



BURNSIDE

**Phase Two Environmental Site Assessment
6119 Trafalgar Road
Milton, Ontario**

White Squadron Development Corporation

**R.J. Burnside & Associates Limited
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**June 18, 2025
300043649.1000**



Phase Two Environmental Site Assessment
June 18, 2025

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Record of Revisions

Revision	Date	Description
--	June 18, 2025	Updated Phase Two ESA report

R.J. Burnside & Associates Limited

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June 18, 2025

Executive Summary

R.J. Burnside & Associates Limited (Burnside) was retained by White Squadron Development Corporation to conduct a Phase Two Environmental Site Assessment (ESA) of a property located at 6119 Trafalgar Road, Milton, Ontario (the "Site").

The Phase Two ESA was completed in accordance with Ontario Regulation 153/04 and the Canadian Standards Association (CSA) Standard Z769-00. The purpose of the Phase Two ESA is to support an application to develop the Site for Residential Use.

When describing direction in this report:

- Trafalgar Road is considered to be aligned north-south, situated west of the Site, and
- Britannia Road is aligned west-east, situated south of the Site.

The Site is located on the east side of Trafalgar Road, north of Britannia Road. The legal description of the Site is: Part Lot 6 Concession 8 Trafalgar New Survey being Part 1 Plan 20R20642 save and except Part 5 Plan 20R20955; subject to an easement in gross as in HR1447450; Town of Milton.

The area of the Site is 39.1 hectares (96.6 acres). There are no buildings on the Site. The Site has been used for farming (Agricultural or Other Use) from 1854 to the present. A farmhouse and farm buildings that were on the Site were all removed by June 2019.

A Phase Two ESA was conducted by Burnside in 2019 to assess soil and groundwater quality in four Areas of Potential Environmental Concern (APECs) identified at the Site. Soil and groundwater samples were collected from the APECs in 2019 and submitted for laboratory analysis of contaminants of potential concern.

In May 2025, additional soil samples were collected from the APECs and submitted for laboratory analysis of contaminants of potential concern.

This updated Phase Two ESA report evaluates the 2019 soil and groundwater sampling results, and the results for soil samples collected from the APECs at the Site in 2025.

Soil and groundwater results were compared to the applicable MECP standards for Residential Use listed in Table 8 Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition (MECP Table 8 SCS).

Analytical results for the parameters tested in soil and groundwater samples collected from the Site are within the applicable MECP standards for Residential Use. Analytical results indicate soil and groundwater quality are suitable for Residential Use.

Based on the work conducted to date the Site conditions are suitable for development of the Site for Residential Use.

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- Appendix B Sampling and Analysis Plan
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- Appendix E Grain Size Analysis and Particle Distribution Report
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1.0 Introduction

R.J. Burnside & Associates Limited (Burnside) was retained by White Squadron Development Corporation to complete a Phase Two Environmental Site Assessment (ESA) of the property located at 6119 Trafalgar Road, Milton, Ontario (the “Site”).

The purpose of the Phase Two ESA is to support an application to develop the Site for Residential Use.

1.1 Site Description

The Site is on the east side of Trafalgar Road, north of Britannia Road. The area of the Site is 39.1 hectares (96.6 acres). There are no buildings on the Site. Most of the Site is used for farming (Agricultural or Other Use).

Figure 1 shows the Site Location. Figure 2 shows the Site boundary.

The Property Identification Number (PIN) and other property details are listed in Table 1.

Table 1: Property Information for 6119 Trafalgar Road, Milton

PIN	24938-0165 (LT)
Municipal Address	6119 Trafalgar Road, Milton, Ontario
Legal Description	PART LOT 6 CONCESSION 8 TRAFALGAR NEW SURVEY BEING PART 1 PLAN 20R20642 SAVE AND EXCEPT PART 5 PLAN 20R20955; SUBJECT TO AN EASEMENT IN GROSS AS IN HR1447450; TOWN OF MILTON
Owner	White Squadron Development Corporation
Assessment Roll Number	240909009008800
Area	39.1 hectares (96.6 acres)

Land registry records (parcel register, parcel map, land transfer documents) are provided in Appendix A.

1.1.1 Plan of Survey

A Plan of Survey of the Site was prepared in May 2021 by R-PE Surveying Ltd. The Site boundary is shown as a red line on the Plan of Survey provided in Appendix A.

1.2 Property Ownership

The registered owner (Owner) of the Site is White Squadron Development Corporation.

- Owner's Address - 66 Wellington Street West, Suite 5500, Toronto, ON M5K 1G8

The beneficial owner of the Site is GF Partnership.

1.3 Current and Proposed Future Uses

The Site is agricultural land used for farming. There are no buildings on the Site.

- The current property use is Agricultural or Other Use.

The Owner is preparing an application to develop the Site for residential use.

- The proposed future use is Residential Use.

1.4 Applicable Site Condition Standards

The applicable site condition standards for the Site were determined based on the physical setting, Site characteristics, soil texture, potential redevelopment plans, and the proposed future use of the Site (Residential Use).

The applicable site condition standards to evaluate soil and groundwater at the Site are the criteria for Residential Use listed in Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Ground Water Condition. The values listed in Table 8 apply to fine-textured soil conditions and coarse-textured soil conditions.

Considerations and rationale for selecting the applicable site condition standards for the Site are described in the following sections.

1.4.1 Soil Texture

Two soil samples collected from the Site were submitted for grain size analysis to determine particle size distribution. Four soil samples collected from the Site were submitted for sieve analysis to characterize soil texture as either fine or coarse. The analytical results indicate soil texture at the Site is fine-textured.

The values listed in Table 8 apply to fine-textured soil conditions and coarse-textured soil conditions.

1.4.2 Soil pH

Five soil samples were collected from the Site and submitted for pH analysis. The analytical results indicate that the pH of surface soil (depth less than 1.5 m bgs) ranges from 6.95 to 7.79. Analytical results indicate that pH of sub-surface soil (depth of greater than 1.5 m bgs) ranges from 7.87 to 8.07. The soil pH values are within the acceptable ranges for surface soils (5.00 to 9.00) and sub-surface soils (5.00 to 11.00).

1.4.3 Section 35 Considerations

Section 35 of the regulation does not apply. Site condition standards for potable ground water would be appropriate for the Site. There are no wells on the Site that are used for human consumption, however, properties in the Study Area obtain water from private water supply wells. Source Water Protection information indicates the Site is not within a Wellhead Protection Area.

1.4.4 Section 41 Considerations

Section 41 of the regulation does not apply.

- pH values for surface soil are within range pH 5 to 9.
- pH values for subsurface soil are within range pH 5 to 11.
- There are no areas of natural significance on the Site or within 30 m of the Site.
- The Site is not an environmentally sensitive area.

1.4.5 Section 43.1 Considerations

Section 43.1 of the regulation applies as East Sixteen Mile Creek flows through the Site.

The Site is not a shallow soil property. Well records indicate depth to bedrock beneath the Site is approximately 10 m bgs.

1.4.6 Excess Soil

There are no areas on, in or under the Site where excess soil has been finally placed.

2.0 Background Information

2.1 Physical Setting

The Site is located within the Peel Plain physiographic region (Chapman and Putnam, 1984) characterized by a layer of silt and clay, overlying clay till. The topography of the Peel Plain is flat to gently rolling, gradually sloping down toward Lake Ontario.

The Site topography gently slopes from an elevation of 188 m above sea level (asl) in the northeast area of the Site down to 180 asl in the southwest area of the Site. Surface drainage is interpreted to flow toward the southwest area of the Site. Figure 4 illustrates the local topography.

East Sixteen Mile Creek flows through the northwest part of the Site, flows under the bridge to the west side of Trafalgar Road, and flows southwest into Sixteen Mile Creek. The inferred direction of groundwater flow at the Site is toward the southwest.

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The Site is within the Sixteen Mile Creek Watershed which drains southeastward into Lake Ontario. The inferred direction of regional groundwater flow is southeast, flowing toward Lake Ontario.

Ontario Geological Survey maps were reviewed to determine surficial and bedrock geology of the Site. Surficial geology across most of the Site consists of silt and clay glaciolacustrine deposits. Clay to silt-textured till and alluvial deposits (clay, silt, sand, and gravel) extend along the west part of the Site (see Figure 5).

Bedrock beneath the Study Area is shale, limestone, dolostone, and siltstone of the Queenston Formation (see Figure 6). Local well records indicate depth to bedrock (Queenston shale) beneath the Site is approximately 10 m below ground surface (bgs).

2.2 Past Investigations

Burnside conducted a Phase Two ESA at the Site in 2019 to assess soil quality and groundwater quality at the Site. Samples were collected from four Areas of Potential Environmental Concern (APECs) and tested for contaminants of potential concern related to Potentially Contaminating Activities (PCAs) identified on the Site.

The 2019 Phase Two ESA is described in the following sections. Boreholes and groundwater monitoring wells installed in 2019 are shown on figures in this report.

3.0 Scope of the Investigation

The scope of work for the Phase Two ESA was completed in accordance with Ontario Regulation (O. Reg.) 153/04, as amended, and Canadian Standards Association (CSA) Standard Z769-00.

3.1 Overview of Site Investigation

The scope of work for the Phase Two ESA included the following steps:

- Completed utility locates through Ontario One Call and a private locate service;
- Advanced eight (8) boreholes to examine subsurface conditions at the Site;
- Installed three groundwater monitoring wells in three of the boreholes;
- Collected soil samples from the borehole soil cores for laboratory analysis of Petroleum Hydrocarbons (PHCs), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), Volatile Organic Compounds (VOCs), and Organochlorine Pesticides (OCs).
- Collected shallow soil samples for laboratory analysis of PHCs, BTEX, and VOCs.;
- Measured static groundwater levels to determine the direction of groundwater flow;
- Collected groundwater samples for laboratory analysis of PHCs, BTEX, and VOCs;
- Conducted an elevation survey of the boreholes and monitoring wells;
- Collected additional shallow soil samples in the APECs for analysis of PHCs, BTEX, and OCs;

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- Prepared this updated Phase Two ESA report.

The soil and groundwater samples were collected in accordance with O. Reg. 153/04 and submitted for laboratory analysis to Bureau Veritas Labs and AGAT Laboratories in Mississauga, Ontario.

3.2 Media Investigated

The investigation included the collection of soil samples and groundwater samples from the Site for laboratory analysis of contaminants of potential concern. The exemption in subsection 6 (2) of Schedule E was not relied upon.

3.3 Phase One Conceptual Site Model

Burnside prepared a Phase One ESA report in 2019, which was updated in 2025. The Phase One ESA Conceptual Site Model identified the locations of former buildings, adjacent property uses, PCAs, APECs, surface water flow direction, and the inferred direction of groundwater flow. Any uncertainty or absence of information could affect the validity of the Conceptual Site Model.

Based on the components of the Phase One ESA, the Conceptual Site Model is considered to be valid.

Figure 7 illustrates the locations of Potentially Contaminating Activities (PCAs) identified on the Site and four Areas of Potential Environmental Concern (APECs) related to the on-site PCAs.

3.4 Deviations from the Sampling and Analysis Plan

There were no deviations from the Sampling and Analysis Plan. The Sampling and Analysis Plan is provided in Appendix B.

3.5 Impediments

There were no access issues or other physical impediments encountered during the Phase Two ESA.

4.0 Investigation Method

4.1 General

The following provides a description of all investigative methods used over the course of the Phase Two ESA. All methods were performed in accordance with Burnside's Standard Operating Procedures under the direct supervision of a Qualified Person (QP) as defined in O. Reg. 153/04.

4.2 Drilling Program

The Phase Two ESA drilling program was conducted on July 10 and 11, 2019. Drilling contractor CMT Drilling Inc. used a Geoprobe model 7822DT direct push drill rig to drill eight boreholes to examine subsurface conditions at the Site and collect soil samples. Three of the boreholes were equipped with groundwater monitoring wells.

Boreholes were advanced to a maximum depth of 10.7 m (35 feet) bgs. **Table 2** lists the rationale for boreholes and monitoring wells.

Table 2: Rationale for Boreholes and Monitoring Wells

APEC	Borehole / Monitoring Well	Rationale
APEC-1	MW1-19	Assess soil and groundwater in the vicinity of the former above ground storage tanks.
APEC-2	MW2-19, BH4-19	Assess soil and groundwater in the vicinity of the former pole barn.
APEC-3	MW3-19	Assess soil and groundwater in the vicinity of the former farmhouse.
APEC-4	BH5-19, BH6-19, BH7-19, BH8-19	Assess soil in the cultivated agricultural field.

The locations of boreholes, monitoring wells are shown on Figure 8. Borehole logs are provided in Appendix C.

4.3 Soil Sampling

A Geoprobe drill rig was used to extract soil cores from eight (8) boreholes using the Macro-Core® MC5 sampling system. The MC5 system pushes a 1.5 m (5 ft.) long hollow steel tube through the soil to collect a 1.5 m (5 ft.) soil core inside a clear plastic liner.

Shallow soil samples were collected from each APEC by hand digging test pits to a depth of approximately 0.5 m (1.5 feet) bgs.

Table 3: Rationale for Test Pits

APEC	Test Pits	Rationale
APEC-1	SS-4, SS-5	Assess shallow soil quality in former location of former aboveground fuel storage tanks.
APEC-2	GS9-19, GS10-19, GS11-19, GS12-19, SS-6, SS-7	Assess shallow soil quality at former storage areas in former pole barn location
APEC-3	SS-8	Assess shallow soil quality at the former farmhouse, potential fuel oil tank location.
APEC-4	SS-1, SS-2, SS-3	Assess shallow soil quality in the cultivated agricultural field.

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Soil samples were collected from borehole soil cores and test pits and placed in laboratory-supplied containers for analysis of the following parameters:

- Petroleum Hydrocarbons (PHCs)
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX);
- Volatile Organic Compounds (VOCs);
- Organochlorine Pesticides (OCs);
- pH; and
- sieve analysis.

Soil sampling locations are shown on Figure 12.

4.4 Soil Field Screening Methods

Field screening was conducted by examining soil samples using visual and olfactory cues and noting any signs of staining, sheen or odours. In addition, measurements were taken using a MiniRae 2000 portable photoionization detector (PID).

The PID is a hand-held scientific device that can detect volatile organic compounds within a range of 0 to 15,000 ppm. The resolution of the instrument is 0.1 ppm, between 0 and 999 ppm, and 1 ppm, between 1,000 and 15,000 ppm. The instrument was delivered to Burnside with a factory calibration provided by the supplier Maxim Environmental of Mississauga, Ontario.

4.5 Groundwater Monitoring Well Installation

For the Phase Two ESA, three (3) groundwater monitoring wells were installed on the Site (MW1-19, MW2-19 and MW3-19) to measure static groundwater levels and facilitate the collection of groundwater samples. The monitoring wells were installed by a licenced well technician in accordance with Ontario Regulation 903 (O. Reg. 903). The locations of the three Phase Two ESA monitoring wells are shown on Figure 8.

Each monitoring well was constructed of new 3.8 cm (1.5 inch) or 5.1 cm (2 inch) diameter PVC pipe and installed to a depth to intercept the groundwater table. A plastic well screen was placed in each of the boreholes with plastic casing (risers) extending to ground surface. The space between the screen and the borehole wall (annulus) was backfilled with silica sand to approximately 0.6 m above the screen. A bentonite seal was then placed above the sand pack. Monument style steel protective casings were placed at the monitoring wells and cemented at the ground surface. Monitoring well construction details are provided in Table 5 and in the borehole logs in Appendix C.

It is the responsibility of the property owner to protect and maintain the monitoring wells in accordance with O. Reg. 903. When no longer required, the monitoring wells should be decommissioned by a licensed well technician in accordance with O. Reg. 903.

4.6 Groundwater Field Measurements of Water Quality

During the Phase Two ESA groundwater sampling program field measurements of temperature, pH, oxidation reduction potential (ORP), conductivity, turbidity, dissolved oxygen (DO), and total dissolved solids (TDS) were measured at each monitoring well.

4.7 Monitoring Well Development

Prior to commencing groundwater sampling, the monitoring wells were developed to ensure the sand pack was in good contact with the surrounding aquifer. Monitoring well development was accomplished by surging the well with an inertial foot valve purging system. A Waterra D-25 standard flow foot valve was screwed onto the bottom of new 1.5 cm diameter polyethylene tubing and installed in each monitoring well. The monitoring well was developed by purging at a minimum of three well casing volumes or until the monitoring well was pulled dry.

4.8 Groundwater Sampling

Groundwater samples were collected using low flow sampling methods. Prior to groundwater sampling, static groundwater levels were measured at each well.

The purge water generated during the pumping process was feed through a flow-through cell that was connected to a Horbia U-52 multi-parameter water quality meter. The Horbia U-52 instrument can record up to eleven simultaneous measurements of various water quality parameters such as pH, electrical conductivity, temperature, oxidation reduction potential, turbidity and dissolved oxygen. These parameters were measured on continuous bases (every 5 minutes) until the last three consecutive measurements reached the following stabilization criteria:

- pH – within 0.1 units
- Conductivity – within 3 %
- Temperature – within 3 %
- ORP – within 10 mV
- Turbidity – within 10 % or less than 10 NTU
- DO – within 10 %

Stabilization of the above measurements indicates that the purged groundwater represents aquifer conditions. Once stabilization was achieved, groundwater samples were collected in laboratory supplied containers which were pre-charged with the appropriate preservatives. Disposal nitrile gloves were used throughout the groundwater sampling process to prevent cross contamination.

Low Flow Stabilization Records are provided in Appendix D.

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4.9 Analytical Testing

Soil and groundwater samples were collected and submitted for laboratory analysis to Bureau Veritas Labs and AGAT Laboratories in Mississauga, Ontario.

Soil samples were submitted for laboratory analysis of:

- Petroleum Hydrocarbons;
- BTEX Compounds;
- Volatile Organic Compounds;
- Organochlorine Pesticides;
- pH; and
- Sieve analysis (to determine soil texture).

Groundwater samples were submitted for laboratory analysis of:

- Petroleum Hydrocarbons;
- BTEX Compounds; and
- Volatile Organic Compounds.

4.10 Elevation Surveying

Elevation surveying was conducted by Burnside field staff on July 31, 2019. A Spectra Precision LL330N laser level was used to accurately define the ground surface elevation at each borehole and monitoring well. A benchmark elevation of 187.3 m asl was taken from an existing monitoring well (MW12) located near the corner of Trafalgar Road and Britannia Road. The location of MW12 is illustrated on Figure 8. A series of elevations were taken throughout the Site to confirm the elevations and accuracy of the survey. The elevations of the monitoring wells and boreholes is summarized in Table 5.

4.11 Quality Assurance and Quality Control Measures

Soil and groundwater sampling were performed by Burnside staff with experience in intrusive field investigation techniques under the guidance of the Qualified Person (QP). Soil and groundwater samples were collected in accordance with standard operating practices which have been developed in accordance with Ontario Regulation 153/04, as amended.

- New disposable nitrile gloves were used collection of soil and groundwater samples.
- All non-dedicated equipment such as water level tapes were decontaminated after each use using potable water and Liquinox[®] soap followed by a potable water rinse;
- Samples were collected in laboratory supplied containers. Where applicable, preservatives were added to the containers by Bureau Veritas or AGAT.
- To minimize cross contamination during the sampling programs, new soil core sample collection tubes were used for each recovered soil core.

5.0 Review and Evaluation

5.1 Site Geology

The southwestern portion of the Site that has been historically developed contains a surficial layer of silty sand to sandy silt textured soil extending to varying depths of approximately 0.91 m bgs at MW3-19, 2.5 m bgs at MW1-19 and to 3 m bgs at MW2-19 and BH4-19. The layer was interpreted as disturbed or re-work native material. The soil was observed to be free of staining or odours, although a 0.1 m thick layer of darker coloured soil was observed in BH4-19 at a depth of approximately 1.5 m bgs. This was interpreted to organic materials (topsoil).

Underlying the re-worked native was a layer of silt to clayey silt textured soil interpreted to be glaciolacustrine deposited till. The soil appeared dark brown with red mottling transitioning to grey at greater depths. Trace amounts of pebbles and red shale fragments were observed throughout. The soil layer extended to the deepest investigated depth of 10.7 m bgs at MW2-19.

Boreholes were advanced in the agricultural field to depths of approximately 3.1 m bgs. Soils encountered in the agricultural fields were clay to silty clay in texture. The soil was observed to be brown to dark brown and contained trace organic material near surface. No staining or odours were noted in any of the boreholes in the agricultural fields.

Cross-sections of the Site stratigraphy are provided in Figure 9 and Figure 10.

Six soil samples were collected from the Site to determine soil texture.

- Two soil samples were submitted to CMT Engineering for grain size analysis and particle size distribution.
- Four soil samples were submitted to Bureau Veritas Labs (BV Labs) for sieve analysis to characterize soil texture as fine or coarse.

Two soil samples were submitted to CMT Engineering for grain size analysis results. The results listed in Table 4 indicate the texture of the soil is fine-textured.

Table 4: Grain Size Particle Distribution Summary

Sample Location	Depth (m bgs)	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
MW1-19	7.8 – 8.5	0.0	2.8	4.4	30.5	16.6	28.2	17.5
MW3-19	7.9 – 9.1	0.0	0.1	1.7	6.0	9.1	46.3	36.8

Sieve analysis results for four soil samples submitted to BV Labs are listed in Table 5. The sieve analysis results indicate the texture of the soil is fine-textured.

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Table 5: Sieve Analysis Soil Texture Results

Location	Depth (m bgs)	Results (Fine or Coarse)
MW1-19	2.5 – 3.0	Fine
MW2-19	2.3 – 2.8	Fine
MW3-19	2.0 – 2.5	Fine
BH4-19	2.5 – 3.0	Fine

Analytical results for soil and groundwater samples can be compared to fine-textured soil conditions criteria for Residential Use listed in MECP Table 8 SCS.

5.2 Groundwater Elevation and Flow Direction

A total of three monitoring wells were installed on the Site as part of the Phase Two ESA. Manual groundwater level measurements were collected from the monitoring wells on July 31, 2019. The water levels ranged from 3.25 m bgs at MW2-19 to 6.01 m bgs at MW3-19. Table 5 summarizes the water level measurements.

Based on the water level data, the shallow groundwater is interpreted to flow in a south to southwesterly direction towards East Sixteen Mile Creek. The shallow groundwater flow is illustrated on Figure 11.

5.3 Groundwater Hydraulic Gradients

Horizontal hydraulic gradients were calculated between each of the on-site monitoring using the following formula:

$$HG = \frac{(W_L a - W_L b)}{D}$$

Where: HG = horizontal gradient
 $W_L a$ = water level (m)
 $W_L b$ = water level (m)
 D = distance between monitoring wells (m)

The horizontal gradient within the shallow groundwater table is calculated at 0.03 m/m.

5.4 Hydraulic Conductivity

Hydraulic conductivity at the Site was estimated using Table 2 of the document “SG 6 Percolation Time and Soil Descriptions, Supplementary Guidelines to the Ontario Building Code“. The document provides an approximation of hydraulic conductivity based on a relationship to soil types.

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Soil samples were collected from the screened intervals of MW1-19 and MW3-19 and submitted to CMT Engineering for grain size analysis and particle distribution. The results are provided in Appendix E.

The grain size report indicates the sample collected from MW1-19 is described as silty sand, some clay and trace gravel. Under the Unified Soil Classification System (USCS) the soil from the screened interval at MW1-19 would be classified as a 'SM'. Under Table 2 of SG6, soil having a classification of 'SM' has an estimate hydraulic conductivity range of 1×10^{-3} to 1×10^{-5} cm/sec.

The results of the grain size report indicate the sample collected from the screened interval of MW3-19 is described as silt and clay, some sand, trace gravel having a USCS classification of 'ML'. Under Table 2 of SG6, soil having a classification of 'ML' has an estimated hydraulic conductivity range of 1×10^{-5} to 1×10^{-6} cm/sec.

By calculating the geometric mean of the above estimated hydraulic conductivity values, the estimated hydraulic conductivity at the Site is calculated to be 3.16×10^{-7} m/sec.

5.5 Groundwater Flow Velocity

Groundwater velocity was calculated using the following formula:

$$v = \frac{K * i}{n}$$

Where: v = velocity of groundwater
 K = hydraulic conductivity (cm/s)
 i = gradient (m/m)
 n = porosity (%)

Groundwater flow velocity is calculated to be 1.0 m/year based on a calculated horizontal gradient of 0.03 m/m, an estimated hydraulic conductivity of 3.2×10^{-7} m/sec and an assumed porosity of 30% (R. Allan Freeze and John A. Cherry, 1979).

5.6 Soil Field Screening

Field screening was conducted by examining soil samples for any evidence of environmental concerns using visual and olfactory cues and noting any signs of staining or sheen or unusual odours. In addition, measurements were taken using a portable photoionization detector (PID). Samples were selected for analysis on the basis of visual evidence of contamination, field screening results, from the vicinity of the apparent water table or, in the absence of any "targeting rationale", on the basis of at least one (1) sample per recovered soil core. The field screening program did not identify any environmental concerns in the soil samples and the concentrations of organic vapours were below the detection limits of the PID.

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5.7 Soil Quality

Soil samples were submitted for analysis of contaminants of potential concern, such as:

- Petroleum Hydrocarbons (PHCs)
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)
- Volatile Organic Compounds (VOCs)
- Organochlorine Pesticides (OCs)

Soil sampling results were compared to the applicable MECP standards for Residential Use listed in Table 8 Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition (MECP Table 8 SCS).

Based on the work conducted to date, soil analytical results indicate soil quality at the Site is suitable for Residential Use.

Soil sampling locations are shown on Figure 12. Laboratory Certificates of Analysis are provided in Appendix F.

5.7.1 Petroleum Hydrocarbons and BTEX in Soil

Soil samples from APEC-1, APEC-2, and APEC-3 were submitted for analysis of PHCs and BTEX. A shallow soil sample collected from APEC-2 (former pole barn) had a detection of PHC F3 of 170 µg/g. A soil sample collected from borehole at APEC-3 (former farmhouse) had a detection of PHC F3 of 55 µg/g. These detections are within the applicable PHC F3 standard of 240 µg/g for Residential Use in MECP Table 8 SCS.

Figure 12 illustrates the aerial distribution of Petroleum Hydrocarbons detected in the soil. A geologic cross section illustrating the distribution of Petroleum Hydrocarbons in soil is provided in Figure 13 and Figure 14.

In May 2025, additional soil samples were collected from APEC-1, APEC-2, and APEC-3 to assess soil for the presence of PHCs and BTEX at additional locations within these APECs. The results for the additional soil samples were within the PHC and BTEX standards for Residential Use listed in MECP Table 8 SCS.

