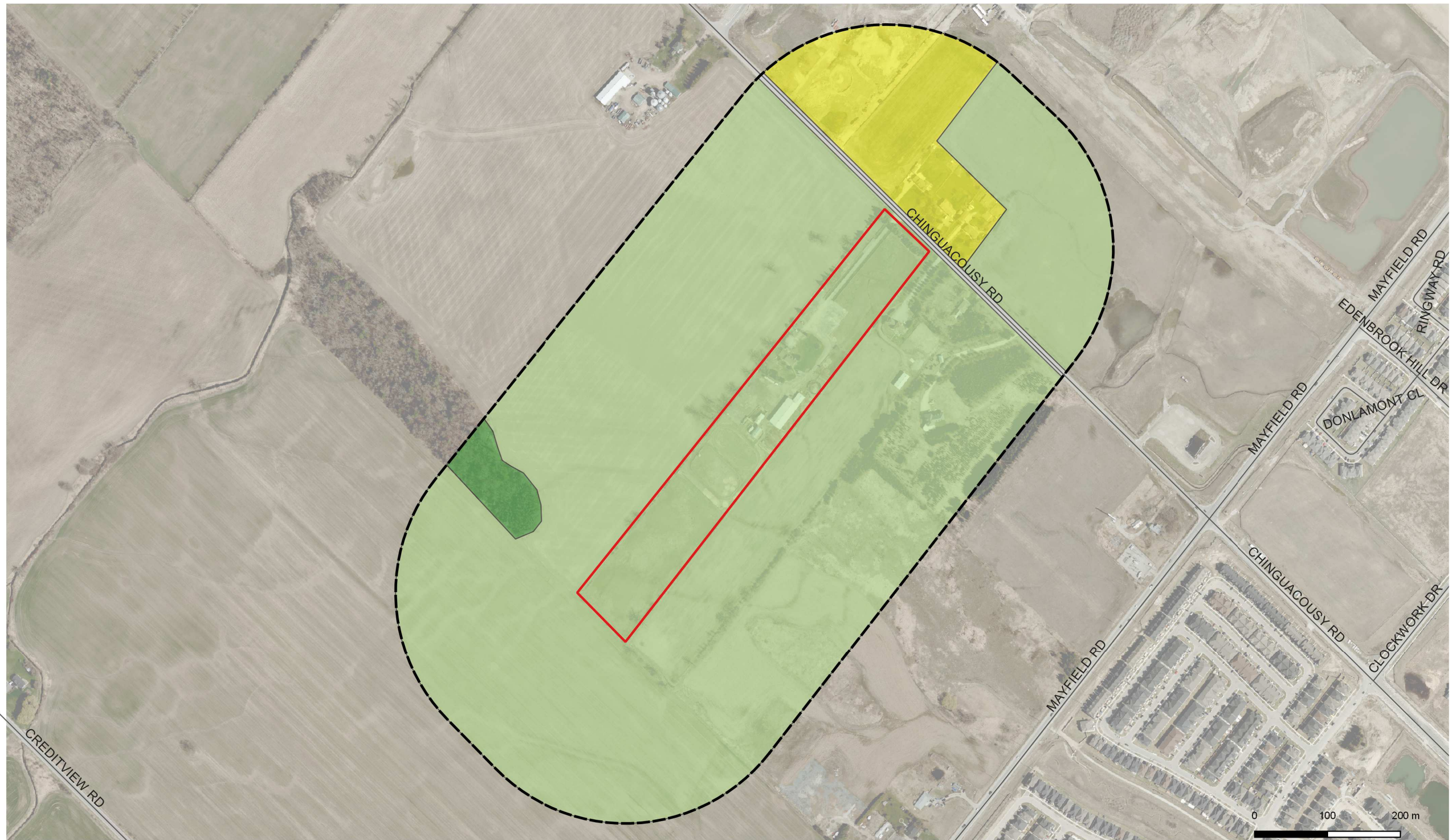
Title:  
**PHASE II PROPERTY SITE PLAN**



Size: 11x17	Approved By: M.B	Drawn By: S.Y	Date: January 2025
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Rev: 0	Scale: As Shown	Project No.: 24-371-600	Figure No.: <b>2</b>
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Image/Map Source: Esri Satellite Image



**Legend**

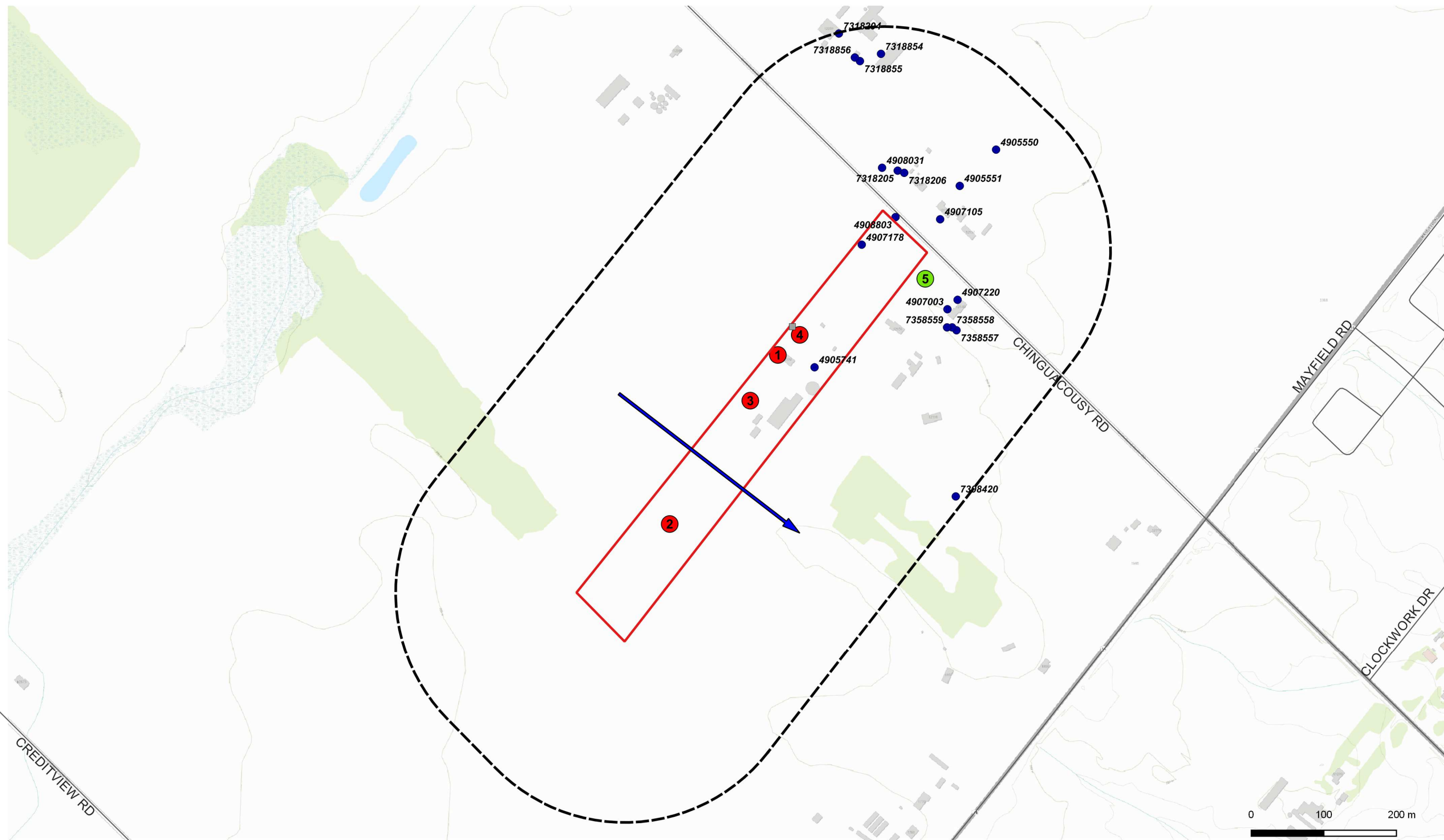
- Site Boundary
- Residential Use
- Agricultural or Other Use
- Woodlot
- Community (Road)



**DS CONSULTANTS LTD.**  
 6221 Highway 7, UNIT 16  
 Vaughan, Ontario L4H 0K8  
 Telephone: (905) 264-9393  
 www.dsconsultants.ca

Client:  
**ARGO MAYFIELD WEST V LIMITED**

Project:		PHASE II ENVIRONMENTAL SITE ASSESSMENT 12192 Chinguacousy Road, Caledon, ON				
Title:		<b>PHASE I STUDY AREA</b>				
Size:	Approved By:	M.B	Drawn By:	S.Y	Date:	January 2025
Rev:	Scale:	As Shown	Project No.:	24-371-600	Figure No.:	<b>3</b>
0	Image/Map Source: Esri Satellite Image					



**Legend**

- Site Boundary
- 250m Buffer
- PCA not contributing to APEC
- PCA contributing to APEC
- Registered Water Well (MECP WWR)
- ➔ Inferred groundwater Flow Direction
- Transformer

<p><b>DS CONSULTANTS LTD.</b> 6221 Highway 7, UNIT 16 Vaughan, Ontario L4H 0K8 Telephone: (905) 264-9393 www.dsconsultants.ca</p>	Project: PHASE II ENVIRONMENTAL SITE ASSESSMENT 12192 Chinguacousy Road, Caledon, ON			
	Title: <b>PCAs WITHIN PHASE I STUDY AREA</b>			
Client: <b>ARGO MAYFIELD WEST V LIMITED</b>	Size: 11x17	Approved By: M.B	Drawn By: S.Y	Date: January 2025
	Rev: 0	Scale: As Shown	Project No.: 24-371-600	Figure No.: <b>4</b>
Image/Map Source: Esri Topo Map				



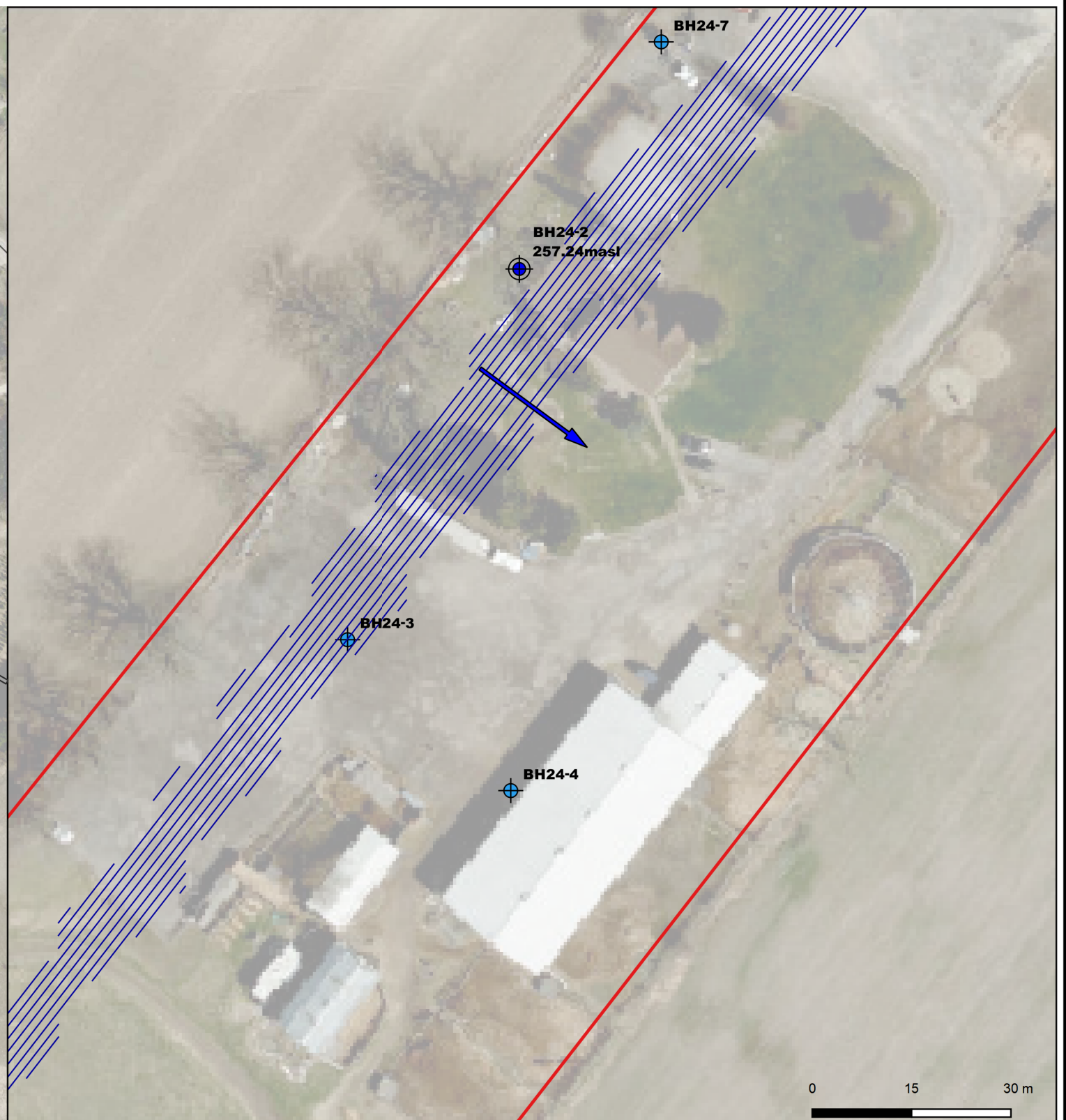
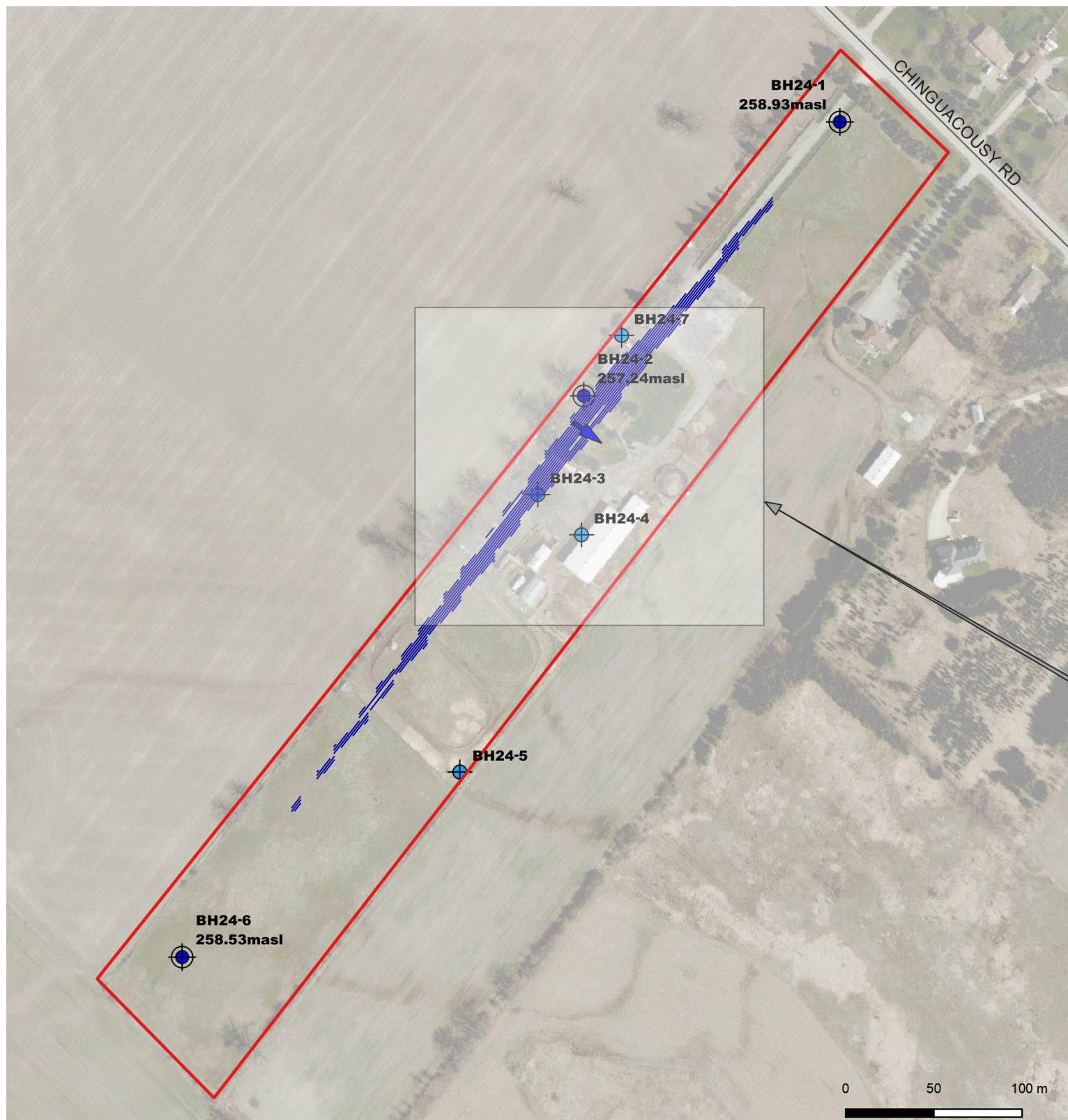
J:\-GIS\2024 PROJECTS\24-371-600 12192 Chinguacousy Road, Caledon\1-QGIS\Phase Two\Figure 5 - Borehole Location Plan with APECs.ggs Jan-28 22:34



- Legend**
- Site Boundary
  - Borehole
  - Monitoring Well
  - APEC-1
  - APEC-2
  - APEC-3
  - APEC-4



<p><b>DS CONSULTANTS LTD.</b> 6221 Highway 7, UNIT 16 Vaughan, Ontario L4H 0K8 Telephone: (905) 264-9393 www.dsconsultants.ca</p>	Project: PHASE II ENVIRONMENTAL SITE ASSESSMENT 12192 Chinguacousy Road, Caledon, ON			
	Title: <b>BOREHOLE LOCATION PLAN WITH APECs</b>			
Client: <b>ARGO MAYFIELD WEST V LIMITED</b>	Size: 11x17	Approved By: M.B	Drawn By: S.Y	Date: January 2025
	Rev: 0	Scale: As Shown	Project No.: 24-371-600	Figure No.: <b>5</b>
Image/Map Source: Esri Satellite Image				

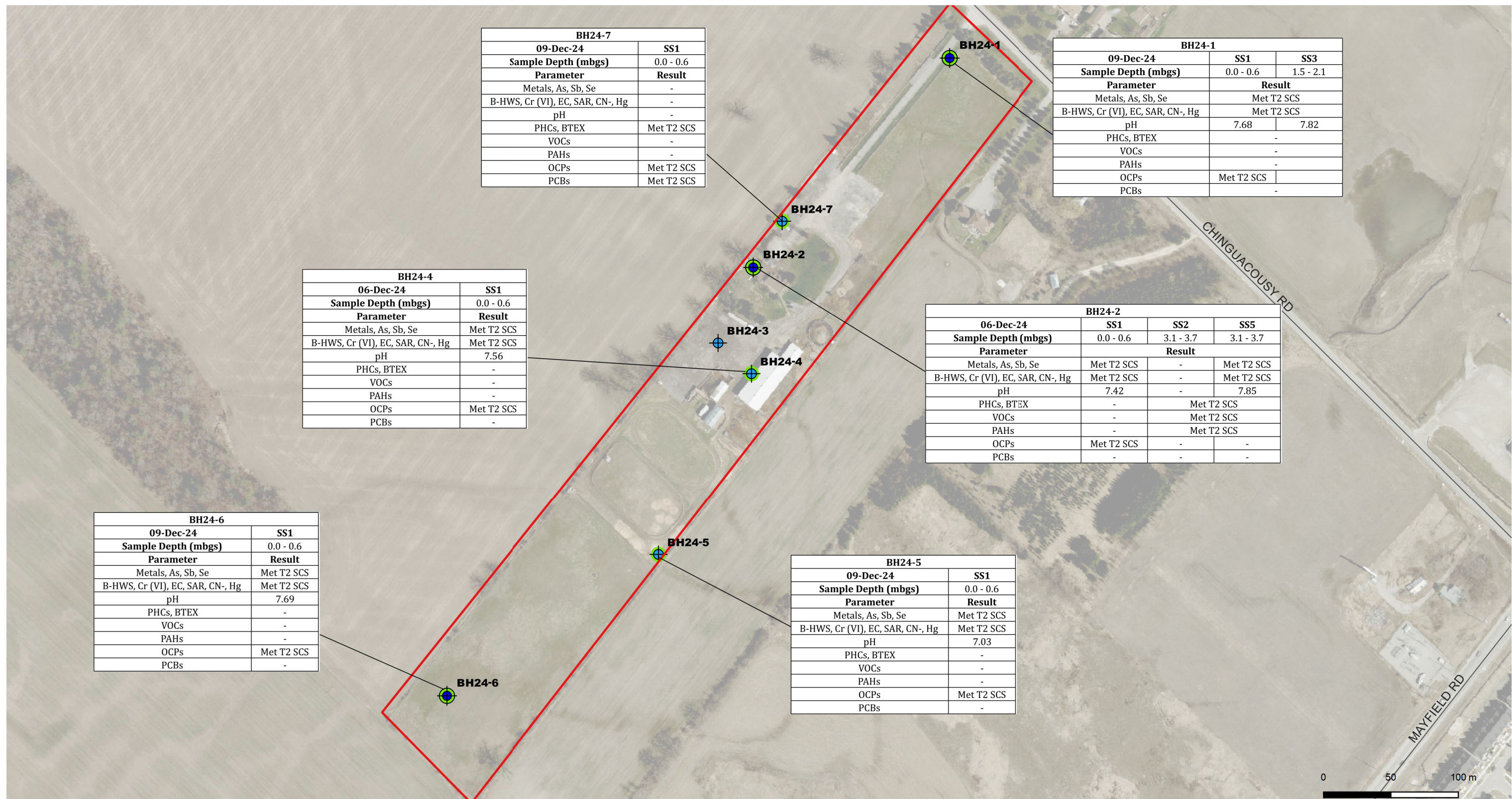
J:\-GIS\2024 PROJECTS\24-371-600 12192 Chinguacousy Road, Caledon\1-QGIS\Phase Two\Figure 6 - Groundwater Elevation Contours and Flow Direction.ags Jan-28 22:53



**Legend**

- Site Boundary
- ⊕ Borehole
- ⊕ Monitoring Well
- Groundwater Elevation Contours  
Jan 14, 2025
- ➔ Groundwater Flow Direction

 <p><b>DS CONSULTANTS LTD.</b> 6221 Highway 7, UNIT 16 Vaughan, Ontario L4H 0K8 Telephone: (905) 264-9393 www.dsconsultants.ca</p>	Project: PHASE II ENVIRONMENTAL SITE ASSESSMENT 12192 Chinguacousy Road, Caledon, ON			
	Title: <b>GROUNDWATER ELEVATION CONTOURS AND FLOW DIRECTION</b>			
Client: <b>ARGO MAYFIELD WEST V LIMITED</b>	Size: 11x17	Approved By: M.B	Drawn By: S.Y	Date: January 2025
	Rev: 0	Scale: As Shown	Project No.: 24-371-600	Figure No.: <b>6</b>
Image/Map Source: Esri Satellite Image				



BH24-7	
09-Dec-24	SS1
Sample Depth (mbgs)	0.0 - 0.6
Parameter	Result
Metals, As, Sb, Se	-
B-HWS, Cr (VI), EC, SAR, CN-, Hg	-
pH	-
PHCs, BTEX	Met T2 SCS
VOCs	-
PAHs	-
OCPs	Met T2 SCS
PCBs	Met T2 SCS

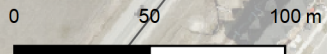
BH24-1		
09-Dec-24	SS1	SS3
Sample Depth (mbgs)	0.0 - 0.6	1.5 - 2.1
Parameter	Result	
Metals, As, Sb, Se	Met T2 SCS	
B-HWS, Cr (VI), EC, SAR, CN-, Hg	Met T2 SCS	
pH	7.68	7.82
PHCs, BTEX	-	-
VOCs	-	-
PAHs	-	-
OCPs	Met T2 SCS	-
PCBs	-	-

BH24-4	
06-Dec-24	SS1
Sample Depth (mbgs)	0.0 - 0.6
Parameter	Result
Metals, As, Sb, Se	Met T2 SCS
B-HWS, Cr (VI), EC, SAR, CN-, Hg	Met T2 SCS
pH	7.56
PHCs, BTEX	-
VOCs	-
PAHs	-
OCPs	Met T2 SCS
PCBs	-

BH24-2			
06-Dec-24	SS1	SS2	SS5
Sample Depth (mbgs)	0.0 - 0.6	3.1 - 3.7	3.1 - 3.7
Parameter	Result		
Metals, As, Sb, Se	Met T2 SCS	-	Met T2 SCS
B-HWS, Cr (VI), EC, SAR, CN-, Hg	Met T2 SCS	-	Met T2 SCS
pH	7.42	-	7.85
PHCs, BTEX	-	Met T2 SCS	
VOCs	-	Met T2 SCS	
PAHs	-	Met T2 SCS	
OCPs	Met T2 SCS	-	-
PCBs	-	-	-

BH24-6	
09-Dec-24	SS1
Sample Depth (mbgs)	0.0 - 0.6
Parameter	Result
Metals, As, Sb, Se	Met T2 SCS
B-HWS, Cr (VI), EC, SAR, CN-, Hg	Met T2 SCS
pH	7.69
PHCs, BTEX	-
VOCs	-
PAHs	-
OCPs	Met T2 SCS
PCBs	-

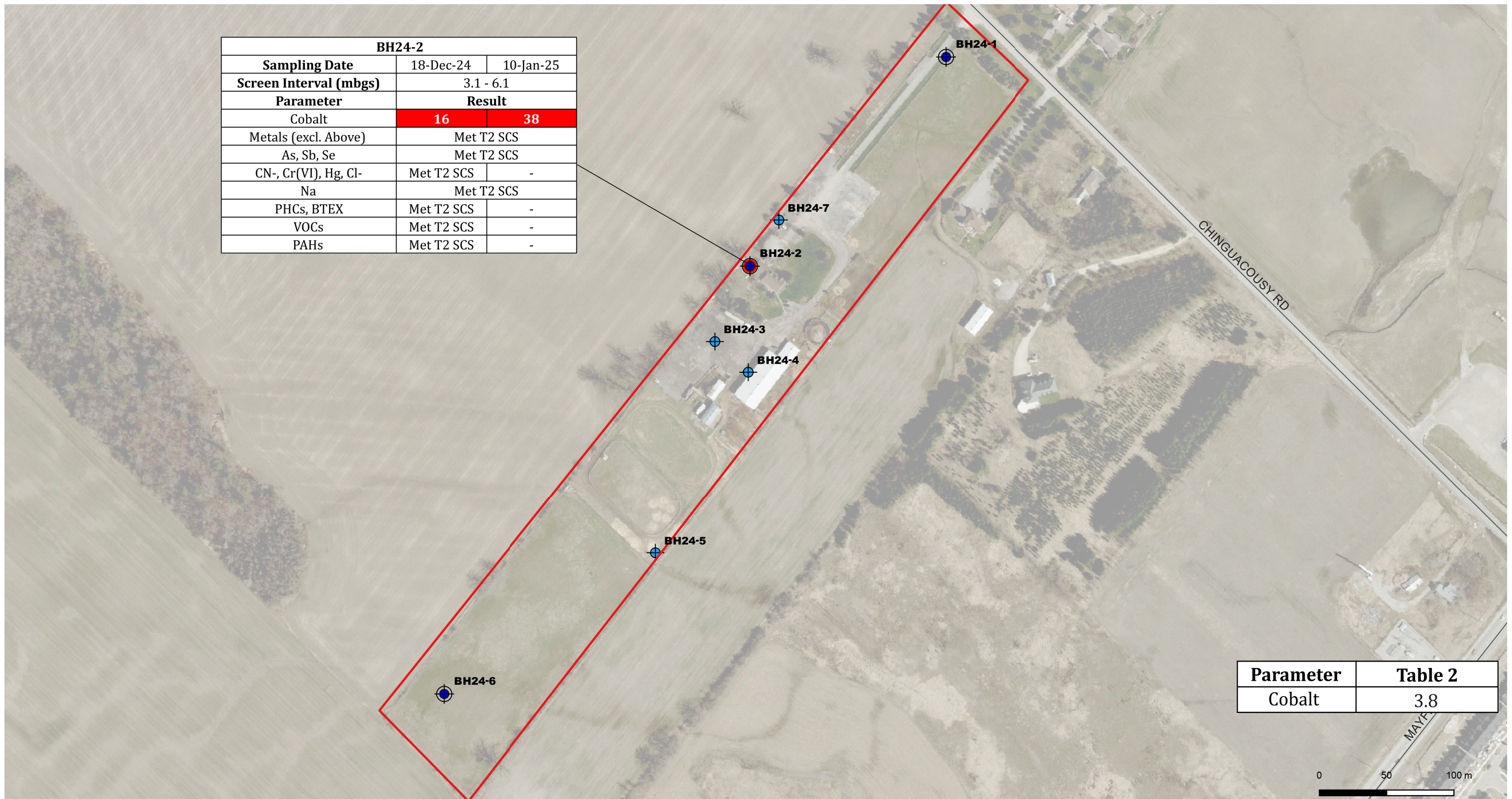
BH24-5	
09-Dec-24	SS1
Sample Depth (mbgs)	0.0 - 0.6
Parameter	Result
Metals, As, Sb, Se	Met T2 SCS
B-HWS, Cr (VI), EC, SAR, CN-, Hg	Met T2 SCS
pH	7.03
PHCs, BTEX	-
VOCs	-
PAHs	-
OCPs	Met T2 SCS
PCBs	-



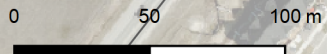
- Legend**
- Site Boundary
  - + Borehole
  - + Monitoring Well
  - Sample Met Applicable Standards

<p><b>DS CONSULTANTS LTD.</b> 6221 Highway 7, UNIT 16 Vaughan, Ontario L4H 0K8 Telephone: (905) 264-9393 www.dsconsultants.ca</p>	Project: PHASE II ENVIRONMENTAL SITE ASSESSMENT 12192 Chinguacousy Road, Caledon, ON			
	Title: <b>SUMMARY OF SOIL RESULTS</b>			
Client: <b>ARGO MAYFIELD WEST V LIMITED</b>	Size: 11x17	Approved By: M.B	Drawn By: S.Y	Date: January 2025
Rev: 0	Scale: As Shown	Project No.: 24-371-600	Figure No.: <b>7</b>	Image/Map Source: Esri Satellite Image



BH24-2		
Sampling Date	18-Dec-24	10-Jan-25
Screen Interval (mbgs)	3.1 - 6.1	
Parameter	Result	
Cobalt	16	38
Metals (excl. Above)	Met T2 SCS	
As, Sb, Se	Met T2 SCS	
CN-, Cr(VI), Hg, Cl-	Met T2 SCS	-
Na	Met T2 SCS	
PHCs, BTEX	Met T2 SCS	-
VOCs	Met T2 SCS	-
PAHs	Met T2 SCS	-



Parameter	Table 2
Cobalt	3.8



- Legend**
- Site Boundary
  - + Borehole
  - ⊕ Monitoring Well
  - Sample Exceeds Applicable Standards

 <p><b>DS CONSULTANTS LTD.</b> 6221 Highway 7, UNIT 16 Vaughan, Ontario L4H 0K8 Telephone: (905) 264-9393 www.dsconsultants.ca</p>	Project: PHASE II ENVIRONMENTAL SITE ASSESSMENT 12192 Chinguacousy Road, Caledon, ON			
	Title: <b>SUMMARY OF GROUNDWATER RESULTS</b>			
Client:	Size:	Approved By:	Drawn By:	Date:
ARGO MAYFIELD WEST V LIMITED	11x17	M.B	S.Y	January 2025
	Rev:	Scale:	Project No.:	Figure No.:
	0	As Shown	24-371-600	8
Image/Map Source: Esri Satellite Image				



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# Appendix A

# SKETCH SHOWING ELEVATIONS FOR ENGINEER'S USE

SCALE 1:1000  
 0m 10m 20m 40m 60m 80 metres  
 R-PE SURVEYING LTD., O.L.S.

METRIC

## CAUTION

THIS IS NOT A PLAN OF SURVEY AND SHALL NOT TO BE USED EXCEPT FOR THE PURPOSE INDICATED IN THE TITLE BLOCK.

THIS SKETCH IS PROTECTED BY COPYRIGHT © R-PE SURVEYING LTD., O.L.S. 2024.

## NOTES

BOUNDARY LINE—WORK TAKEN FROM R-PE CAD FILE No. 24271PS01.

SKETCH IS AN ORIGINAL IF EMBOSSED BY THE SURVEYOR'S SEAL.

THE FIELD OBSERVATIONS REPRESENTED ON THIS PLAN WERE COMPLETED ON

THE 31<sup>st</sup> DAY OF OCTOBER, 2024

ADDITIONAL FIELD OBSERVATIONS WERE COMPLETED ON

THE 9<sup>th</sup> DAY OF DECEMBER, 2024

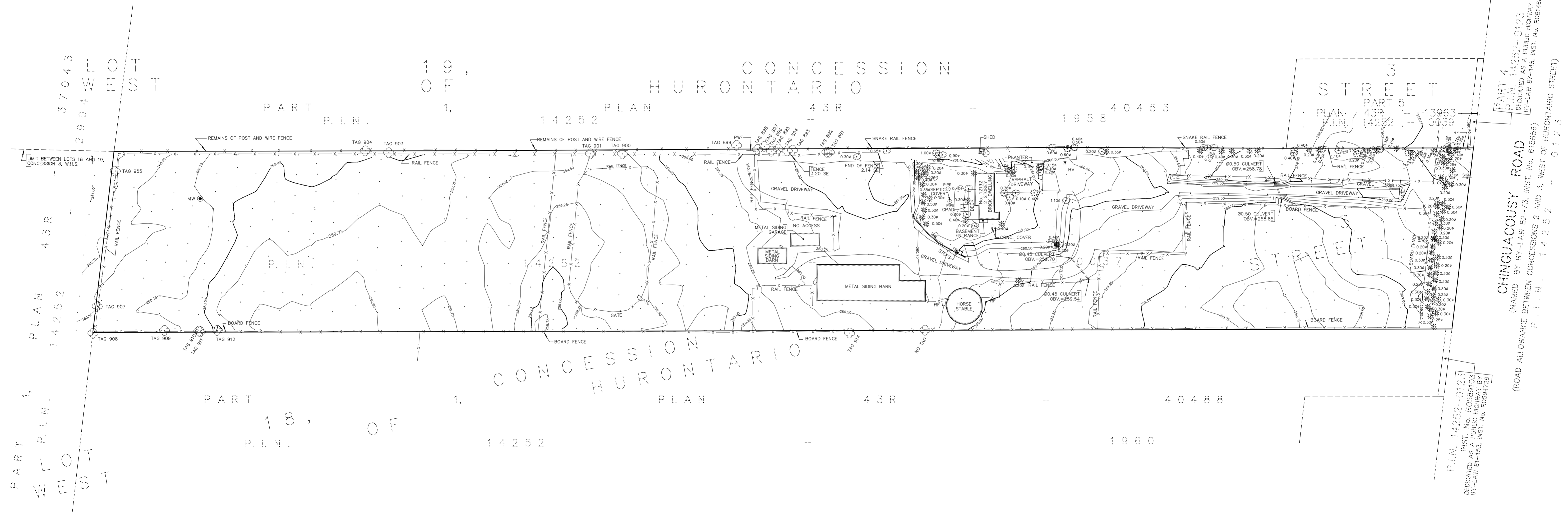
## BENCHMARK NOTE

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE MINISTRY OF NATURAL RESOURCES BENCHMARK NUMBER 010840167, HAVING AN ORTHOMETRIC ELEVATION OF 256.156 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928:1978).

BENCHMARK IS LOCATED ON SOUTH SIDE OF 17TH SIDEROAD AND WEST SIDE OF CHINGUACOUSY ROAD.

## LEGEND

MW	DENOTES MONITORING WELL
PWF	DENOTES POST AND WIRE FENCE
RF	DENOTES RAIL FENCE
CPAD	DENOTES CONCRETE PAD
OBV.	DENOTES OBVERT ELEVATION
HV	DENOTES HYDRO VAULT
CONC.	DENOTES CONCRETE
-X-	DENOTES FENCE LINE
○	DENOTES DECIDUOUS TREE
●	DENOTES CONIFEROUS TREE
⊙	DENOTES DIAMETER
⊥	DENOTES GUY WIRE ANCHOR





---

# Appendix B



PROJECT: Phase II Environmental Site Assessment  
 CLIENT: Argo Mayfield West V Limited  
 PROJECT LOCATION: 12192 Chinguacousy Road, Caledon, ON  
 DATUM: Geodetic  
 BH LOCATION: Refer to Figure 5 N 4841148.4 E 592508

**DRILLING DATA**  
 Method: Solid Stem Auger  
 Diameter: 150mm  
 Date: Dec/09/2024  
 REF. NO.: 24-371-600  
 ENCL NO.: 2

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors			PLASTIC LIMIT W <sub>p</sub>	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W <sub>L</sub>	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m <sup>3</sup> )	REMARKS AND GRAIN SIZE DISTRIBUTION (%)
(m) ELEV DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS 0.3 m			PID (ppm)	CGD (ppm)	WATER CONTENT (%)						
259.6	<b>TOPSOIL: 250mm</b>															
259.4	<b>CLAYEY SILT TO SILTY CLAY:</b> trace sand, trace gravel, trace rootlets, brown, moist, soft (weathered/disturbed)  <b>CLAYEY SILT TO SILTY CLAY TILL:</b> some sand to sandy, trace gravel, brown to grey, moist, stiff to hard  grey below 3.1m  100mm wet sandy silt layer at 4.6m  with sandy silt layers and silt pockets at 6.4m		1	SS	3										Metals and ORPs, OCPs, DUP-1	
0.3			2	SS	15											pH
258.8			3	SS	20											
0.8			4	SS	29											
1			5	SS	23											2 22 45 31
2			6	SS	11											
3			7	SS	31											
6.7	<b>END OF BOREHOLE:</b> Notes: 1) 50mm dia. monitoring well installed upon completion. 2) Water Level Readings:  Date: Water Level(mbgs): Dec. 23, 2024 1.0															

DS ENVIRO 0-50 PPM-2021 24-371-600GEO.GPJ DS.GDT 1/24/25

**GROUNDWATER ELEVATIONS**  
 Measurement 1st 2nd 3rd 4th

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





PROJECT: Phase II Environmental Site Assessment  
 CLIENT: Argo Mayfield West V Limited  
 PROJECT LOCATION: 12192 Chinguacousy Road, Caledon, ON  
 DATUM: Geodetic  
 BH LOCATION: Refer to Figure 5 N 4840993.1 E 592362.4

**DRILLING DATA**  
 Method: Solid Stem Auger  
 Diameter: 150mm  
 Date: Dec/06/2024  
 REF. NO.: 24-371-600  
 ENCL NO.: 3

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors		PLASTIC LIMIT W <sub>p</sub>	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W <sub>L</sub>	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m <sup>3</sup> )	REMARKS AND GRAIN SIZE DISTRIBUTION (%)
(m) ELEV DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS 0.3 m			PID (ppm)	CGD (ppm)						
261.0															
260.8	<b>TOPSOIL: 200mm</b>														
0.2	<b>FILL:</b> clayey silt to silty clay, trace rootlets, trace organics, dark brown to brown, moist, firm to stiff		1	SS	5										Metals and ORPs, OCPs
1			2	SS	10										PHCs, BTEX, VOCs, PAHs
259.5	<b>CLAYEY SILT TO SILTY CLAY TILL:</b> some sand to sandy, trace gravel, grey, moist, stiff to very stiff		3	SS	25										
1.5			4	SS	17										
2	fine roots at 2.3m		5	SS	29										PHCs, BTEX, VOCs, PAHs, pH
3			6	SS	20										5 21 54 20
4	grey below 3.1m		7	SS	13										
6															
6.7	<b>END OF BOREHOLE:</b> Notes: 1) 50mm dia. monitoring well installed upon completion. 2) Water Level Readings:  Date: Water Level(mbgs): Dec. 23, 2024 5.7														
254.3															

W. L. 255.3 masl  
Dec 23, 2024

DS ENVIRO 0-50 PPM-2021 24-371-600GEO.GPJ DS.GDT 1/24/25

**GROUNDWATER ELEVATIONS**  
 Measurement 1st 2nd 3rd 4th

**GRAPH NOTES** + 3, x 3: Numbers refer to Sensitivity ○ ●=3% Strain at Failure



PROJECT: Phase II Environmental Site Assessment  
 CLIENT: Argo Mayfield West V Limited  
 PROJECT LOCATION: 12192 Chinguacousy Road, Caledon, ON  
 DATUM: Geodetic  
 BH LOCATION: Refer to Figure 5 N 4840937.1 E 592336.3

**DRILLING DATA**  
 Method: Solid Stem Auger  
 Diameter: 150mm  
 Date: Dec/06/2024  
 REF. NO.: 24-371-600  
 ENCL NO.: 4

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors			PLASTIC LIMIT W <sub>p</sub>	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W <sub>L</sub>	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m <sup>3</sup> )	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
(m) ELEV DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS 0.3 m			PID (ppm)	CGD (ppm)	WATER CONTENT (%)						
261.1																
260.9	<b>GRANULAR FILL:</b> sand and gravel mixed with asphalt, 180mm		1	SS	19											
260.3	<b>CLAYEY SILT TO SILTY CLAY:</b> trace sand, trace gravel, trace rootlets, brown, moist, very stiff (weathered/disturbed)		2	SS	12											
260.3	<b>CLAYEY SILT TO SILTY CLAY TILL:</b> some sand to sandy, trace gravel, brown to grey, moist, stiff to very stiff		3	SS	21										0 14 47 39	
			4	SS	24											
			5	SS	18											
	grey below 4.6m		6	SS	8											
255.1	<b>SANDY SILT TILL:</b> some clay to clayey, trace gravel, grey, very moist, compact		7	SS	12											
254.4	<b>END OF BOREHOLE:</b> Notes: 1) Water not encountered during drilling.															

DS ENVIRO 0-50 PPM-2021 24-371-600GEO.GPJ DS.GDT 1/24/25

**GROUNDWATER ELEVATIONS**  
 Measurement 1st 2nd 3rd 4th

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



PROJECT: Phase II Environmental Site Assessment  
 CLIENT: Argo Mayfield West V Limited  
 PROJECT LOCATION: 12192 Chinguacousy Road, Caledon, ON  
 DATUM: Geodetic  
 BH LOCATION: Refer to Figure 5 N 4840914.3 E 592361.1

**DRILLING DATA**  
 Method: Solid Stem Auger  
 Diameter: 150mm  
 Date: Dec/06/2024  
 REF. NO.: 24-371-600  
 ENCL NO.: 5

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors		PLASTIC LIMIT W <sub>p</sub>	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W <sub>L</sub>	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m <sup>3</sup> )	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
(m) ELEV DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS 0.3 m			PID (ppm)	CGD (ppm)						
260.8	<b>TOPSOIL:</b> 150mm														
0.2	<b>FILL:</b> sand and gravel, dark brown, moist, loose		1	SS	6										Metals and ORPs, OCPs
260.2	<b>CLAYEY SILT TO SILTY CLAY:</b> trace sand, trace rootlets, brown, moist, firm (weathered/disturbed)		2	SS	10										
260.6		<b>CLAYEY SILT TO SILTY CLAY TILL:</b> some sand to sandy, trace gravel, brown to grey, moist, stiff to very stiff		3	SS	16									
1.8	sand seams at 1.8m		4	SS	17										
2.7			5	SS	27										
4.6	grey below 4.6m		6	SS	15										
6.4	some gravel at 6.4m		7	SS	16										
6.7	<b>END OF BOREHOLE:</b> Notes: 1) Water encountered at 2.3 mbgs during drilling.														