Based on the work conducted to date, soil analytical results indicate soil quality at the Site is suitable for Residential Use.

The analytical data is summarized in Table 6a. Figure 13 illustrates the distribution of Petroleum Hydrocarbons in Soil. Geologic cross-sections illustrating the distribution of Petroleum Hydrocarbons in Soil is provided in Figure 14 and Figure 15.

Phase Two Environmental Site Assessment
June 18, 2025

5.7.2 Volatile Organic Compounds in Soil

A total of eight (8) representative soil samples were collected and submitted for laboratory analysis of Volatile Organic Compounds. The analytical results indicate that concentrations of all VOC parameters were below the RDL and are considered 'non-detect'. The analytical results are summarized in Table 6b.

5.7.3 Organochlorine Pesticides in Soil

A total of eight (8) representative soil samples were collected and submitted for laboratory analysis of Organochlorine Pesticides. The results of the analysis indicate that concentrations of all parameters were below the RDL and are considered 'non-detect'. The analytical results are summarized in Table 6c.

In May 2025, additional soil samples were collected from APEC-4 (cultivated farmland) to assess soil for the presence of pesticides at additional locations within the agricultural field. The results for the additional soil samples collected in APEC-4 were within the applicable standards for Residential Use listed in MECP Table 8 SCS.

5.7.4 Soil pH

Five soil samples were collected from the Site and submitted for pH analysis. The analytical results indicate that the pH of surface soil (depth less than 1.5 m bgs) ranges from 6.95 to 7.79. Analytical results indicate that pH of sub-surface soil (depth of greater than 1.5 m bgs) ranges from 7.87 to 8.07. The soil pH values are within the acceptable ranges for surface soils (5.00 to 9.00) and sub-surface soils (5.00 to 11.00).

The results indicate soil pH at the Site ranges from 6.95 to 8.07.

There is no comparative criteria under the MECPs 2011 *Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act*. The results of the pH analysis were utilized to determine if the Site is considered a 'Sensitive Site' as described in Section 2.5 of this report.

5.8 Groundwater Quality

Groundwater samples were collected from each of the three (3) monitoring wells. The samples were submitted for laboratory analysis of PHCs, including BTEX Compounds and VOCs. Groundwater sampling results were compared to the applicable MECP standards for Residential Use listed in Table 8 Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition (MECP Table 8 SCS).

Analytical results for parameters tested in groundwater samples collected from the Site are within the applicable MECP standards for Residential Use.

Phase Two Environmental Site Assessment
June 18, 2025

Analytical results indicate groundwater quality at the Site is suitable for Residential Use.

The groundwater sampling program is illustrated on Figure 16. Laboratory Certificates of Analysis are provided in Appendix G.

5.8.1 Petroleum Hydrocarbons in Groundwater

A total of three (3) representative groundwater samples were collected and submitted for laboratory analysis of Petroleum Hydrocarbons, including Benzene, Toluene, Ethylbenzene and Xylene. The analytical results indicate that concentrations of all parameters tested were below the RDL and are considered 'non-detect' except for the sample collected from MW2-19. The groundwater sample collected from MW2-19 had elevated concentrations of Ethylbenzene (0.29 ug/L) and Xylene (0.47 ug/L). The concentrations are within MECP Table 8 SCS.

The analytical results are summarized in Table 7a. Figure 17 illustrates the distribution of Petroleum Hydrocarbons in groundwater. Geologic-cross sections illustrating the distribution of Petroleum Hydrocarbons in groundwater is provided in Figures 18 and 19.

5.8.2 Volatile Organic Compounds in Groundwater

A total of one (1) representative groundwater sample was collected and submitted for laboratory analysis of Volatile Organic Compounds. The results of the analysis indicate that concentrations of all parameters tested were below the RDL and are considered 'non-detect'.

5.9 Quality Assurance and Quality Control Results

Soil and groundwater sampling were performed by qualified field staff with experience in intrusive field investigation techniques under the guidance of the Qualified Person (QP). Soil and groundwater samples were collected in accordance with Burnside Standard Operating Procedures which have been developed in accordance with Ontario Regulation 153/04, as amended July 2011.

The following QA/QC field procedures were strictly adhered to during this Phase Two ESA to ensure reliability and accuracy of the soil and water samples collected from the Phase Two Property:

- Verification that the samples listed on the Chain of Custody form were included in the sample shipment, and that the correct sample ID and required chemical analysis were noted;
- All samples were placed in correct lab jars or vials in accordance with required labs tests. In accordance with MECP requirements, all soil samples to be tested for Volatile Organic Compounds and Petroleum Hydrocarbons (F1) were collected with a hermetic sampling device and preserved in Methanol;

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- New disposable nitrile gloves are used at all times for field work including the safe collection of both soil and groundwater samples. These gloves are discarded prior to sampling at another borehole or well location, to prevent potential environmental cross-contamination;
- Groundwater samples are collected from each monitoring well, using a length of dedicated polyethylene tubing. The tubing was dedicated to each monitoring well; and
- Groundwater samples for the analysis of Petroleum Hydrocarbons, BTEX Compounds and Volatile Organic Compounds were contained in sterile lab jars or vials fitted with special Teflon sealed caps containing no headspace.

AGAT and BV Labs utilize MOECC, EPA, NIOSH, and Standard Methods, as well as other industry methods, in accordance with both federal and provincial legislations.

AGAT and BV Labs are certified by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation.

5.9.1 Relative Percent Difference

To ensure the data quality objectives of the Phase Two ESA are met, Relative Percent Difference (RPD) was calculated between each primary and duplicate sample collected. RPD was calculated by taking the absolute difference between the two results expressed as a percentage of the average result. RPD was calculated using the following formula:

$$RPD = \left(\frac{(x_1 - x_2)}{(x_1 + x_2)/100} \right) 100$$

Where: RPD = Relative Percent Difference
 x_1 = Primary Sample
 x_2 = Duplicate Sample

The MECP document “Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” dated July 2011, describes the data quality objectives in relation to RPD values. RPD values of less than or equal to 40% for soil samples indicates acceptable data quality. RPD values less than or equal to 30% for groundwater samples indicates acceptable data quality.

A review of the RPD calculated values indicate all parameters were within the acceptable ranges.

6.0 Conclusions

This updated Phase Two ESA report evaluates the 2019 soil and groundwater sampling results, and the results for soil samples collected from the APECs at the Site in 2025.

Soil and groundwater results were compared to the applicable MECP standards for Residential Use listed in Table 8 Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition (MECP Table 8 SCS).

The analytical results for the parameters tested in soil and groundwater samples collected from the Site are within the applicable MECP standards for Residential Use. Analytical results indicate soil and groundwater quality are suitable for Residential Use.

Based on the work conducted to date the Site conditions are suitable for development of the Site for Residential Use.

Phase Two Environmental Site Assessment
June 18, 2025

7.0 References

Ontario Regulation 153/04, Environmental Protection Act, 2004 (as amended).

Ministry of the Environment and Climate Change. Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. July 1, 2011.

Ministry of the Environment, Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, 2004.

Chapman, L.J. and D.F. Putnam, 1984. The Physiography of Southern Ontario, Third Edition; Ontario Geological Survey, Special Volume 2.

R. Allan Freeze and John A. Cherry, 1979. Groundwater.

Ontario Geological Survey. 2003. Surficial Geology of Southern Ontario, Miscellaneous Release – Data 128, Scale 1:50,000.

Ontario Geological Survey 2011. Bedrock geology, seamless coverage of the province of Ontario, Ontario Geological Survey, Miscellaneous Release – Data 126 – Revision 1, Scale 1:250,000.

Halton Region, February 2019. The 2018 Annual Drinking Water Quality Report, South Halton Drinking Water System – Milton

Halton-Hamilton, October 2017. Source Protection Plans for the Halton Region Source Protection Area and the Hamilton Region Source Protection Area, Version 3.3.

SG-6 Percolation Time and Soil Descriptions, Supplemental Guideline to the Ontario Building Code (2017).

R.J. Burnside & Associates Ltd, January 11, 2019. Phase One Environmental Site Assessment, 6119 Trafalgar Road, Milton, Ontario.

8.0 Limitations and Use of Report

Burnside confirms that it has completed a Phase Two ESA of the property located at 6119 Trafalgar Road, Milton, Ontario, and has made the findings and conclusions provided herein.

The conclusions in this report are professional opinions based upon the Site conditions existing at the time of our assessment. This report has been prepared in accordance with accepted environmental study and/or engineering practices for a Phase Two ESA. It should be noted that some of the information and resulting conclusions of a Phase Two ESA are time sensitive. Burnside does not guarantee the accuracy and reliability of the information provided by other persons or agencies and does not claim responsibility for undisclosed or non-visible environmental concerns that may result in costs for environmental clean-up or remediation.

The results of an investigation of this nature should, in no way, be construed as a warranty that the Site is free from any and all contamination from past or current practices.

This report was prepared for the use of White Squadron Development Corporation. Any use of, reliance on, or decisions based on this report by a third party are the responsibility of such third parties. Burnside accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. Reports or memoranda resulting from this assignment are not to be used, in whole or in part, outside the client's organization without prior written permission.



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[THE DIFFERENCE IS OUR PEOPLE]



Figures



		Client	
		WHITE SQUADRON DEVELOPMENT CORPORATION 6119 TRAFALGAR ROAD, MILTON	
Figure Title		PHASE TWO ENVIRONMENTAL SITE ASSESSMENT SITE LOCATION PLAN	
Drawn	Checked	Date	Figure No.
KL	KL	MAY 2025	1
Scale	Project No.		
N.T.S.	300043649		



inset

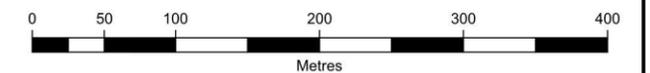
SCALE 1:1,000

see inset

LEGEND

- APPROXIMATE SITE BOUNDARY
- RIVER FLOW DIRECTION

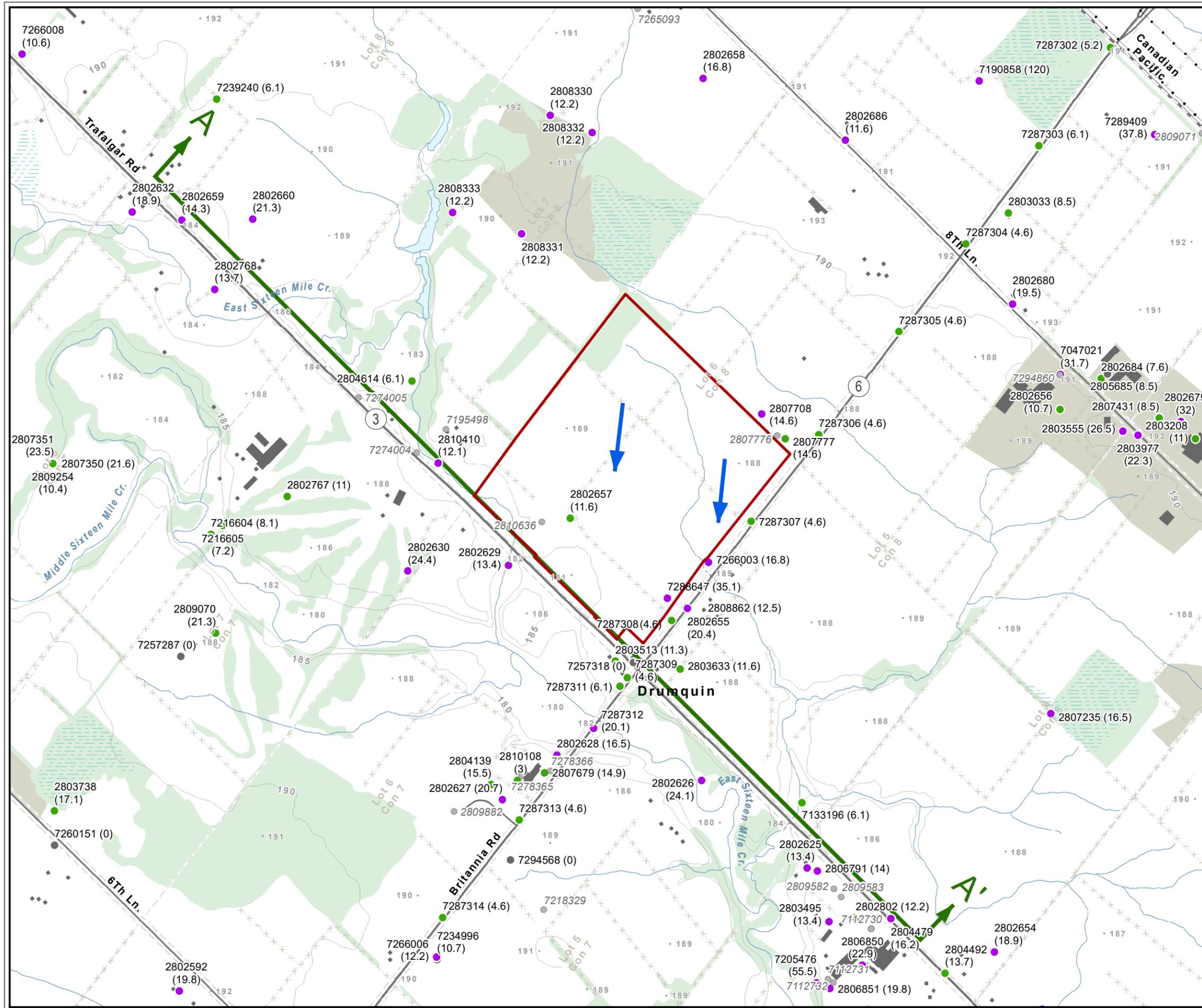
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Client
**WHITE SQUADRON
DEVELOPMENT CORPORATION
6119 TRAFALGAR ROAD, MILTON**

Figure Title
**PHASE TWO
ENVIRONMENTAL SITE ASSESSMENT
SITE PLAN**

Drawn KL	Checked KL	Date MAY 2025	Figure No. 2
Scale 1:5,000	Project No. 300043649		



Legend

- Approximate Site Boundary
- MECP Bedrock Well Location
- MECP Overburden Well Location
- MECP Well - Unknown Status/Formation
- MECP Abandoned Well Location
- ➔ Cross Section Orientation
- ➔ Interpreted Regional Groundwater Flow Direction
- Building (Location Defined)
- Building
- Fence
- Power Transmission Line
- Rail
- Arterial / Collector Road
- Local Road
- Spot Elevation
- Contour
- Lot Boundary
- Wetland
- Waterbody: Permanent
- Stream: Permanent
- Wooded Area
- Built-Up Area: Impervious

Sources:

1. Ministry of Natural Resources, © Queen's Printer for Ontario
2. Natural Resources Canada © Her Majesty the Queen in Right of Canada.

Datum: North American 1983 CSRS
 Coord. System: NAD 1983 CSRS UTM Zone

N

0 200 400 600 800
Metres

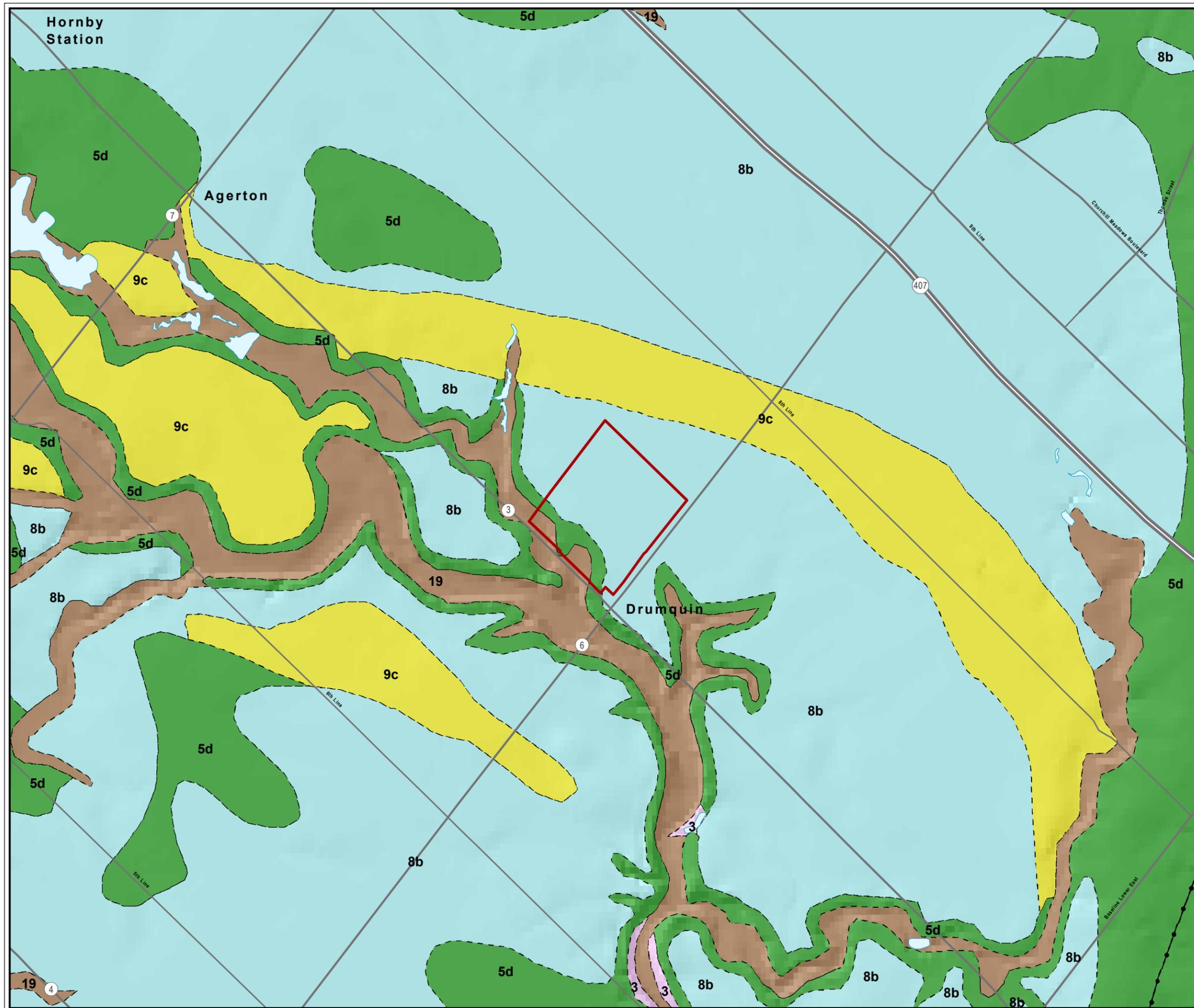
Client

**WHITE SQUADRON
DEVELOPMENT CORPORATION
6119 TRAFALGAR ROAD, MILTON**

Figure Title

**PHASE TWO
ENVIRONMENTAL SITE ASSESSMENT
REGIONAL TOPOGRAPHY
AND WELL LOCATION PLAN**

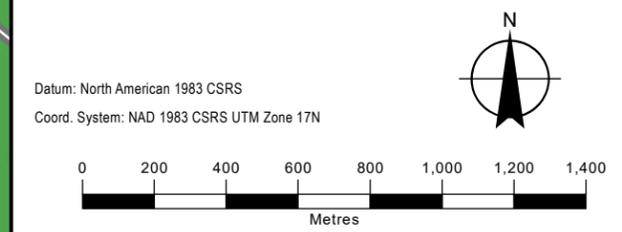
Drawn	Checked	Date	Figure No.
KL	KL	MAY 2025	3
Scale	Project No.		
1:10,000	300043649		



LEGEND

- Approximate Site Boundary
- Surficial Geology**
- 3: Paleozoic bedrock
- 5d: Glaciolacustrine-derived silty to clayey till
- 8b: Interbedded flow till, rainout deposits and silt and clay
- 9c: Foreshore-basinal deposits
- 19: Modern alluvial deposits
- Unit Contact Boundary
- End Moraine
- Freeway
- Arterial / Collector Road
- Local Road
- Waterbody

Sources:
 1. Ministry of Natural Resources, © Queen's Printer for Ontario
 2. Natural Resources Canada © Her Majesty the Queen in Right of Canada.
 3. Ontario Geological Survey 2010. Surficial geology of southern Ontario; Ontario Geological Survey, Miscellaneous Release—Data 128 – Revised.





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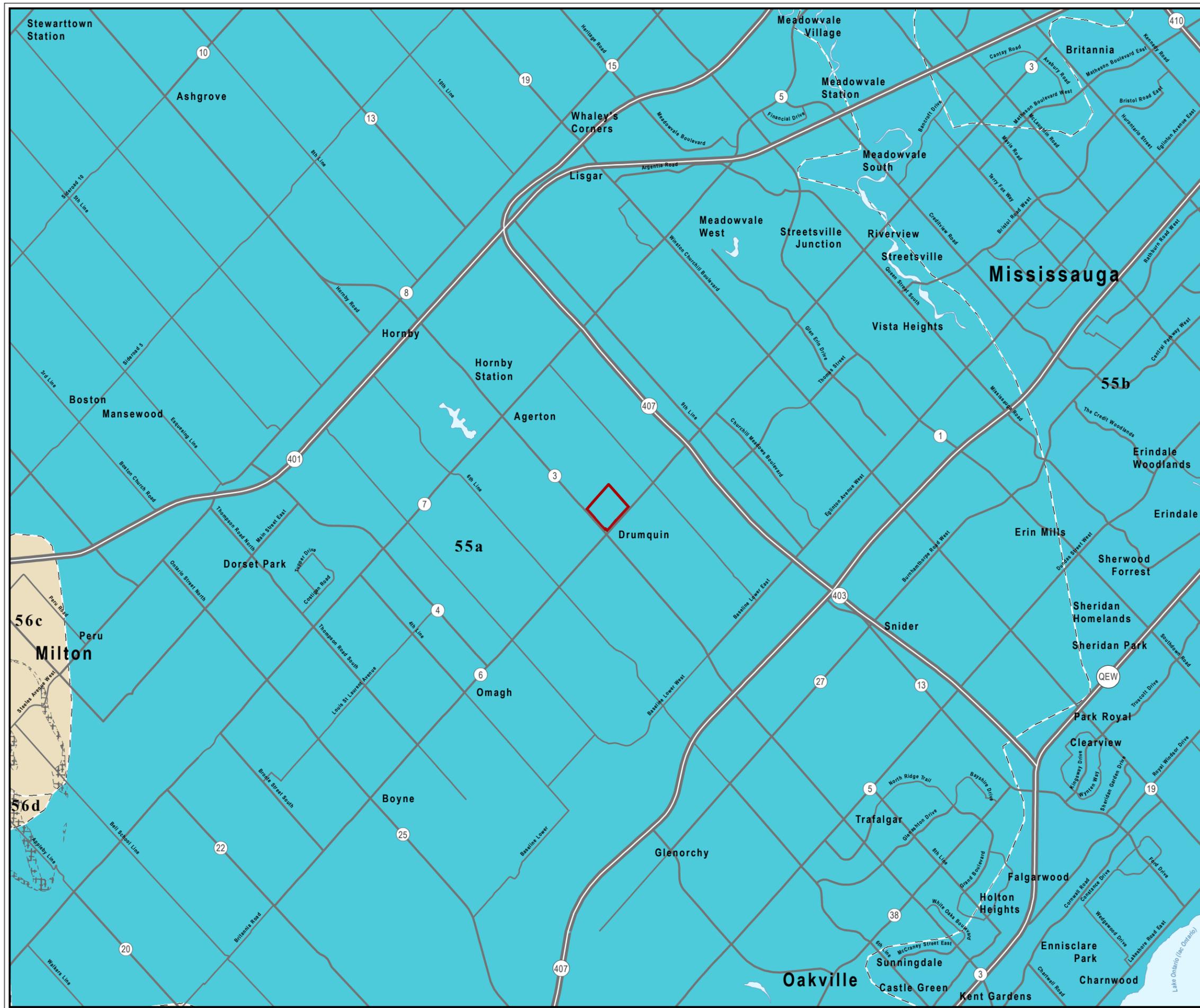
Client

**WHITE SQUADRON
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 6119 TRAFALGAR ROAD, MILTON**

Figure Title

**PHASE TWO
 ENVIRONMENTAL SITE ASSESSMENT
 SURFICIAL GEOLOGY**

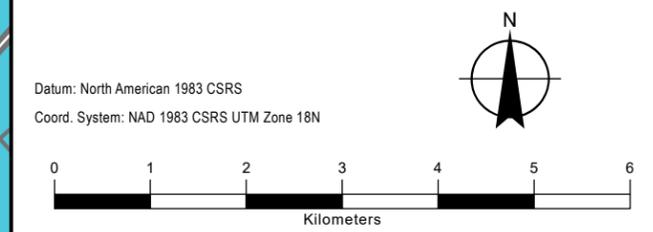
Drawn	Checked	Date	Figure No.
KL	KL	MAY 2025	4
Scale	Project No.		
1:20,000	300043649		



LEGEND

- Approximate Site Boundary
- Freeway
- Arterial / Collector Road
- Local Road
- Waterbody
- UPPER ORDOVICIAN - 55 Shale, limestone, dolostone, siltstone**
- 55a Queenston Fm.
- 55b Georgian Bay Fm.; Blue Mountain Fm.; Billings Fm.; Collingwood Mb.; Eastview Mb. MinStr:
- LOWER SILURIAN - 56 Sandstone, shale, dolostone, siltstone**
- 56c Amabel Fm.
- 56d Clinton Gp.; Cataract Gp.
- Bedrock Geology Unit Boundary
- Karst: Known Area

Sources:
 1. Ontario Geological Survey 2011. 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release-Data 126 - Revision 1.
 2. Ministry of Natural Resources, © Queen's Printer for Ontario
 3. Natural Resources Canada © Her Majesty the Queen in Right of Canada