DS ENVIRO 0-50 PPM-2021 24-371-600GEO.GPJ DS.GDT 1/24/25

**GROUNDWATER ELEVATIONS**  
 Measurement 1st 2nd 3rd 4th

**GRAPH NOTES** + 3, x 3: Numbers refer to Sensitivity ○ ●=3% Strain at Failure



PROJECT: Phase II Environmental Site Assessment
CLIENT: Argo Mayfield West V Limited
PROJECT LOCATION: 12192 Chinguacousy Road, Caledon, ON
DATUM: Geodetic
BH LOCATION: Refer to Figure 5 N 4840779.7 E 592292.1

DRILLING DATA
Method: Solid Stem Auger
Diameter: 150mm
Date: Dec/09/2024
REF. NO.: 24-371-600
ENCL NO.: 6

Table with columns: SOIL PROFILE (ELEV DEPTH, DESCRIPTION, STRATA PLOT), SAMPLES (NUMBER, TYPE, "N" BLOWS 0.3 m), GROUND WATER CONDITIONS, ELEVATION, Soil Head Space Vapors (PID, CGD, WATER CONTENT), POCKET PEN, NATURAL UNIT WT, REMARKS AND GRAIN SIZE DISTRIBUTION.

DS ENVIRO 0-50 PPM-2021 24-371-600GEO.GPJ DS.GDT 1/24/25

GROUNDWATER ELEVATIONS
1st 2nd 3rd 4th
Measurement

GRAPH NOTES
+ 3 , x 3 : Numbers refer to Sensitivity
O = 3% Strain at Failure



PROJECT: Phase II Environmental Site Assessment  
 CLIENT: Argo Mayfield West V Limited  
 PROJECT LOCATION: 12192 Chinguacousy Road, Caledon, ON  
 DATUM: Geodetic  
 BH LOCATION: Refer to Figure 5 N 4840674.8 E 592134.8

**DRILLING DATA**  
 Method: Solid Stem Auger  
 Diameter: 150mm  
 Date: Dec/09/2024  
 REF. NO.: 24-371-600  
 ENCL NO.: 7

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors			PLASTIC LIMIT W <sub>p</sub>	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W <sub>L</sub>	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m <sup>3</sup> )	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
(m) ELEV DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS 0.3 m			PID (ppm)	CGD (ppm)	WATER CONTENT (%)						
260.3	<b>TOPSOIL:</b> 180mm															
260.0	<b>CLAYEY SILT TO SILTY CLAY:</b> trace sand, trace gravel, trace rootlets, brown, moist, stiff (weathered/disturbed)		1	SS	10										Metals and ORPs, OCPs	
259.5	<b>CLAYEY SILT TO SILTY CLAY TILL:</b> some sand to sandy, trace gravel, brown to grey, moist, stiff to very stiff		2	SS	15											
0.8			3	SS	20											
			4	SS	28											
	grey below 3.1m		5	SS	16										3 21 48 28	
			6	SS	12											
			7	SS	19											
	wet silty sand layer at 6.4m															
253.3	<b>END OF BOREHOLE:</b>															

W. L. 257.8 masl  
Dec 23, 2024

**Notes:**  
 1) 50mm dia. monitoring well installed upon completion.  
 2) Water Level Readings:  
 Date: Water Level(mbgs):  
 Dec. 23, 2024 2.5

DS ENVIRO 0-50 PPM-2021 24-371-600GEO.GPJ DS.GDT 1/24/25

**GROUNDWATER ELEVATIONS**  
 Measurement 1st 2nd 3rd 4th

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



PROJECT: Phase II Environmental Site Assessment	<b>DRILLING DATA</b>
CLIENT: Argo Mayfield West V Limited	Method: Direct Push
PROJECT LOCATION: 12192 Chinguacousy Road, Caledon, ON	Diameter:
DATUM: Geodetic	Date: Dec/09/2024
BH LOCATION: Refer to Figure 5 N 4841027.3 E 592383.8	REF. NO.: 24-371-600
	ENCL NO.: 8

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors		PLASTIC LIMIT W <sub>p</sub>	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W <sub>L</sub>	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m <sup>3</sup> )	REMARKS AND GRAIN SIZE DISTRIBUTION (%)
(m) ELEV DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS 0.3 m			PID (ppm)	CGD (ppm)						
260.6	<b>CLAYEY SILT TO SILTY CLAY:</b> trace sand, trace gravel, trace rootlets, brown, moist (weathered/disturbed)		1	SS											GR SA SI CL
259.8															
0.8	<b>CLAYEY SILT TO SILTY CLAY TILL:</b> some sand to sandy, trace gravel, some cobble, grey, moist		2	SS											
259.3	<b>END OF BOREHOLE:</b> Notes: 1) Borehole backfilled with bentonite upon completion														
1.3															

DS ENVIRO 0-50 PPM-2021 24-371-600ENVIRONMENT COPY.GPJ DS.GDT 1/28/25

**GROUNDWATER ELEVATIONS**  
Measurement

**GRAPH NOTES** + 3, x 3: Numbers refer to Sensitivity      ○ ●=3% Strain at Failure



---

# Appendix C



Your Project #: 24-371-600  
 Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
 Your C.O.C. #: N/A

**Attention: Megan Bender**

DS Consultants Limited  
 6221 Highway 7, Unit 16  
 Vaughan, ON  
 CANADA L4H 0K8

**Report Date: 2024/12/23**  
 Report #: R8457852  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C4BD399**

**Received: 2024/12/10, 18:38**

Sample Matrix: Soil  
 # Samples Received: 10

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Methylnaphthalene Sum	2	N/A	2024/12/17	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	5	2024/12/16	2024/12/18	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	1	2024/12/17	2024/12/18	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum	2	N/A	2024/12/17		EPA 8260C m
Free (WAD) Cyanide	5	2024/12/16	2024/12/17	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	1	2024/12/17	2024/12/17	CAM SOP-00457	OMOE E3015 m
Conductivity	6	2024/12/17	2024/12/17	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	1	2024/12/17	2024/12/17	CAM SOP-00436	EPA 3060A/7199 m
Hexavalent Chromium in Soil by IC (1)	5	2024/12/18	2024/12/18	CAM SOP-00436	EPA 3060A/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	1	N/A	2024/12/13	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	2	2024/12/17	2024/12/17	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	1	2024/12/17	2024/12/18	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	5	2024/12/16	2024/12/17	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	1	2024/12/17	2024/12/17	CAM SOP-00447	EPA 6020B m
Moisture	3	N/A	2024/12/12	CAM SOP-00445	Carter 2nd ed 70.2 m
Moisture	1	N/A	2024/12/14	CAM SOP-00445	Carter 2nd ed 70.2 m
Moisture	5	N/A	2024/12/16	CAM SOP-00445	Carter 2nd ed 70.2 m
OC Pesticides (Selected) & PCB (4)	6	2024/12/18	2024/12/19	CAM SOP-00307	EPA 8081B/ 8082A
OC Pesticides Summed Parameters	1	N/A	2024/12/16	CAM SOP-00307	EPA 8081B/ 8082A
OC Pesticides Summed Parameters	5	N/A	2024/12/17	CAM SOP-00307	EPA 8081B/ 8082A
PAH Compounds in Soil by GC/MS (SIM)	2	2024/12/16	2024/12/17	CAM SOP-00318	EPA 8270E
Polychlorinated Biphenyl in Soil	1	2024/12/17	2024/12/18	CAM SOP-00309	EPA 8082A m
pH CaCl2 EXTRACT	5	2024/12/16	2024/12/16	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT	3	2024/12/17	2024/12/17	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	5	N/A	2024/12/17	CAM SOP-00102	EPA 6010C
Sodium Adsorption Ratio (SAR)	1	N/A	2024/12/18	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs	2	N/A	2024/12/16	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, EPA, APHA or the Quebec Ministry of Environment.





Your Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Your C.O.C. #: N/A

**Attention: Megan Bender**

DS Consultants Limited  
6221 Highway 7, Unit 16  
Vaughan, ON  
CANADA L4H 0K8

**Report Date: 2024/12/23**

Report #: R8457852

Version: 1 - Final

## **CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C4BD399**

**Received: 2024/12/10, 18:38**

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) 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



Your Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Your C.O.C. #: N/A

**Attention: Megan Bender**

DS Consultants Limited  
6221 Highway 7, Unit 16  
Vaughan, ON  
CANADA L4H 0K8

**Report Date: 2024/12/23**  
Report #: R8457852  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C4BD399**

**Received: 2024/12/10, 18:38**

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:  
Ashton Gibson, Project Manager  
Email: ashton.gibson@bureauveritas.com  
Phone# (905)817-5765

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



O.REG 153 METALS & INORGANICS PKG (SOIL)

<b>Bureau Veritas ID</b>		ALKL24	ALKL26	ALKL29	ALKL30	ALKL31			
<b>Sampling Date</b>		2024/12/09	2024/12/06	2024/12/06	2024/12/09	2024/12/09			
<b>COC Number</b>		N/A	N/A	N/A	N/A	N/A			
	<b>UNITS</b>	<b>BH24-1 SS1</b>	<b>BH24-2 SS1</b>	<b>BH24-4 SS1</b>	<b>BH24-5 SS1</b>	<b>BH24-6 SS1</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>

<b>Calculated Parameters</b>									
Sodium Adsorption Ratio	N/A	1.5	0.16 (1)	0.88	0.87	0.49			9822029

<b>Inorganics</b>									
Conductivity	mS/cm	0.37	0.39	0.21	0.27	0.59	0.002	0.0005	9831232
Available (CaCl2) pH	pH	7.68	7.42	7.56	7.03	7.69			9830653
WAD Cyanide (Free)	ug/g	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.0019	9830978
Chromium (VI)	ug/g	<0.18	<0.18	<0.18	0.19	<0.18	0.18	0.050	9833982

<b>Metals</b>									
Hot Water Ext. Boron (B)	ug/g	0.29	0.42	0.090	0.12	0.10	0.050	0.030	9829810
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.10	9829591
Acid Extractable Arsenic (As)	ug/g	4.9	3.6	4.1	5.7	5.6	1.0	0.10	9829591
Acid Extractable Barium (Ba)	ug/g	98	63	82	74	110	0.50	0.30	9829591
Acid Extractable Beryllium (Be)	ug/g	0.97	0.60	0.74	0.69	1.0	0.20	0.020	9829591
Acid Extractable Boron (B)	ug/g	6.8	<5.0	8.3	<5.0	8.2	5.0	1.0	9829591
Acid Extractable Cadmium (Cd)	ug/g	0.16	0.44	<0.10	0.12	0.11	0.10	0.030	9829591
Acid Extractable Chromium (Cr)	ug/g	27	22	22	23	26	1.0	0.20	9829591
Acid Extractable Cobalt (Co)	ug/g	13	7.9	11	11	13	0.10	0.020	9829591
Acid Extractable Copper (Cu)	ug/g	27	19	26	20	33	0.50	0.20	9829591
Acid Extractable Lead (Pb)	ug/g	12	13	8.5	9.2	9.2	1.0	0.10	9829591
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.52	<0.50	<0.50	<0.50	0.50	0.10	9829591
Acid Extractable Nickel (Ni)	ug/g	29	16	24	20	32	0.50	0.20	9829591
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.10	9829591
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.040	9829591
Acid Extractable Thallium (Tl)	ug/g	0.16	0.12	0.12	0.13	0.15	0.050	0.010	9829591
Acid Extractable Uranium (U)	ug/g	0.67	0.57	0.47	0.54	0.55	0.050	0.030	9829591
Acid Extractable Vanadium (V)	ug/g	37	26	30	32	36	5.0	0.50	9829591
Acid Extractable Zinc (Zn)	ug/g	69	63	51	57	62	5.0	0.50	9829591
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.030	9829591

RDL = Reportable Detection Limit  
 QC Batch = Quality Control Batch  
 (1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio



BUREAU  
VERITAS

Bureau Veritas Job #: C4BD399  
Report Date: 2024/12/23

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Sampler Initials: AS

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

<b>Bureau Veritas ID</b>		ALOP83			
<b>Sampling Date</b>		2024/12/09			
<b>COC Number</b>		N/A			
	<b>UNITS</b>	<b>DUP-1</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>
<b>Calculated Parameters</b>					
Sodium Adsorption Ratio	N/A	1.5			9824366
<b>Inorganics</b>					
Conductivity	mS/cm	0.31	0.002	0.0005	9831578
Available (CaCl2) pH	pH	7.74			9831449
WAD Cyanide (Free)	ug/g	<0.01	0.01	0.0019	9831153
Chromium (VI)	ug/g	<0.18	0.18	0.050	9831194
<b>Metals</b>					
Hot Water Ext. Boron (B)	ug/g	0.094	0.050	0.030	9831358
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	0.10	9831637
Acid Extractable Arsenic (As)	ug/g	5.0	1.0	0.10	9831637
Acid Extractable Barium (Ba)	ug/g	94	0.50	0.30	9831637
Acid Extractable Beryllium (Be)	ug/g	0.91	0.20	0.020	9831637
Acid Extractable Boron (B)	ug/g	8.0	5.0	1.0	9831637
Acid Extractable Cadmium (Cd)	ug/g	0.11	0.10	0.030	9831637
Acid Extractable Chromium (Cr)	ug/g	28	1.0	0.20	9831637
Acid Extractable Cobalt (Co)	ug/g	14	0.10	0.020	9831637
Acid Extractable Copper (Cu)	ug/g	29	0.50	0.20	9831637
Acid Extractable Lead (Pb)	ug/g	12	1.0	0.10	9831637
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	0.10	9831637
Acid Extractable Nickel (Ni)	ug/g	32	0.50	0.20	9831637
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	0.10	9831637
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	0.040	9831637
Acid Extractable Thallium (Tl)	ug/g	0.17	0.050	0.010	9831637
Acid Extractable Uranium (U)	ug/g	0.74	0.050	0.030	9831637
Acid Extractable Vanadium (V)	ug/g	39	5.0	0.50	9831637
Acid Extractable Zinc (Zn)	ug/g	69	5.0	0.50	9831637
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	0.030	9831637
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU  
VERITAS

Bureau Veritas Job #: C4BD399  
Report Date: 2024/12/23

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Sampler Initials: AS

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

<b>Bureau Veritas ID</b>		ALKL24	ALKL26	ALKL29				ALKL29			
<b>Sampling Date</b>		2024/12/09	2024/12/06	2024/12/06				2024/12/06			
<b>COC Number</b>		N/A	N/A	N/A				N/A			
	<b>UNITS</b>	<b>BH24-1 SS1</b>	<b>BH24-2 SS1</b>	<b>BH24-4 SS1</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>	<b>BH24-4 SS1 Lab-Dup</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>

<b>Calculated Parameters</b>											
Chlordane (Total)	ug/g	<0.0020	<0.0020	<0.0020	0.0020	N/A	9819764				
o,p-DDD + p,p-DDD	ug/g	<0.0020	<0.0020	<0.0020	0.0020	N/A	9819764				
o,p-DDE + p,p-DDE	ug/g	<0.0020	<0.0020	<0.0020	0.0020	N/A	9819764				
o,p-DDT + p,p-DDT	ug/g	<0.0020	<0.0020	<0.0020	0.0020	N/A	9819764				
Total Endosulfan	ug/g	<0.0020	<0.0020	<0.0020	0.0020	N/A	9819764				
Total PCB	ug/g	<0.015	<0.015	<0.015	0.015	N/A	9819764				

<b>Pesticides &amp; Herbicides</b>											
Aldrin	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
a-Chlordane	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
g-Chlordane	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
o,p-DDD	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
p,p-DDD	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
o,p-DDE	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
p,p-DDE	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
o,p-DDT	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
p,p-DDT	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
Dieldrin	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
Lindane	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
Endosulfan I (alpha)	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
Endosulfan II (beta)	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
Endrin	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
Heptachlor	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
Heptachlor epoxide	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
Hexachlorobenzene	ug/g	<0.0020	<0.0020	<0.0020	0.0020	0.00040	9835583	<0.0020	0.0020	0.00040	9835583
Hexachlorobutadiene	ug/g	<0.0020	<0.0020	<0.0020	0.0020	N/A	9835583	<0.0020	0.0020	N/A	9835583
Hexachloroethane	ug/g	<0.0020	<0.0020	<0.0020	0.0020	N/A	9835583	<0.0020	0.0020	N/A	9835583
Methoxychlor	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0016	9835583	<0.0050	0.0050	0.0016	9835583
Aroclor 1242	ug/g	<0.015	<0.015	<0.015	0.015	0.0030	9835583	<0.015	0.015	0.0030	9835583
Aroclor 1248	ug/g	<0.015	<0.015	<0.015	0.015	0.0030	9835583	<0.015	0.015	0.0030	9835583

RDL = Reportable Detection Limit  
 QC Batch = Quality Control Batch  
 Lab-Dup = Laboratory Initiated Duplicate  
 N/A = Not Applicable



BUREAU  
VERITAS

Bureau Veritas Job #: C4BD399  
Report Date: 2024/12/23

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Sampler Initials: AS

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

Bureau Veritas ID		ALKL24	ALKL26	ALKL29				ALKL29			
Sampling Date		2024/12/09	2024/12/06	2024/12/06				2024/12/06			
COC Number		N/A	N/A	N/A				N/A			
	UNITS	BH24-1 SS1	BH24-2 SS1	BH24-4 SS1	RDL	MDL	QC Batch	BH24-4 SS1 Lab-Dup	RDL	MDL	QC Batch
Aroclor 1254	ug/g	<0.015	<0.015	<0.015	0.015	0.0030	9835583	<0.015	0.015	0.0030	9835583
Aroclor 1260	ug/g	<0.015	<0.015	<0.015	0.015	0.0030	9835583	<0.015	0.015	0.0030	9835583
Surrogate Recovery (%)											
2,4,5,6-Tetrachloro-m-xylene	%	97	100	90			9835583	91			9835583
Decachlorobiphenyl	%	63	76	77			9835583	67			9835583
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate											



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Bureau Veritas Job #: C4BD399  
Report Date: 2024/12/23

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Sampler Initials: AS

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

<b>Bureau Veritas ID</b>		ALKL30	ALKL31		ALOP83			
<b>Sampling Date</b>		2024/12/09	2024/12/09		2024/12/09			
<b>COC Number</b>		N/A	N/A		N/A			
	<b>UNITS</b>	<b>BH24-5 SS1</b>	<b>BH24-6 SS1</b>	<b>QC Batch</b>	<b>DUP-1</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>

Calculated Parameters								
Chlordane (Total)	ug/g	<0.0020	<0.0020	9819764	<0.0020	0.0020	N/A	9823520
o,p-DDD + p,p-DDD	ug/g	<0.0020	<0.0020	9819764	<0.0020	0.0020	N/A	9823520
o,p-DDE + p,p-DDE	ug/g	<0.0020	<0.0020	9819764	<0.0020	0.0020	N/A	9823520
o,p-DDT + p,p-DDT	ug/g	<0.0020	<0.0020	9819764	<0.0020	0.0020	N/A	9823520
Total Endosulfan	ug/g	<0.0020	<0.0020	9819764	<0.0020	0.0020	N/A	9823520
Total PCB	ug/g	<0.015	<0.015	9819764	<0.015	0.015	N/A	9823520

Pesticides & Herbicides								
Aldrin	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
a-Chlordane	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
g-Chlordane	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
o,p-DDD	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
p,p-DDD	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
o,p-DDE	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
p,p-DDE	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
o,p-DDT	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
p,p-DDT	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
Dieldrin	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
Lindane	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
Endosulfan I (alpha)	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
Endosulfan II (beta)	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
Endrin	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
Heptachlor	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
Heptachlor epoxide	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
Hexachlorobenzene	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	0.00040	9835583
Hexachlorobutadiene	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	N/A	9835583
Hexachloroethane	ug/g	<0.0020	<0.0020	9835583	<0.0020	0.0020	N/A	9835583
Methoxychlor	ug/g	<0.0050	<0.0050	9835583	<0.0050	0.0050	0.0016	9835583
Aroclor 1242	ug/g	<0.015	<0.015	9835583	<0.015	0.015	0.0030	9835583
Aroclor 1248	ug/g	<0.015	<0.015	9835583	<0.015	0.015	0.0030	9835583
Aroclor 1254	ug/g	<0.015	<0.015	9835583	<0.015	0.015	0.0030	9835583

RDL = Reportable Detection Limit  
 QC Batch = Quality Control Batch  
 N/A = Not Applicable



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Bureau Veritas Job #: C4BD399  
Report Date: 2024/12/23

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Sampler Initials: AS

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

Bureau Veritas ID		ALKL30	ALKL31		ALOP83			
Sampling Date		2024/12/09	2024/12/09		2024/12/09			
COC Number		N/A	N/A		N/A			
	UNITS	BH24-5 SS1	BH24-6 SS1	QC Batch	DUP-1	RDL	MDL	QC Batch
Aroclor 1260	ug/g	<0.015	<0.015	9835583	<0.015	0.015	0.0030	9835583
<b>Surrogate Recovery (%)</b>								
2,4,5,6-Tetrachloro-m-xylene	%	100	78	9835583	93			9835583
Decachlorobiphenyl	%	77	80	9835583	64			9835583
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								





O.REG 153 PAHS (SOIL)

Bureau Veritas ID		ALKL27	ALKL28			
Sampling Date		2024/12/06	2024/12/06			
COC Number		N/A	N/A			
	UNITS	BH24-2 SS2	BH24-2 SS5	RDL	MDL	QC Batch
<b>Calculated Parameters</b>						
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	0.0071	N/A	9821962
<b>Polyaromatic Hydrocarbons</b>						
Acenaphthene	ug/g	<0.0050	<0.0050	0.0050	0.00050	9829881
Acenaphthylene	ug/g	<0.0050	<0.0050	0.0050	0.00060	9829881
Anthracene	ug/g	<0.0050	<0.0050	0.0050	0.00040	9829881
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	0.0050	0.00040	9829881
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	0.0050	0.00040	9829881
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	0.0050	0.00060	9829881
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	0.0050	0.00050	9829881
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	0.0050	0.00030	9829881
Chrysene	ug/g	<0.0050	<0.0050	0.0050	0.00030	9829881
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	0.0050	0.00030	9829881
Fluoranthene	ug/g	<0.0050	<0.0050	0.0050	0.00060	9829881
Fluorene	ug/g	<0.0050	<0.0050	0.0050	0.00050	9829881
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	0.0050	0.00030	9829881
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.0050	0.00060	9829881
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.0050	0.00070	9829881
Naphthalene	ug/g	<0.0050	<0.0050	0.0050	0.00040	9829881
Phenanthrene	ug/g	<0.0050	<0.0050	0.0050	0.00040	9829881
Pyrene	ug/g	<0.0050	<0.0050	0.0050	0.00030	9829881
<b>Surrogate Recovery (%)</b>						
D10-Anthracene	%	100	105			9829881
D14-Terphenyl (FS)	%	83	83			9829881
D8-Acenaphthylene	%	88	91			9829881
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable						



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VERITAS

Bureau Veritas Job #: C4BD399  
Report Date: 2024/12/23

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Sampler Initials: AS

**O.REG 153 PCBS (SOIL)**

<b>Bureau Veritas ID</b>		ALKL32			
<b>Sampling Date</b>		2024/12/06			
<b>COC Number</b>		N/A			
	<b>UNITS</b>	<b>BH24-7 SS1</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>
<b>PCBs</b>					
Aroclor 1242	ug/g	<0.010	0.010	0.0070	9833770
Aroclor 1248	ug/g	<0.010	0.010	0.0070	9833770
Aroclor 1254	ug/g	<0.010	0.010	0.0070	9833770
Aroclor 1260	ug/g	<0.010	0.010	0.0070	9833770
Total PCB	ug/g	<0.010	0.010	0.0070	9833770
<b>Surrogate Recovery (%)</b>					
Decachlorobiphenyl	%	117			9833770
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



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

<b>Bureau Veritas ID</b>		ALKL32			
<b>Sampling Date</b>		2024/12/06			
<b>COC Number</b>		N/A			
	<b>UNITS</b>	<b>BH24-7 SS1</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>
<b>BTEX &amp; F1 Hydrocarbons</b>					
Benzene	ug/g	<0.020	0.020	0.020	9824896
Toluene	ug/g	<0.020	0.020	0.020	9824896
Ethylbenzene	ug/g	<0.020	0.020	0.020	9824896
o-Xylene	ug/g	<0.020	0.020	0.020	9824896
p+m-Xylene	ug/g	<0.040	0.040	0.040	9824896
Total Xylenes	ug/g	<0.040	0.040	0.040	9824896
F1 (C6-C10)	ug/g	<10	10	5.0	9824896
F1 (C6-C10) - BTEX	ug/g	<10	10	5.0	9824896
<b>F2-F4 Hydrocarbons</b>					
F2 (C10-C16 Hydrocarbons)	ug/g	<7.0	7.0	5.0	9831147
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	5.0	9831147
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	10	9831147
Reached Baseline at C50	ug/g	Yes			9831147
<b>Surrogate Recovery (%)</b>					
1,4-Difluorobenzene	%	102			9824896
4-Bromofluorobenzene	%	100			9824896
D10-o-Xylene	%	99			9824896
D4-1,2-Dichloroethane	%	97			9824896
o-Terphenyl	%	97			9831147
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



BUREAU VERITAS

Bureau Veritas Job #: C4BD399  
Report Date: 2024/12/23

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Sampler Initials: AS

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

Bureau Veritas ID		ALKL27				ALKL27			
Sampling Date		2024/12/06				2024/12/06			
COC Number		N/A				N/A			
	UNITS	BH24-2 SS2	RDL	MDL	QC Batch	BH24-2 SS2 Lab-Dup	RDL	MDL	QC Batch
<b>Calculated Parameters</b>									
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	0.010	9822038				
<b>Volatile Organics</b>									
Acetone (2-Propanone)	ug/g	<0.49	0.49	0.49	9823438	<0.49	0.49	0.49	9823438
Benzene	ug/g	<0.0060	0.0060	0.0060	9823438	<0.0060	0.0060	0.0060	9823438
Bromodichloromethane	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
Bromoform	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
Bromomethane	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
Carbon Tetrachloride	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
Chlorobenzene	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
Chloroform	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
Dibromochloromethane	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
1,2-Dichlorobenzene	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
1,3-Dichlorobenzene	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
1,4-Dichlorobenzene	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
1,1-Dichloroethane	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
1,2-Dichloroethane	ug/g	<0.049	0.049	0.049	9823438	<0.049	0.049	0.049	9823438
1,1-Dichloroethylene	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
cis-1,2-Dichloroethylene	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
trans-1,2-Dichloroethylene	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
1,2-Dichloropropane	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	0.030	9823438	<0.030	0.030	0.030	9823438
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
Ethylbenzene	ug/g	<0.010	0.010	0.010	9823438	<0.010	0.010	0.010	9823438
Ethylene Dibromide	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
Hexane	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
Methylene Chloride(Dichloromethane)	ug/g	<0.049	0.049	0.049	9823438	<0.049	0.049	0.049	9823438
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	0.40	0.40	9823438	<0.40	0.40	0.40	9823438
Methyl Isobutyl Ketone	ug/g	<0.40	0.40	0.40	9823438	<0.40	0.40	0.40	9823438
Methyl t-butyl ether (MTBE)	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



**O.REG 153 VOCS BY HS & F1-F4 (SOIL)**

Bureau Veritas ID		ALKL27				ALKL27			
Sampling Date		2024/12/06				2024/12/06			
COC Number		N/A				N/A			
	UNITS	BH24-2 SS2	RDL	MDL	QC Batch	BH24-2 SS2 Lab-Dup	RDL	MDL	QC Batch
Styrene	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
1,1,1,2-Tetrachloroethane	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
1,1,2,2-Tetrachloroethane	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
Tetrachloroethylene	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
Toluene	ug/g	<0.020	0.020	0.020	9823438	<0.020	0.020	0.020	9823438
1,1,1-Trichloroethane	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
1,1,2-Trichloroethane	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
Trichloroethylene	ug/g	<0.010	0.010	0.010	9823438	<0.010	0.010	0.010	9823438
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	0.040	0.040	9823438	<0.040	0.040	0.040	9823438
Vinyl Chloride	ug/g	<0.019	0.019	0.019	9823438	<0.019	0.019	0.019	9823438
p+m-Xylene	ug/g	<0.020	0.020	0.020	9823438	<0.020	0.020	0.020	9823438
o-Xylene	ug/g	<0.020	0.020	0.020	9823438	<0.020	0.020	0.020	9823438
Total Xylenes	ug/g	<0.020	0.020	0.020	9823438	<0.020	0.020	0.020	9823438
F1 (C6-C10)	ug/g	<10	10	2.0	9823438	<10	10	2.0	9823438
F1 (C6-C10) - BTEX	ug/g	<10	10	2.0	9823438	<10	10	2.0	9823438
<b>F2-F4 Hydrocarbons</b>									
F2 (C10-C16 Hydrocarbons)	ug/g	<7.0	7.0	5.0	9831147				
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	5.0	9831147				
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	10	9831147				
Reached Baseline at C50	ug/g	Yes			9831147				
<b>Surrogate Recovery (%)</b>									
o-Terphenyl	%	102			9831147				
4-Bromofluorobenzene	%	86			9823438	87			9823438
D10-o-Xylene	%	97			9823438	92			9823438
D4-1,2-Dichloroethane	%	116			9823438	120			9823438
D8-Toluene	%	94			9823438	94			9823438
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



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

<b>Bureau Veritas ID</b>		ALKL28			
<b>Sampling Date</b>		2024/12/06			
<b>COC Number</b>		N/A			
	<b>UNITS</b>	<b>BH24-2 SS5</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>
<b>Calculated Parameters</b>					
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	0.010	9822038
<b>Volatile Organics</b>					
Acetone (2-Propanone)	ug/g	<0.49	0.49	0.49	9823438
Benzene	ug/g	<0.0060	0.0060	0.0060	9823438
Bromodichloromethane	ug/g	<0.040	0.040	0.040	9823438
Bromoform	ug/g	<0.040	0.040	0.040	9823438
Bromomethane	ug/g	<0.040	0.040	0.040	9823438
Carbon Tetrachloride	ug/g	<0.040	0.040	0.040	9823438
Chlorobenzene	ug/g	<0.040	0.040	0.040	9823438
Chloroform	ug/g	<0.040	0.040	0.040	9823438
Dibromochloromethane	ug/g	<0.040	0.040	0.040	9823438
1,2-Dichlorobenzene	ug/g	<0.040	0.040	0.040	9823438
1,3-Dichlorobenzene	ug/g	<0.040	0.040	0.040	9823438
1,4-Dichlorobenzene	ug/g	<0.040	0.040	0.040	9823438
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	0.040	0.040	9823438
1,1-Dichloroethane	ug/g	<0.040	0.040	0.040	9823438
1,2-Dichloroethane	ug/g	<0.049	0.049	0.049	9823438
1,1-Dichloroethylene	ug/g	<0.040	0.040	0.040	9823438
cis-1,2-Dichloroethylene	ug/g	<0.040	0.040	0.040	9823438
trans-1,2-Dichloroethylene	ug/g	<0.040	0.040	0.040	9823438
1,2-Dichloropropane	ug/g	<0.040	0.040	0.040	9823438
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	0.030	9823438
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	0.040	9823438
Ethylbenzene	ug/g	<0.010	0.010	0.010	9823438
Ethylene Dibromide	ug/g	<0.040	0.040	0.040	9823438
Hexane	ug/g	<0.040	0.040	0.040	9823438
Methylene Chloride(Dichloromethane)	ug/g	<0.049	0.049	0.049	9823438
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	0.40	0.40	9823438
Methyl Isobutyl Ketone	ug/g	<0.40	0.40	0.40	9823438
Methyl t-butyl ether (MTBE)	ug/g	<0.040	0.040	0.040	9823438
Styrene	ug/g	<0.040	0.040	0.040	9823438
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



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

<b>Bureau Veritas ID</b>		ALKL28			
<b>Sampling Date</b>		2024/12/06			
<b>COC Number</b>		N/A			
	<b>UNITS</b>	<b>BH24-2 SS5</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>
1,1,1,2-Tetrachloroethane	ug/g	<0.040	0.040	0.040	9823438
1,1,2,2-Tetrachloroethane	ug/g	<0.040	0.040	0.040	9823438
Tetrachloroethylene	ug/g	<0.040	0.040	0.040	9823438
Toluene	ug/g	<0.020	0.020	0.020	9823438
1,1,1-Trichloroethane	ug/g	<0.040	0.040	0.040	9823438
1,1,2-Trichloroethane	ug/g	<0.040	0.040	0.040	9823438
Trichloroethylene	ug/g	<0.010	0.010	0.010	9823438
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	0.040	0.040	9823438
Vinyl Chloride	ug/g	<0.019	0.019	0.019	9823438
p+m-Xylene	ug/g	<0.020	0.020	0.020	9823438
o-Xylene	ug/g	<0.020	0.020	0.020	9823438
Total Xylenes	ug/g	<0.020	0.020	0.020	9823438
F1 (C6-C10)	ug/g	<10	10	2.0	9823438
F1 (C6-C10) - BTEX	ug/g	<10	10	2.0	9823438
<b>F2-F4 Hydrocarbons</b>					
F2 (C10-C16 Hydrocarbons)	ug/g	<7.0	7.0	5.0	9831147
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	5.0	9831147
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	10	9831147
Reached Baseline at C50	ug/g	Yes			9831147
<b>Surrogate Recovery (%)</b>					
o-Terphenyl	%	100			9831147
4-Bromofluorobenzene	%	85			9823438
D10-o-Xylene	%	94			9823438
D4-1,2-Dichloroethane	%	127			9823438
D8-Toluene	%	94			9823438
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



**BUREAU  
VERITAS**

Bureau Veritas Job #: C4BD399  
Report Date: 2024/12/23

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Sampler Initials: AS

**RESULTS OF ANALYSES OF SOIL**

<b>Bureau Veritas ID</b>		ALKL24				ALKL25			ALKL26			
<b>Sampling Date</b>		2024/12/09				2024/12/09			2024/12/06			
<b>COC Number</b>		N/A				N/A			N/A			
	<b>UNITS</b>	<b>BH24-1 SS1</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>	<b>BH24-1 SS3</b>	<b>MDL</b>	<b>QC Batch</b>	<b>BH24-2 SS1</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>
<b>Inorganics</b>												
Moisture	%	18	1.0	0.50	9829599				21	1.0	0.50	9829599
Available (CaCl2) pH	pH					7.82		9831449				
RDL = Reportable Detection Limit QC Batch = Quality Control Batch												

<b>Bureau Veritas ID</b>		ALKL27		ALKL28		ALKL29	ALKL30	ALKL31			
<b>Sampling Date</b>		2024/12/06		2024/12/06		2024/12/06	2024/12/09	2024/12/09			
<b>COC Number</b>		N/A		N/A		N/A	N/A	N/A			
	<b>UNITS</b>	<b>BH24-2 SS2</b>	<b>QC Batch</b>	<b>BH24-2 SS5</b>	<b>QC Batch</b>	<b>BH24-4 SS1</b>	<b>BH24-5 SS1</b>	<b>BH24-6 SS1</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>
<b>Inorganics</b>											
Moisture	%	13	9824472	13	9824472	18	15	17	1.0	0.50	9829599
Available (CaCl2) pH	pH			7.85	9831449						
RDL = Reportable Detection Limit QC Batch = Quality Control Batch											

<b>Bureau Veritas ID</b>		ALKL32		ALOP83			
<b>Sampling Date</b>		2024/12/06		2024/12/09			
<b>COC Number</b>		N/A		N/A			
	<b>UNITS</b>	<b>BH24-7 SS1</b>	<b>QC Batch</b>	<b>DUP-1</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>
<b>Inorganics</b>							
Moisture	%	18	9824472	25	1.0	0.50	9827992
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							





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Bureau Veritas Job #: C4BD399  
Report Date: 2024/12/23

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Sampler Initials: AS

### TEST SUMMARY

**Bureau Veritas ID:** ALKL24  
**Sample ID:** BH24-1 SS1  
**Matrix:** Soil

**Collected:** 2024/12/09  
**Shipped:**  
**Received:** 2024/12/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9829810	2024/12/16	2024/12/18	Aswathy Neduveli Suresh
Free (WAD) Cyanide	TECH	9830978	2024/12/16	2024/12/17	Prgya Panchal
Conductivity	AT	9831232	2024/12/17	2024/12/17	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	9833982	2024/12/18	2024/12/18	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	9829591	2024/12/16	2024/12/17	Viviana Canzonieri
Moisture	BAL	9829599	N/A	2024/12/16	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	9835583	2024/12/18	2024/12/19	Akruti Patel
OC Pesticides Summed Parameters	CALC	9819764	N/A	2024/12/17	Automated Statchk
pH CaCl2 EXTRACT	AT	9830653	2024/12/16	2024/12/16	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9822029	N/A	2024/12/17	Automated Statchk

**Bureau Veritas ID:** ALKL25  
**Sample ID:** BH24-1 SS3  
**Matrix:** Soil

**Collected:** 2024/12/09  
**Shipped:**  
**Received:** 2024/12/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	9831449	2024/12/17	2024/12/17	Kien Tran

**Bureau Veritas ID:** ALKL26  
**Sample ID:** BH24-2 SS1  
**Matrix:** Soil

**Collected:** 2024/12/06  
**Shipped:**  
**Received:** 2024/12/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9829810	2024/12/16	2024/12/18	Aswathy Neduveli Suresh
Free (WAD) Cyanide	TECH	9830978	2024/12/16	2024/12/17	Prgya Panchal
Conductivity	AT	9831232	2024/12/17	2024/12/17	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	9833982	2024/12/18	2024/12/18	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	9829591	2024/12/16	2024/12/17	Viviana Canzonieri
Moisture	BAL	9829599	N/A	2024/12/16	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	9835583	2024/12/18	2024/12/19	Akruti Patel
OC Pesticides Summed Parameters	CALC	9819764	N/A	2024/12/17	Automated Statchk
pH CaCl2 EXTRACT	AT	9830653	2024/12/16	2024/12/16	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9822029	N/A	2024/12/17	Automated Statchk

**Bureau Veritas ID:** ALKL27  
**Sample ID:** BH24-2 SS2  
**Matrix:** Soil

**Collected:** 2024/12/06  
**Shipped:**  
**Received:** 2024/12/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9821962	N/A	2024/12/17	Automated Statchk
1,3-Dichloropropene Sum	CALC	9822038	N/A	2024/12/17	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9831147	2024/12/17	2024/12/18	(Kent) Maolin Li
Moisture	BAL	9824472	N/A	2024/12/12	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9829881	2024/12/16	2024/12/17	Mitesh Raj



BUREAU VERITAS

Bureau Veritas Job #: C4BD399  
Report Date: 2024/12/23

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Sampler Initials: AS

### TEST SUMMARY

**Bureau Veritas ID:** ALKL27  
**Sample ID:** BH24-2 SS2  
**Matrix:** Soil

**Collected:** 2024/12/06  
**Shipped:**  
**Received:** 2024/12/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9823438	N/A	2024/12/16	Denis Reid

**Bureau Veritas ID:** ALKL27 Dup  
**Sample ID:** BH24-2 SS2  
**Matrix:** Soil

**Collected:** 2024/12/06  
**Shipped:**  
**Received:** 2024/12/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9823438	N/A	2024/12/16	Denis Reid

**Bureau Veritas ID:** ALKL28  
**Sample ID:** BH24-2 SS5  
**Matrix:** Soil

**Collected:** 2024/12/06  
**Shipped:**  
**Received:** 2024/12/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9821962	N/A	2024/12/17	Automated Statchk
1,3-Dichloropropene Sum	CALC	9822038	N/A	2024/12/17	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9831147	2024/12/17	2024/12/17	(Kent) Maolin Li
Moisture	BAL	9824472	N/A	2024/12/12	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9829881	2024/12/16	2024/12/17	Mitesh Raj
pH CaCl2 EXTRACT	AT	9831449	2024/12/17	2024/12/17	Kien Tran
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9823438	N/A	2024/12/16	Denis Reid

**Bureau Veritas ID:** ALKL29  
**Sample ID:** BH24-4 SS1  
**Matrix:** Soil

**Collected:** 2024/12/06  
**Shipped:**  
**Received:** 2024/12/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9829810	2024/12/16	2024/12/18	Aswathy Neduveli Suresh
Free (WAD) Cyanide	TECH	9830978	2024/12/16	2024/12/17	Prgya Panchal
Conductivity	AT	9831232	2024/12/17	2024/12/17	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	9833982	2024/12/18	2024/12/18	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	9829591	2024/12/16	2024/12/17	Viviana Canzonieri
Moisture	BAL	9829599	N/A	2024/12/16	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	9835583	2024/12/18	2024/12/19	Akruti Patel
OC Pesticides Summed Parameters	CALC	9819764	N/A	2024/12/17	Automated Statchk
pH CaCl2 EXTRACT	AT	9830653	2024/12/16	2024/12/16	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9822029	N/A	2024/12/17	Automated Statchk

**Bureau Veritas ID:** ALKL29 Dup  
**Sample ID:** BH24-4 SS1  
**Matrix:** Soil

**Collected:** 2024/12/06  
**Shipped:**  
**Received:** 2024/12/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
OC Pesticides (Selected) & PCB	GC/ECD	9835583	2024/12/18	2024/12/19	Akruti Patel



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Bureau Veritas Job #: C4BD399  
Report Date: 2024/12/23

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Sampler Initials: AS

### TEST SUMMARY

**Bureau Veritas ID:** ALKL30  
**Sample ID:** BH24-5 SS1  
**Matrix:** Soil

**Collected:** 2024/12/09  
**Shipped:**  
**Received:** 2024/12/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9829810	2024/12/16	2024/12/18	Aswathy Neduveli Suresh
Free (WAD) Cyanide	TECH	9830978	2024/12/16	2024/12/17	Prgya Panchal
Conductivity	AT	9831232	2024/12/17	2024/12/17	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	9833982	2024/12/18	2024/12/18	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	9829591	2024/12/16	2024/12/17	Viviana Canzonieri
Moisture	BAL	9829599	N/A	2024/12/16	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	9835583	2024/12/18	2024/12/19	Akruti Patel
OC Pesticides Summed Parameters	CALC	9819764	N/A	2024/12/17	Automated Statchk
pH CaCl2 EXTRACT	AT	9830653	2024/12/16	2024/12/16	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9822029	N/A	2024/12/17	Automated Statchk

**Bureau Veritas ID:** ALKL31  
**Sample ID:** BH24-6 SS1  
**Matrix:** Soil

**Collected:** 2024/12/09  
**Shipped:**  
**Received:** 2024/12/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9829810	2024/12/16	2024/12/18	Aswathy Neduveli Suresh
Free (WAD) Cyanide	TECH	9830978	2024/12/16	2024/12/17	Prgya Panchal
Conductivity	AT	9831232	2024/12/17	2024/12/17	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	9833982	2024/12/18	2024/12/18	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	9829591	2024/12/16	2024/12/17	Viviana Canzonieri
Moisture	BAL	9829599	N/A	2024/12/16	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	9835583	2024/12/18	2024/12/19	Akruti Patel
OC Pesticides Summed Parameters	CALC	9819764	N/A	2024/12/17	Automated Statchk
pH CaCl2 EXTRACT	AT	9830653	2024/12/16	2024/12/16	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9822029	N/A	2024/12/17	Automated Statchk

**Bureau Veritas ID:** ALKL32  
**Sample ID:** BH24-7 SS1  
**Matrix:** Soil

**Collected:** 2024/12/06  
**Shipped:**  
**Received:** 2024/12/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9824896	N/A	2024/12/13	Domnica Andronesco
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9831147	2024/12/17	2024/12/17	(Kent) Maolin Li
Moisture	BAL	9824472	N/A	2024/12/12	Muhammad Chhaidan
Polychlorinated Biphenyl in Soil	GC/ECD	9833770	2024/12/17	2024/12/18	Farag Mansour

**Bureau Veritas ID:** ALOP83  
**Sample ID:** DUP-1  
**Matrix:** Soil

**Collected:** 2024/12/09  
**Shipped:**  
**Received:** 2024/12/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9831358	2024/12/17	2024/12/18	Medhat Nasr
Free (WAD) Cyanide	TECH	9831153	2024/12/17	2024/12/17	Prgya Panchal



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Bureau Veritas Job #: C4BD399  
Report Date: 2024/12/23

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Sampler Initials: AS

### TEST SUMMARY

**Bureau Veritas ID:** ALOP83  
**Sample ID:** DUP-1  
**Matrix:** Soil

**Collected:** 2024/12/09  
**Shipped:**  
**Received:** 2024/12/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	9831578	2024/12/17	2024/12/17	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	9831194	2024/12/17	2024/12/17	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	9831637	2024/12/17	2024/12/17	Daniel Teclu
Moisture	BAL	9827992	N/A	2024/12/14	Muhammad Chhaidan
OC Pesticides (Selected) & PCB	GC/ECD	9835583	2024/12/18	2024/12/19	Akruti Patel
OC Pesticides Summed Parameters	CALC	9823520	N/A	2024/12/16	Automated Statchk
pH CaCl2 EXTRACT	AT	9831449	2024/12/17	2024/12/17	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9824366	N/A	2024/12/18	Automated Statchk