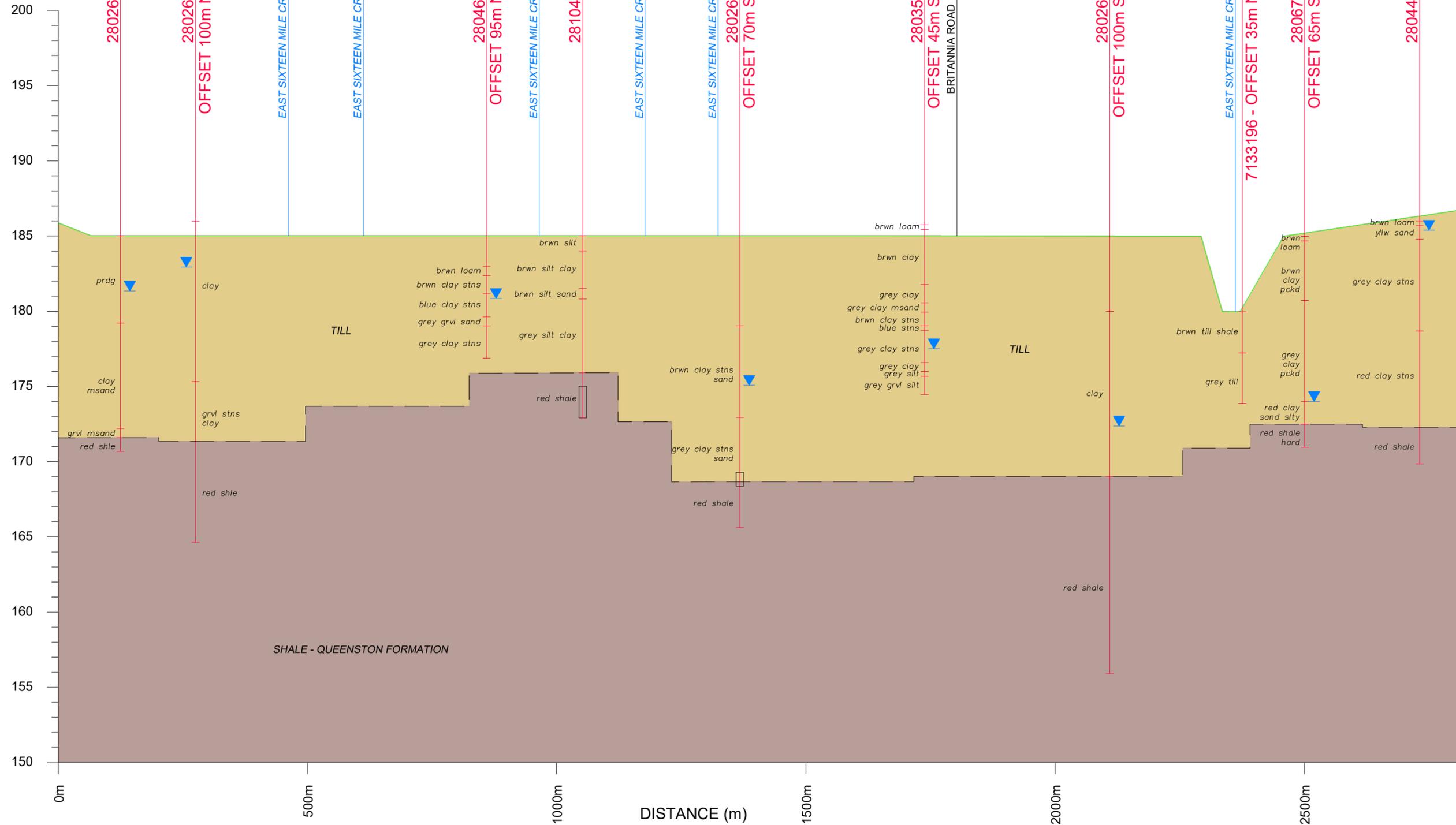
Client
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6119 TRAFALGAR ROAD, MILTON

Figure Title
**PHASE TWO
 ENVIRONMENTAL SITE ASSESSMENT
 BEDROCK GEOLOGY**

Drawn KL	Checked KL	Date MAY 2025	Figure No. 5
Scale 1:75,000		Project No. 300043469	

A
NORTHWEST
ELEVATION
(m amsl)

A'
DIRECTION



- LEGEND**
- WELL LOCATION & NUMBER
 - EXISTING GROUND PROFILE
 - GEOLOGICAL STRATIGRAPHY
 - ▼ STATIC WATER LEVEL (Date of sample)
 - WELL SCREEN

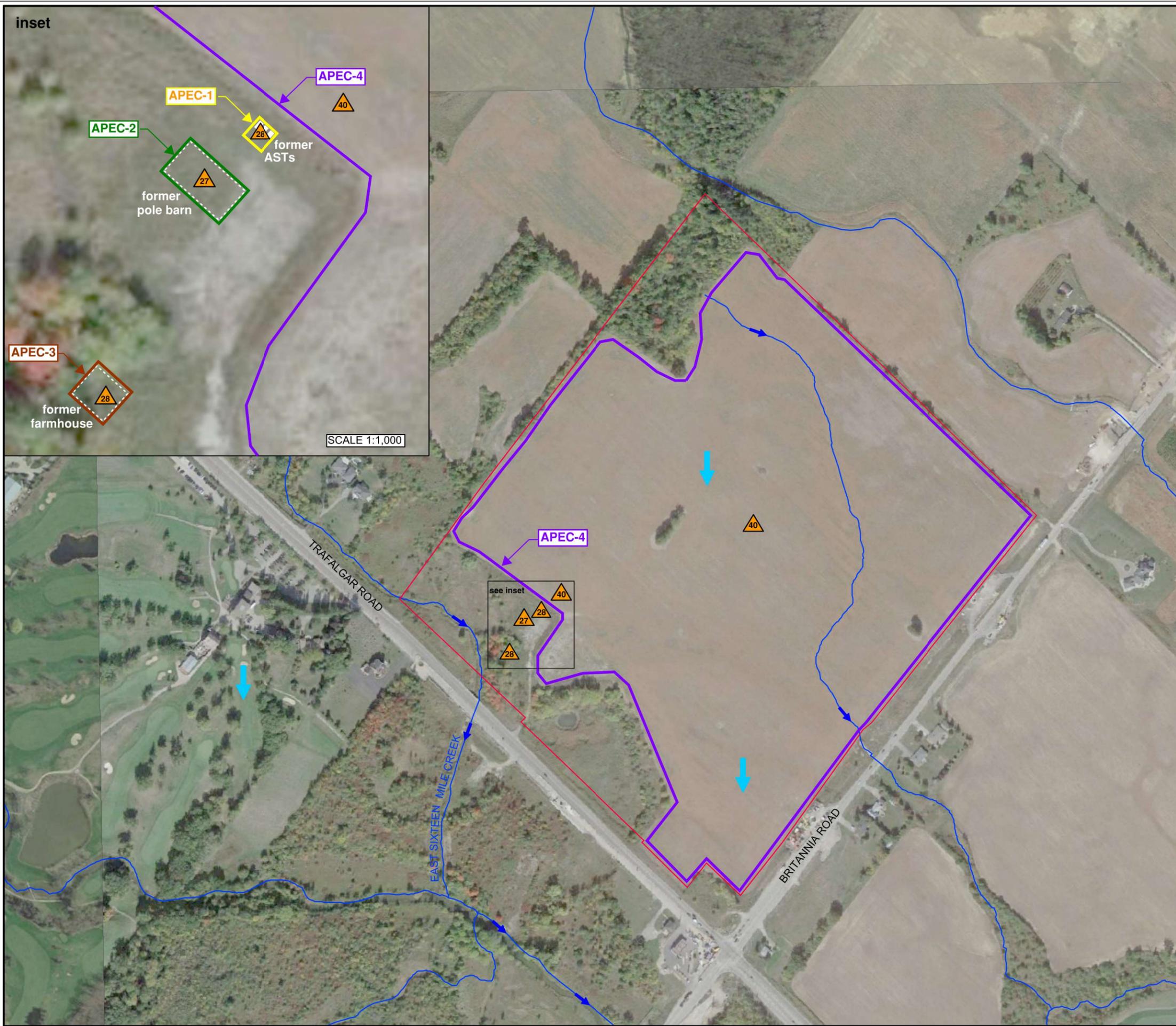
Horizontal Scale: 1:7,500
Vertical Scale: 1:250
Vertical Exaggeration: 30X



Client
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6119 TRAFALGAR ROAD, MILTON**

Figure Title
**PHASE TWO
ENVIRONMENTAL SITE ASSESSMENT
REGIONAL CROSS SECTION**

Drawn KL	Checked KL	Date MAY 2025	Figure No. 6
Scale 1:7,500	Project No. 300043649		



LEGEND

- APPROXIMATE SITE BOUNDARY
- RIVER FLOW DIRECTION
- INFERRED DIRECTION OF GROUNDWATER FLOW
- ▲ POTENTIALLY CONTAMINATING ACTIVITY
- APEC-#** AREA OF POTENTIAL ENVIRONMENTAL CONCERN
- APEC-1 (related to PCA 28) three former aboveground fuel storage tanks.
- APEC-2 (related to PCA 27) inside pole barn, storage of oils, lubricants, and coolants for equipment maintenance.
- APEC-3 (related to PCA 28) potential fuel oil tank at former farmhouse location.
- APEC-4 (related to PCA 40) potential application of pesticides on cultivated farmland.

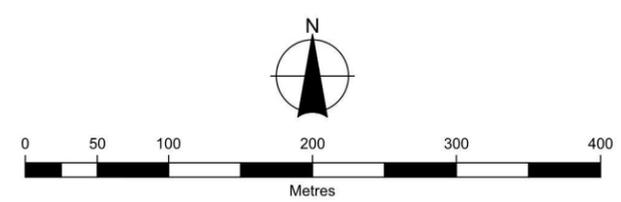
Potentially Contaminating Activities (defined in O. Reg. 153/04):

PCA 27. Garages and Maintenance and Repair of Railcars, Marine Vehicles, and Aviation Vehicles

PCA 28. Gasoline and Associated Products Storage in Fixed Tanks

PCA 40. Pesticides (including herbicides, fungicides and anti-fouling agents) manufacturing, processing, bulk storage and large-scale applications

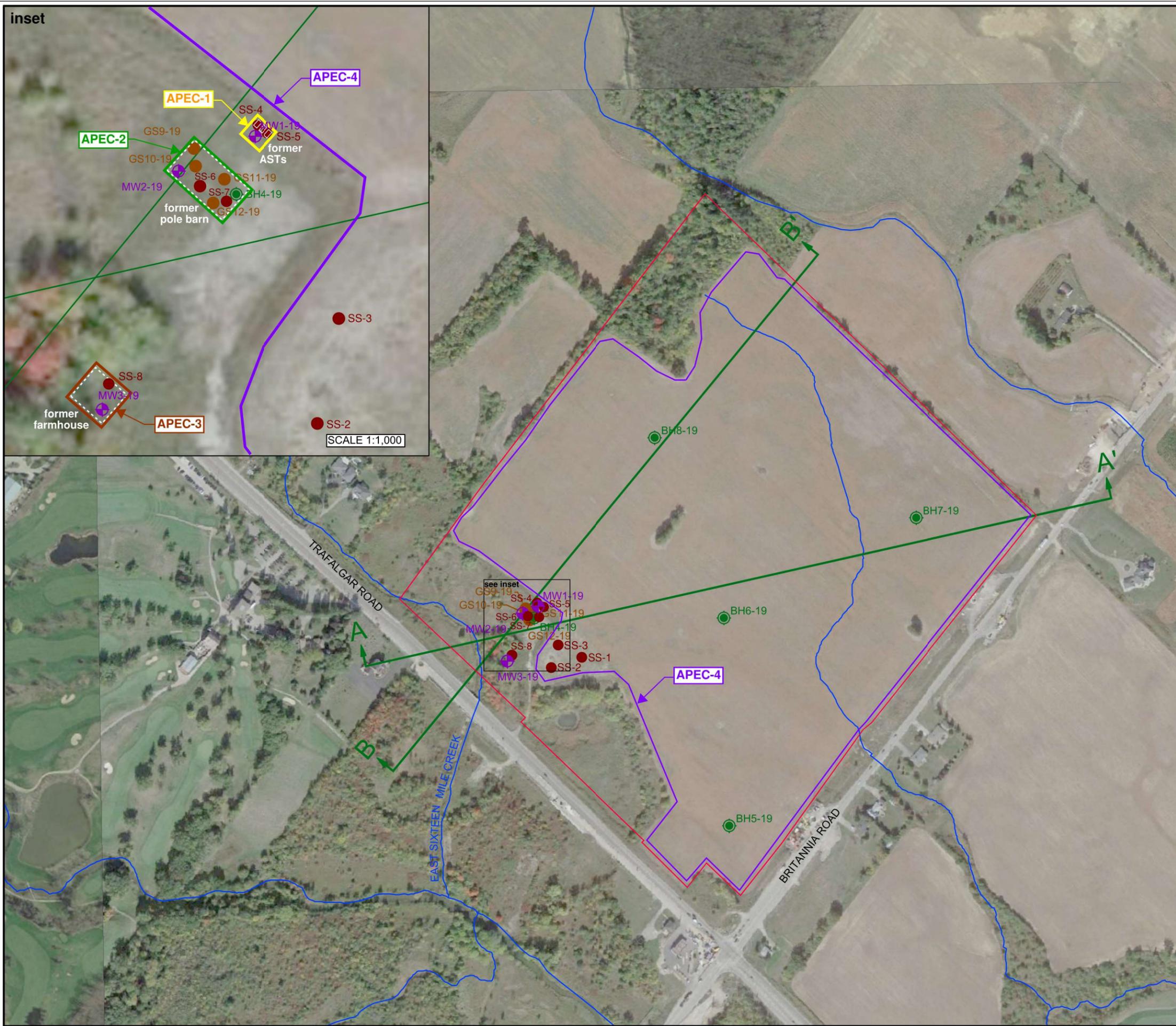
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Figure Title
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
 PCAs and APECs

Drawn KL	Checked KL	Date MAY 2025	Figure No. 7
Scale 1:5,000	Project No. 300043649		



LEGEND

- APPROXIMATE SITE BOUNDARY
- RIVER FLOW DIRECTION
- INFERRED DIRECTION OF GROUNDWATER FLOW
- ⊕ MONITORING WELL LOCATION
- ⊙ BOREHOLE LOCATION
- TEST PIT SOIL SAMPLE LOCATION
- ↔ CROSS SECTION ORIENTATION

APEC-# AREA OF POTENTIAL ENVIRONMENTAL CONCERN

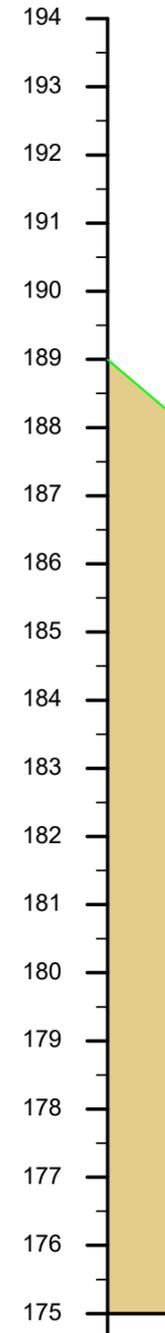
- APEC-1 (related to PCA 28) three former aboveground fuel storage tanks.
- APEC-2 (related to PCA 27) inside pole barn, storage of oils, lubricants, and coolants for equipment maintenance.
- APEC-3 (related to PCA 28) potential fuel oil tank at former farmhouse location.
- APEC-4 (related to PCA 40) potential application of pesticides on cultivated farmland.

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Client			
WHITE SQUADRON DEVELOPMENT CORPORATION 6119 TRAFALGAR ROAD, MILTON			
Figure Title			
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT BOREHOLE AND MONITORING WELL LOCATION MAP			
Drawn KL	Checked KL	Date MAY 2025	Figure No.
Scale 1:5,000	Project No. 300043649		8

A
WEST
ELEVATION
(m amsl)

A'
EAST



TRAFALGAR ROAD

CREEK

MW3-19
OFFSET 30m S

MW2-19 OFFSET 20m N

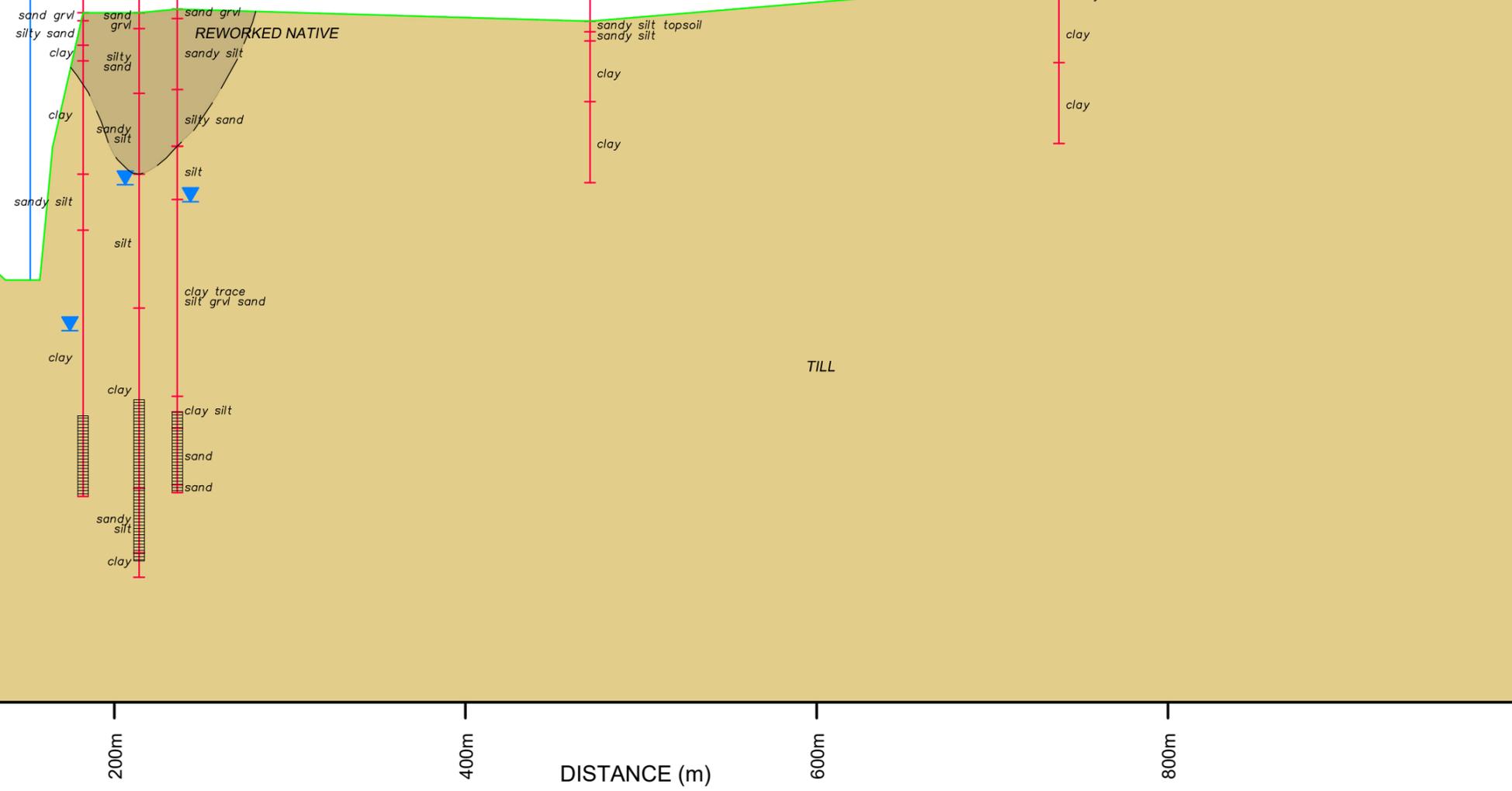
MW1-19 OFFSET 25m N

BH6-19
OFFSET 40m S

CREEK

BH7-19
OFFSET 30m N

BRITANNIA ROAD



DISTANCE (m)

1000m

LEGEND

- WELL LOCATION & NUMBER
- EXISTING GROUND PROFILE
- GEOLOGICAL STRATIGRAPHY
- STATIC WATER LEVEL
(July 31, 2019)
- WELL SCREEN

Horizontal Scale: 1:3,000
Vertical Scale: 1:100
Vertical Exaggeration: 30X



Client
**WHITE SQUADRON
DEVELOPMENT CORPORATION**
6119 TRAFALGAR ROAD, MILTON

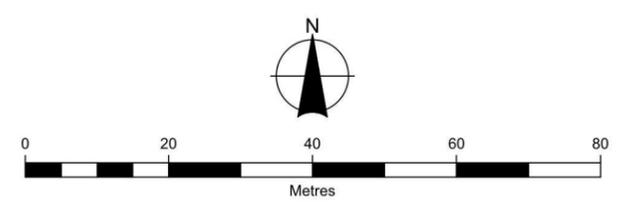
Figure Title
**PHASE TWO
ENVIRONMENTAL SITE ASSESSMENT**
INTERPRETED GEOLOGIC CROSS SECTION A-A'

Drawn KL	Checked KL	Date MAY 2025	Figure No. 9
Scale 1:3,000	Project No. 300043649		



- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - WATERCOURSE (OHN)
 - MONITORING WELL LOCATION
(By Burnside, 2019)
 - 184.46 GROUNDWATER ELEVATION masl
(July 31, 2019)
 - - - GROUNDWATER CONTOUR - masl
 - ➔ INTERPRETED GROUNDWATER FLOW DIRECTION

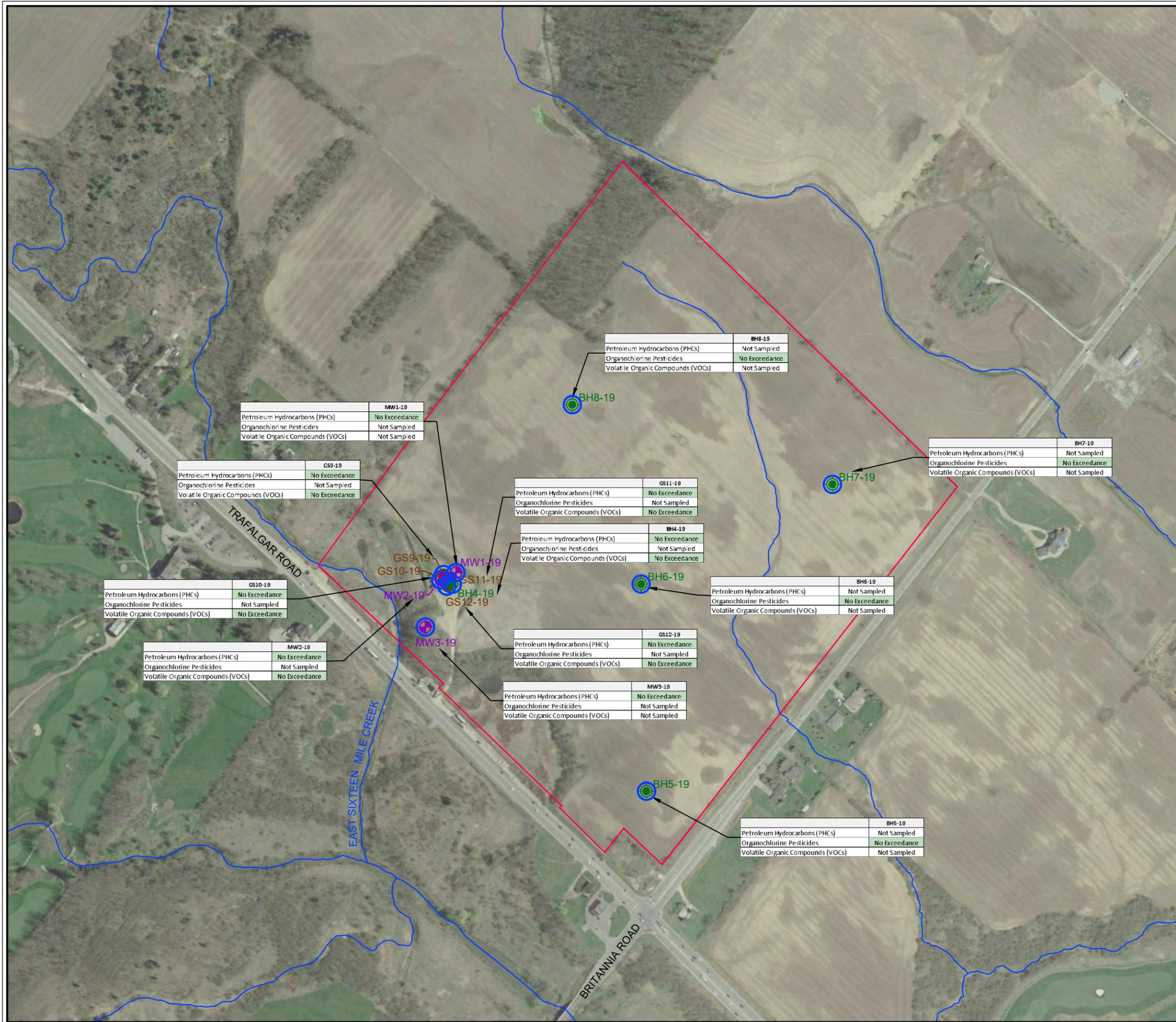
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Figure Title
**PHASE TWO
 ENVIRONMENTAL SITE ASSESSMENT**
 GROUNDWATER FLOW MAPPING

Drawn KL	Checked KL	Date MAY 2025	Figure No. 11
Scale 1:1000	Project No. 300043649		



LEGEND

- APPROXIMATE SITE BOUNDARY
- RIVER FLOW DIRECTION
- INFERRED DIRECTION OF GROUNDWATER FLOW
- + MONITORING WELL LOCATION
- BOREHOLE LOCATION
- TEST PIT SOIL SAMPLE LOCATION

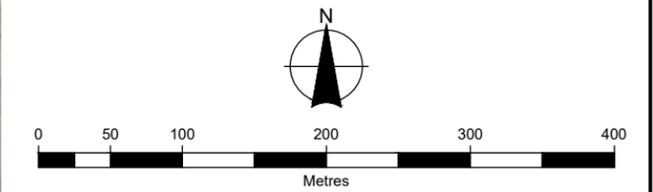
Evaluation of Soil Sampling Results

Soil sampling results were compared to the applicable MECP standards for Residential Use listed in Table 8 Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition (MECP Table 8 SCS).

All of the analytical results for the parameters tested in soil samples collected from the Site are within the applicable MECP standards for Residential Use.

Analytical results indicate soil quality at the Site is suitable for Residential Use.

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Client

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6119 TRAFALGAR ROAD, MILTON

Figure Title

**PHASE TWO
ENVIRONMENTAL SITE ASSESSMENT**
SOIL SAMPLING PROGRAM

Drawn KL	Checked KL	Date MAY 2025	Figure No.
Scale 1:5,000	Project No. 300043649		12

LEGEND

-  APPROXIMATE SITE BOUNDARY
-  RIVER FLOW DIRECTION
-  INFERRED DIRECTION OF GROUNDWATER FLOW
-  MONITORING WELL LOCATION
-  BOREHOLE LOCATION
-  TEST PIT SOIL SAMPLE LOCATION

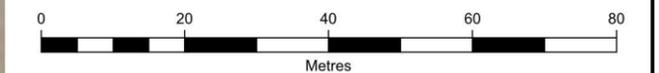
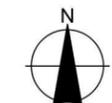
Evaluation of Soil Sampling Results

Soil sampling results were compared to the applicable MECP standards for Residential Use listed in Table 8 Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition (MECP Table 8 SCS).

All of the analytical results for the parameters tested in soil samples collected from the Site are within the applicable MECP standards for Residential Use.

Based on the work conducted to date, analytical results indicate soil quality at the Site is suitable for Residential Use.

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Client
**WHITE SQUADRON
DEVELOPMENT CORPORATION**
6119 TRAFALGAR ROAD, MILTON

Figure Title
**PHASE TWO
ENVIRONMENTAL SITE ASSESSMENT**
AERIAL DISTRIBUTION OF PETROLEUM
HYDROCARBONS IN SOIL

Drawn KL	Checked KL	Date MAY 2025	Figure No.
Scale 1:1000	Project No. 300043649		13

Parameter Name	Criteria	DL	Units	MW1-19	
				2.5m - 3.0m	7.8m - 8.5m
F1 (C6-C10)	25	10	ug/g	<10	<10
F2 (C10-C16 Hydrocarbons)	10	10	ug/g	<10	<10
F3 (C16-C34 Hydrocarbons)	240	50	ug/g	<50	<50
F4 (C34-C50 Hydrocarbons)	120	50	ug/g	<50	<50
Benzene	0.02	0.02	ug/g	<0.020	<0.020
Toluene	0.2	0.02	ug/g	<0.020	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.040	<0.040

Parameter	Table 8 SCS Criteria	DL	Units	SS-4	SS-5	SS-6	SS-7	SS-8
				0.3m - 0.5m				
F1 (C6 to C10)	25	5	ug/g	<5	<5	<5	<5	<5
F2 (C10 to C16)	10	10	ug/g	<10	<10	<10	<10	<10
F3 (C16 to C34)	240	50	ug/g	<50	<50	<50	<50	<50
F4 (C34 to C50)	120	50	ug/g	<50	<50	<50	<50	<50
Benzene	0.02	0.02	ug/g	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	0.2	0.2	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	0.05	0.05	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05
Total Xylenes	0.05	0.05	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05

Parameter Name	Criteria	DL	Units	GS11-19
				0.1m - 0.3m
F1 (C6-C10)	25	10	ug/g	<10
F2 (C10-C16 Hydrocarbons)	10	10	ug/g	<10
F3 (C16-C34 Hydrocarbons)	240	50	ug/g	170
F4 (C34-C50 Hydrocarbons)	120	50	ug/g	<50
Benzene	0.02	0.02	ug/g	<0.020
Toluene	0.2	0.02	ug/g	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.020

Parameter Name	Criteria	DL	Units	BH4-19
				2.5m - 3.0m
F1 (C6-C10)	25	10	ug/g	<10
F2 (C10-C16 Hydrocarbons)	10	10	ug/g	<10
F3 (C16-C34 Hydrocarbons)	240	50	ug/g	<50
F4 (C34-C50 Hydrocarbons)	120	50	ug/g	<50
Benzene	0.02	0.02	ug/g	<0.020
Toluene	0.2	0.02	ug/g	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.020

Parameter Name	Criteria	DL	Units	GS12-19
				0.1m - 0.3m
F1 (C6-C10)	25	10	ug/g	<10
F2 (C10-C16 Hydrocarbons)	10	10	ug/g	<10
F3 (C16-C34 Hydrocarbons)	240	50	ug/g	<50
F4 (C34-C50 Hydrocarbons)	120	50	ug/g	<50
Benzene	0.02	0.02	ug/g	<0.020
Toluene	0.2	0.02	ug/g	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.020

Parameter Name	Criteria	DL	Units	GS9-19
				0.1m - 0.3m
F1 (C6-C10)	25	10	ug/g	<10
F2 (C10-C16 Hydrocarbons)	10	10	ug/g	<10
F3 (C16-C34 Hydrocarbons)	240	50	ug/g	<50
F4 (C34-C50 Hydrocarbons)	120	50	ug/g	<50
Benzene	0.02	0.02	ug/g	<0.020
Toluene	0.2	0.02	ug/g	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.020

Parameter Name	Criteria	DL	Units	GS10-19
				0.1m - 0.3m
F1 (C6-C10)	25	10	ug/g	<10
F2 (C10-C16 Hydrocarbons)	10	10	ug/g	<10
F3 (C16-C34 Hydrocarbons)	240	50	ug/g	<50
F4 (C34-C50 Hydrocarbons)	120	50	ug/g	<50
Benzene	0.02	0.02	ug/g	<0.020
Toluene	0.2	0.02	ug/g	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.020

Parameter Name	Criteria	DL	Units	MW2-19		
				2.3m - 2.8m	9.1m - 9.5m	9.1m - 9.5m Dup
F1 (C6-C10)	25	10	ug/g	<10	<10	<10
F2 (C10-C16 Hydrocarbons)	10	10	ug/g	<10	<10	<10
F3 (C16-C34 Hydrocarbons)	240	50	ug/g	<50	<50	<10
F4 (C34-C50 Hydrocarbons)	120	50	ug/g	<50	<50	<50
Benzene	0.02	0.02	ug/g	<0.020	<0.020	<0.020
Toluene	0.2	0.02	ug/g	<0.020	<0.020	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020	<0.020	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.020	<0.020	<0.020

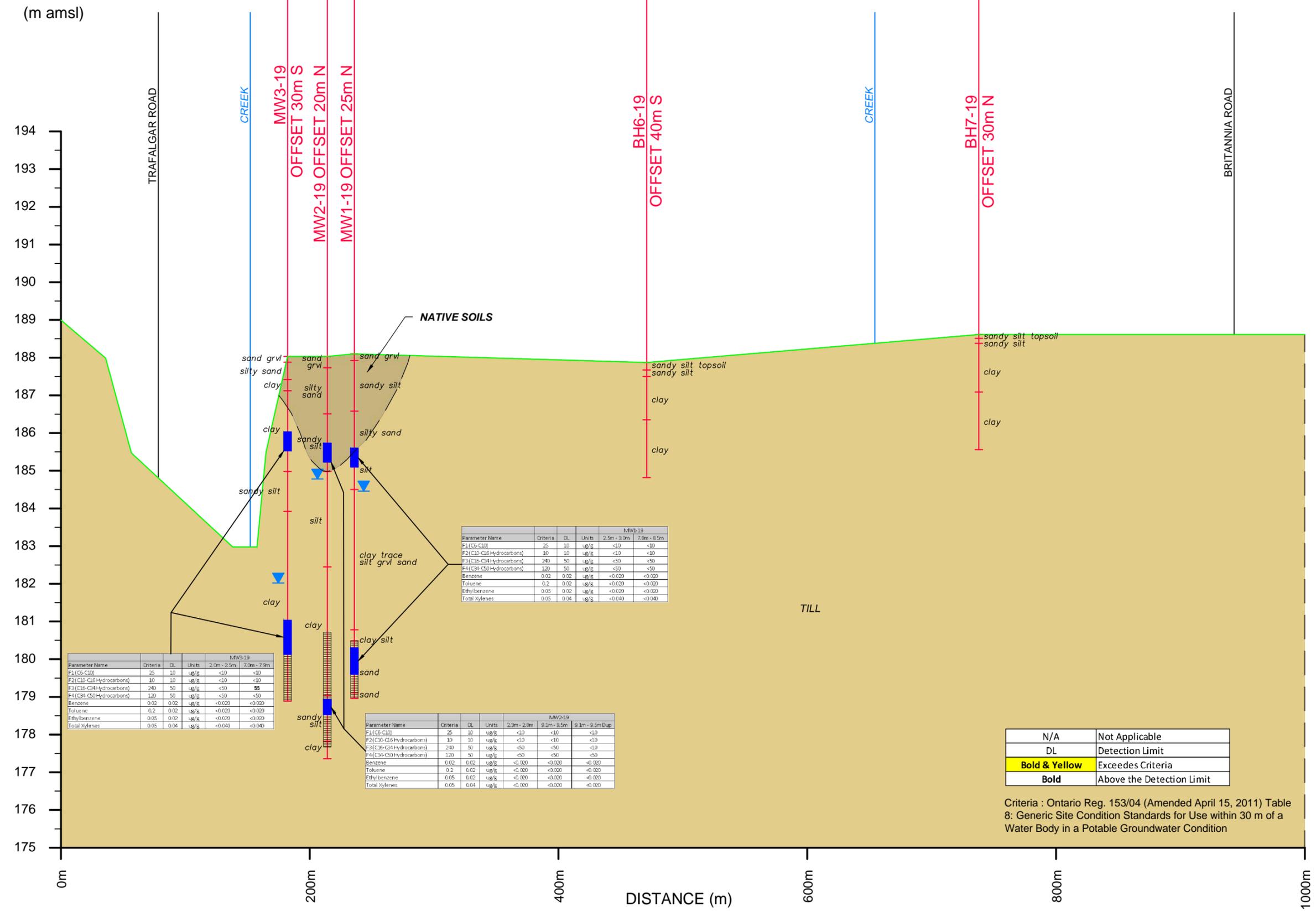
Parameter Name	Criteria	DL	Units	MW3-19	
				2.0m - 2.5m	7.0m - 7.9m
F1 (C6-C10)	25	10	ug/g	<10	<10
F2 (C10-C16 Hydrocarbons)	10	10	ug/g	<10	<10
F3 (C16-C34 Hydrocarbons)	240	50	ug/g	<50	55
F4 (C34-C50 Hydrocarbons)	120	50	ug/g	<50	<50
Benzene	0.02	0.02	ug/g	<0.020	<0.020
Toluene	0.2	0.02	ug/g	<0.020	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.040	<0.040

A
WEST
ELEVATION
(m amsl)

APPROXIMATE PROPERTY LIMITS

A'
EAST

LEGEND



- 5893 WELL LOCATION & NUMBER
- EXISTING GROUND PROFILE
- silty sand GEOLOGICAL STRATIGRAPHY
- STATIC WATER LEVEL (July 31, 2019)
- SOIL SAMPLE LOCATION - DOES NOT EXCEED TABLE 8 CRITERIA
- SOIL SAMPLE LOCATION - EXCEEDS TABLE 8 CRITERIA
- WELL SCREEN

Horizontal Scale: 1:3,000
Vertical Scale: 1:100
Vertical Exaggeration: 30X

Parameter Name	Criteria	DL	Units	MW3-19	
				2.0m - 2.5m	7.0m - 7.9m
F1(C6-C10)	25	10	ug/g	<10	<10
F2(C10-C16 Hydrocarbons)	10	10	ug/g	<10	<10
F3(C18-C24 Hydrocarbons)	240	50	ug/g	<50	55
F4(C26-C32 Hydrocarbons)	120	50	ug/g	<50	<50
Benzene	0.02	0.02	ug/g	<0.020	<0.020
Toluene	0.2	0.02	ug/g	<0.020	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.040	<0.040

Parameter Name	Criteria	DL	Units	MW3-19		
				2.3m - 2.8m	9.3m - 9.5m	9.3m - 9.5m Dup
F1(C6-C10)	25	10	ug/g	<10	<10	<10
F2(C10-C16 Hydrocarbons)	10	10	ug/g	<10	<10	<10
F3(C18-C24 Hydrocarbons)	240	50	ug/g	<50	<50	<50
F4(C26-C32 Hydrocarbons)	120	50	ug/g	<50	<50	<50
Benzene	0.02	0.02	ug/g	<0.020	<0.020	<0.020
Toluene	0.2	0.02	ug/g	<0.020	<0.020	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020	<0.020	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.020	<0.020	<0.020

Parameter Name	Criteria	DL	Units	MW1-19	
				2.5m - 3.0m	7.8m - 8.5m
F1(C6-C10)	25	10	ug/g	<10	<10
F2(C10-C16 Hydrocarbons)	10	10	ug/g	<10	<10
F3(C18-C24 Hydrocarbons)	240	50	ug/g	<50	<50
F4(C26-C32 Hydrocarbons)	120	50	ug/g	<50	<50
Benzene	0.02	0.02	ug/g	<0.020	<0.020
Toluene	0.2	0.02	ug/g	<0.020	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.040	<0.040

N/A	Not Applicable
DL	Detection Limit
Bold & Yellow	Exceeds Criteria
Bold	Above the Detection Limit

Criteria : Ontario Reg. 153/04 (Amended April 15, 2011) Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition



<p>Client</p> <p>WHITE SQUADRON DEVELOPMENT CORPORATION</p> <p>6119 TRAFALGAR ROAD, MILTON</p>			
<p>Figure Title</p> <p>PHASE TWO ENVIRONMENTAL SITE ASSESSMENT</p> <p>PETROLEUM HYDROCARBONS DISTRIBUTION IN SOIL - CROSS SECTION A-A'</p>			
Drawn	Checked	Date	Figure No.
KL	KL	MAY 2025	
Scale	Project No.		14
1:3,000	300043649		

B
SOUTHWEST
ELEVATION
(m amsl)

APPROXIMATE PROPERTY LIMITS

B'
NORTHEAST

LEGEND

194
193
192
191
190
189
188
187
186
185
184
183
182
181
180
179
178
177
176
175

- 5893 WELL LOCATION & NUMBER
- EXISTING GROUND PROFILE
- silty sand GEOLOGICAL STRATIGRAPHY
- STATIC WATER LEVEL (July 31, 2019)
- GRAB SAMPLE LOCATION - DOES NOT EXCEED TABLE 8 CRITERIA
- SOIL SAMPLE LOCATION - DOES NOT EXCEED TABLE 8 CRITERIA
- SOIL SAMPLE LOCATION - EXCEEDS TABLE 8 CRITERIA
- WELL SCREEN

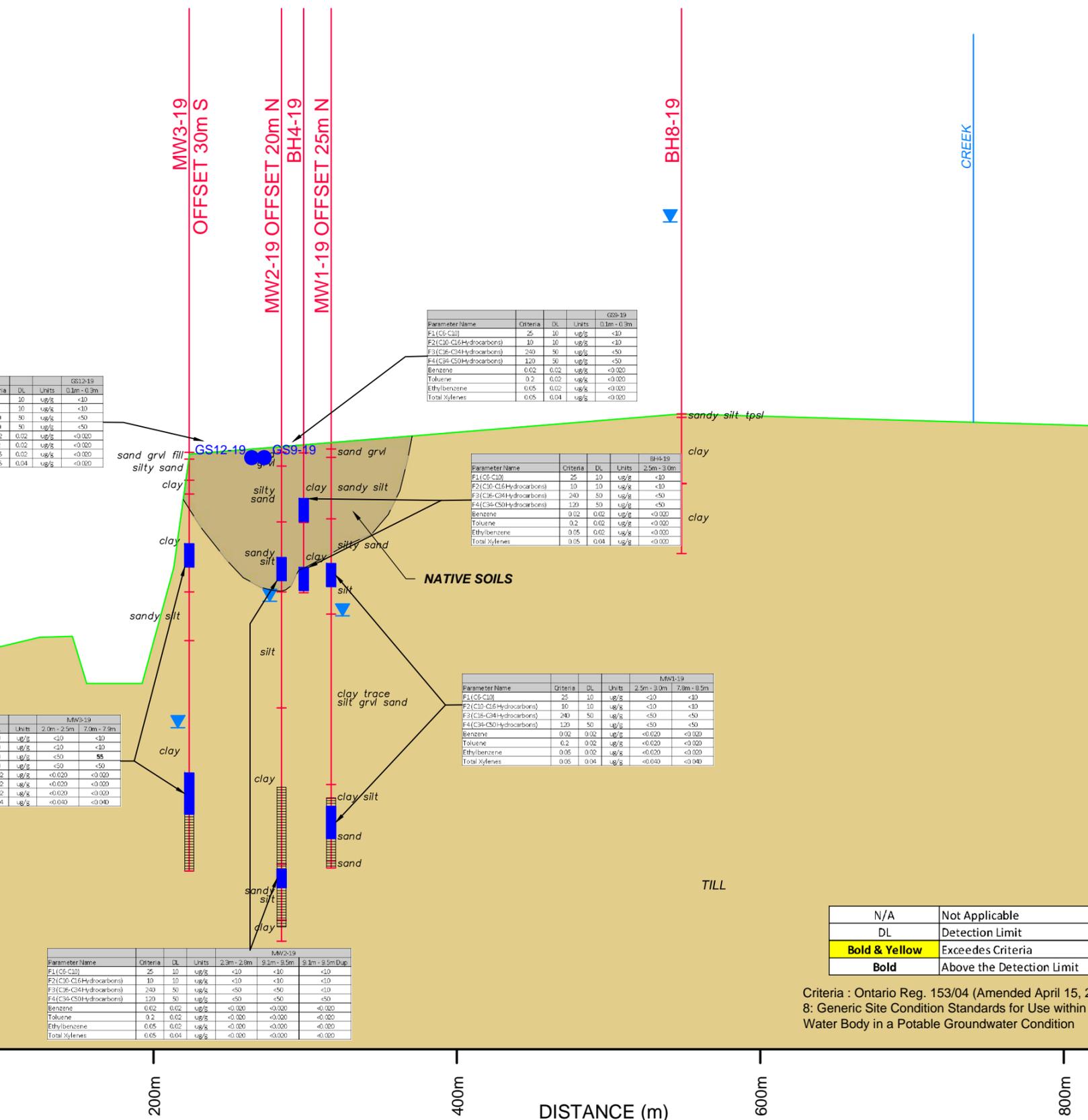
Horizontal Scale: 1:3,000
Vertical Scale: 1:100
Vertical Exaggeration: 30X



Client
**WHITE SQUADRON
DEVELOPMENT CORPORATION**
6119 TRAFALGAR ROAD, MILTON

Figure Title
**PHASE TWO
ENVIRONMENTAL SITE ASSESSMENT**
PETROLEUM HYDROCARBONS DISTRIBUTION IN
SOIL - CROSS SECTION B-B'

Drawn KL	Checked KL	Date MAY 2025	Figure No.
Scale 1:3,000	Project No. 300043649		15



Parameter Name	Criteria	DL	Units	GS12-19 0.1m - 0.3m
F1 (C6-C10)	25	10	ug/g	<10
F2 (C10-C16 Hydrocarbons)	10	10	ug/g	<10
F3 (C16-C34 Hydrocarbons)	240	50	ug/g	<50
F4 (C34-C50 Hydrocarbons)	120	50	ug/g	<50
Benzene	0.02	0.02	ug/g	<0.020
Toluene	0.2	0.02	ug/g	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.020

Parameter Name	Criteria	DL	Units	GS9-19 0.1m - 0.3m
F1 (C6-C10)	25	10	ug/g	<10
F2 (C10-C16 Hydrocarbons)	10	10	ug/g	<10
F3 (C16-C34 Hydrocarbons)	240	50	ug/g	<50
F4 (C34-C50 Hydrocarbons)	120	50	ug/g	<50
Benzene	0.02	0.02	ug/g	<0.020
Toluene	0.2	0.02	ug/g	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.020

Parameter Name	Criteria	DL	Units	BH4-19 2.5m - 3.0m
F1 (C6-C10)	25	10	ug/g	<10
F2 (C10-C16 Hydrocarbons)	10	10	ug/g	<10
F3 (C16-C34 Hydrocarbons)	240	50	ug/g	<50
F4 (C34-C50 Hydrocarbons)	120	50	ug/g	<50
Benzene	0.02	0.02	ug/g	<0.020
Toluene	0.2	0.02	ug/g	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.020

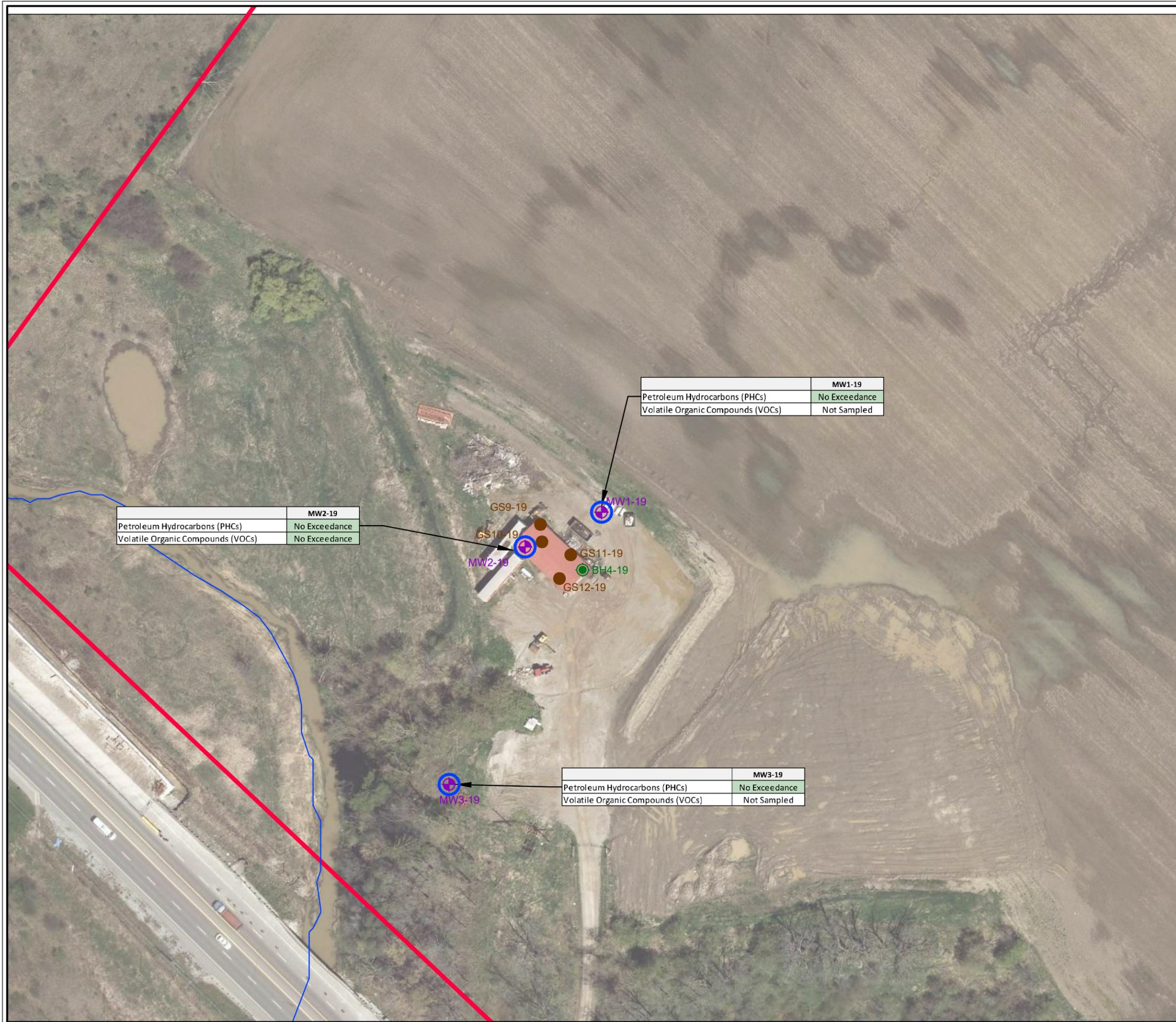
Parameter Name	Criteria	DL	Units	MW3-19 2.0m - 2.5m	7.0m - 7.9m
F1 (C6-C10)	25	10	ug/g	<10	<10
F2 (C10-C16 Hydrocarbons)	10	10	ug/g	<10	<10
F3 (C16-C34 Hydrocarbons)	240	50	ug/g	<50	<50
F4 (C34-C50 Hydrocarbons)	120	50	ug/g	<50	<50
Benzene	0.02	0.02	ug/g	<0.020	<0.020
Toluene	0.2	0.02	ug/g	<0.020	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.040	<0.040

Parameter Name	Criteria	DL	Units	MW1-19 2.5m - 3.0m	7.8m - 8.5m
F1 (C6-C10)	25	10	ug/g	<10	<10
F2 (C10-C16 Hydrocarbons)	10	10	ug/g	<10	<10
F3 (C16-C34 Hydrocarbons)	240	50	ug/g	<50	<50
F4 (C34-C50 Hydrocarbons)	120	50	ug/g	<50	<50
Benzene	0.02	0.02	ug/g	<0.020	<0.020
Toluene	0.2	0.02	ug/g	<0.020	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.040	<0.040

Parameter Name	Criteria	DL	Units	MW2-19 2.3m - 2.8m	9.1m - 9.5m	9.1m - 9.5m Dup
F1 (C6-C10)	25	10	ug/g	<10	<10	<10
F2 (C10-C16 Hydrocarbons)	10	10	ug/g	<10	<10	<10
F3 (C16-C34 Hydrocarbons)	240	50	ug/g	<50	<50	<10
F4 (C34-C50 Hydrocarbons)	120	50	ug/g	<50	<50	<50
Benzene	0.02	0.02	ug/g	<0.020	<0.020	<0.020
Toluene	0.2	0.02	ug/g	<0.020	<0.020	<0.020
Ethylbenzene	0.05	0.02	ug/g	<0.020	<0.020	<0.020
Total Xylenes	0.05	0.04	ug/g	<0.020	<0.020	<0.020

N/A	Not Applicable
DL	Detection Limit
Bold & Yellow	Exceeds Criteria
Bold	Above the Detection Limit

Criteria : Ontario Reg. 153/04 (Amended April 15, 2011) Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition



LEGEND

- APPROXIMATE SITE BOUNDARY
- RIVER FLOW DIRECTION
- INFERRED DIRECTION OF GROUNDWATER FLOW
- ⊕ MONITORING WELL LOCATION
- ⊙ BOREHOLE LOCATION
- TEST PIT SOIL SAMPLE LOCATION

Evaluation of Groundwater Sampling Results

Groundwater sampling results were compared to the applicable MECP standards for Residential Use listed in Table 8 Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition (MECP Table 8 SCS).

All of the analytical results for parameters tested in groundwater samples collected from the Site are within the applicable MECP groundwater standards listed in Table 8 SCS.

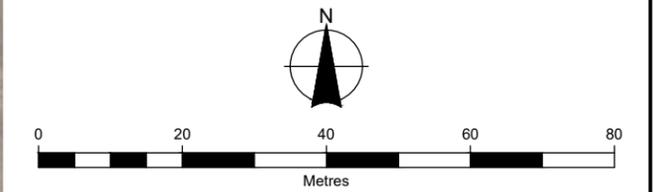
Analytical results indicate groundwater quality at the Site is suitable for Residential Use.