### GENERAL COMMENTS

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

Package 1	4.0°C
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Sample ALKL32 [BH24-7 SS1] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

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



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Bureau Veritas Job #: C4BD399

Report Date: 2024/12/23

### QUALITY ASSURANCE REPORT

DS Consultants Limited

Client Project #: 24-371-600

Site Location: 12192 CHINGUACOUSY ROAD, CALEDON

Sampler Initials: AS

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9823438	4-Bromofluorobenzene	2024/12/16	89	60 - 140	89	60 - 140	88	%		
9823438	D10-o-Xylene	2024/12/16	109	60 - 130	102	60 - 130	94	%		
9823438	D4-1,2-Dichloroethane	2024/12/16	117	60 - 140	119	60 - 140	117	%		
9823438	D8-Toluene	2024/12/16	106	60 - 140	104	60 - 140	96	%		
9824896	1,4-Difluorobenzene	2024/12/13	104	60 - 140	101	60 - 140	102	%		
9824896	4-Bromofluorobenzene	2024/12/13	99	60 - 140	102	60 - 140	101	%		
9824896	D10-o-Xylene	2024/12/13	103	60 - 140	91	60 - 140	91	%		
9824896	D4-1,2-Dichloroethane	2024/12/13	91	60 - 140	92	60 - 140	97	%		
9829881	D10-Anthracene	2024/12/16	106	50 - 130	112	50 - 130	115	%		
9829881	D14-Terphenyl (FS)	2024/12/16	82	50 - 130	96	50 - 130	95	%		
9829881	D8-Acenaphthylene	2024/12/16	94	50 - 130	97	50 - 130	93	%		
9831147	o-Terphenyl	2024/12/17	100	60 - 140	103	60 - 140	105	%		
9833770	Decachlorobiphenyl	2024/12/18	63	60 - 130	110	60 - 130	96	%		
9835583	2,4,5,6-Tetrachloro-m-xylene	2024/12/19	90	50 - 130	86	50 - 130	89	%		
9835583	Decachlorobiphenyl	2024/12/19	68	50 - 130	68	50 - 130	66	%		
9823438	1,1,1,2-Tetrachloroethane	2024/12/16	106	60 - 140	101	60 - 130	<0.040	ug/g	NC	50
9823438	1,1,1-Trichloroethane	2024/12/16	100	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
9823438	1,1,2,2-Tetrachloroethane	2024/12/16	95	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
9823438	1,1,2-Trichloroethane	2024/12/16	114	60 - 140	111	60 - 130	<0.040	ug/g	NC	50
9823438	1,1-Dichloroethane	2024/12/16	95	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
9823438	1,1-Dichloroethylene	2024/12/16	99	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
9823438	1,2-Dichlorobenzene	2024/12/16	102	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
9823438	1,2-Dichloroethane	2024/12/16	116	60 - 140	116	60 - 130	<0.049	ug/g	NC	50
9823438	1,2-Dichloropropane	2024/12/16	98	60 - 140	93	60 - 130	<0.040	ug/g	NC	50
9823438	1,3-Dichlorobenzene	2024/12/16	104	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
9823438	1,4-Dichlorobenzene	2024/12/16	104	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
9823438	Acetone (2-Propanone)	2024/12/16	109	60 - 140	117	60 - 140	<0.49	ug/g	NC	50
9823438	Benzene	2024/12/16	96	60 - 140	93	60 - 130	<0.0060	ug/g	NC	50
9823438	Bromodichloromethane	2024/12/16	103	60 - 140	101	60 - 130	<0.040	ug/g	NC	50
9823438	Bromoform	2024/12/16	91	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
9823438	Bromomethane	2024/12/16	88	60 - 140	81	60 - 140	<0.040	ug/g	NC	50



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### QUALITY ASSURANCE REPORT(CONT'D)

DS Consultants Limited

Client Project #: 24-371-600

Site Location: 12192 CHINGUACOUSY ROAD, CALEDON

Sampler Initials: AS

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9823438	Carbon Tetrachloride	2024/12/16	107	60 - 140	102	60 - 130	<0.040	ug/g	NC	50
9823438	Chlorobenzene	2024/12/16	92	60 - 140	88	60 - 130	<0.040	ug/g	NC	50
9823438	Chloroform	2024/12/16	102	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
9823438	cis-1,2-Dichloroethylene	2024/12/16	101	60 - 140	99	60 - 130	<0.040	ug/g	NC	50
9823438	cis-1,3-Dichloropropene	2024/12/16	97	60 - 140	92	60 - 130	<0.030	ug/g	NC	50
9823438	Dibromochloromethane	2024/12/16	105	60 - 140	102	60 - 130	<0.040	ug/g	NC	50
9823438	Dichlorodifluoromethane (FREON 12)	2024/12/16	74	60 - 140	70	60 - 140	<0.040	ug/g	NC	50
9823438	Ethylbenzene	2024/12/16	100	60 - 140	94	60 - 130	<0.010	ug/g	NC	50
9823438	Ethylene Dibromide	2024/12/16	104	60 - 140	103	60 - 130	<0.040	ug/g	NC	50
9823438	F1 (C6-C10) - BTEX	2024/12/16					<10	ug/g	NC	30
9823438	F1 (C6-C10)	2024/12/16	86	60 - 140	95	80 - 120	<10	ug/g	NC	30
9823438	Hexane	2024/12/16	107	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
9823438	Methyl Ethyl Ketone (2-Butanone)	2024/12/16	101	60 - 140	112	60 - 140	<0.40	ug/g	NC	50
9823438	Methyl Isobutyl Ketone	2024/12/16	113	60 - 140	123	60 - 130	<0.40	ug/g	NC	50
9823438	Methyl t-butyl ether (MTBE)	2024/12/16	99	60 - 140	98	60 - 130	<0.040	ug/g	NC	50
9823438	Methylene Chloride(Dichloromethane)	2024/12/16	104	60 - 140	102	60 - 130	<0.049	ug/g	NC	50
9823438	o-Xylene	2024/12/16	111	60 - 140	105	60 - 130	<0.020	ug/g	NC	50
9823438	p+m-Xylene	2024/12/16	102	60 - 140	96	60 - 130	<0.020	ug/g	NC	50
9823438	Styrene	2024/12/16	102	60 - 140	99	60 - 130	<0.040	ug/g	NC	50
9823438	Tetrachloroethylene	2024/12/16	88	60 - 140	82	60 - 130	<0.040	ug/g	NC	50
9823438	Toluene	2024/12/16	103	60 - 140	96	60 - 130	<0.020	ug/g	NC	50
9823438	Total Xylenes	2024/12/16					<0.020	ug/g	NC	50
9823438	trans-1,2-Dichloroethylene	2024/12/16	100	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
9823438	trans-1,3-Dichloropropene	2024/12/16	120	60 - 140	110	60 - 130	<0.040	ug/g	NC	50
9823438	Trichloroethylene	2024/12/16	95	60 - 140	91	60 - 130	<0.010	ug/g	NC	50
9823438	Trichlorofluoromethane (FREON 11)	2024/12/16	95	60 - 140	89	60 - 130	<0.040	ug/g	NC	50
9823438	Vinyl Chloride	2024/12/16	72	60 - 140	71	60 - 130	<0.019	ug/g	NC	50
9824472	Moisture	2024/12/12							1.6	20
9824896	Benzene	2024/12/13	91	50 - 140	76	50 - 140	<0.020	ug/g	NC	50
9824896	Ethylbenzene	2024/12/13	100	50 - 140	84	50 - 140	<0.020	ug/g	NC	50
9824896	F1 (C6-C10) - BTEX	2024/12/13					<10	ug/g	NC	30



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### QUALITY ASSURANCE REPORT(CONT'D)

DS Consultants Limited

Client Project #: 24-371-600

Site Location: 12192 CHINGUACOUSY ROAD, CALEDON

Sampler Initials: AS

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9824896	F1 (C6-C10)	2024/12/13	95	60 - 140	82	80 - 120	<10	ug/g	NC	30
9824896	o-Xylene	2024/12/13	95	50 - 140	80	50 - 140	<0.020	ug/g	NC	50
9824896	p+m-Xylene	2024/12/13	94	50 - 140	79	50 - 140	<0.040	ug/g	NC	50
9824896	Toluene	2024/12/13	88	50 - 140	73	50 - 140	<0.020	ug/g	NC	50
9824896	Total Xylenes	2024/12/13					<0.040	ug/g	NC	50
9827992	Moisture	2024/12/14							8.2	20
9829591	Acid Extractable Antimony (Sb)	2024/12/17	79	75 - 125	104	80 - 120	<0.20	ug/g	7.9	30
9829591	Acid Extractable Arsenic (As)	2024/12/17	93	75 - 125	102	80 - 120	<1.0	ug/g	3.6	30
9829591	Acid Extractable Barium (Ba)	2024/12/17	NC	75 - 125	98	80 - 120	<0.50	ug/g	2.6	30
9829591	Acid Extractable Beryllium (Be)	2024/12/17	91	75 - 125	100	80 - 120	<0.20	ug/g	4.1	30
9829591	Acid Extractable Boron (B)	2024/12/17	78	75 - 125	97	80 - 120	<5.0	ug/g	6.3	30
9829591	Acid Extractable Cadmium (Cd)	2024/12/17	93	75 - 125	99	80 - 120	<0.10	ug/g	NC	30
9829591	Acid Extractable Chromium (Cr)	2024/12/17	NC	75 - 125	98	80 - 120	<1.0	ug/g	3.2	30
9829591	Acid Extractable Cobalt (Co)	2024/12/17	87	75 - 125	99	80 - 120	<0.10	ug/g	2.6	30
9829591	Acid Extractable Copper (Cu)	2024/12/17	83	75 - 125	94	80 - 120	<0.50	ug/g	3.2	30
9829591	Acid Extractable Lead (Pb)	2024/12/17	85	75 - 125	94	80 - 120	<1.0	ug/g	0.54	30
9829591	Acid Extractable Mercury (Hg)	2024/12/17	91	75 - 125	97	80 - 120	<0.050	ug/g	NC	30
9829591	Acid Extractable Molybdenum (Mo)	2024/12/17	87	75 - 125	95	80 - 120	<0.50	ug/g	3.0	30
9829591	Acid Extractable Nickel (Ni)	2024/12/17	NC	75 - 125	96	80 - 120	<0.50	ug/g	3.3	30
9829591	Acid Extractable Selenium (Se)	2024/12/17	92	75 - 125	100	80 - 120	<0.50	ug/g	NC	30
9829591	Acid Extractable Silver (Ag)	2024/12/17	93	75 - 125	98	80 - 120	<0.20	ug/g	NC	30
9829591	Acid Extractable Thallium (Tl)	2024/12/17	88	75 - 125	96	80 - 120	<0.050	ug/g	1.1	30
9829591	Acid Extractable Uranium (U)	2024/12/17	90	75 - 125	96	80 - 120	<0.050	ug/g	0.34	30
9829591	Acid Extractable Vanadium (V)	2024/12/17	NC	75 - 125	98	80 - 120	<5.0	ug/g	3.2	30
9829591	Acid Extractable Zinc (Zn)	2024/12/17	NC	75 - 125	102	80 - 120	<5.0	ug/g	2.0	30
9829599	Moisture	2024/12/16							0.58	20
9829810	Hot Water Ext. Boron (B)	2024/12/18	104	75 - 125	97	75 - 125	<0.050	ug/g	7.4	40
9829881	1-Methylnaphthalene	2024/12/16	93	50 - 130	92	50 - 130	<0.0050	ug/g	NC	40
9829881	2-Methylnaphthalene	2024/12/16	92	50 - 130	90	50 - 130	<0.0050	ug/g	107 (1)	40
9829881	Acenaphthene	2024/12/16	95	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
9829881	Acenaphthylene	2024/12/16	97	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40





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### QUALITY ASSURANCE REPORT(CONT'D)

DS Consultants Limited

Client Project #: 24-371-600

Site Location: 12192 CHINGUACOUSY ROAD, CALEDON

Sampler Initials: AS

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9829881	Anthracene	2024/12/16	102	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40
9829881	Benzo(a)anthracene	2024/12/16	106	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
9829881	Benzo(a)pyrene	2024/12/16	98	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
9829881	Benzo(b/j)fluoranthene	2024/12/16	91	50 - 130	93	50 - 130	<0.0050	ug/g	NC	40
9829881	Benzo(g,h,i)perylene	2024/12/16	99	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
9829881	Benzo(k)fluoranthene	2024/12/16	97	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
9829881	Chrysene	2024/12/16	104	50 - 130	102	50 - 130	<0.0050	ug/g	13	40
9829881	Dibenzo(a,h)anthracene	2024/12/16	100	50 - 130	97	50 - 130	<0.0050	ug/g	NC	40
9829881	Fluoranthene	2024/12/16	95	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
9829881	Fluorene	2024/12/16	97	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
9829881	Indeno(1,2,3-cd)pyrene	2024/12/16	98	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
9829881	Naphthalene	2024/12/16	89	50 - 130	92	50 - 130	<0.0050	ug/g	NC	40
9829881	Phenanthrene	2024/12/16	95	50 - 130	93	50 - 130	<0.0050	ug/g	NC	40
9829881	Pyrene	2024/12/16	101	50 - 130	110	50 - 130	<0.0050	ug/g	NC	40
9830653	Available (CaCl2) pH	2024/12/16			99	97 - 103			0.57	N/A
9830978	WAD Cyanide (Free)	2024/12/17	95	75 - 125	102	80 - 120	<0.01	ug/g	NC	35
9831147	F2 (C10-C16 Hydrocarbons)	2024/12/17	98	60 - 140	101	80 - 120	<7.0	ug/g	NC	30
9831147	F3 (C16-C34 Hydrocarbons)	2024/12/17	100	60 - 140	103	80 - 120	<50	ug/g	NC	30
9831147	F4 (C34-C50 Hydrocarbons)	2024/12/17	98	60 - 140	100	80 - 120	<50	ug/g	NC	30
9831153	WAD Cyanide (Free)	2024/12/17	105	75 - 125	98	80 - 120	<0.01	ug/g	NC	35
9831194	Chromium (VI)	2024/12/17	87	70 - 130	93	80 - 120	<0.18	ug/g	NC	35
9831232	Conductivity	2024/12/17			104	90 - 110	<0.002	mS/cm	1.9	10
9831358	Hot Water Ext. Boron (B)	2024/12/18	103	75 - 125	105	75 - 125	<0.050	ug/g	NC	40
9831449	Available (CaCl2) pH	2024/12/17			101	97 - 103			0.93	N/A
9831578	Conductivity	2024/12/17			103	90 - 110	<0.002	mS/cm	3.0	10
9831637	Acid Extractable Antimony (Sb)	2024/12/17	125	75 - 125	119	80 - 120	<0.20	ug/g		
9831637	Acid Extractable Arsenic (As)	2024/12/17	108	75 - 125	103	80 - 120	<1.0	ug/g	NC	30
9831637	Acid Extractable Barium (Ba)	2024/12/17	98	75 - 125	97	80 - 120	<0.50	ug/g		
9831637	Acid Extractable Beryllium (Be)	2024/12/17	101	75 - 125	98	80 - 120	<0.20	ug/g		
9831637	Acid Extractable Boron (B)	2024/12/17	95	75 - 125	93	80 - 120	<5.0	ug/g		
9831637	Acid Extractable Cadmium (Cd)	2024/12/17	106	75 - 125	101	80 - 120	<0.10	ug/g		



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### QUALITY ASSURANCE REPORT(CONT'D)

DS Consultants Limited

Client Project #: 24-371-600

Site Location: 12192 CHINGUACOUSY ROAD, CALEDON

Sampler Initials: AS

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9831637	Acid Extractable Chromium (Cr)	2024/12/17	109	75 - 125	104	80 - 120	<1.0	ug/g		
9831637	Acid Extractable Cobalt (Co)	2024/12/17	108	75 - 125	104	80 - 120	<0.10	ug/g		
9831637	Acid Extractable Copper (Cu)	2024/12/17	103	75 - 125	100	80 - 120	<0.50	ug/g		
9831637	Acid Extractable Lead (Pb)	2024/12/17	107	75 - 125	106	80 - 120	<1.0	ug/g		
9831637	Acid Extractable Mercury (Hg)	2024/12/17	109	75 - 125	110	80 - 120	<0.050	ug/g		
9831637	Acid Extractable Molybdenum (Mo)	2024/12/17	107	75 - 125	101	80 - 120	<0.50	ug/g		
9831637	Acid Extractable Nickel (Ni)	2024/12/17	109	75 - 125	105	80 - 120	<0.50	ug/g		
9831637	Acid Extractable Selenium (Se)	2024/12/17	106	75 - 125	104	80 - 120	<0.50	ug/g		
9831637	Acid Extractable Silver (Ag)	2024/12/17	106	75 - 125	101	80 - 120	<0.20	ug/g		
9831637	Acid Extractable Thallium (Tl)	2024/12/17	108	75 - 125	106	80 - 120	<0.050	ug/g		
9831637	Acid Extractable Uranium (U)	2024/12/17	116	75 - 125	112	80 - 120	<0.050	ug/g	0.22	30
9831637	Acid Extractable Vanadium (V)	2024/12/17	115	75 - 125	105	80 - 120	<5.0	ug/g		
9831637	Acid Extractable Zinc (Zn)	2024/12/17	114	75 - 125	115	80 - 120	<5.0	ug/g		
9833770	Aroclor 1242	2024/12/18					<0.010	ug/g	NC	50
9833770	Aroclor 1248	2024/12/18					<0.010	ug/g	NC	50
9833770	Aroclor 1254	2024/12/18					<0.010	ug/g	NC	50
9833770	Aroclor 1260	2024/12/18	60	30 - 130	119	30 - 130	<0.010	ug/g	NC	50
9833770	Total PCB	2024/12/18	60	30 - 130	119	30 - 130	<0.010	ug/g	NC	50
9833982	Chromium (VI)	2024/12/18	76	70 - 130	88	80 - 120	<0.18	ug/g	NC	35
9835583	a-Chlordane	2024/12/19	87	50 - 130	87	50 - 130	<0.0020	ug/g	NC	40
9835583	Aldrin	2024/12/19	78	50 - 130	86	50 - 130	<0.0020	ug/g	NC	40
9835583	Aroclor 1242	2024/12/19					<0.015	ug/g	NC	40
9835583	Aroclor 1248	2024/12/19					<0.015	ug/g	NC	40
9835583	Aroclor 1254	2024/12/19					<0.015	ug/g	NC	40
9835583	Aroclor 1260	2024/12/19					<0.015	ug/g	NC	40
9835583	Dieldrin	2024/12/19	73	50 - 130	85	50 - 130	<0.0020	ug/g	NC	40
9835583	Endosulfan I (alpha)	2024/12/19	77	50 - 130	91	50 - 130	<0.0020	ug/g	NC	40
9835583	Endosulfan II (beta)	2024/12/19	75	50 - 130	77	50 - 130	<0.0020	ug/g	NC	40
9835583	Endrin	2024/12/19	80	50 - 130	92	50 - 130	<0.0020	ug/g	NC	40
9835583	g-Chlordane	2024/12/19	86	50 - 130	86	50 - 130	<0.0020	ug/g	NC	40
9835583	Heptachlor epoxide	2024/12/19	71	50 - 130	81	50 - 130	<0.0020	ug/g	NC	40



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### QUALITY ASSURANCE REPORT(CONT'D)

DS Consultants Limited

Client Project #: 24-371-600

Site Location: 12192 CHINGUACOUSY ROAD, CALEDON

Sampler Initials: AS

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9835583	Heptachlor	2024/12/19	78	50 - 130	84	50 - 130	<0.0020	ug/g	NC	40
9835583	Hexachlorobenzene	2024/12/19	72	50 - 130	82	50 - 130	<0.0020	ug/g	NC	40
9835583	Hexachlorobutadiene	2024/12/19	56	50 - 130	88	50 - 130	<0.0020	ug/g	NC	40
9835583	Hexachloroethane	2024/12/19	44 (2)	50 - 130	71	50 - 130	<0.0020	ug/g	NC	40
9835583	Lindane	2024/12/19	77	50 - 130	84	50 - 130	<0.0020	ug/g	NC	40
9835583	Methoxychlor	2024/12/19	90	50 - 130	85	50 - 130	<0.0050	ug/g	NC	40
9835583	o,p-DDD	2024/12/19	95	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40
9835583	o,p-DDE	2024/12/19	92	50 - 130	92	50 - 130	<0.0020	ug/g	NC	40
9835583	o,p-DDT	2024/12/19	103	50 - 130	98	50 - 130	<0.0020	ug/g	NC	40
9835583	p,p-DDD	2024/12/19	105	50 - 130	107	50 - 130	<0.0020	ug/g	NC	40
9835583	p,p-DDE	2024/12/19	89	50 - 130	90	50 - 130	<0.0020	ug/g	NC	40
9835583	p,p-DDT	2024/12/19	109	50 - 130	92	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 <= 2x RDL).

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

(2) Matrix spike exceeds acceptance limits, sample inhomogeneity suspected.