	MW2-19
Petroleum Hydrocarbons (PHCs)	No Exceedance
Volatile Organic Compounds (VOCs)	No Exceedance

	MW1-19
Petroleum Hydrocarbons (PHCs)	No Exceedance
Volatile Organic Compounds (VOCs)	Not Sampled

	MW3-19
Petroleum Hydrocarbons (PHCs)	No Exceedance
Volatile Organic Compounds (VOCs)	Not Sampled

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Client

**WHITE SQUADRON
DEVELOPMENT CORPORATION
6119 TRAFALGAR ROAD, MILTON**

Figure Title

**PHASE TWO
ENVIRONMENTAL SITE ASSESSMENT
GROUNDWATER SAMPLING PROGRAM**

Drawn KL	Checked KL	Date MAY 2025	Figure No. 16
Scale 1:1,000	Project No. 300043649		

LEGEND

- APPROXIMATE SITE BOUNDARY
- RIVER FLOW DIRECTION
- INFERRED DIRECTION OF GROUNDWATER FLOW
- + MONITORING WELL LOCATION
- BOREHOLE LOCATION
- TEST PIT SOIL SAMPLE LOCATION

Evaluation of Groundwater Sampling Results

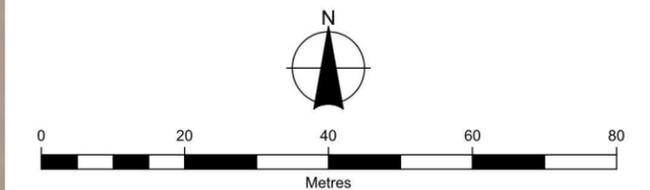
Groundwater sampling results were compared to the applicable MECP standards for Residential Use listed in Table 8 Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition (MECP Table 8 SCS).

All of the analytical results for parameters tested in groundwater samples collected from the Site are within the applicable MECP groundwater standards listed in Table 8 SCS.

Analytical results indicate groundwater quality at the Site is suitable for Residential Use.

Criteria : Ontario Reg. 153/04 (Amended April 15, 2011) Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition

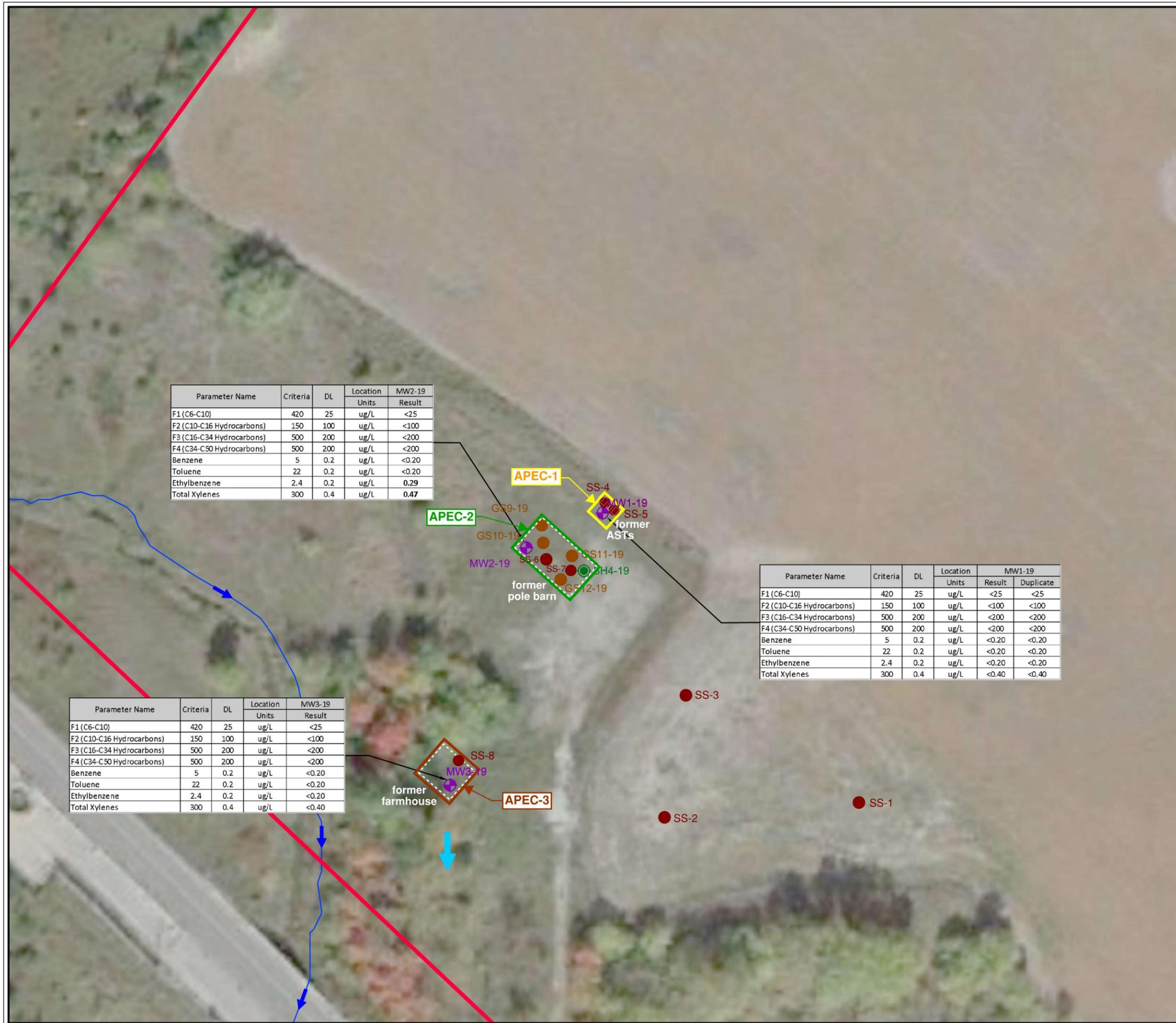
Air Photo Source:
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Parameter Name	Criteria	DL	Location	MW2-19
			Units	Result
F1 (C6-C10)	420	25	ug/L	<25
F2 (C10-C16 Hydrocarbons)	150	100	ug/L	<100
F3 (C16-C34 Hydrocarbons)	500	200	ug/L	<200
F4 (C34-C50 Hydrocarbons)	500	200	ug/L	<200
Benzene	5	0.2	ug/L	<0.20
Toluene	22	0.2	ug/L	<0.20
Ethylbenzene	2.4	0.2	ug/L	0.29
Total Xylenes	300	0.4	ug/L	0.47

Parameter Name	Criteria	DL	Location	MW1-19	
			Units	Result	Duplicate
F1 (C6-C10)	420	25	ug/L	<25	<25
F2 (C10-C16 Hydrocarbons)	150	100	ug/L	<100	<100
F3 (C16-C34 Hydrocarbons)	500	200	ug/L	<200	<200
F4 (C34-C50 Hydrocarbons)	500	200	ug/L	<200	<200
Benzene	5	0.2	ug/L	<0.20	<0.20
Toluene	22	0.2	ug/L	<0.20	<0.20
Ethylbenzene	2.4	0.2	ug/L	<0.20	<0.20
Total Xylenes	300	0.4	ug/L	<0.40	<0.40

Parameter Name	Criteria	DL	Location	MW3-19
			Units	Result
F1 (C6-C10)	420	25	ug/L	<25
F2 (C10-C16 Hydrocarbons)	150	100	ug/L	<100
F3 (C16-C34 Hydrocarbons)	500	200	ug/L	<200
F4 (C34-C50 Hydrocarbons)	500	200	ug/L	<200
Benzene	5	0.2	ug/L	<0.20
Toluene	22	0.2	ug/L	<0.20
Ethylbenzene	2.4	0.2	ug/L	<0.20
Total Xylenes	300	0.4	ug/L	<0.40



Client
WHITE SQUADRON DEVELOPMENT CORPORATION
6119 TRAFALGAR ROAD, MILTON

Figure Title
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
AERIAL DISTRIBUTION OF PETROLEUM HYDROCARBONS IN GROUNDWATER

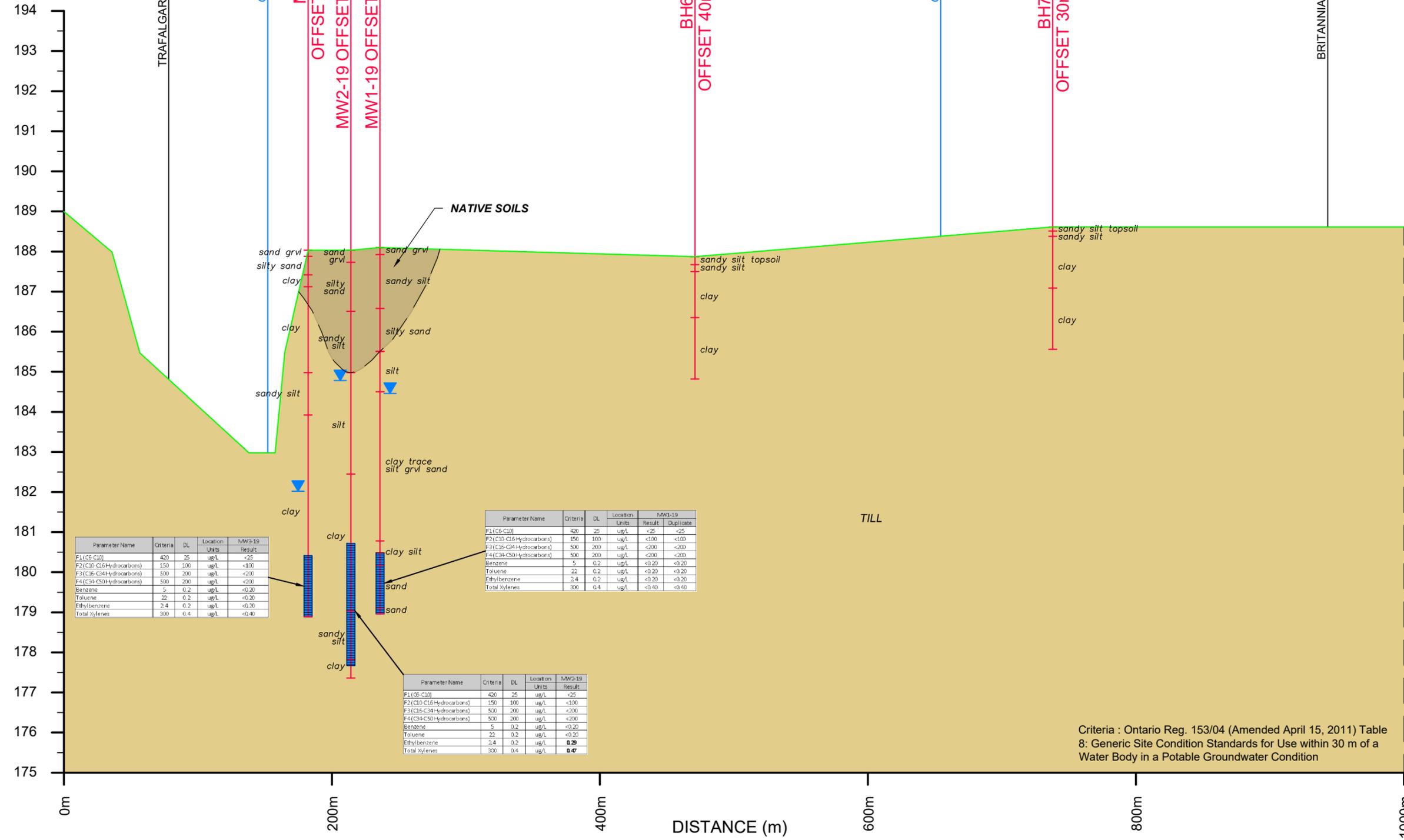
Drawn KL	Checked KL	Date MAY 2025	Figure No. 17
Scale 1:1000	Project No. 300043649		

A
WEST
ELEVATION
(m amsl)

APPROXIMATE PROPERTY LIMITS

A'
EAST

LEGEND



- WELL LOCATION & NUMBER
- EXISTING GROUND PROFILE
- GEOLOGICAL STRATIGRAPHY
- STATIC WATER LEVEL (July 31, 2019)
- GROUNDWATER SAMPLE - DOES NOT EXCEED TABLE 8 CRITERIA
- GROUNDWATER SAMPLE - EXCEEDS TABLE 8 CRITERIA

Horizontal Scale: 1:3,000
Vertical Scale: 1:100
Vertical Exaggeration: 30X

Parameter Name	Criteria	DL	Location Units	MW3-19 Result
F1 (C6-C10)	420	25	ug/L	<25
F2 (C10-C16 Hydrocarbons)	150	100	ug/L	<100
F3 (C16-C24 Hydrocarbons)	500	200	ug/L	<200
F4 (C24-C50 Hydrocarbons)	500	200	ug/L	<200
Benzene	5	0.2	ug/L	<0.20
Toluene	22	0.2	ug/L	<0.20
Ethylbenzene	2.4	0.2	ug/L	<0.20
Total Xylenes	300	0.4	ug/L	<0.40

Parameter Name	Criteria	DL	Location Units	MW1-19 Result	Duplicates
F1 (C6-C10)	420	25	ug/L	<25	<25
F2 (C10-C16 Hydrocarbons)	150	100	ug/L	<100	<100
F3 (C16-C24 Hydrocarbons)	500	200	ug/L	<200	<200
F4 (C24-C50 Hydrocarbons)	500	200	ug/L	<200	<200
Benzene	5	0.2	ug/L	<0.20	<0.20
Toluene	22	0.2	ug/L	<0.20	<0.20
Ethylbenzene	2.4	0.2	ug/L	<0.20	<0.20
Total Xylenes	300	0.4	ug/L	<0.40	<0.40

Parameter Name	Criteria	DL	Location Units	MW2-19 Result
F1 (C6-C10)	420	25	ug/L	<25
F2 (C10-C16 Hydrocarbons)	150	100	ug/L	<100
F3 (C16-C24 Hydrocarbons)	500	200	ug/L	<200
F4 (C24-C50 Hydrocarbons)	500	200	ug/L	<200
Benzene	5	0.2	ug/L	<0.20
Toluene	22	0.2	ug/L	<0.20
Ethylbenzene	2.4	0.2	ug/L	0.29
Total Xylenes	300	0.4	ug/L	0.47

Criteria : Ontario Reg. 153/04 (Amended April 15, 2011) Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition



Client
**WHITE SQUADRON
DEVELOPMENT CORPORATION**
6119 TRAFALGAR ROAD, MILTON

Figure Title
**PHASE TWO
ENVIRONMENTAL SITE ASSESSMENT**
PETROLEUM HYDROCARBONS DISTRIBUTION IN
GROUNDWATER - CROSS SECTION A-A'

Drawn KL	Checked KL	Date MAY 2025	Figure No.
Scale 1:3,000	Project No. 300043649		18

B
SOUTHWEST
ELEVATION
(m amsl)

B'
NORTHEAST

APPROXIMATE PROPERTY LIMITS

LEGEND

194
193
192
191
190
189
188
187
186
185
184
183
182
181
180
179
178
177
176
175

- 5893 WELL LOCATION & NUMBER
- EXISTING GROUND PROFILE
- silty sand GEOLOGICAL STRATIGRAPHY
- STATIC WATER LEVEL (July 31, 2019)
- GROUNDWATER SAMPLE - DOES NOT EXCEED TABLE 8 CRITERIA
- WELL SCREEN
- GROUNDWATER SAMPLE - EXCEEDS TABLE 8 CRITERIA

Horizontal Scale: 1:3,000
Vertical Scale: 1:100
Vertical Exaggeration: 30X

Parameter Name	Criteria	DL	Location Units	MW3-19 Result
F1(C6-C10)	420	25	ug/L	<25
F2(C10-C15 Hydrocarbons)	150	100	ug/L	<100
F3(C16-C24 Hydrocarbons)	500	200	ug/L	<200
F4(C25-C50 Hydrocarbons)	500	200	ug/L	<200
Benzene	5	0.2	ug/L	<0.20
Toluene	22	0.2	ug/L	<0.20
Ethylbenzene	2.4	0.2	ug/L	<0.20
Total Xylenes	300	0.4	ug/L	<0.40

Parameter Name	Criteria	DL	Location Units	MW1-19 Result	Duplicate
F1(C6-C10)	420	25	ug/L	<25	<25
F2(C10-C15 Hydrocarbons)	150	100	ug/L	<100	<100
F3(C16-C24 Hydrocarbons)	500	200	ug/L	<200	<200
F4(C25-C50 Hydrocarbons)	500	200	ug/L	<200	<200
Benzene	5	0.2	ug/L	<0.20	<0.20
Toluene	22	0.2	ug/L	<0.20	<0.20
Ethylbenzene	2.4	0.2	ug/L	<0.20	<0.20
Total Xylenes	300	0.4	ug/L	<0.40	<0.40

Parameter Name	Criteria	DL	Location Units	MW2-19 Result
F1(C6-C10)	420	25	ug/L	<25
F2(C10-C15 Hydrocarbons)	150	100	ug/L	<100
F3(C16-C24 Hydrocarbons)	500	200	ug/L	<200
F4(C25-C50 Hydrocarbons)	500	200	ug/L	<200
Benzene	5	0.2	ug/L	<0.20
Toluene	22	0.2	ug/L	<0.20
Ethylbenzene	2.4	0.2	ug/L	0.29
Total Xylenes	300	0.4	ug/L	0.47

Criteria : Ontario Reg. 153/04 (Amended April 15, 2011) Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition



Client
WHITE SQUADRON DEVELOPMENT CORPORATION
6119 TRAFALGAR ROAD, MILTON

Figure Title
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
PETROLEUM HYDROCARBONS DISTRIBUTION IN GROUNDWATER - CROSS SECTION B-B'

Drawn KL	Checked KL	Date MAY 2025	Figure No. 19
Scale 1:3,000	Project No. 300043649		



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Appendix A

Land Registry Records and Survey

LAND
REGISTRY
OFFICE #20

24938-0165 (LT)

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PART LOT 6 CONCESSION 8 TRAFALGAR NEW SURVEY BEING PART 1 PLAN 20R20642 SAVE AND EXCEPT PART 5 PLAN 20R20955; SUBJECT TO AN EASEMENT IN GROSS AS IN HR1447450; TOWN OF MILTON

PROPERTY REMARKS: FOR THE PURPOSE OF THE QUALIFIER THE DATE OF ABSOLUTE TITLE IS 2016 10 26.

ESTATE/QUALIFIER:
FEE SIMPLE
LT ABSOLUTE PLUS

RECENTLY:
DIVISION FROM 24938-0151

PIN CREATION DATE:
2019/08/12

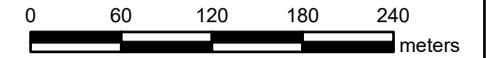
OWNERS' NAMES
WHITE SQUADRON DEVELOPMENT CORPORATION

CAPACITY SHARE
ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2019/08/12 **						
**SUBJECT TO SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPHS 3 AND 14 AND *						
** PROVINCIAL SUCCESSION DUTIES AND EXCEPT PARAGRAPH 11 AND ESCHEATS OR FORFEITURE **						
** TO THE CROWN UP TO THE DATE OF REGISTRATION WITH AN ABSOLUTE TITLE. **						
H774555	1999/01/29	TRANSFER	\$990,000	KHANNA, RANBIR S.	WHITE SQUADRON DEVELOPMENT CORPORATION	C
20R20642	2016/10/19	PLAN REFERENCE				C
HR1404773	2016/10/26	APL ABSOLUTE TITLE		WHITE SQUADRON DEVELOPMENT CORPORATION		C
20R20660	2016/11/16	PLAN REFERENCE				C
HR1447450	2017/04/19	TRANSFER EASEMENT	\$2	WHITE SQUADRON DEVELOPMENT CORPORATION	THE REGIONAL MUNICIPALITY OF HALTON	C
HR1741988	2020/11/05	NOTICE	\$2	WHITE SQUADRON DEVELOPMENT CORPORATION	THE REGIONAL MUNICIPALITY OF HALTON	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

SCALE



PROPERTY INDEX MAP
HALTON(No. 20)

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	0449
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

THIS IS NOT A PLAN OF SURVEY

NOTES

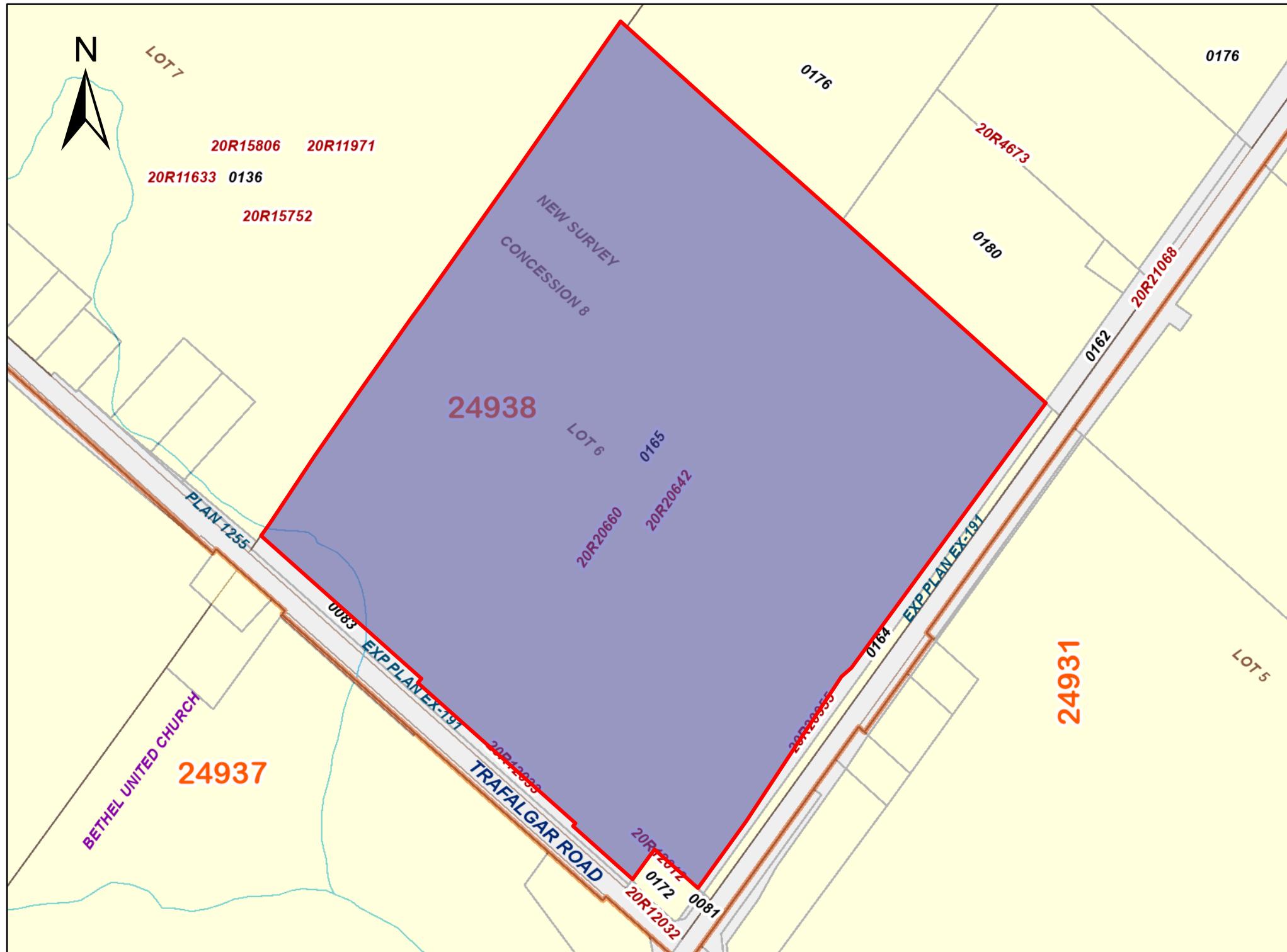
REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

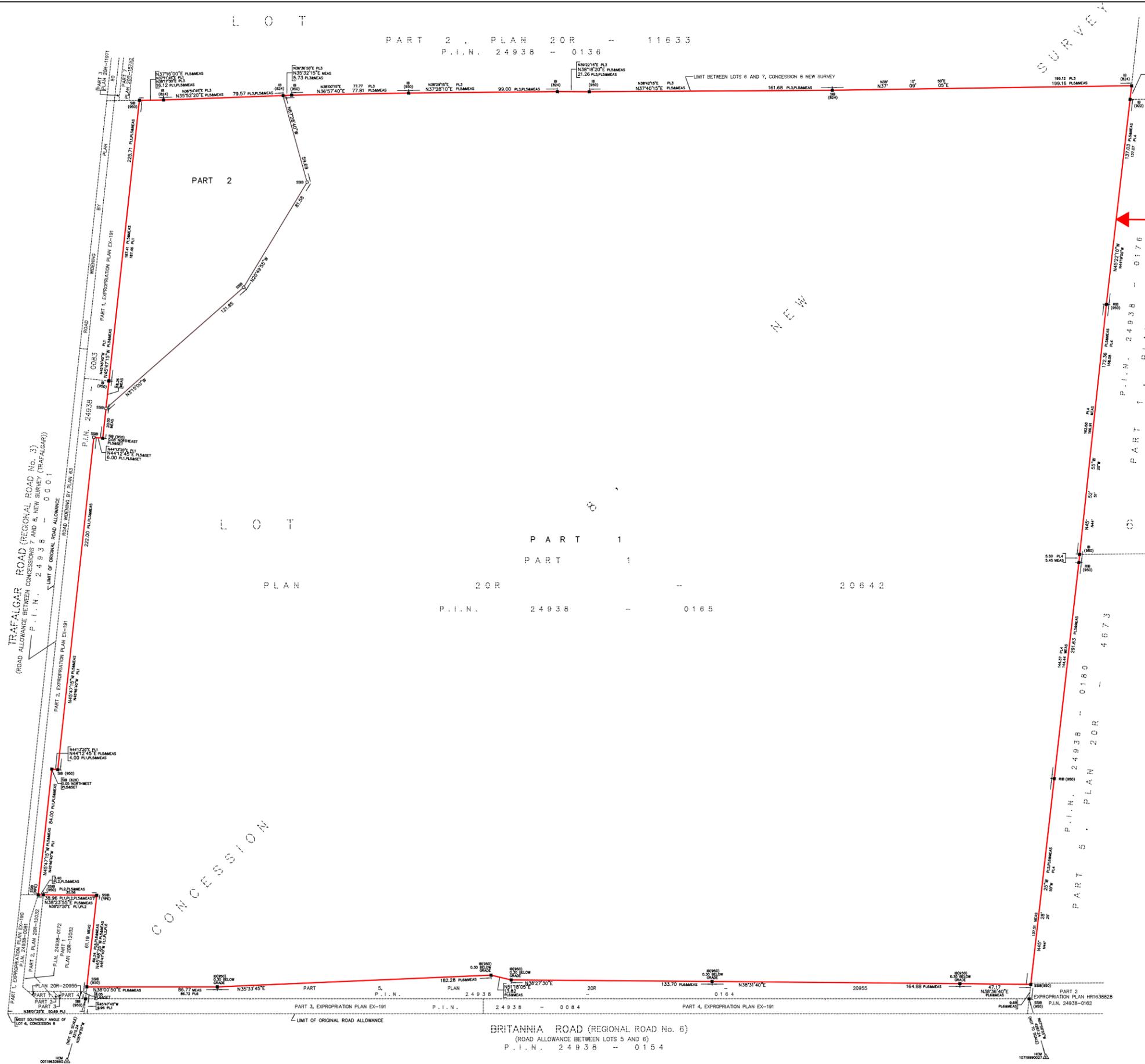
THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED





SITE BOUNDARY

**PLAN OF SURVEY OF
PART OF LOT 6
CONCESSION 8, NEW SURVEY
(GEOGRAPHIC TOWNSHIP OF TRAFALGAR)
TOWN OF MILTON
REGIONAL MUNICIPALITY OF HALTON**

SCALE 1:1000
 P-R-E SURVEYING LTD., O.L.S.
 METRIC
 DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND
 CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

- NOTES**
- DENOTES MONUMENT SET
 - DENOTES MONUMENT FOUND
 - SSB DENOTES SHORT STANDARD IRON BAR
 - SB DENOTES STANDARD IRON BAR
 - RIB DENOTES ROUND IRON BAR
 - IB DENOTES IRON BAR
 - P.I.N. DENOTES PROPERTY IDENTIFIER NUMBER
 - PL1 DENOTES EXPROPRIATION PLAN EX-191
 - PL2 DENOTES PLAN 20R-12032
 - PL3 DENOTES PLAN 20R-11633
 - PL4 DENOTES PLAN 20R-4673
 - PL5 DENOTES PLAN 20R-20642
 - PL6 DENOTES PLAN 20R-20955
 - (B24) DENOTES A.T. MCLAREN, O.L.S.
 - (S50) DENOTES F.G. CUNNINGHAM, O.L.S.
 - (N) DENOTES NOT IDENTIFIED
 - SCP DENOTES SPECIFIED CONTROL POINT

BEARINGS ARE GRID, UTM ZONE 17, NAD83 (ORIGINAL), DERIVED FROM:
 SCP 0011983360 NORTH 481845.739 EAST 600361.085
 SCP 1071999027 NORTH 4819957.108 EAST 602863.022

COORDINATES ARE UTM ZONE 17, NAD83 (ORIGINAL), TO URBAN ACCURACY PER
 SEC. 14 (2) OF OREG. 216/10, AND CANNOT, IN THEMSELVES, BE USED TO
 RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY
 THE COMBINED SCALE FACTOR OF 0.999680.