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Bureau Veritas Job #: C4BD399  
Report Date: 2024/12/23

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD, CALEDON  
Sampler Initials: AS

### 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 Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

C4BD399  
2024/12/10 18:38



6740 Campobello Road, Mississauga, Ontario L5N 2L8  
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266

CHAIN OF CUSTODY RECORD  
ENV COC - 00014v5

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Invoice Information		Report Information (if differs from invoice)		Project Information	
Company:	DS Consultants Ltd.	Company:	DS Consultants Ltd.	Quotation #:	
Contact Name:	Accounts Payable	Contact Name:	Megan Bender	P.O. #/ AFE#:	
Street Address:	6221 Hwy Unit 16	Street Address:	125 McGovern Drive Unit 3-4	Project #:	24-371-600
City:	Vaughan	City:	Cambridge	Site #:	
Prov:	ON	Postal Code:	N3H4R7	Site Location:	12192 Chinguacousy Road, Caledon
Phone:	905-264-9393	Phone:	519-588-9513	Site Location Province:	ON
Email:	Accounts Payable	Email:	mbender@dsconsultants.ca	Sampled By:	Aisha Sharif
Copies:	asharif@dsconsultants.ca	Copies:	asharif@dsconsultants.ca		



NONT-2024-12-2099

REG 153	Regulatory Criteria										Regular Turnaround Time (TAT)													
	Table 1	Res/Park	Med/Fine	CCME	Reg 406, Table:							5 to 7 Day	10 Day	Rush Turnaround Time (TAT)										
Table 2	Ind/Comm	Coarse	Reg 558*	Sanitary Sewer Bylaw							Same Day	1 Day	Surcharges apply											
Table 3	Agri/other	For RSC	*min 3 day TAT	Storm Sewer Bylaw							2 Day	3 Day												
Table			MISA Municipality	Other:							4 Day													
Include Criteria on Certificate of Analysis (check if yes):													Date Required:		Comments									
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS													YYYY		MM		DD							
Sample Identification (Please print or Type)		Date Sampled			Time (24hr)		Matrix																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
BH24-1 SS1	2024	12	09																			3		
BH24-1 SS3	24	12	09																			1		
BH24-2 SS1	24	12	06																			3		
BH24-2 SS2	24	12	06																			4		
BH24-2 SS5	24	12	06																			5		
BH24-4 SS1	24	12	06																			3		
BH24-5 SS1	24	12	09																			3		
BH24-6 SS1	24	12	09																			3		
BH24-7 SS1	24	12	06																			4		

\* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

LAB USE ONLY			Yes	No	°C	LAB USE ONLY			Yes	No	°C	LAB USE ONLY			Yes	No	°C	Temperature reading by:				
Seal present						Seal present						Seal present										
Seal intact						Seal intact						Seal intact										
Seal intact					Seal intact					Seal intact												
Cooling media present					Cooling media present					Cooling media present												
Relinquished by: (Signature/ Print)			Date			Time			Received by: (Signature/ Print)			Date			Time			Special instructions				
1 Aisha Sharif			2024	12	10	06	36		1 Aisha Sharif			2024	12	10	18	38						
2									2													



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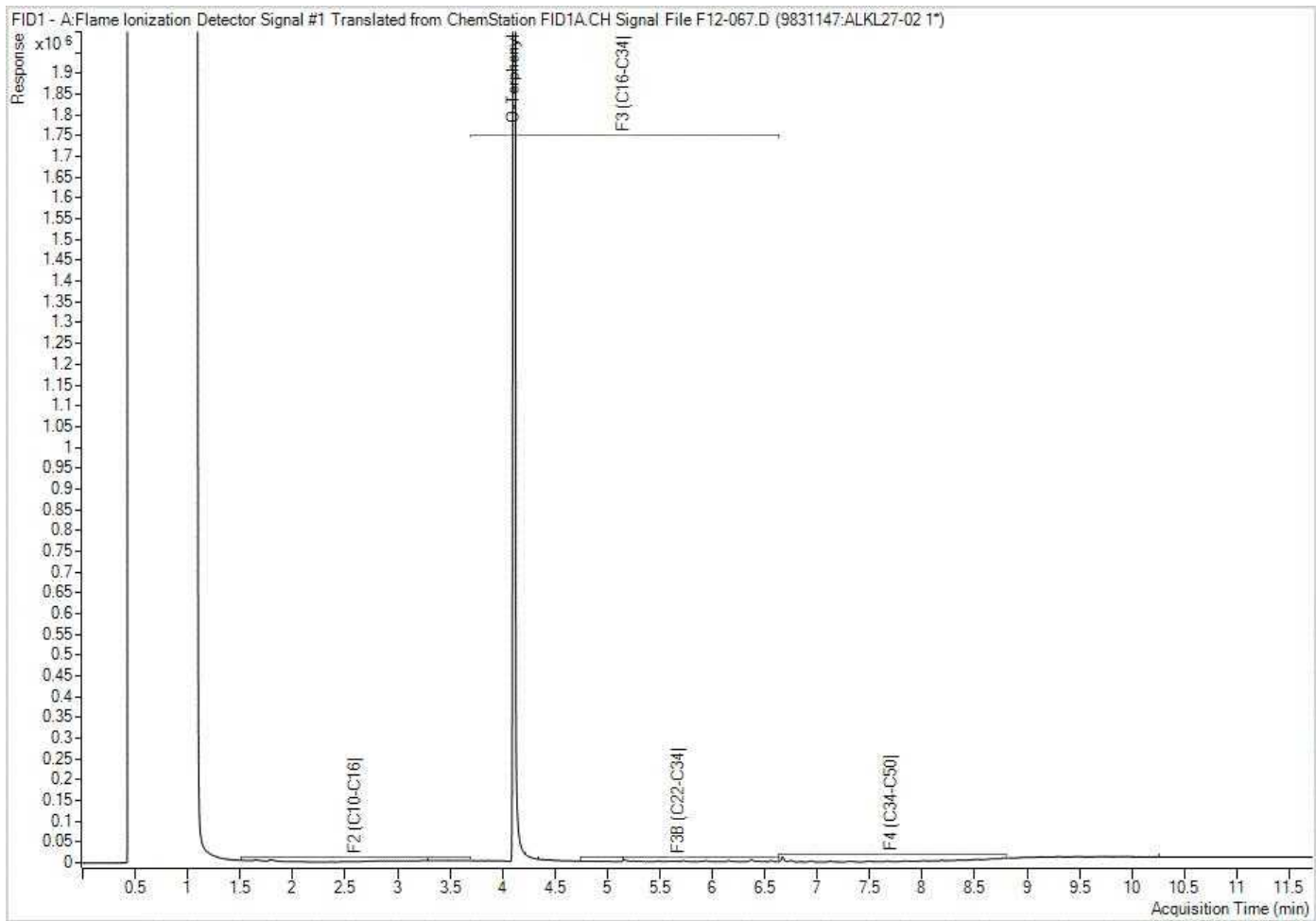
6740 Campobello Road, Mississauga, Ontario L5N 2H8  
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266

CHAIN OF CUSTODY RECORD  
ENV COC - 00014v5

Page 1 of 1

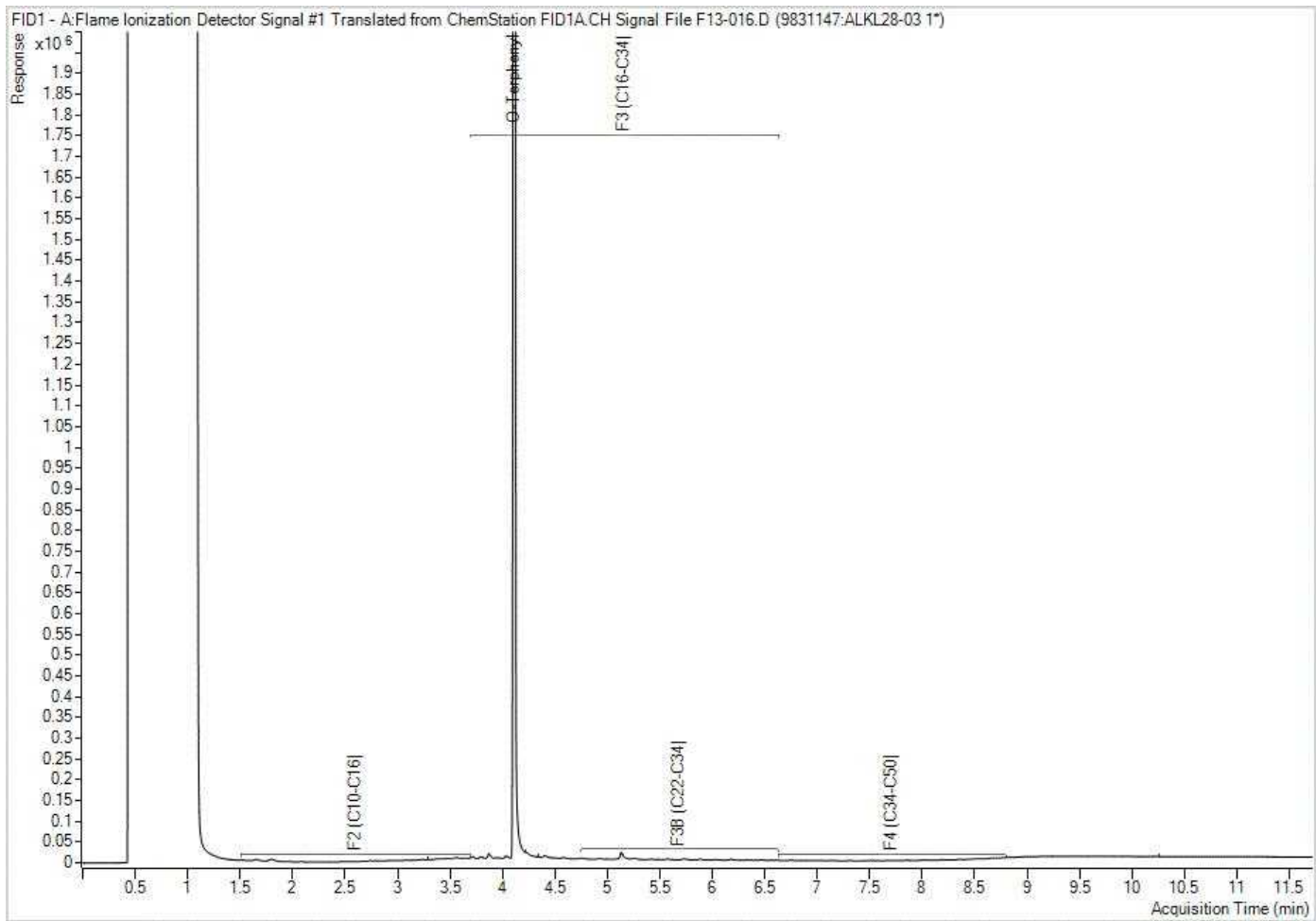
Invoice Information				Report Information (if differs from invoice)				Project Information				LAB USE ONLY - PLACE STICKER HERE											
Company: DS Consultants Ltd.				Company: DS Consultants Ltd.				Quotation #:															
Contact Name: Accounts Payable				Contact Name: Megan Bender				P.O. # / AFE#:															
Street Address: 6221 Hwy 7, Unit 16				Street Address: 6221 Highway 7, Unit 16				Project #:															
City: Vaughan, Prov: ON Postal Code: L4H 0K8				City: Vaughan, Prov: ON Postal Code: L4H 0K8				Site #:															
Phone: 905-264-9393				Phone:				Site Location: 12192 Chinguacousy Rd, Caledon				Rush Confirmation #:											
Email: accounting@dsconsultants.ca				Email: mbender@dsconsultants.ca				Site Location Province: Ontario															
Copies:				Copies: asharif@dsconsultants.ca				Sampled By: Aisha															
<b>Regulatory Criteria</b> <input type="checkbox"/> Table 1 <input checked="" type="checkbox"/> Res/Park <input type="checkbox"/> Med/Fine <input type="checkbox"/> CCME <input type="checkbox"/> Reg 406, Table: <input checked="" type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Reg 558* <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> *min 3 day TAT <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> Table <input type="checkbox"/> MISA <input type="checkbox"/> Municipality <input type="checkbox"/> PWQO <input type="checkbox"/> Other:												Regular Turnaround Time (TAT) <input checked="" type="checkbox"/> 5 to 7 Day <input type="checkbox"/> 10 Day Rush Turnaround Time (TAT) Surcharges apply <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day Date Required: YYYY MM DD Comments											
Include Criteria on Certificate of Analysis (check if yes): <input checked="" type="checkbox"/>												# OF CONTAINERS SUBMITTED HOLD - DO NOT ANALYZE											
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS																							
Sample Identification			Date Sampled			Time (24hr)		Matrix		FIELD FILTERED FIELD PRESERVED LAB FILTRATION REQUIRED BTEX/F1 F2, F4 VOCs Reg 155 metals and inorganics Reg 153 ICPMS metals Reg 153 metals (Pb, Cr, V, ICPMS metals, HWS, B) PAHs pH SPL Metals OCPs													
1 DUP-1			24 12 09			AM		Soil		x x 3 Please add to COC C4BD399													
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY																							
LAB USE ONLY				LAB USE ONLY				LAB USE ONLY				Temperature reading by:											
Seal present				Seal present				Seal present															
Seal intact				Seal intact				Seal intact															
Cooling media present				Cooling media present				Cooling media present															
Relinquished by: (Signature/ Print)				Date				Time				Received by: (Signature/ Print)											
Luisa				2021 12 12 16 50				12 16 50				10-Dec-24 18:38 ton Gibson  4BD399 ENV-760											
												Special Instructions											

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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

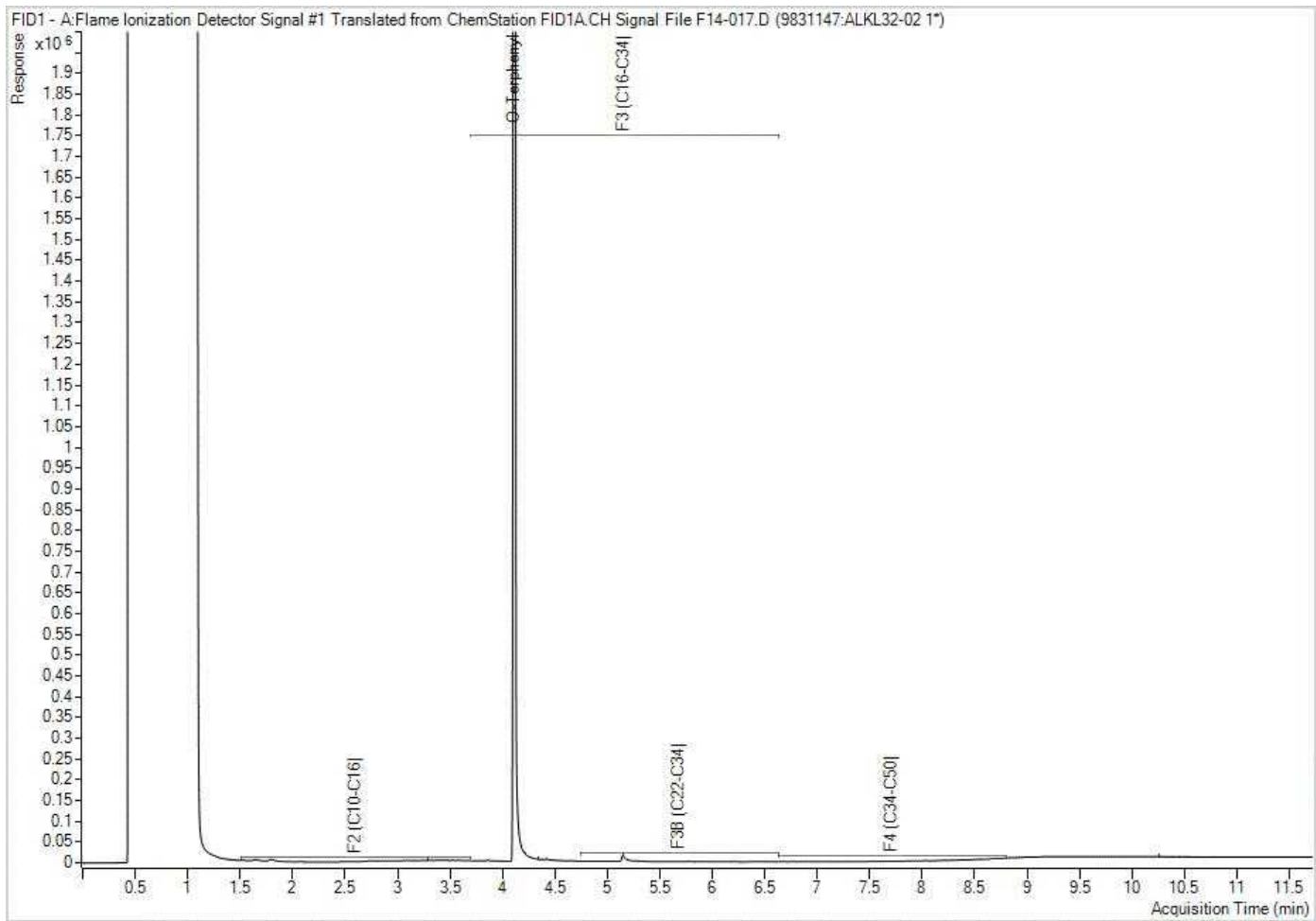
Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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



Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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



Your Project #: 24-371-600  
 Site Location: CHINGUACOUSY, CALEDON  
 Your C.O.C. #: N/A

**Attention: Megan Bender**

DS Consultants Limited  
 6221 Highway 7, Unit 16  
 Vaughan, ON  
 CANADA L4H 0K8

**Report Date: 2024/12/30**  
 Report #: R8463892  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C4BM121**

**Received: 2024/12/18, 15:22**

Sample Matrix: Water  
 # Samples Received: 2

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Methylnaphthalene Sum	1	N/A	2024/12/22	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	2	N/A	2024/12/27		EPA 8260C m
Chloride by Automated Colourimetry	1	N/A	2024/12/27	CAM SOP-00463	SM 24 4500-Cl E m
Chromium (VI) in Water	1	N/A	2024/12/23	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	1	N/A	2024/12/24	CAM SOP-00457	OMOE E3015 m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2024/12/21	2024/12/22	CAM SOP-00316	CCME PHC-CWS m
Mercury	1	2024/12/23	2024/12/27	CAM SOP-00453	EPA 7470A m
Lab Filtered Metals by ICPMS	1	2024/12/23	2024/12/24	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	1	2024/12/21	2024/12/21	CAM SOP-00318	EPA 8270E
Volatile Organic Compounds and F1 PHCs	2	N/A	2024/12/24	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, EPA, APHA or the Quebec Ministry of Environment.

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 #: 24-371-600  
Site Location: CHINGUACOUSY, CALEDON  
Your C.O.C. #: N/A

**Attention: Megan Bender**

DS Consultants Limited  
6221 Highway 7, Unit 16  
Vaughan, ON  
CANADA L4H 0K8

**Report Date: 2024/12/30**  
Report #: R8463892  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C4BM121**

**Received: 2024/12/18, 15:22**

(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". 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**

Please direct all questions regarding this Certificate of Analysis to:  
Ashton Gibson, Project Manager  
Email: ashton.gibson@bureauveritas.com  
Phone# (905)817-5765

=====  
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.



**VOLATILE ORGANICS BY GC/MS (WATER)**

Bureau Veritas ID			AMD120			
Sampling Date			2024/12/18			
COC Number			N/A			
	UNITS	Criteria	TRIP BLANK	RDL	MDL	QC Batch
<b>Volatile Organics</b>						
Acetone (2-Propanone)	ug/L	2700	<10	10	1.0	9843263
Benzene	ug/L	5.0	<0.17	0.17	0.020	9843263
Bromodichloromethane	ug/L	16.0	<0.50	0.50	0.050	9843263
Bromoform	ug/L	25.0	<1.0	1.0	0.10	9843263
Bromomethane	ug/L	0.89	<0.50	0.50	0.10	9843263
Carbon Tetrachloride	ug/L	5.0	<0.20	0.20	0.050	9843263
Chlorobenzene	ug/L	30	<0.20	0.20	0.010	9843263
Chloroform	ug/L	22	<0.20	0.20	0.050	9843263
Dibromochloromethane	ug/L	25.0	<0.50	0.50	0.050	9843263
1,2-Dichlorobenzene	ug/L	3.0	<0.50	0.50	0.050	9843263
1,3-Dichlorobenzene	ug/L	59	<0.50	0.50	0.050	9843263
1,4-Dichlorobenzene	ug/L	1.0	<0.50	0.50	0.050	9843263
Dichlorodifluoromethane (FREON 12)	ug/L	590	<1.0	1.0	0.050	9843263
1,1-Dichloroethane	ug/L	5	<0.20	0.20	0.050	9843263
1,2-Dichloroethane	ug/L	5	<0.50	0.50	0.020	9843263
1,1-Dichloroethylene	ug/L	14	<0.20	0.20	0.050	9843263
cis-1,2-Dichloroethylene	ug/L	17	<0.50	0.50	0.050	9843263
trans-1,2-Dichloroethylene	ug/L	17	<0.50	0.50	0.050	9843263
1,2-Dichloropropane	ug/L	5.0	<0.20	0.20	0.050	9843263
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	0.30	0.050	9843263
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	0.40	0.050	9843263
Ethylbenzene	ug/L	2.4	<0.20	0.20	0.010	9843263
Ethylene Dibromide	ug/L	0.2	<0.20	0.20	0.050	9843263
Hexane	ug/L	520	<1.0	1.0	0.10	9843263
Methylene Chloride(Dichloromethane)	ug/L	50	<2.0	2.0	0.10	9843263
Methyl Ethyl Ketone (2-Butanone)	ug/L	1800	<10	10	0.50	9843263
Methyl Isobutyl Ketone	ug/L	640	<5.0	5.0	0.10	9843263
No Fill	No Exceedance					
Grey	Exceeds 1 criteria policy/level					
Black	Exceeds both criteria/levels					
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)						
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition						
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil						



BUREAU  
VERITAS

Bureau Veritas Job #: C4BM121  
Report Date: 2024/12/30

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: CHINGUACOUSY, CALEDON  
Sampler Initials: IB

### VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID			AMD120			
Sampling Date			2024/12/18			
COC Number			N/A			
	UNITS	Criteria	TRIP BLANK	RDL	MDL	QC Batch
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	0.50	0.050	9843263
Styrene	ug/L	5.4	<0.50	0.50	0.050	9843263
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	0.50	0.050	9843263
1,1,2,2-Tetrachloroethane	ug/L	1.0	<0.50	0.50	0.050	9843263
Tetrachloroethylene	ug/L	17	<0.20	0.20	0.050	9843263
Toluene	ug/L	24	<0.20	0.20	0.010	9843263
1,1,1-Trichloroethane	ug/L	200	<0.20	0.20	0.050	9843263
1,1,2-Trichloroethane	ug/L	5	<0.50	0.50	0.050	9843263
Trichloroethylene	ug/L	5	<0.20	0.20	0.050	9843263
Trichlorofluoromethane (FREON 11)	ug/L	150	<0.50	0.50	0.10	9843263
Vinyl Chloride	ug/L	1.7	<0.20	0.20	0.050	9843263
p+m-Xylene	ug/L	-	<0.20	0.20	0.010	9843263
o-Xylene	ug/L	-	<0.20	0.20	0.010	9843263
Total Xylenes	ug/L	300	<0.20	0.20	0.010	9843263
F1 (C6-C10)	ug/L	750	<25	25	20	9843263
F1 (C6-C10) - BTEX	ug/L	750	<25	25	20	9843263
<b>Surrogate Recovery (%)</b>						
4-Bromofluorobenzene	%	-	98			9843263
D4-1,2-Dichloroethane	%	-	102			9843263
D8-Toluene	%	-	98			9843263
No Fill	No Exceedance					
Grey	Exceeds 1 criteria policy/level					
Black	Exceeds both criteria/levels					
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)						
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition						
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil						



**O.REG 153 INORGANICS PKG (LAB FILTERED)**

Bureau Veritas ID			AMD19				AMD19			
Sampling Date			2024/12/18				2024/12/18			
COC Number			N/A				N/A			
	UNITS	Criteria	BH24-2	RDL	MDL	QC Batch	BH24-2 Lab-Dup	RDL	MDL	QC Batch
<b>Inorganics</b>										
WAD Cyanide (Free)	ug/L	66	<1	1	0.2	9845500				
Dissolved Chloride (Cl-)	mg/L	790	11	1.0	0.66	9842715				
<b>Metals</b>										
Chromium (VI)	ug/L	25	<0.50	0.50	0.30	9843227	<0.50	0.50	0.30	9843227
Mercury (Hg)	ug/L	1	<0.10	0.10	0.020	9843704				
Dissolved Antimony (Sb)	ug/L	6.0	0.77	0.50	N/A	9844553				
Dissolved Arsenic (As)	ug/L	25	<1.0	1.0	N/A	9844553				
Dissolved Barium (Ba)	ug/L	1000	24	2.0	2.0	9844553				
Dissolved Beryllium (Be)	ug/L	4.0	<0.40	0.40	0.40	9844553				
Dissolved Boron (B)	ug/L	5000	350	10	N/A	9844553				
Dissolved Cadmium (Cd)	ug/L	2.7	0.13	0.090	0.081	9844553				
Dissolved Chromium (Cr)	ug/L	50	<5.0	5.0	N/A	9844553				
Dissolved Cobalt (Co)	ug/L	3.8	<b>16</b>	0.50	N/A	9844553				
Dissolved Copper (Cu)	ug/L	87	1.0	0.90	0.90	9844553				
Dissolved Lead (Pb)	ug/L	10	<0.50	0.50	N/A	9844553				
Dissolved Molybdenum (Mo)	ug/L	70	7.4	0.50	0.50	9844553				
Dissolved Nickel (Ni)	ug/L	100	21	1.0	N/A	9844553				
Dissolved Selenium (Se)	ug/L	10	<2.0	2.0	N/A	9844553				
Dissolved Silver (Ag)	ug/L	1.5	<0.090	0.090	0.081	9844553				
Dissolved Sodium (Na)	ug/L	490000	99000	100	N/A	9844553				
Dissolved Thallium (Tl)	ug/L	2.0	<0.050	0.050	N/A	9844553				
Dissolved Uranium (U)	ug/L	20	5.9	0.10	N/A	9844553				
Dissolved Vanadium (V)	ug/L	6.2	<0.50	0.50	0.50	9844553				
Dissolved Zinc (Zn)	ug/L	1100	23	5.0	N/A	9844553				
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)										
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition										
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil										
N/A = Not Applicable										



O.REG 153 PAHS (WATER)

<b>Bureau Veritas ID</b>			AMD119			
<b>Sampling Date</b>			2024/12/18			
<b>COC Number</b>			N/A			
	<b>UNITS</b>	<b>Criteria</b>	<b>BH24-2</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>
<b>Calculated Parameters</b>						
Methylnaphthalene, 2-(1-)	ug/L	3.2	<0.071	0.071	N/A	9840231
<b>Polyaromatic Hydrocarbons</b>						
Acenaphthene	ug/L	4.1	<0.050	0.050	0.0030	9842294
Acenaphthylene	ug/L	1	<0.050	0.050	0.0030	9842294
Anthracene	ug/L	2.4	<0.050	0.050	0.0030	9842294
Benzo(a)anthracene	ug/L	1.0	<0.050	0.050	0.0030	9842294
Benzo(a)pyrene	ug/L	0.01	<0.0090	0.0090	0.0030	9842294
Benzo(b/j)fluoranthene	ug/L	0.1	<0.050	0.050	0.0030	9842294
Benzo(g,h,i)perylene	ug/L	0.2	<0.050	0.050	0.0030	9842294
Benzo(k)fluoranthene	ug/L	0.1	<0.050	0.050	0.0030	9842294
Chrysene	ug/L	0.1	<0.050	0.050	0.0030	9842294
Dibenzo(a,h)anthracene	ug/L	0.2	<0.050	0.050	0.0030	9842294
Fluoranthene	ug/L	0.41	<0.050	0.050	0.0030	9842294
Fluorene	ug/L	120	<0.050	0.050	0.0030	9842294
Indeno(1,2,3-cd)pyrene	ug/L	0.2	<0.050	0.050	0.0030	9842294
1-Methylnaphthalene	ug/L	3.2	<0.050	0.050	0.0030	9842294
2-Methylnaphthalene	ug/L	3.2	<0.050	0.050	0.0030	9842294
Naphthalene	ug/L	11	<0.050	0.050	0.0030	9842294
Phenanthrene	ug/L	1	<0.030	0.030	0.0030	9842294
Pyrene	ug/L	4.1	<0.050	0.050	0.0030	9842294
<b>Surrogate Recovery (%)</b>						
D10-Anthracene	%	-	98			9842294
D14-Terphenyl (FS)	%	-	92			9842294
D8-Acenaphthylene	%	-	91			9842294
No Fill	No Exceedance					
Grey	Exceeds 1 criteria policy/level					
Black	Exceeds both criteria/levels					
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)						
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition						
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil						
N/A = Not Applicable						



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

Bureau Veritas ID			AMDI19				AMDI19			
Sampling Date			2024/12/18				2024/12/18			
COC Number			N/A				N/A			
	UNITS	Criteria	BH24-2	RDL	MDL	QC Batch	BH24-2 Lab-Dup	RDL	MDL	QC Batch
<b>Calculated Parameters</b>										
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	0.50	0.50	9841807				
<b>Volatile Organics</b>										
Acetone (2-Propanone)	ug/L	2700	<10	10	1.0	9843263	<10	10	1.0	9843263
Benzene	ug/L	5.0	<0.17	0.17	0.020	9843263	<0.17	0.17	0.020	9843263
Bromodichloromethane	ug/L	16.0	<0.50	0.50	0.050	9843263	<0.50	0.50	0.050	9843263
Bromoform	ug/L	25.0	<1.0	1.0	0.10	9843263	<1.0	1.0	0.10	9843263
Bromomethane	ug/L	0.89	<0.50	0.50	0.10	9843263	<0.50	0.50	0.10	9843263
Carbon Tetrachloride	ug/L	5.0	<0.20	0.20	0.050	9843263	<0.20	0.20	0.050	9843263
Chlorobenzene	ug/L	30	<0.20	0.20	0.010	9843263	<0.20	0.20	0.010	9843263
Chloroform	ug/L	22	<0.20	0.20	0.050	9843263	<0.20	0.20	0.050	9843263
Dibromochloromethane	ug/L	25.0	<0.50	0.50	0.050	9843263	<0.50	0.50	0.050	9843263
1,2-Dichlorobenzene	ug/L	3.0	<0.50	0.50	0.050	9843263	<0.50	0.50	0.050	9843263
1,3-Dichlorobenzene	ug/L	59	<0.50	0.50	0.050	9843263	<0.50	0.50	0.050	9843263
1,4-Dichlorobenzene	ug/L	1.0	<0.50	0.50	0.050	9843263	<0.50	0.50	0.050	9843263
Dichlorodifluoromethane (FREON 12)	ug/L	590	<1.0	1.0	0.050	9843263	<1.0	1.0	0.050	9843263
1,1-Dichloroethane	ug/L	5	<0.20	0.20	0.050	9843263	<0.20	0.20	0.050	9843263
1,2-Dichloroethane	ug/L	5	<0.50	0.50	0.020	9843263	<0.50	0.50	0.020	9843263
1,1-Dichloroethylene	ug/L	14	<0.20	0.20	0.050	9843263	<0.20	0.20	0.050	9843263
cis-1,2-Dichloroethylene	ug/L	17	<0.50	0.50	0.050	9843263	<0.50	0.50	0.050	9843263
trans-1,2-Dichloroethylene	ug/L	17	<0.50	0.50	0.050	9843263	<0.50	0.50	0.050	9843263
1,2-Dichloropropane	ug/L	5.0	<0.20	0.20	0.050	9843263	<0.20	0.20	0.050	9843263
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	0.30	0.050	9843263	<0.30	0.30	0.050	9843263
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	0.40	0.050	9843263	<0.40	0.40	0.050	9843263
Ethylbenzene	ug/L	2.4	<0.20	0.20	0.010	9843263	<0.20	0.20	0.010	9843263
Ethylene Dibromide	ug/L	0.2	<0.20	0.20	0.050	9843263	<0.20	0.20	0.050	9843263
Hexane	ug/L	520	<1.0	1.0	0.10	9843263	<1.0	1.0	0.10	9843263
Methylene Chloride(Dichloromethane)	ug/L	50	<2.0	2.0	0.10	9843263	<2.0	2.0	0.10	9843263
Methyl Ethyl Ketone (2-Butanone)	ug/L	1800	<10	10	0.50	9843263	<10	10	0.50	9843263
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)										
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition										
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil										





BUREAU  
VERITAS

Bureau Veritas Job #: C4BM121  
Report Date: 2024/12/30

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: CHINGUACOUSY, CALEDON  
Sampler Initials: IB

**O.REG 153 VOCS BY HS & F1-F4 (WATER)**

Bureau Veritas ID			AMDI19				AMDI19			
Sampling Date			2024/12/18				2024/12/18			
COC Number			N/A				N/A			
	UNITS	Criteria	BH24-2	RDL	MDL	QC Batch	BH24-2 Lab-Dup	RDL	MDL	QC Batch
Methyl Isobutyl Ketone	ug/L	640	<5.0	5.0	0.10	9843263	<5.0	5.0	0.10	9843263
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	0.50	0.050	9843263	<0.50	0.50	0.050	9843263
Styrene	ug/L	5.4	<0.50	0.50	0.050	9843263	<0.50	0.50	0.050	9843263
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	0.50	0.050	9843263	<0.50	0.50	0.050	9843263
1,1,2,2-Tetrachloroethane	ug/L	1.0	<0.50	0.50	0.050	9843263	<0.50	0.50	0.050	9843263
Tetrachloroethylene	ug/L	17	<0.20	0.20	0.050	9843263	<0.20	0.20	0.050	9843263
Toluene	ug/L	24	<0.20	0.20	0.010	9843263	<0.20	0.20	0.010	9843263
1,1,1-Trichloroethane	ug/L	200	<0.20	0.20	0.050	9843263	<0.20	0.20	0.050	9843263
1,1,2-Trichloroethane	ug/L	5	<0.50	0.50	0.050	9843263	<0.50	0.50	0.050	9843263
Trichloroethylene	ug/L	5	<0.20	0.20	0.050	9843263	<0.20	0.20	0.050	9843263
Trichlorofluoromethane (FREON 11)	ug/L	150	<0.50	0.50	0.10	9843263	<0.50	0.50	0.10	9843263
Vinyl Chloride	ug/L	1.7	<0.20	0.20	0.050	9843263	<0.20	0.20	0.050	9843263
p+m-Xylene	ug/L	-	<0.20	0.20	0.010	9843263	<0.20	0.20	0.010	9843263
o-Xylene	ug/L	-	<0.20	0.20	0.010	9843263	<0.20	0.20	0.010	9843263
Total Xylenes	ug/L	300	<0.20	0.20	0.010	9843263	<0.20	0.20	0.010	9843263
F1 (C6-C10)	ug/L	750	<25	25	20	9843263	<25	25	20	9843263
F1 (C6-C10) - BTEX	ug/L	750	<25	25	20	9843263	<25	25	20	9843263
<b>F2-F4 Hydrocarbons</b>										
F2 (C10-C16 Hydrocarbons)	ug/L	150	<90	90	50	9842285				
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	200	70	9842285				
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	200	50	9842285				
Reached Baseline at C50	ug/L	-	Yes			9842285				
<b>Surrogate Recovery (%)</b>										
o-Terphenyl	%	-	96			9842285				
4-Bromofluorobenzene	%	-	98			9843263	98			9843263
D4-1,2-Dichloroethane	%	-	104			9843263	101			9843263
D8-Toluene	%	-	97			9843263	98			9843263
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)										
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition										
Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil										



**BUREAU  
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Bureau Veritas Job #: C4BM121  
Report Date: 2024/12/30

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: CHINGUACOUSY, CALEDON  
Sampler Initials: IB

**O.REG 153 VOCS BY HS & F1-F4 (WATER)**

<b>Bureau Veritas ID</b>			AMD120			
<b>Sampling Date</b>			2024/12/18			
<b>COC Number</b>			N/A			
	<b>UNITS</b>	<b>Criteria</b>	<b>TRIP BLANK</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>

**Calculated Parameters**

1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	0.50	0.50	9841807
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No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit  
 QC Batch = Quality Control Batch  
 Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)  
 Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition  
 Potable Ground Water- All Types of Property Uses - Medium and Fine Textured Soil



BUREAU  
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Bureau Veritas Job #: C4BM121  
Report Date: 2024/12/30

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: CHINGUACOUSY, CALEDON  
Sampler Initials: IB

### TEST SUMMARY

**Bureau Veritas ID:** AMDI19  
**Sample ID:** BH24-2  
**Matrix:** Water

**Collected:** 2024/12/18  
**Shipped:**  
**Received:** 2024/12/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9840231	N/A	2024/12/22	Automated Statchk
1,3-Dichloropropene Sum	CALC	9841807	N/A	2024/12/27	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9842715	N/A	2024/12/27	Massarat Jan
Chromium (VI) in Water	IC	9843227	N/A	2024/12/23	Rupinder Sihota
Free (WAD) Cyanide	SKAL/CN	9845500	N/A	2024/12/24	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9842285	2024/12/21	2024/12/22	Mohammed Abdul Nafay Shoeb
Mercury	CV/AA	9843704	2024/12/23	2024/12/27	Maitri PATIL
Lab Filtered Metals by ICPMS	ICP/MS	9844553	2024/12/23	2024/12/24	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9842294	2024/12/21	2024/12/21	Jett Wu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9843263	N/A	2024/12/24	Cheng-Yu Sha

**Bureau Veritas ID:** AMDI19 Dup  
**Sample ID:** BH24-2  
**Matrix:** Water

**Collected:** 2024/12/18  
**Shipped:**  
**Received:** 2024/12/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	9843227	N/A	2024/12/23	Rupinder Sihota
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9843263	N/A	2024/12/24	Cheng-Yu Sha

**Bureau Veritas ID:** AMDI20  
**Sample ID:** TRIP BLANK  
**Matrix:** Water

**Collected:** 2024/12/18  
**Shipped:**  
**Received:** 2024/12/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9841807	N/A	2024/12/27	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9843263	N/A	2024/12/24	Cheng-Yu Sha



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Bureau Veritas Job #: C4BM121  
Report Date: 2024/12/30

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: CHINGUACOUSY, CALEDON  
Sampler Initials: IB

### GENERAL COMMENTS

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

Package 1	5.3°C
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**Results relate only to the items tested.**



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Bureau Veritas Job #: C4BM121

Report Date: 2024/12/30

### QUALITY ASSURANCE REPORT

DS Consultants Limited

Client Project #: 24-371-600

Site Location: CHINGUACOUSY, CALEDON

Sampler Initials: IB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9842285	o-Terphenyl	2024/12/22			102	60 - 140	99	%		
9842294	D10-Anthracene	2024/12/21			89	50 - 130	94	%		
9842294	D14-Terphenyl (FS)	2024/12/21			91	50 - 130	96	%		
9842294	D8-Acenaphthylene	2024/12/21			88	50 - 130	89	%		
9843263	4-Bromofluorobenzene	2024/12/24	97	70 - 130	100	70 - 130	97	%		
9843263	D4-1,2-Dichloroethane	2024/12/24	107	70 - 130	96	70 - 130	96	%		
9843263	D8-Toluene	2024/12/24	98	70 - 130	105	70 - 130	99	%		
9842285	F2 (C10-C16 Hydrocarbons)	2024/12/22			102	60 - 140	<90	ug/L	1.9	30
9842285	F3 (C16-C34 Hydrocarbons)	2024/12/22			106	60 - 140	<200	ug/L	2.5	30
9842285	F4 (C34-C50 Hydrocarbons)	2024/12/22			97	60 - 140	<200	ug/L	3.0	30
9842294	1-Methylnaphthalene	2024/12/21			87	50 - 130	<0.050	ug/L	2.6	30
9842294	2-Methylnaphthalene	2024/12/21			85	50 - 130	<0.050	ug/L	2.6	30
9842294	Acenaphthene	2024/12/21			90	50 - 130	<0.050	ug/L	3.3	30
9842294	Acenaphthylene	2024/12/21			92	50 - 130	<0.050	ug/L	4.8	30
9842294	Anthracene	2024/12/21			91	50 - 130	<0.050	ug/L	5.2	30
9842294	Benzo(a)anthracene	2024/12/21			95	50 - 130	<0.050	ug/L	5.8	30
9842294	Benzo(a)pyrene	2024/12/21			97	50 - 130	<0.0090	ug/L	4.1	30
9842294	Benzo(b/j)fluoranthene	2024/12/21			94	50 - 130	<0.050	ug/L	3.8	30
9842294	Benzo(g,h,i)perylene	2024/12/21			108	50 - 130	<0.050	ug/L	6.0	30
9842294	Benzo(k)fluoranthene	2024/12/21			93	50 - 130	<0.050	ug/L	2.4	30
9842294	Chrysene	2024/12/21			91	50 - 130	<0.050	ug/L	5.1	30
9842294	Dibenzo(a,h)anthracene	2024/12/21			98	50 - 130	<0.050	ug/L	6.3	30
9842294	Fluoranthene	2024/12/21			93	50 - 130	<0.050	ug/L	7.3	30
9842294	Fluorene	2024/12/21			94	50 - 130	<0.050	ug/L	2.9	30
9842294	Indeno(1,2,3-cd)pyrene	2024/12/21			111	50 - 130	<0.050	ug/L	5.9	30
9842294	Naphthalene	2024/12/21			81	50 - 130	<0.050	ug/L	2.9	30
9842294	Phenanthrene	2024/12/21			91	50 - 130	<0.030	ug/L	4.9	30
9842294	Pyrene	2024/12/21			90	50 - 130	<0.050	ug/L	11	30
9842715	Dissolved Chloride (Cl-)	2024/12/27	NC	80 - 120	100	80 - 120	<1.0	mg/L	0.11	20
9843227	Chromium (VI)	2024/12/23	103	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
9843263	1,1,1,2-Tetrachloroethane	2024/12/24	102	70 - 130	105	70 - 130	<0.50	ug/L	NC	30



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Bureau Veritas Job #: C4BM121

Report Date: 2024/12/30

### QUALITY ASSURANCE REPORT(CONT'D)

DS Consultants Limited

Client Project #: 24-371-600

Site Location: CHINGUACOUSY, CALEDON

Sampler Initials: IB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9843263	1,1,1-Trichloroethane	2024/12/24	89	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
9843263	1,1,2,2-Tetrachloroethane	2024/12/24	100	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
9843263	1,1,2-Trichloroethane	2024/12/24	103	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
9843263	1,1-Dichloroethane	2024/12/24	98	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
9843263	1,1-Dichloroethylene	2024/12/24	97	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
9843263	1,2-Dichlorobenzene	2024/12/24	95	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
9843263	1,2-Dichloroethane	2024/12/24	108	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
9843263	1,2-Dichloropropane	2024/12/24	107	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
9843263	1,3-Dichlorobenzene	2024/12/24	93	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
9843263	1,4-Dichlorobenzene	2024/12/24	94	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
9843263	Acetone (2-Propanone)	2024/12/24	116	60 - 140	98	60 - 140	<10	ug/L	NC	30
9843263	Benzene	2024/12/24	104	70 - 130	103	70 - 130	<0.17	ug/L	NC	30
9843263	Bromodichloromethane	2024/12/24	101	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
9843263	Bromoform	2024/12/24	101	70 - 130	97	70 - 130	<1.0	ug/L	NC	30
9843263	Bromomethane	2024/12/24	98	60 - 140	95	60 - 140	<0.50	ug/L	NC	30
9843263	Carbon Tetrachloride	2024/12/24	94	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
9843263	Chlorobenzene	2024/12/24	89	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
9843263	Chloroform	2024/12/24	98	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
9843263	cis-1,2-Dichloroethylene	2024/12/24	104	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
9843263	cis-1,3-Dichloropropene	2024/12/24	102	70 - 130	97	70 - 130	<0.30	ug/L	NC	30
9843263	Dibromochloromethane	2024/12/24	102	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
9843263	Dichlorodifluoromethane (FREON 12)	2024/12/24	123	60 - 140	126	60 - 140	<1.0	ug/L	NC	30
9843263	Ethylbenzene	2024/12/24	92	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
9843263	Ethylene Dibromide	2024/12/24	103	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
9843263	F1 (C6-C10) - BTEX	2024/12/24					<25	ug/L	NC	30
9843263	F1 (C6-C10)	2024/12/24	83	60 - 140	88	60 - 140	<25	ug/L	NC	30
9843263	Hexane	2024/12/24	108	70 - 130	110	70 - 130	<1.0	ug/L	NC	30
9843263	Methyl Ethyl Ketone (2-Butanone)	2024/12/24	124	60 - 140	105	60 - 140	<10	ug/L	NC	30
9843263	Methyl Isobutyl Ketone	2024/12/24	114	70 - 130	99	70 - 130	<5.0	ug/L	NC	30
9843263	Methyl t-butyl ether (MTBE)	2024/12/24	105	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
9843263	Methylene Chloride(Dichloromethane)	2024/12/24	112	70 - 130	105	70 - 130	<2.0	ug/L	NC	30