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

- THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
- THE SURVEY WAS COMPLETED ON THE 15th DAY OF MAY 2021.

DATE MAY 17th 2021.

R. Donbruder
 R. DONBRUDER
 ONTARIO LAND SURVEYOR



fpe R-P-E SURVEYING LTD.
 ONTARIO LAND SURVEYORS
 PLAN SUBMISSION FORM
 2154004

THIS PLAN IS NOT VALID UNLESS IT IS AN UNREVOKED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1038, SECTION 2(2).

643 Christie Road, Suite 7
 Woodbridge, Ontario L4L 8A3
 Tel. (416) 635-5000 Fax (416) 635-5001
 Tel. (905) 264-0881 Fax (905) 264-2099
 Website: www.r-pe.ca
 DRAWN: A.O. CHECKED: R.D.
 JOB No. 06-300 CAD FILE No. 06300R02-RSC
 Mar 26, 2021- 09:30:00

BRITANNIA ROAD (REGIONAL ROAD No. 6)
 (ROAD ALLOWANCE BETWEEN LOTS 5 AND 6)
 P.I.N. 24938 - 0154



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Appendix B

Sampling and Analysis Plan

PHASE TWO ESA SAMPLING PLAN - 6119 TRAFALGAR ROAD, MILTON, ONTARIO

Monitoring Well	Location	PCA	Rationale	Proposed Drilling Depth	Proposed Soil Sampling Depths	Soil & Groundwater Analysis
MW1-19	APEC-1 - ASTs	PCA 28	Investigate the quality of soil and groundwater at former ASTs	10 m	1.0 - 1.5 m	PHCs, BTEX
					TBD	PHCs, BTEX
					Top of water table	PHCs, BTEX
MW2-19	APEC-2 - Pole Barn	PCA 27	Investigate the quality of soil and groundwater at former Pole Barn	10 m	TBD	PHCs, BTEX, VOCs
					Top of water table	PHCs, BTEX, VOCs
MW3-19	APEC-3 - Former Farm House	PCA 28	Investigate the quality of soil and groundwater at former Farm House	10 m	1.0 - 1.5 m	PHCs, BTEX
					TBD	PHCs, BTEX
					Top of water table	PHCs, BTEX

Boreholes	Location	PCA	Rationale	Target Drilling Depth	Proposed Soil Sampling Depths	Soil Analysis
BH4-19	APEC-2 - Pole Barn	PCA 27	Investigate the quality of soil at former Pole Barn	3 m	1.0 - 1.5 m	PHCs, BTEX, VOCs
					2.5 - 3.0 m	PHCs, BTEX, VOCs
BH5-19	APEC-4 - Agricultural Fields	PCA 40	Investigate the quality of soil in agricultural field	3 m	1.0 - 1.5 m	OCs
					2.5 - 3.0 m	OCs
BH6-19	APEC-4 - Agricultural Fields	PCA 40	Investigate the quality of soil in agricultural field	3 m	1.0 - 1.5 m	OCs
					2.5 - 3.0 m	OCs
BH7-19	APEC-4 - Agricultural Fields	PCA 40	Investigate the quality of soil in agricultural field	3 m	1.0 - 1.5 m	OCs
					2.5 - 3.0 m	OCs
BH8-19	APEC-4 - Agricultural Fields	PCA 40	Investigate the quality of soil in agricultural field	3 m	1.0 - 1.5 m	OCs
					2.5 - 3.0 m	OCs

Test Pits	Location	PCA	Rationale	Proposed Soil Sampling Depths	Soil Analysis
GS9-19	APEC-2 - Pole Barn	PCA 27	Investigate quality of shallow soil at former pole barn	0.5 m	PHCs, BTEX, VOCs
GS10-19	APEC-2 - Pole Barn	PCA 27	Investigate quality of shallow soil at former pole barn	0.5 m	PHCs, BTEX, VOCs
GS11-19	APEC-2 - Pole Barn	PCA 27	Investigate quality of shallow soil at former pole barn	0.5 m	PHCs, BTEX, VOCs
GS12-19	APEC-2 - Pole Barn	PCA 27	Investigate quality of shallow soil at former pole barn	0.5 m	PHCs, BTEX, VOCs
SS-1	APEC-4 - Agricultural Fields	PCA 40	Investigate the quality of shallow soil in agricultural field	0.5 m	OCs
SS-2	APEC-4 - Agricultural Fields	PCA 40	Investigate the quality of shallow soil in agricultural field	0.5 m	OCs
SS-3	APEC-4 - Agricultural Fields	PCA 40	Investigate the quality of shallow soil in agricultural field	0.5 m	OCs
SS-4	APEC-1 - ASTs	PCA 28	Investigate the quality of shallow soil in vicinity of former ASTs	0.5 m	PHCs, BTEX
SS-5	APEC-1 - ASTs	PCA 28	Investigate the quality of shallow soil in vicinity of former ASTs	0.5 m	PHCs, BTEX
SS-6	APEC-2 - Pole Barn	PCA 27	Investigate quality of shallow soil at former pole barn	0.5 m	PHCs, BTEX
SS-7	APEC-2 - Pole Barn	PCA 27	Investigate quality of shallow soil at former pole barn	0.5 m	PHCs, BTEX
SS-8	APEC-3 - Former Farm House	PCA 28	Investigate the quality of shallow soil at farmhouse, potential fuel oil tank	0.5 m	PHCs, BTEX



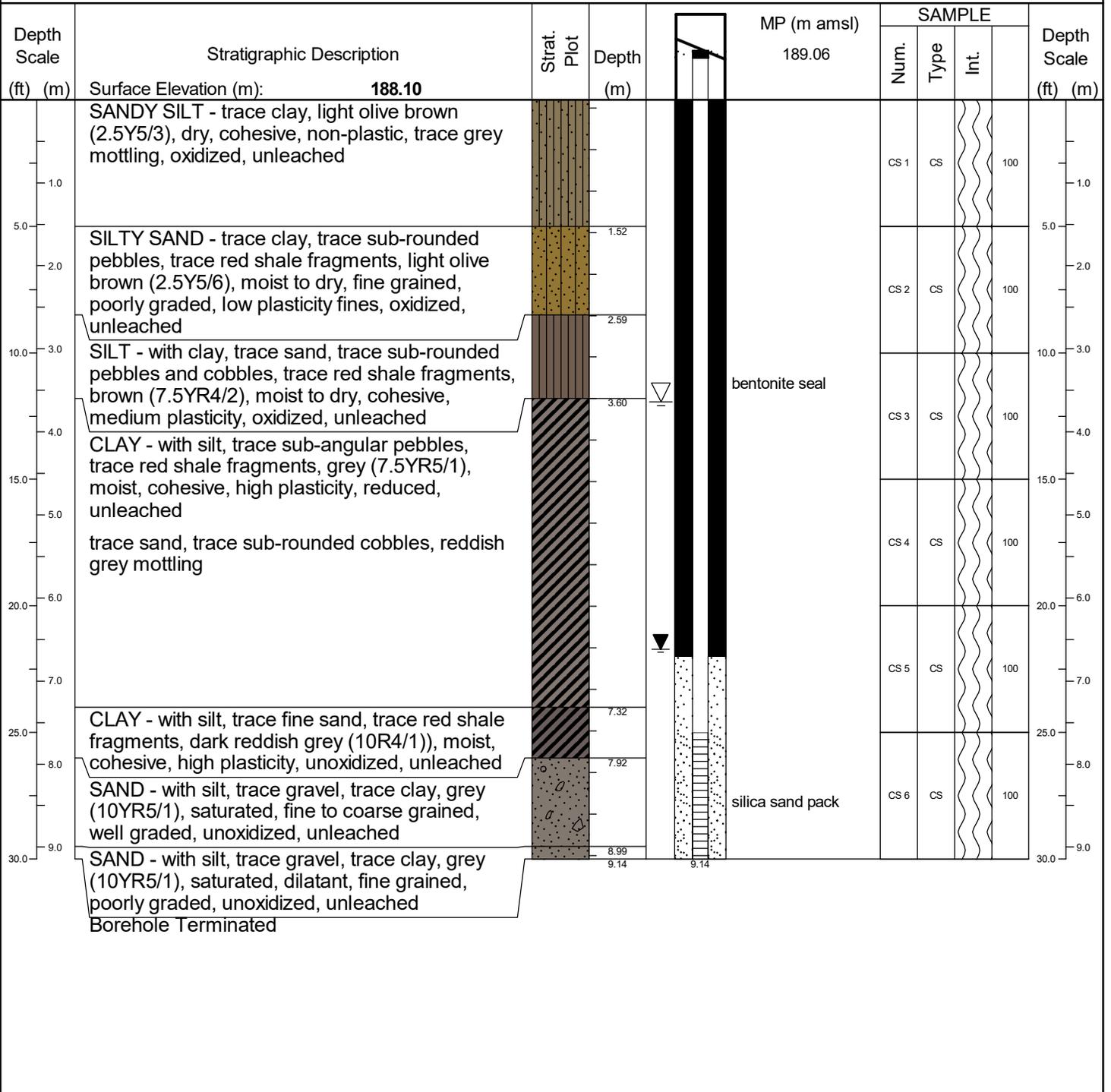
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Appendix C

Stratigraphic Borehole Logs

Client: Mattamy Development Corp.	Project Name: Phaser Two ESA	Logged by: I. Murphy
Project No.: 300043649	Location: 6119 Trafalgar Rd, Milton	Ground (m amsl): 188.10
Drilling Co.: CMT Drilling Inc.	Date Started: 7/10/2019	Static Water Level Depth (m): 3.64
Drilling Method: Geo Probe	Date Completed: 7/10/2019	Sand Pack Depth (m) : 185.81 - 179.10



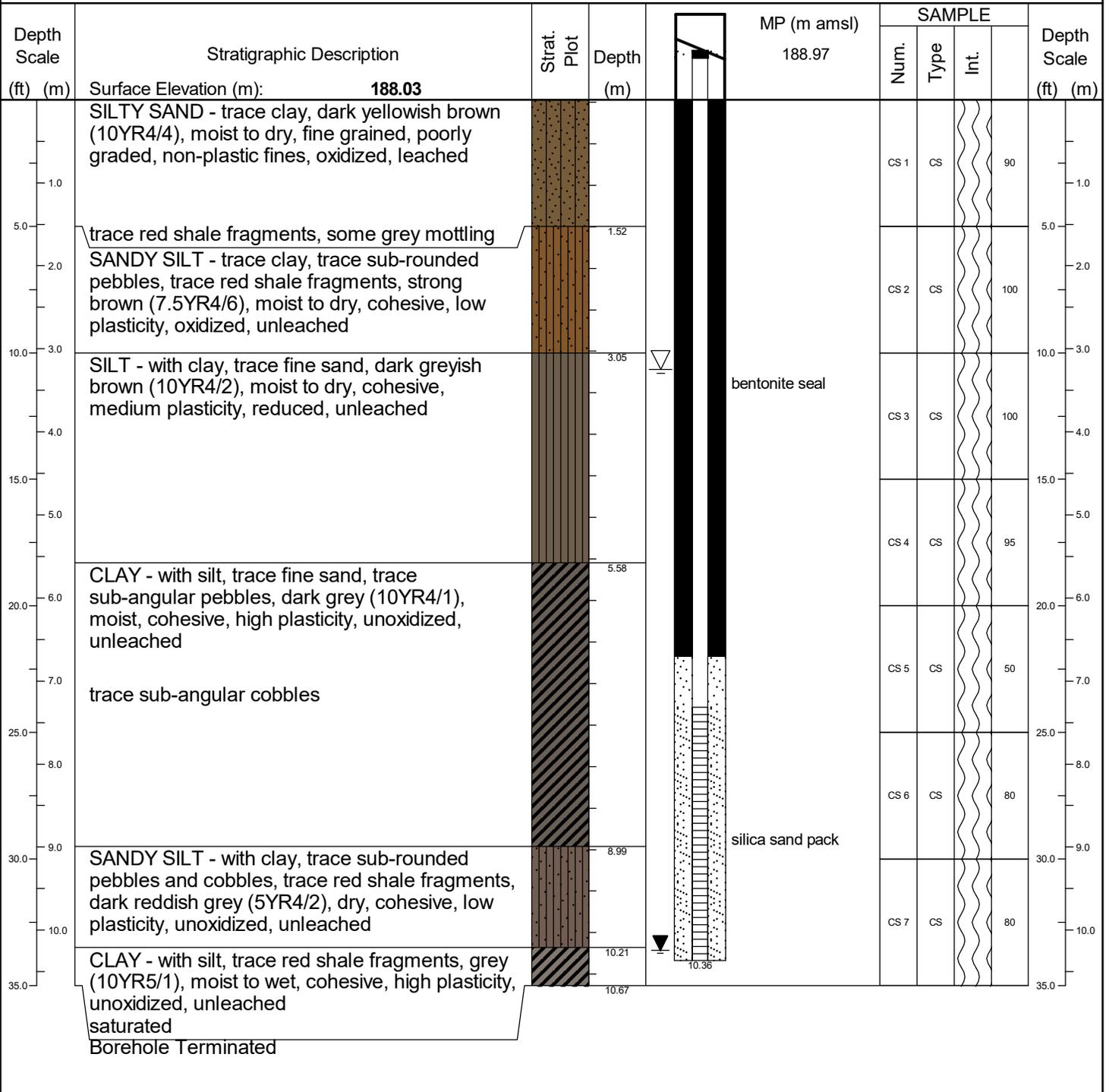
Prepared By: **I. Murphy** Checked By: **D. Marks** Date Prepared: **7/15/2019**

This borehole log was prepared for hydrogeological and/or environmental purposes and does not necessarily contain information suitable for a geotechnical assessment of the subsurface conditions. Borehole data requires interpretation by R. J. Burnside & Associates Limited personnel before use by others.

LEGEND	MONITORING WELL DATA	SAMPLE TYPE	AC Auger Cutting	SS Split Spoon
Water found @ time of drilling	Pipe: 38.1 mm dia. PVC	CS Continuous	AR Air Rotary	WC Wash Cuttings
Static Water Level - 7/31/2018	Screen: 38.1 mm dia. PVC	RC Rock Core		

2019_BHLOG_COLOUR C:\USERS\MURPHY\RJB\300043649 - RSC - 6119 TRAFALGAR ROAD - DOCUMENTS\GENERAL\02 - TECHNICAL AND PROJECT DOCUMENTS\REFERENCE MATERIAL\BOREHOLE LOGS\043649 6119 TRAFALGAR RD BH LOGS.GPJ 2019_1.GDT

Client: Mattamy Development Corp.	Project Name: Phaser Two ESA	Logged by: I. Murphy
Project No.: 300043649	Location: 6119 Trafalgar Rd, Milton	Ground (m amsl): 188.03
Drilling Co.: CMT Drilling Inc.	Date Started: 7/10/2019	Static Water Level Depth (m): 3.25
Drilling Method: Geo Probe	Date Completed: 7/10/2019	Sand Pack Depth (m) : 184.44 - 177.73



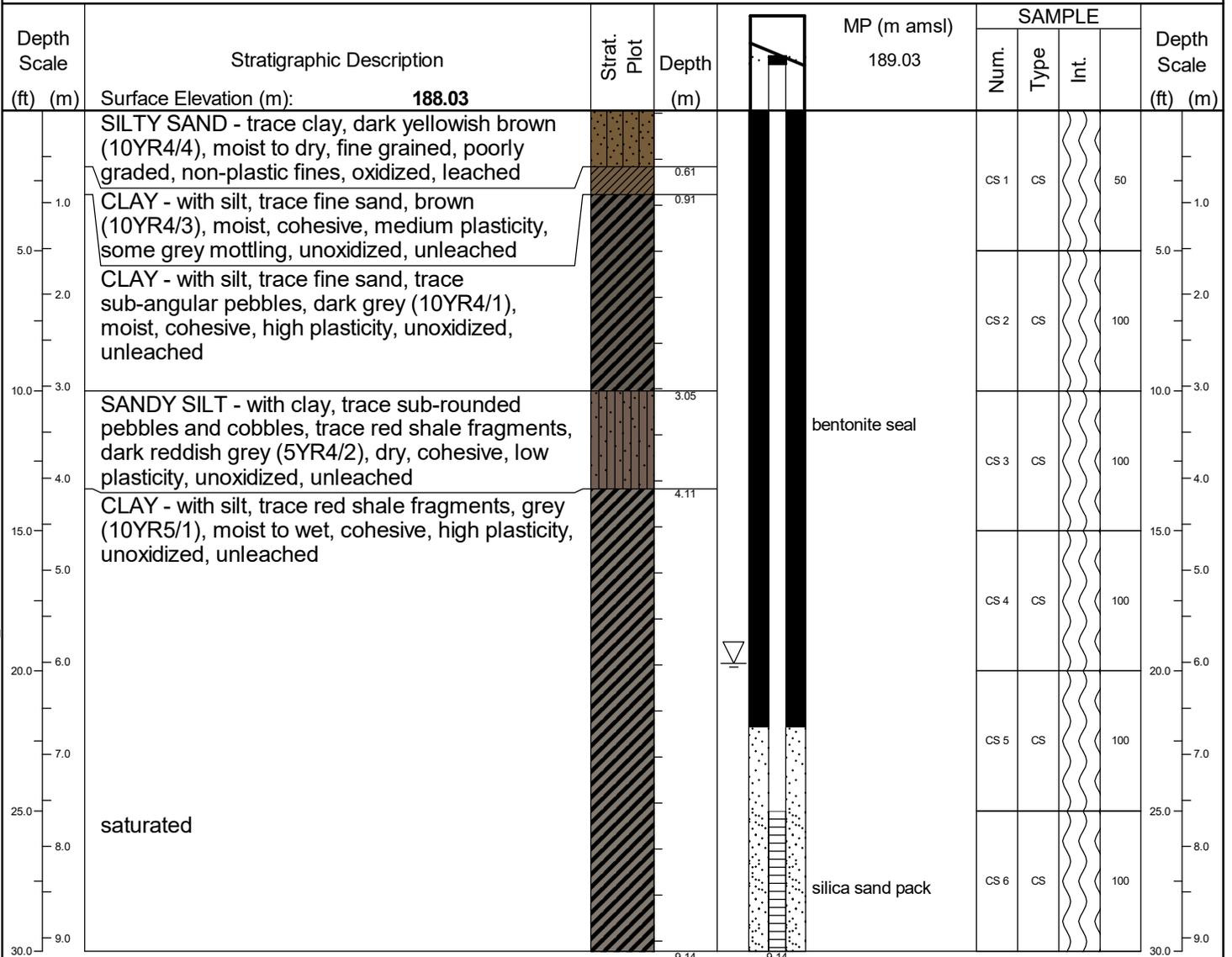
Prepared By: **I. Murphy** Checked By: **D. Marks** Date Prepared: **7/15/2019**

This borehole log was prepared for hydrogeological and/or environmental purposes and does not necessarily contain information suitable for a geotechnical assessment of the subsurface conditions. Borehole data requires interpretation by R. J. Burnside & Associates Limited personnel before use by others.

LEGEND	MONITORING WELL DATA	SAMPLE TYPE	AC  Auger Cutting	SS  Split Spoon
 Water found @ time of drilling	Pipe: 38.1 mm dia. PVC	CS  Continuous	AR  Air Rotary	WC  Wash Cuttings
 Static Water Level - 7/31/2018	Screen: 38.1 mm dia. PVC	RC  Rock Core		

2019_BHLOG_COLOUR C:\USERS\MURPHY\RJB\300043649 - RSC - 6119 TRAFALGAR ROAD - DOCUMENTS\GENERAL\02 - TECHNICAL AND PROJECT DOCUMENTS\REFERENCE MATERIAL\BOREHOLE LOGS\043649_6119 TRAFALGAR RD BH LOGS.GPJ 2019_1.GDT

Client: Mattamy Development Corp.	Project Name: Phaser Two ESA	Logged by: M.Valeriote
Project No.: 300043649	Location: 6119 Trafalgar Rd, Milton	Ground (m amsl): 188.03
Drilling Co.: CMT Drilling Inc.	Date Started: 7/11/2019	Static Water Level Depth (m): 6.01
Drilling Method: Geo Probe	Date Completed: 7/11/2019	Sand Pack Depth (m) : 185.60 - 178.89



Borehole Terminated

 Prepared By: **I.Murphy** Checked By: **D. Marks** Date Prepared: **7/15/2019**

This borehole log was prepared for hydrogeological and/or environmental purposes and does not necessarily contain information suitable for a geotechnical assessment of the subsurface conditions. Borehole data requires interpretation by R. J. Burnside & Associates Limited personnel before use by others.

LEGEND Water found @ time of drilling Static Water Level - 7/31/2018	MONITORING WELL DATA Pipe: 38.1 mm dia. PVC Screen: 38.1 mm dia. PVC	SAMPLE TYPE AC Auger Cutting	SS Split Spoon
		CS Continuous	AR Air Rotary
		RC Rock Core	WC Wash Cuttings

2019_BHLOG_COLOUR C:\USERS\MURPHY\RJB300043649 - RSC - 6119 TRAFALGAR ROAD - DOCUMENTS\GENERAL\02 - TECHNICAL AND PROJECT DOCUMENTS\REFERENCE MATERIAL\BOREHOLE LOGS\043649 6119 TRAFALGAR RD BH LOGS.GPJ 2019_1.GDT

Client: Mattamy Development Corp.	Project Name: Phaser Two ESA	Logged by: M.Valeriotte
Project No.: 300043649	Location: 6119 Trafalgar Rd, Milton	Ground (m amsl): 188.01
Drilling Co.: CMT Drilling Inc.	Date Started: 7/11/2019	Static Water Level Depth (m):
Drilling Method: Geo Probe	Date Completed: 7/11/2019	Sand Pack Depth (m):

2019_BHLOG_COLOUR_C:\USERS\MURPHY\RJB\043649 - RSC - 6119 TRAFALGAR ROAD - DOCUMENTS\GENERAL\REFERENCE MATERIALS\BOREHOLE LOGS\043649 6119 TRAFALGAR RD BH LOGS.GPJ\RJB_BOREHOLE1.GDT 8/1/19

Depth Scale (ft) (m)	Stratigraphic Description	Strat. Plot	Depth (m)	SAMPLE			Depth Scale (ft) (m)
				Num.	Type	Int.	
	Surface Elevation (m): 188.01						
1.0	CLAY - with silt, trace sand & gravel, brown (10YR4/3), dry to moist, cohesive, low plasticity, oxidized, unleached						100
5.0							
2.0	CLAY - with silt, trace sand, brown (10YR4/3), moist, cohesive, low plasticity, oxidized, unleached some black staining, slight PHC odour		1.52	bentonite seal			100
3.0							
10.0	Borehole Terminated		3.05				10.0

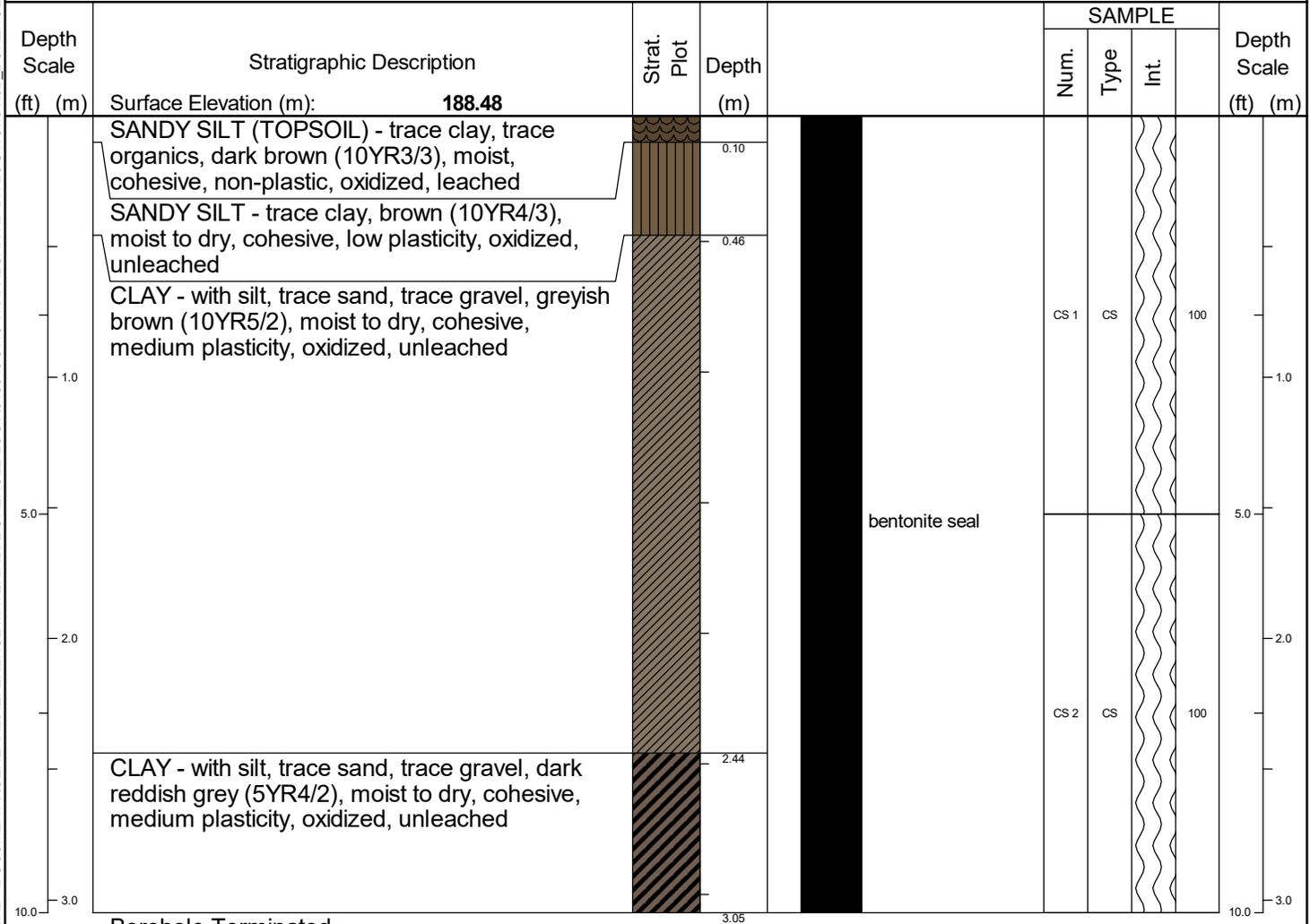
Prepared By: **I.Murphy** Checked By: **D. Marks** Date Prepared: **7/15/2019**

This borehole log was prepared for hydrogeological and/or environmental purposes and does not necessarily contain information suitable for a geotechnical assessment of the subsurface conditions. Borehole data requires interpretation by R. J. Burnside & Associates Limited personnel before use by others.

LEGEND  Water found @ time of drilling  Static Water Level -	MONITORING WELL DATA Pipe: Screen:	SAMPLE TYPE AC  Auger Cutting CS  Continuous RC  Rock Core SS  Split Spoon AR  Air Rotary WC  Wash Cuttings
---	---	--

Client: Mattamy Development Corp.	Project Name: Phaser Two ESA	Logged by: M.Valeriotte
Project No.: 300043649	Location: 6119 Trafalgar Rd, Milton	Ground (m amsl): 188.48
Drilling Co.: CMT Drilling Inc.	Date Started: 7/11/2019	Static Water Level Depth (m):
Drilling Method: Geo Probe	Date Completed: 7/11/2019	Sand Pack Depth (m):

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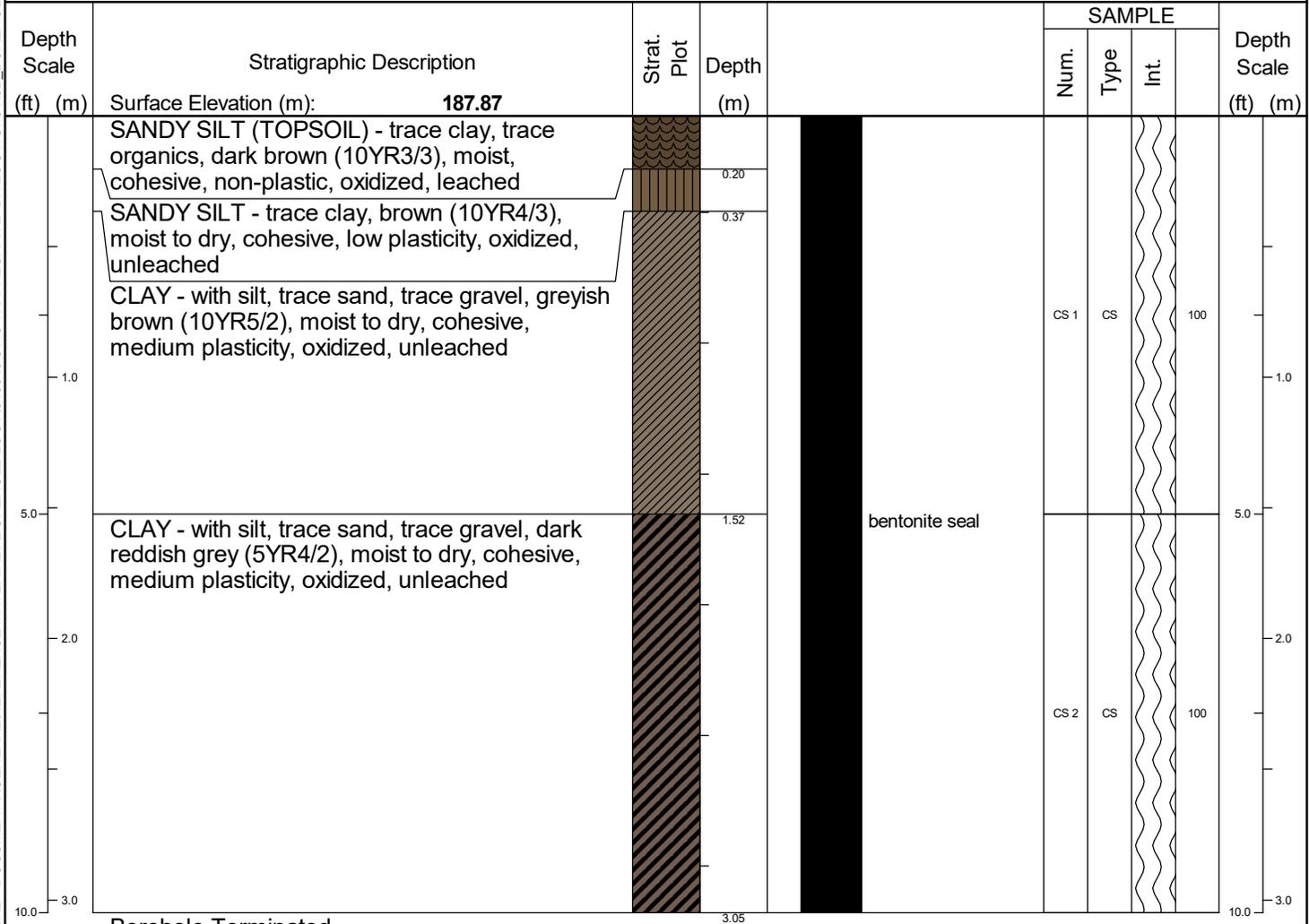


Prepared By: I.Murphy	Checked By: D. Marks	Date Prepared: 7/15/2019
This borehole log was prepared for hydrogeological and/or environmental purposes and does not necessarily contain information suitable for a geotechnical assessment of the subsurface conditions. Borehole data requires interpretation by R. J. Burnside & Associates Limited personnel before use by others.		

LEGEND Water found @ time of drilling Static Water Level -	MONITORING WELL DATA Pipe: Screen:	SAMPLE TYPE AC Auger Cutting CS Continuous RC Rock Core SS Split Spoon AR Air Rotary WC Wash Cuttings
---	---	--

Client: Mattamy Development Corp.	Project Name: Phaser Two ESA	Logged by: M.Valeriotte
Project No.: 300043649	Location: 6119 Trafalgar Rd, Milton	Ground (m amsl): 187.87
Drilling Co.: CMT Drilling Inc.	Date Started: 7/11/2019	Static Water Level Depth (m):
Drilling Method: Geo Probe	Date Completed: 7/11/2019	Sand Pack Depth (m):

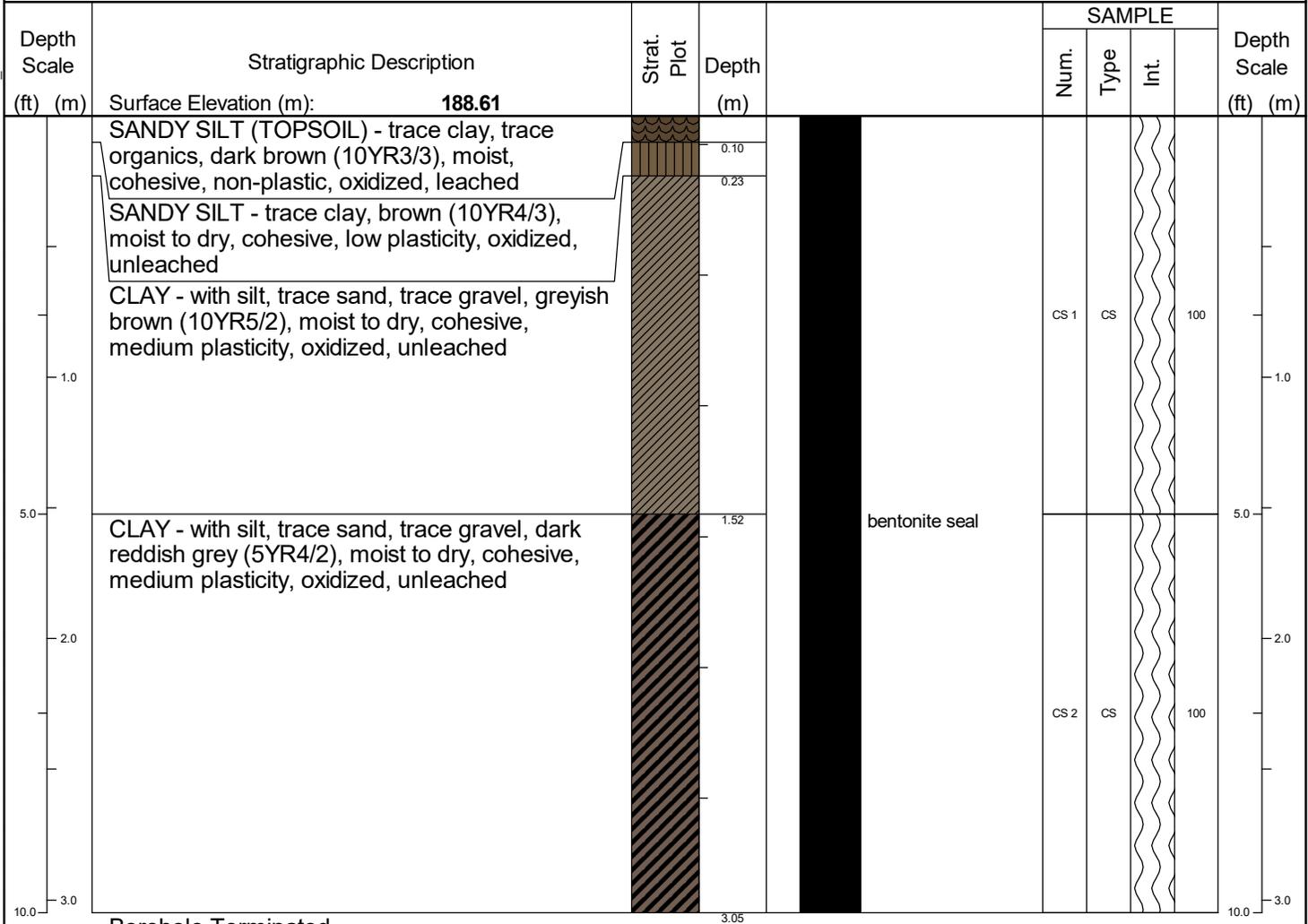
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Prepared By: I.Murphy	Checked By: D. Marks	Date Prepared: 7/15/2019
This borehole log was prepared for hydrogeological and/or environmental purposes and does not necessarily contain information suitable for a geotechnical assessment of the subsurface conditions. Borehole data requires interpretation by R. J. Burnside & Associates Limited personnel before use by others.		

LEGEND Water found @ time of drilling Static Water Level -	MONITORING WELL DATA Pipe: Screen:	SAMPLE TYPE AC Auger Cutting CS Continuous RC Rock Core SS Split Spoon AR Air Rotary WC Wash Cuttings
---	---	--

Client: Mattamy Development Corp.	Project Name: Phaser Two ESA	Logged by: M.Valeriotte
Project No.: 300043649	Location: 6119 Trafalgar Rd, Milton	Ground (m amsl): 188.61
Drilling Co.: CMT Drilling Inc.	Date Started: 7/11/2019	Static Water Level Depth (m):
Drilling Method: Geo Probe	Date Completed: 7/11/2019	Sand Pack Depth (m):



Prepared By: **I.Murphy** Checked By: **D. Marks** Date Prepared: **7/15/2019**

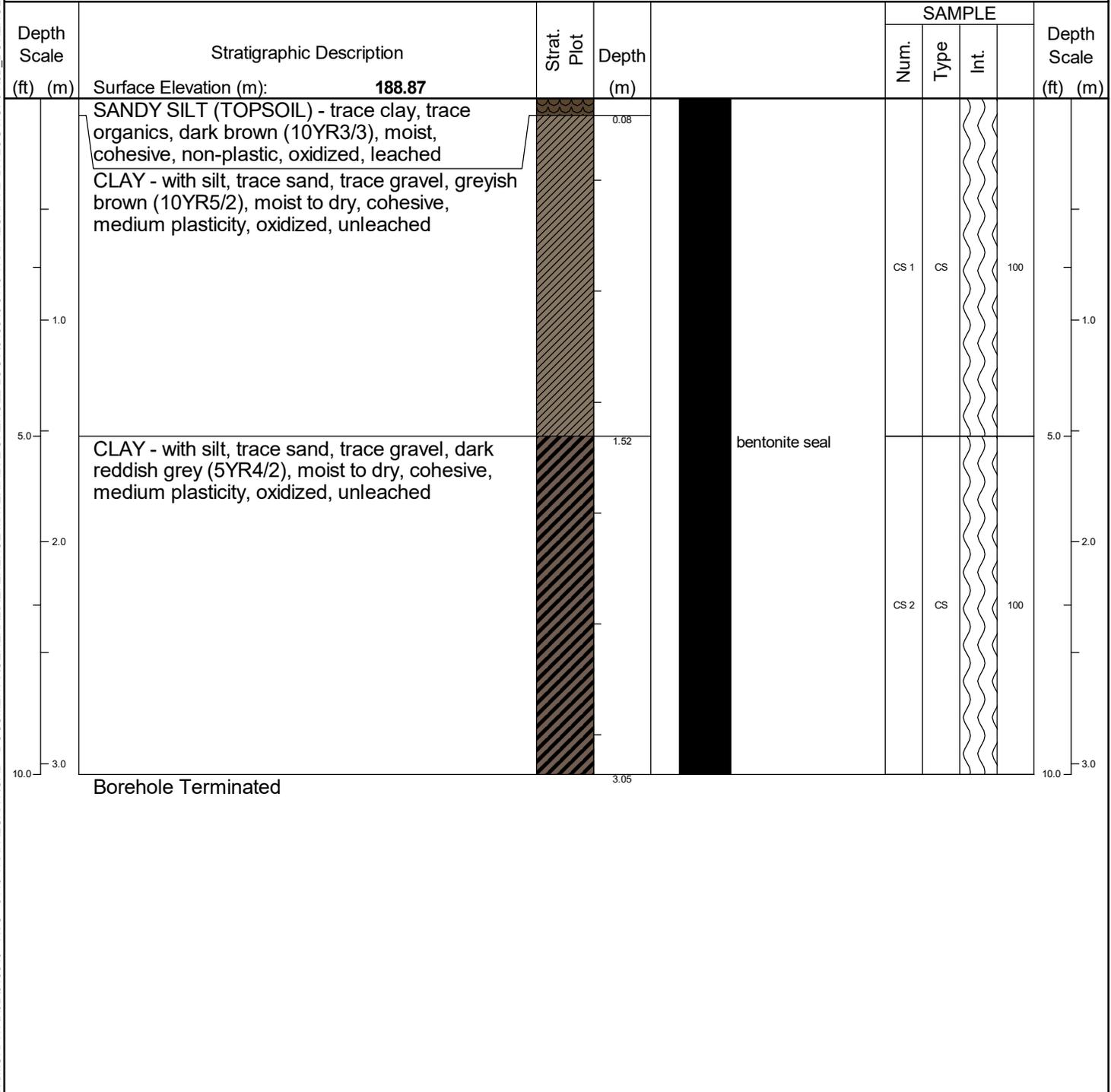
This borehole log was prepared for hydrogeological and/or environmental purposes and does not necessarily contain information suitable for a geotechnical assessment of the subsurface conditions. Borehole data requires interpretation by R. J. Burnside & Associates Limited personnel before use by others.

LEGEND  Water found @ time of drilling  Static Water Level -	MONITORING WELL DATA Pipe: Screen:	SAMPLE TYPE AC  Auger Cutting CS  Continuous RC  Rock Core SS  Split Spoon AR  Air Rotary WC  Wash Cuttings
---	---	--

2019_BHLOG_COLOUR C:\USERS\MURPHY\RJB\043649 - RSC - 6119 TRAFALGAR ROAD - DOCUMENTS\GENERAL\REFERENCE MATERIALS\BOREHOLE LOGS\043649 6119 TRAFALGAR RD BH LOGS.GPJ.RJB_BOREHOLE1.GDT_8/1/19

Client: Mattamy Development Corp.	Project Name: Phaser Two ESA	Logged by: M.Valeriotte
Project No.: 300043649	Location: 6119 Trafalgar Rd, Milton	Ground (m amsl): 188.87
Drilling Co.: CMT Drilling Inc.	Date Started: 7/11/2019	Static Water Level Depth (m):
Drilling Method: Geo Probe	Date Completed: 7/11/2019	Sand Pack Depth (m):

2019_BHLOG_COLOUR_C:\USERS\MURPHY\RJB\043649 - RSC - 6119 TRAFALGAR ROAD - DOCUMENTS\GENERAL\REFERENCE MATERIALS\BOREHOLE LOGS\043649 6119 TRAFALGAR RD BH LOGS.GPJ\RJB_BOREHOLE1.GDT 8/1/19



Prepared By: **I.Murphy** Checked By: **D. Marks** Date Prepared: **7/15/2019**

This borehole log was prepared for hydrogeological and/or environmental purposes and does not necessarily contain information suitable for a geotechnical assessment of the subsurface conditions. Borehole data requires interpretation by R. J. Burnside & Associates Limited personnel before use by others.

LEGEND	MONITORING WELL DATA	SAMPLE TYPE	AC  Auger Cutting	SS  Split Spoon
 Water found @ time of drilling	Pipe:	CS  Continuous	AR  Air Rotary	
 Static Water Level -	Screen:	RC  Rock Core	WC  Wash Cuttings	

**6119 Trafalgar Road
Phase Two ESA**

Monitoring Well Construction Details and Water Levels

Location	Elevations		Well Construction Details				31-Jul-19		
	Ground Surface (m amsl)	Top of Well Casing (m amsl)	Total Depth (m bmp)	Bottom of Monitoring Well (m amsl)	Stickup (m)	Total Depth (m bgs)	Groundwater Level (m bmp)	Groundwater Level (m bgs)	Groundwater Elevation (m amsl)
Monitoring Wells									
MW1-19	188.10	189.06	9.96	179.10	0.96	9.00	4.60	3.64	184.46
MW2-19	188.03	188.97	11.24	177.73	0.94	10.30	4.19	3.25	184.78
MW3-19	188.03	189.03	10.14	178.89	1.00	9.14	7.01	6.01	182.02
Boreholes									
BH4-19	188.01	-	-	-	-	-	-	-	-
BH5-19	188.48	-	-	-	-	-	-	-	-
BH6-19	187.87	-	-	-	-	-	-	-	-
BH7-19	188.61	-	-	-	-	-	-	-	-
BH8-19	188.87	-	-	-	-	-	-	-	-

Notes:
 m amsl = metres above mean sea level
 m bgs = metres below ground surface
 m bmp = metres below measuring point, top of well casing



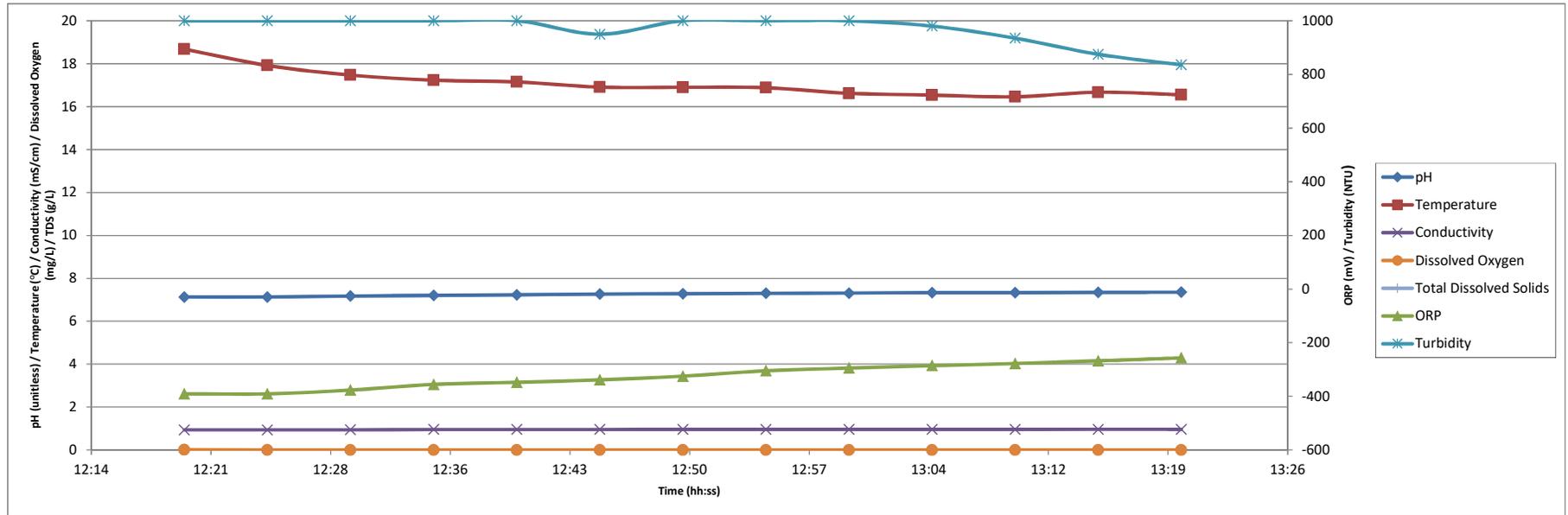
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Appendix D