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VERITAS

Bureau Veritas Job #: C4BM121

Report Date: 2024/12/30

### QUALITY ASSURANCE REPORT(CONT'D)

DS Consultants Limited

Client Project #: 24-371-600

Site Location: CHINGUACOUSY, CALEDON

Sampler Initials: IB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9843263	o-Xylene	2024/12/24	98	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9843263	p+m-Xylene	2024/12/24	91	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
9843263	Styrene	2024/12/24	94	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
9843263	Tetrachloroethylene	2024/12/24	84	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
9843263	Toluene	2024/12/24	95	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
9843263	Total Xylenes	2024/12/24					<0.20	ug/L	NC	30
9843263	trans-1,2-Dichloroethylene	2024/12/24	99	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
9843263	trans-1,3-Dichloropropene	2024/12/24	108	70 - 130	107	70 - 130	<0.40	ug/L	NC	30
9843263	Trichloroethylene	2024/12/24	94	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
9843263	Trichlorofluoromethane (FREON 11)	2024/12/24	87	70 - 130	90	70 - 130	<0.50	ug/L	NC	30
9843263	Vinyl Chloride	2024/12/24	106	70 - 130	108	70 - 130	<0.20	ug/L	NC	30
9843704	Mercury (Hg)	2024/12/27	88	75 - 125	103	80 - 120	<0.10	ug/L	NC	20
9844553	Dissolved Antimony (Sb)	2024/12/30	103	80 - 120	99	80 - 120	<0.50	ug/L	1.0	20
9844553	Dissolved Arsenic (As)	2024/12/30	NC	80 - 120	99	80 - 120	<1.0	ug/L	2.3	20
9844553	Dissolved Barium (Ba)	2024/12/30	97	80 - 120	98	80 - 120	<2.0	ug/L	2.5	20
9844553	Dissolved Beryllium (Be)	2024/12/30	100	80 - 120	106	80 - 120	<0.40	ug/L	NC	20
9844553	Dissolved Boron (B)	2024/12/30	NC	80 - 120	99	80 - 120	<10	ug/L	5.9	20
9844553	Dissolved Cadmium (Cd)	2024/12/30	99	80 - 120	97	80 - 120	<0.090	ug/L	NC	20
9844553	Dissolved Chromium (Cr)	2024/12/30	102	80 - 120	100	80 - 120	<5.0	ug/L	NC	20
9844553	Dissolved Cobalt (Co)	2024/12/30	100	80 - 120	99	80 - 120	<0.50	ug/L	2.4	20
9844553	Dissolved Copper (Cu)	2024/12/30	99	80 - 120	100	80 - 120	<0.90	ug/L	1.9	20
9844553	Dissolved Lead (Pb)	2024/12/30	95	80 - 120	94	80 - 120	<0.50	ug/L	NC	20
9844553	Dissolved Molybdenum (Mo)	2024/12/30	NC	80 - 120	100	80 - 120	<0.50	ug/L	2.4	20
9844553	Dissolved Nickel (Ni)	2024/12/30	94	80 - 120	95	80 - 120	<1.0	ug/L	0.27	20
9844553	Dissolved Selenium (Se)	2024/12/30	99	80 - 120	97	80 - 120	<2.0	ug/L	NC	20
9844553	Dissolved Silver (Ag)	2024/12/30	81	80 - 120	96	80 - 120	<0.090	ug/L	NC	20
9844553	Dissolved Sodium (Na)	2024/12/30	NC	80 - 120	100	80 - 120	<100	ug/L	0.97	20
9844553	Dissolved Thallium (Tl)	2024/12/30	98	80 - 120	99	80 - 120	<0.050	ug/L	2.9	20
9844553	Dissolved Uranium (U)	2024/12/30	NC	80 - 120	99	80 - 120	<0.10	ug/L	3.2	20
9844553	Dissolved Vanadium (V)	2024/12/30	100	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
9844553	Dissolved Zinc (Zn)	2024/12/30	95	80 - 120	98	80 - 120	<5.0	ug/L	0.75	20



BUREAU  
VERITAS

Bureau Veritas Job #: C4BM121

Report Date: 2024/12/30

### QUALITY ASSURANCE REPORT(CONT'D)

DS Consultants Limited

Client Project #: 24-371-600

Site Location: CHINGUACOUSY, CALEDON

Sampler Initials: IB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9845500	WAD Cyanide (Free)	2024/12/24	101	80 - 120	100	80 - 120	<1	ug/L	NC	20
<p>Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.</p> <p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>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.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.</p> <p>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)</p> <p>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 <math>\leq 2x</math> RDL).</p>										





BUREAU  
VERITAS

Bureau Veritas Job #: C4BM121  
Report Date: 2024/12/30

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: CHINGUACOUSY, CALEDON  
Sampler Initials: IB

### 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

---

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.



CHAIN OF CUSTODY RECORD  
ENV COC - 00014v6

<b>Invoice Information</b>		<b>Report Information (if differs from invoice)</b>				<b>Project Information</b>					
Company :	DS	Company:		DS		Quotation #:					
Contact Name:	Accounting	Contact Name:		Megyn Bender		P.O. #/ AFE#:					
Street Address:		Street Address:		Cambridge		Project #:		24-371-600			
City:	ON	City:		Cambridge		Site #:					
Phone:		Phone:		Cambridge		Site Location:		Ching Jacobs J. Caledon			
Email:		Email:		mbender@jcs.com   Hakra		Site Location Province:		ON			
Copies:		Copies:		1 box PCS "		Sampled By:					



NONT-2024-12-3905

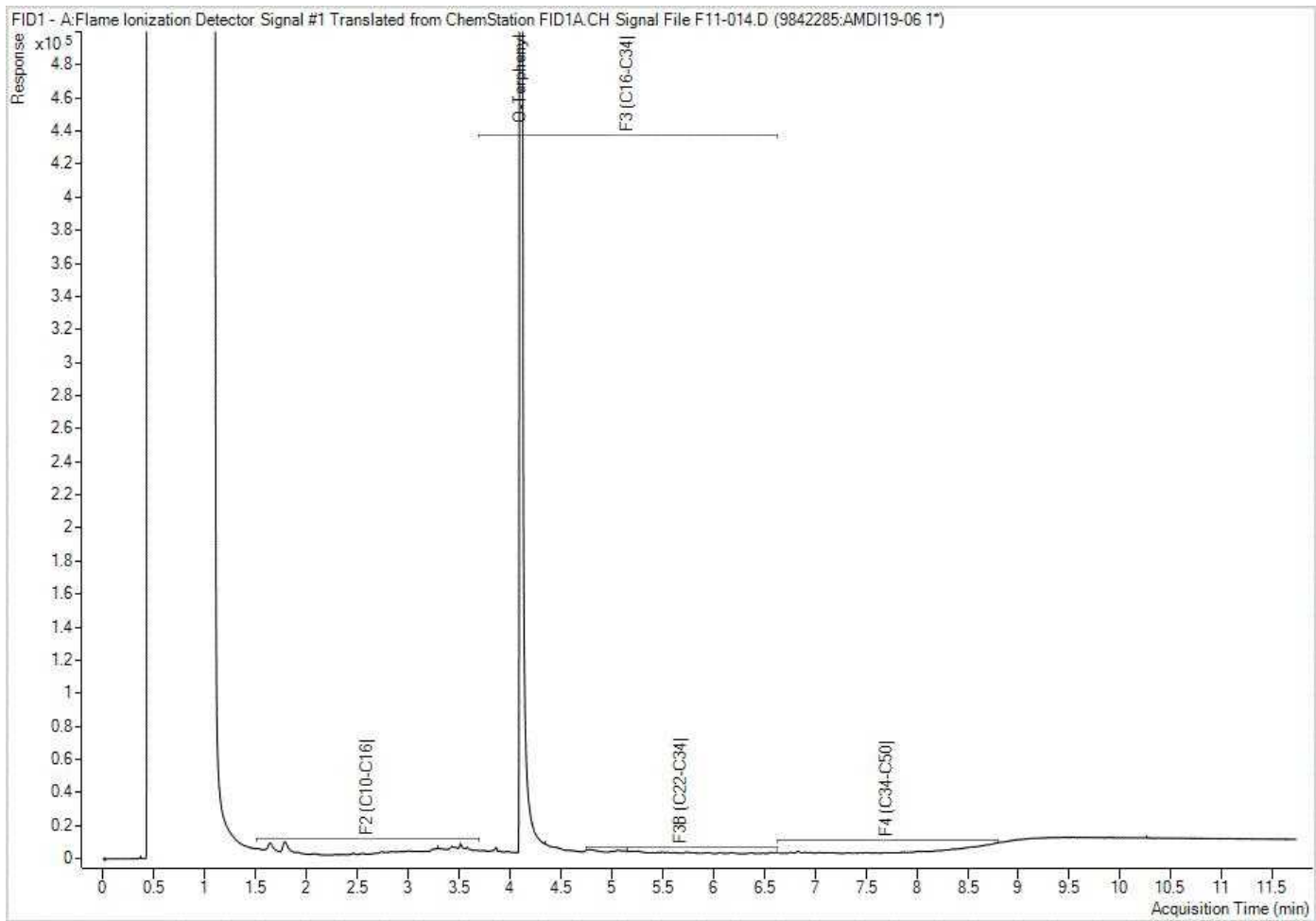
<b>REG 155</b> <input type="checkbox"/> Table 1 <input checked="" type="checkbox"/> Table 2 (Res/Park/Ind/Comm) <input type="checkbox"/> Table 3 <input type="checkbox"/> Table <input type="checkbox"/> Agri/other <input type="checkbox"/> Med/Fine <input type="checkbox"/> Coarse <input type="checkbox"/> For RSC <b>OTHER:</b> <input type="checkbox"/> CCME <input type="checkbox"/> Reg 406, Table: <input type="checkbox"/> Reg 558* <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> *min 3 day TAT <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA <input type="checkbox"/> Municipality <input type="checkbox"/> PWQO <input type="checkbox"/> Other:							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Regular Turnaround Time (TAT) <input checked="" type="checkbox"/> 5 to 7 Day <input type="checkbox"/> 10 Day Rush Turnaround Time (TAT) Surcharges apply <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day Date Required: YYYY MM DD Comments
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS							FIELD FILTERED	FIELD PRESERVED	LAB FILTRATION REQUIRED	BTEX/F1	PZ - F4	VOCs	Reg.155 metals and inorganics	Reg.155 (CPMS) metals	Reg.155 metals (Hg, Cr-VI, ICPCMS, metals, HWS-BI)													# OF CONTAINERS SUBMITTED HOLD - DO NOT ANALYZE	
<b>Sample Identification</b> (Please print or Type)		<b>Date Sampled</b>			<b>Time (24hr)</b>		<b>Matrix</b>																						
		YYYY	MM	DD	HH	MM																							
1	BH24-2	24	12	18	PM	00			X	X	X																*New Gold Filtered		
2	Trip Blank																										*Metals have NO preserve due to label dr GW		

\*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

<b>LAB USE ONLY</b> Seal present <input checked="" type="checkbox"/> Seal intact <input checked="" type="checkbox"/> Cooling media present <input checked="" type="checkbox"/>			Yes No 7 57 °C 1 2 3			<b>LAB USE ONLY</b> Seal present <input checked="" type="checkbox"/> Seal intact <input checked="" type="checkbox"/> Cooling media present <input checked="" type="checkbox"/>			Yes No °C 1 2 3			<b>LAB USE ONLY</b> Seal present <input checked="" type="checkbox"/> Seal intact <input checked="" type="checkbox"/> Cooling media present <input checked="" type="checkbox"/>			Yes No °C 1 2 3			Temperature reading by:		
---	--	--	----------------------------	--	--	---	--	--	--------------------	--	--	---	--	--	--------------------	--	--	-------------------------	--	--

Relinquished by: (Signature/ Print)		Date			Time		Received by: (Signature/ Print)		Date			Time		Special instructions		
[Signature]		24	12	18	PM		[Signature]		24	12	18	PM				

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.



BUREAU  
VERITAS

Bureau Veritas Job #: C4BM121  
Report Date: 2024/12/30

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: CHINGUACOUSY, CALEDON  
Sampler Initials: IB

**Exceedance Summary Table – Reg153/04 T2-GW-F/M**  
**Result Exceedances**

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
BH24-2	AMDI19-01	Dissolved Cobalt (Co)	3.8	16	0.50	ug/L
The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your Project #: 24-371-600  
 Site Location: 12192 CHINGUACOUSY ROAD  
 Your C.O.C. #: N/A

**Attention: Megan Bender**

DS Consultants Limited  
 6221 Highway 7, Unit 16  
 Vaughan, ON  
 CANADA L4H 0K8

**Report Date: 2025/01/17**  
 Report #: R8471899  
 Version: 2 - Revision

**CERTIFICATE OF ANALYSIS – REVISED REPORT**

**BUREAU VERITAS JOB #: C502988**

**Received: 2025/01/10, 16:26**

Sample Matrix: Water  
 # Samples Received: 1

<b>Analyses</b>	<b>Quantity</b>	<b>Date Extracted</b>	<b>Date Analyzed</b>	<b>Laboratory Method</b>	<b>Analytical Method</b>
Dissolved Metals by ICPMS	1	N/A	2025/01/14	CAM SOP-00447	EPA 6020B 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, EPA, APHA or the Quebec Ministry of Environment.

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 #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD  
Your C.O.C. #: N/A

**Attention: Megan Bender**

DS Consultants Limited  
6221 Highway 7, Unit 16  
Vaughan, ON  
CANADA L4H 0K8

**Report Date: 2025/01/17**  
Report #: R8471899  
Version: 2 - Revision

**CERTIFICATE OF ANALYSIS – REVISED REPORT**

**BUREAU VERITAS JOB #: C502988**

**Received: 2025/01/10, 16:26**

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:  
Ashton Gibson, Project Manager  
Email: ashton.gibson@bureauveritas.com  
Phone# (416)998-5786

=====

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.



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

Bureau Veritas ID			ANCP63			
Sampling Date			2025/01/10			
COC Number			N/A			
	UNITS	Criteria	MW24-2	RDL	MDL	QC Batch
<b>Metals</b>						
Dissolved Antimony (Sb)	ug/L	6.0	0.56	0.50	0.20	9858606
Dissolved Arsenic (As)	ug/L	25	<1.0	1.0	0.10	9858606
Dissolved Barium (Ba)	ug/L	1000	22	2.0	0.30	9858606
Dissolved Beryllium (Be)	ug/L	4.0	<0.40	0.40	0.050	9858606
Dissolved Boron (B)	ug/L	5000	300	10	0.60	9858606
Dissolved Cadmium (Cd)	ug/L	2.7	0.45	0.090	0.090	9858606
Dissolved Chromium (Cr)	ug/L	50	<5.0	5.0	0.70	9858606
Dissolved Cobalt (Co)	ug/L	3.8	<b>38</b>	0.50	0.040	9858606
Dissolved Copper (Cu)	ug/L	87	2.3	0.90	0.30	9858606
Dissolved Lead (Pb)	ug/L	10	<0.50	0.50	0.050	9858606
Dissolved Molybdenum (Mo)	ug/L	70	5.0	0.50	0.070	9858606
Dissolved Nickel (Ni)	ug/L	100	45	1.0	0.40	9858606
Dissolved Selenium (Se)	ug/L	10	2.5	2.0	0.20	9858606
Dissolved Silver (Ag)	ug/L	1.5	<0.090	0.090	0.020	9858606
Dissolved Sodium (Na)	ug/L	490000	140000	100	20	9858606
Dissolved Thallium (Tl)	ug/L	2.0	<0.050	0.050	0.020	9858606
Dissolved Uranium (U)	ug/L	20	11	0.10	0.010	9858606
Dissolved Vanadium (V)	ug/L	6.2	<0.50	0.50	0.090	9858606
Dissolved Zinc (Zn)	ug/L	1100	27	5.0	1.0	9858606
No Fill	No Exceedance					
Grey	Exceeds 1 criteria policy/level					
Black	Exceeds both criteria/levels					
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)						
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition						
Potable Ground Water- All Types of Property Uses - Coarse Textured Soil						



BUREAU  
VERITAS

Bureau Veritas Job #: C502988  
Report Date: 2025/01/17

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD  
Sampler Initials: AS

### TEST SUMMARY

**Bureau Veritas ID:** ANCP63  
**Sample ID:** MW24-2  
**Matrix:** Water

**Collected:** 2025/01/10  
**Shipped:**  
**Received:** 2025/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	9858606	N/A	2025/01/14	Indira HarryPaul





### GENERAL COMMENTS

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

Package 1	1.9°C
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Revised Report[1/17/2025]: Table 2 criteria added to C of A

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



BUREAU  
VERITAS

Bureau Veritas Job #: C502988

Report Date: 2025/01/17

### QUALITY ASSURANCE REPORT

DS Consultants Limited

Client Project #: 24-371-600

Site Location: 12192 CHINGUACOUSY ROAD

Sampler Initials: AS

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9858606	Dissolved Antimony (Sb)	2025/01/14	105	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
9858606	Dissolved Arsenic (As)	2025/01/14	94	80 - 120	96	80 - 120	<1.0	ug/L	NC	20
9858606	Dissolved Barium (Ba)	2025/01/14	99	80 - 120	98	80 - 120	<2.0	ug/L	2.1	20
9858606	Dissolved Beryllium (Be)	2025/01/14	83	80 - 120	89	80 - 120	<0.40	ug/L	NC	20
9858606	Dissolved Boron (B)	2025/01/14	85	80 - 120	88	80 - 120	<10	ug/L	1.6	20
9858606	Dissolved Cadmium (Cd)	2025/01/14	91	80 - 120	96	80 - 120	<0.090	ug/L	NC	20
9858606	Dissolved Chromium (Cr)	2025/01/14	93	80 - 120	94	80 - 120	<5.0	ug/L	NC	20
9858606	Dissolved Cobalt (Co)	2025/01/14	90	80 - 120	94	80 - 120	<0.50	ug/L	0.30	20
9858606	Dissolved Copper (Cu)	2025/01/14	93	80 - 120	94	80 - 120	<0.90	ug/L	7.2	20
9858606	Dissolved Lead (Pb)	2025/01/14	77 (1)	80 - 120	90	80 - 120	<0.50	ug/L	NC	20
9858606	Dissolved Molybdenum (Mo)	2025/01/14	101	80 - 120	95	80 - 120	<0.50	ug/L	2.8	20
9858606	Dissolved Nickel (Ni)	2025/01/14	85	80 - 120	93	80 - 120	<1.0	ug/L	6.1	20
9858606	Dissolved Selenium (Se)	2025/01/14	89	80 - 120	95	80 - 120	<2.0	ug/L	NC	20
9858606	Dissolved Silver (Ag)	2025/01/14	74 (1)	80 - 120	91	80 - 120	<0.090	ug/L	NC	20
9858606	Dissolved Sodium (Na)	2025/01/14	NC	80 - 120	95	80 - 120	<100	ug/L	3.0	20
9858606	Dissolved Thallium (Tl)	2025/01/14	79 (1)	80 - 120	92	80 - 120	<0.050	ug/L	NC	20
9858606	Dissolved Uranium (U)	2025/01/14	88	80 - 120	93	80 - 120	<0.10	ug/L	0.80	20
9858606	Dissolved Vanadium (V)	2025/01/14	102	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
9858606	Dissolved Zinc (Zn)	2025/01/14	80	80 - 120	94	80 - 120	<5.0	ug/L	5.2	20

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.

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 <= 2x RDL).

(1) Matrix Spike exceeds acceptance limits, probable matrix interference



BUREAU  
VERITAS

Bureau Veritas Job #: C502988  
Report Date: 2025/01/17

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD  
Sampler Initials: AS

### VALIDATION SIGNATURE PAGE

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

Louise Harding, Scientific Specialist

---

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C502988  
2025/01/10 16:26



6740 Campobello Road, Mississauga, Ontario L5N 2L8  
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266

CHAIN OF CUSTODY RECORD

ENV COC - 00014v5

Page 1 of 1



NONT-2025-01-1378

Invoice Information		Report Information (if differs from invoice)				Project Information			
Company: DS Consultants Ltd.		Company: DS Consultants Ltd.				Quotation #:			
Contact Name: Accounts Payable		Contact Name:				P.O. #/ AFE#:			
Street Address: 6221 Hwy Unit 16		Street Address: 125 McGovern Drive, Unit 3-4				Project #: 24-371-600			
City: Vaughan	Prov: ON	Postal Code: L4H 0K8	City: Cambridge	Prov: ON	Postal Code: N3H4R7	Site #:			
Phone: 905-264-9393		Phone: 519-588-9513				Site Location: 12192 Chinguacousy Road			
Email: Accounts Payable		Email: mbender@dsconsultants.ca				Site Location Province: ON			
Copies: asharif@dsconsultants.ca		Copies: asharif@dsconsultants.ca				Sampled By: Aisha Sharif			

Regulatory Criteria										Regular Turnaround Time (TAT)																																			
<input type="checkbox"/> Table 1 <input checked="" type="checkbox"/> Res/Park <input type="checkbox"/> Med/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/other <input type="checkbox"/> For RSC <input type="checkbox"/> Table _____										<input type="checkbox"/> CCME <input type="checkbox"/> Reg 406, Table: <input type="checkbox"/> Reg 558* <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> *min 3 day TAT <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA <input type="checkbox"/> Municipality <input type="checkbox"/> PWQO <input type="checkbox"/> Other:		<input checked="" type="checkbox"/> 5 to 7 Day <input type="checkbox"/> 10 Day Rush Turnaround Time (TAT) Surcharges apply <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day																																	
Include Criteria on Certificate of Analysis (check if yes): <input checked="" type="checkbox"/>										# OF CONTAINERS SUBMITTED HOLD - DO NOT ANALYZE																																			
Sample Identification (Please print or Type)			Date Sampled			Time (24hr)		Matrix	FIELD FILTERED	FIELD PRESERVED	LAB FILTRATION REQUIRED	BTEX/F1	F2 - F4	VOCs	Reg.153 metals and inorganics	Reg.153 ICPMS metals	Reg.153 metals (Hg, Cr, V), ICPMS metals, HWS - B)	PAH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22					
1 MW24-2			2024 01 10					Water - Ground	X	X																																			
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\*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

LAB USE ONLY		Yes		No		LAB USE ONLY		Yes		No		LAB USE ONLY		Yes		No		Temperature reading by:		
Seal present						Seal present						Seal present								
Seal intact						Seal intact						Seal intact								
Cooling media present						Cooling media present						Cooling media present								
Relinquished by: (Signature/ Print)		Date		Time		Received by: (Signature/ Print)		Date		Time		Special Instructions								
1 Aisha Sharif		2024 01 10		04 25		1 [Signature]		2025 01 10		16 26										
2						2														



**BUREAU  
VERITAS**

Bureau Veritas Job #: C502988  
Report Date: 2025/01/17

DS Consultants Limited  
Client Project #: 24-371-600  
Site Location: 12192 CHINGUACOUSY ROAD  
Sampler Initials: AS

**Exceedance Summary Table – Reg153/04 T2-GW-C  
Result Exceedances**

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
MW24-2	ANCP63-01	Dissolved Cobalt (Co)	3.8	38	0.50	ug/L
The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						