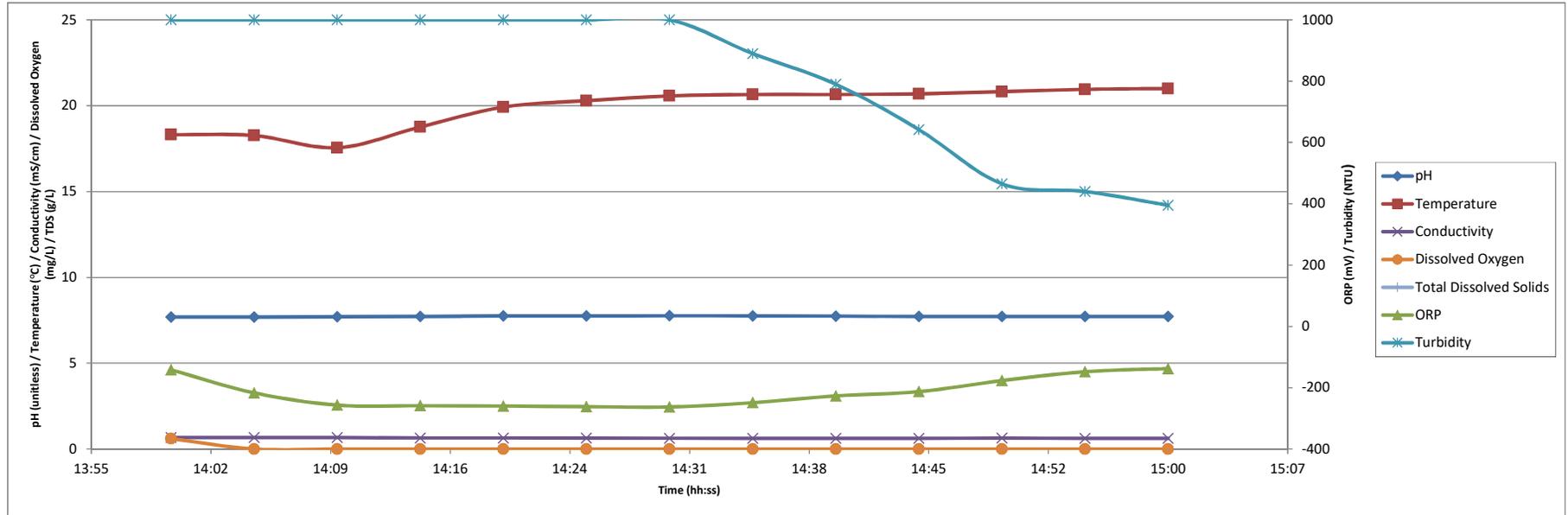
Low Flow Stabilization Records

MW1-19 STABILIZATION RECORD



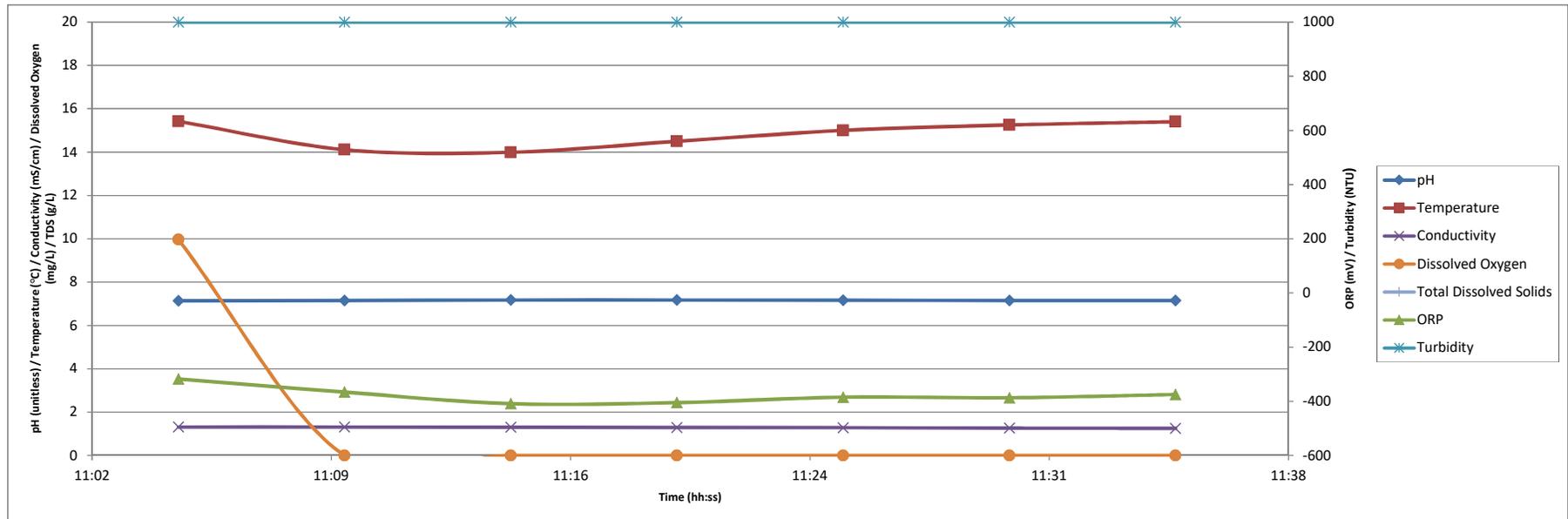
Time	Temperature (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
12:20:00	18.68	7.13	-391	0.935	1000	0.01
12:25:00	17.92	7.13	-391	0.934	1000	0
12:30:00	17.47	7.17	-377	0.939	1000	0
12:35:00	17.23	7.2	-356	0.95	1000	0
12:40:00	17.15	7.23	-348	0.952	1000	0
12:45:00	16.91	7.26	-339	0.952	950	0
12:50:00	16.9	7.28	-325	0.959	1000	0
12:55:00	16.88	7.3	-305	0.954	1000	0
13:00:00	16.62	7.31	-295	0.954	1000	0
13:05:00	16.54	7.33	-286	0.956	980	0
13:10:00	16.46	7.33	-278	0.959	935	0
13:15:00	16.67	7.34	-268	0.962	875	0
13:20:00	16.55	7.35	-257	0.959	836	0

MW2-19 STABILIZATION RECORD



Time	Temperature (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
14:00:00	18.31	7.69	-142	0.662	1000	0.6
14:05:00	18.26	7.69	-217	0.667	1000	0
14:10:00	17.55	7.7	-257	0.668	1000	0
14:15:00	18.76	7.72	-259	0.64	1000	0
14:20:00	19.92	7.75	-260	0.64	1000	0
14:25:00	20.29	7.75	-262	0.631	1000	0
14:30:00	20.57	7.76	-263	0.623	1000	0
14:35:00	20.65	7.75	-249	0.619	890	0
14:40:00	20.65	7.74	-227	0.622	790	0
14:45:00	20.69	7.72	-213	0.622	642	0
14:50:00	20.82	7.72	-177	0.631	465	0
14:55:00	20.95	7.72	-148	0.62	440	0
15:00:00	21	7.72	-138	0.618	395	0

MW3-19 STABILIZATION RECORD



Time	Temperature (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
11:05:00	15.42	7.14	-318	1.31	1000	9.96
11:10:00	14.11	7.15	-366	1.31	1000	0
11:15:00	13.99	7.17	-409	1.3	1000	0
11:20:00	14.5	7.17	-405	1.29	1000	0
11:25:00	15	7.16	-385	1.28	1000	0
11:30:00	15.25	7.15	-387	1.26	1000	0
11:35:00	15.4	7.15	-375	1.25	1000	0



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Appendix E

Grain Size Analysis and Particle Distribution Report



CMT Engineering Inc.

CONSULTING ENGINEERS

1011 Industrial Crescent, Unit 1
St. Clements, Ontario N0B 2M0
Tel: 519-699-5775
Fax: 519-699-4664
www.cmtinc.net

July 17, 2019

15-494.R09

R. J. Burnside & Associates Limited
15 Townline
Orangeville, ON
L9W 3R4

Attn: Mr. Ian Murphy

Dear Sir:

**Re: Laboratory Test Results
Grain Size Analyses
6119 Trafalger Road, Milton, Ontario**

As requested, CMT Engineering Inc. has performed gradation analyses on two (2) samples taken from the above-referenced site and submitted to our laboratory on July 12, 2019.

The two samples can be classified as the following:

- MW1-19 (Figure 1) – silty sand, some clay, trace gravel
- MW3 (Figure 2) – silt and clay, some sand, trace gravel

All grain size analyses have been attached for your reference

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

Yours very truly,

A handwritten signature in blue ink that reads 'M Smith'.

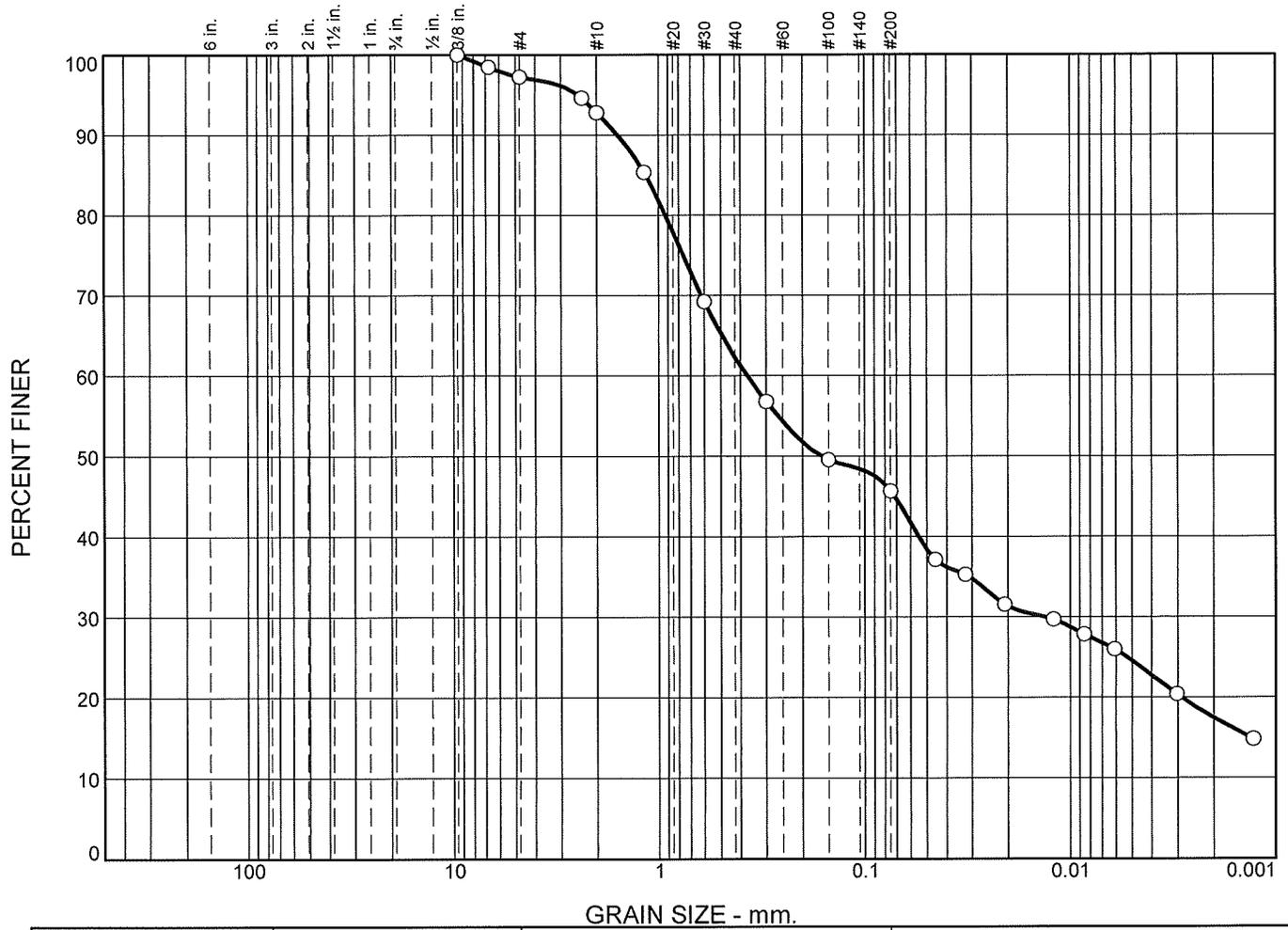
Marci Smith, C. Tech.
Laboratory Manager

A handwritten signature in blue ink that reads 'Robert Koopmans'.

Robert Koopmans, P. Eng.

Encl. Grain Size Analyses

Particle Size Distribution Report



	% Cobbles	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	2.8	4.4	30.5	16.6	28.2	17.5

SOIL DATA					
SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	USCS
○	MW1-19	1	7.8-8.5m	silty sand, some clay, trace gravel	SM
				Tested by JM of CMT Engineering Inc., July 17, 2019	

CMT Engineering Inc.

St. Clements, ON

Client: R. J. Burnside and Associates

Project: 6119 Trafalgar Road
Milton, Ontario

Project No.: 15-494

Figure 1



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Appendix F

Laboratory Certificate of Analysis - Soil



Your Project #: 300043649.0000
 Site Location: 6119 TRAFALGAR RD
 Your C.O.C. #: 725174-01-01

Attention: Ian Murphy

R J Burnside & Associates Ltd
 15 Townline Rd
 Orangeville, ON
 CANADA L9W 3R4

Report Date: 2019/08/15
 Report #: R5840715
 Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: B9J1230

Received: 2019/07/11, 15:59

Sample Matrix: Soil
 # Samples Received: 24

Analyses	Quantity	Date	Date	Laboratory Method	Reference
		Extracted	Analyzed		
1,3-Dichloropropene Sum	9	N/A	2019/07/19		EPA 8260C m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	4	N/A	2019/07/18	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	13	2019/07/19	2019/07/19	CAM SOP-00316	CCME CWS m
Moisture	1	N/A	2019/07/13	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	21	N/A	2019/07/15	CAM SOP-00445	Carter 2nd ed 51.2 m
OC Pesticides (Selected) & PCB (3)	9	2019/07/15	2019/07/16	CAM SOP-00307	SW846 8081, 8082
OC Pesticides Summed Parameters	9	N/A	2019/07/16	CAM SOP-00307	EPA 8081/8082 m
pH CaCl2 EXTRACT	5	2019/07/16	2019/07/16	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	4	N/A	2019/08/15	CAM SOP-00467	Carter 2nd ed m
Volatile Organic Compounds and F1 PHCs	9	N/A	2019/07/19	CAM SOP-00230	EPA 8260C m

Remarks:

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

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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) 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.

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories 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



Your Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Your C.O.C. #: 725174-01-01

Attention: Ian Murphy

R J Burnside & Associates Ltd
15 Townline Rd
Orangeville, ON
CANADA L9W 3R4

Report Date: 2019/08/15
Report #: R5840715
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: B9J1230

Received: 2019/07/11, 15:59

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.
(3) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Encryption Key

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

=====
BV Labs 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 Signature Page.



BUREAU
VERITAS

BV Labs Job #: B9J1230
Report Date: 2019/08/15

R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

O.REG 153 OC PESTICIDES (SOIL)

BV Labs ID		KGA192	KGA193	KGA198	KGA199	KGA200		
Sampling Date		2019/07/11 11:15	2019/07/11 11:40	2019/07/11 11:20	2019/07/11 11:45	2019/07/11 12:35		
COC Number		725174-01-01	725174-01-01	725174-01-01	725174-01-01	725174-01-01		
	UNITS	RJB-043649-11	RJB-043649-13	RJB-043649-12	RJB-043649-14	RJB-043649-18	RDL	QC Batch
Inorganics								
Moisture	%	15	12	11	14	11	1.0	6227928
Calculated Parameters								
Chlordane (Total)	ug/g	ND	ND	ND	ND	ND	0.0020	6225381
o,p-DDD + p,p-DDD	ug/g	ND	ND	ND	ND	ND	0.0020	6225381
o,p-DDE + p,p-DDE	ug/g	ND	ND	ND	ND	ND	0.0020	6225381
o,p-DDT + p,p-DDT	ug/g	ND	ND	ND	ND	ND	0.0020	6225381
Total Endosulfan	ug/g	ND	ND	ND	ND	ND	0.0020	6225381
Total PCB	ug/g	ND	ND	ND	ND	ND	0.015	6225381
Pesticides & Herbicides								
Aldrin	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
a-Chlordane	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
g-Chlordane	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
o,p-DDD	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
p,p-DDD	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
o,p-DDE	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
p,p-DDE	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
o,p-DDT	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
p,p-DDT	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
Dieldrin	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
Lindane	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
Endosulfan I (alpha)	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
Endosulfan II (beta)	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
Endrin	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
Heptachlor	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
Heptachlor epoxide	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
Hexachlorobenzene	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
Hexachlorobutadiene	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
Hexachloroethane	ug/g	ND	ND	ND	ND	ND	0.0020	6227712
Methoxychlor	ug/g	ND	ND	ND	ND	ND	0.0050	6227712
Aroclor 1242	ug/g	ND	ND	ND	ND	ND	0.015	6227712
Aroclor 1248	ug/g	ND	ND	ND	ND	ND	0.015	6227712
Aroclor 1254	ug/g	ND	ND	ND	ND	ND	0.015	6227712
Aroclor 1260	ug/g	ND	ND	ND	ND	ND	0.015	6227712
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected								



BUREAU
VERITAS

BV Labs Job #: B9J1230
Report Date: 2019/08/15

R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

O.REG 153 OC PESTICIDES (SOIL)

BV Labs ID		KGA192	KGA193	KGA198	KGA199	KGA200		
Sampling Date		2019/07/11 11:15	2019/07/11 11:40	2019/07/11 11:20	2019/07/11 11:45	2019/07/11 12:35		
COC Number		725174-01-01	725174-01-01	725174-01-01	725174-01-01	725174-01-01		
	UNITS	RJB-043649-11	RJB-043649-13	RJB-043649-12	RJB-043649-14	RJB-043649-18	RDL	QC Batch
Surrogate Recovery (%)								
2,4,5,6-Tetrachloro-m-xylene	%	99	106	119	110	79		6227712
Decachlorobiphenyl	%	99	105	94	93	91		6227712
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



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VERITAS

BV Labs Job #: B9J1230
Report Date: 2019/08/15

R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

O.REG 153 OC PESTICIDES (SOIL)

BV Labs ID		KGA204	KGA207	KGA208	KGA209		
Sampling Date		2019/07/11 12:05	2019/07/11 12:10	2019/07/11 12:50	2019/07/11 12:30		
COC Number		725174-01-01	725174-01-01	725174-01-01	725174-01-01		
	UNITS	RJB-043649-15	RJB-043649-16	RJB-043649-20	RJB-043649-17	RDL	QC Batch
Inorganics							
Moisture	%	16	11	10	11	1.0	6227928
Calculated Parameters							
Chlordane (Total)	ug/g	ND	ND	ND	ND	0.0020	6225381
o,p-DDD + p,p-DDD	ug/g	ND	ND	ND	ND	0.0020	6225381
o,p-DDE + p,p-DDE	ug/g	ND	ND	ND	ND	0.0020	6225381
o,p-DDT + p,p-DDT	ug/g	ND	ND	ND	ND	0.0020	6225381
Total Endosulfan	ug/g	ND	ND	ND	ND	0.0020	6225381
Total PCB	ug/g	ND	ND	ND	ND	0.015	6225381
Pesticides & Herbicides							
Aldrin	ug/g	ND	ND	ND	ND	0.0020	6227712
a-Chlordane	ug/g	ND	ND	ND	ND	0.0020	6227712
g-Chlordane	ug/g	ND	ND	ND	ND	0.0020	6227712
o,p-DDD	ug/g	ND	ND	ND	ND	0.0020	6227712
p,p-DDD	ug/g	ND	ND	ND	ND	0.0020	6227712
o,p-DDE	ug/g	ND	ND	ND	ND	0.0020	6227712
p,p-DDE	ug/g	ND	ND	ND	ND	0.0020	6227712
o,p-DDT	ug/g	ND	ND	ND	ND	0.0020	6227712
p,p-DDT	ug/g	ND	ND	ND	ND	0.0020	6227712
Dieldrin	ug/g	ND	ND	ND	ND	0.0020	6227712
Lindane	ug/g	ND	ND	ND	ND	0.0020	6227712
Endosulfan I (alpha)	ug/g	ND	ND	ND	ND	0.0020	6227712
Endosulfan II (beta)	ug/g	ND	ND	ND	ND	0.0020	6227712
Endrin	ug/g	ND	ND	ND	ND	0.0020	6227712
Heptachlor	ug/g	ND	ND	ND	ND	0.0020	6227712
Heptachlor epoxide	ug/g	ND	ND	ND	ND	0.0020	6227712
Hexachlorobenzene	ug/g	ND	ND	ND	ND	0.0020	6227712
Hexachlorobutadiene	ug/g	ND	ND	ND	ND	0.0020	6227712
Hexachloroethane	ug/g	ND	ND	ND	ND	0.0020	6227712
Methoxychlor	ug/g	ND	ND	ND	ND	0.0050	6227712
Aroclor 1242	ug/g	ND	ND	ND	ND	0.015	6227712
Aroclor 1248	ug/g	ND	ND	ND	ND	0.015	6227712
Aroclor 1254	ug/g	ND	ND	ND	ND	0.015	6227712
Aroclor 1260	ug/g	ND	ND	ND	ND	0.015	6227712
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected							



BUREAU
VERITAS

BV Labs Job #: B9J1230
Report Date: 2019/08/15

R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

O.REG 153 OC PESTICIDES (SOIL)

BV Labs ID		KGA204	KGA207	KGA208	KGA209		
Sampling Date		2019/07/11 12:05	2019/07/11 12:10	2019/07/11 12:50	2019/07/11 12:30		
COC Number		725174-01-01	725174-01-01	725174-01-01	725174-01-01		
	UNITS	RJB-043649-15	RJB-043649-16	RJB-043649-20	RJB-043649-17	RDL	QC Batch
Surrogate Recovery (%)							
2,4,5,6-Tetrachloro-m-xylene	%	105	72	118	116		6227712
Decachlorobiphenyl	%	116	84	108	118		6227712
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

BV Labs Job #: B9J1230
Report Date: 2019/08/15

R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

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

BV Labs ID		KGA189		KGA195		KGA201	KGA205		
Sampling Date		2019/07/10 10:30		2019/07/10 10:35		2019/07/11 10:10	2019/07/11 10:20		
COC Number		725174-01-01		725174-01-01		725174-01-01	725174-01-01		
	UNITS	RJB-043649-02	QC Batch	RJB-043649-03	QC Batch	RJB-043649-07	RJB-043649-08	RDL	QC Batch
Inorganics									
Moisture	%	13	6228156	16	6227244	14	18	1.0	6228156
BTEX & F1 Hydrocarbons									
Benzene	ug/g	ND	6233904	ND	6233904	ND	ND	0.020	6233904
Toluene	ug/g	ND	6233904	ND	6233904	ND	ND	0.020	6233904
Ethylbenzene	ug/g	ND	6233904	ND	6233904	ND	ND	0.020	6233904
o-Xylene	ug/g	ND	6233904	ND	6233904	ND	ND	0.020	6233904
p+m-Xylene	ug/g	ND	6233904	ND	6233904	ND	ND	0.040	6233904
Total Xylenes	ug/g	ND	6233904	ND	6233904	ND	ND	0.040	6233904
F1 (C6-C10)	ug/g	ND	6233904	ND	6233904	ND	ND	10	6233904
F1 (C6-C10) - BTEX	ug/g	ND	6233904	ND	6233904	ND	ND	10	6233904
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	ND	6236580	ND	6236580	ND	ND	10	6236580
F3 (C16-C34 Hydrocarbons)	ug/g	ND	6236580	ND	6236580	ND	55	50	6236580
F4 (C34-C50 Hydrocarbons)	ug/g	ND	6236580	ND	6236580	ND	ND	50	6236580
Reached Baseline at C50	ug/g	Yes	6236580	Yes	6236580	Yes	Yes		6236580
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	103	6233904	102	6233904	103	103		6233904
4-Bromofluorobenzene	%	96	6233904	97	6233904	97	97		6233904
D10-Ethylbenzene	%	95	6233904	88	6233904	88	95		6233904
D4-1,2-Dichloroethane	%	97	6233904	97	6233904	99	98		6233904
o-Terphenyl	%	98	6236580	99	6236580	97	99		6236580
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected									



BUREAU
VERITAS

BV Labs Job #: B9J1230
Report Date: 2019/08/15

R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

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

BV Labs ID		KGA190	KGA196	KGA202			KGA202		
Sampling Date		2019/07/10 12:00	2019/07/10 12:40	2019/07/11 10:50			2019/07/11 10:50		
COC Number		725174-01-01	725174-01-01	725174-01-01			725174-01-01		
	UNITS	RJB-043649-04	RJB-043649-05	RJB-043649-09	RDL	QC Batch	RJB-043649-09 REPEAT	RDL	QC Batch

Inorganics									
Moisture	%	7.9	9.3	14	1.0	6228156			
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/g	ND	ND	ND	0.050	6224819			
Volatile Organics									
Acetone (2-Propanone)	ug/g	ND	ND	ND	0.50	6228044			
Benzene	ug/g	ND	ND	ND	0.020	6228044			
Bromodichloromethane	ug/g	ND	ND	ND	0.050	6228044			
Bromoform	ug/g	ND	ND	ND	0.050	6228044			
Bromomethane	ug/g	ND	ND	ND	0.050	6228044			
Carbon Tetrachloride	ug/g	ND	ND	ND	0.050	6228044			
Chlorobenzene	ug/g	ND	ND	ND	0.050	6228044			
Chloroform	ug/g	ND	ND	ND	0.050	6228044			
Dibromochloromethane	ug/g	ND	ND	ND	0.050	6228044			
1,2-Dichlorobenzene	ug/g	ND	ND	ND	0.050	6228044			
1,3-Dichlorobenzene	ug/g	ND	ND	ND	0.050	6228044			
1,4-Dichlorobenzene	ug/g	ND	ND	ND	0.050	6228044			
Dichlorodifluoromethane (FREON 12)	ug/g	ND	ND	ND	0.050	6228044			
1,1-Dichloroethane	ug/g	ND	ND	ND	0.050	6228044			
1,2-Dichloroethane	ug/g	ND	ND	ND	0.050	6228044			
1,1-Dichloroethylene	ug/g	ND	ND	ND	0.050	6228044			
cis-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.050	6228044			
trans-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.050	6228044			
1,2-Dichloropropane	ug/g	ND	ND	ND	0.050	6228044			
cis-1,3-Dichloropropene	ug/g	ND	ND	ND	0.030	6228044			
trans-1,3-Dichloropropene	ug/g	ND	ND	ND	0.040	6228044			
Ethylbenzene	ug/g	ND	ND	ND	0.020	6228044			
Ethylene Dibromide	ug/g	ND	ND	ND	0.050	6228044			
Hexane	ug/g	ND	ND	ND	0.050	6228044			
Methylene Chloride(Dichloromethane)	ug/g	ND	ND	ND	0.050	6228044			
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	ND	ND	0.50	6228044			
Methyl Isobutyl Ketone	ug/g	ND	ND	ND	0.50	6228044			
Methyl t-butyl ether (MTBE)	ug/g	ND	ND	ND	0.050	6228044			
Styrene	ug/g	ND	ND	ND	0.050	6228044			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not detected



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R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

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

BV Labs ID		KGA190	KGA196	KGA202			KGA202		
Sampling Date		2019/07/10 12:00	2019/07/10 12:40	2019/07/11 10:50			2019/07/11 10:50		
COC Number		725174-01-01	725174-01-01	725174-01-01			725174-01-01		
	UNITS	RJB-043649-04	RJB-043649-05	RJB-043649-09	RDL	QC Batch	RJB-043649-09 REPEAT	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/g	ND	ND	ND	0.050	6228044			
1,1,2,2-Tetrachloroethane	ug/g	ND	ND	ND	0.050	6228044			
Tetrachloroethylene	ug/g	ND	ND	ND	0.050	6228044			
Toluene	ug/g	ND	ND	ND	0.020	6228044			
1,1,1-Trichloroethane	ug/g	ND	ND	ND	0.050	6228044			
1,1,2-Trichloroethane	ug/g	ND	ND	ND	0.050	6228044			
Trichloroethylene	ug/g	ND	ND	ND	0.050	6228044			
Trichlorofluoromethane (FREON 11)	ug/g	ND	ND	ND	0.050	6228044			
Vinyl Chloride	ug/g	ND	ND	ND	0.020	6228044			
p+m-Xylene	ug/g	ND	ND	ND	0.020	6228044			
o-Xylene	ug/g	ND	ND	ND	0.020	6228044			
Total Xylenes	ug/g	ND	ND	ND	0.020	6228044			
F1 (C6-C10)	ug/g	ND	ND	ND	10	6228044			
F1 (C6-C10) - BTEX	ug/g	ND	ND	ND	10	6228044			
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	ND	ND	ND	10	6236580	ND	10	6247576
F3 (C16-C34 Hydrocarbons)	ug/g	ND	ND	310	50	6236580	190	50	6247576
F4 (C34-C50 Hydrocarbons)	ug/g	ND	ND	170	50	6236580	120	50	6247576
Reached Baseline at C50	ug/g	Yes	Yes	Yes		6236580	Yes		6247576
Surrogate Recovery (%)									
o-Terphenyl	%	98	98	97		6236580	99		6247576
4-Bromofluorobenzene	%	99	101	99		6228044			
D10-o-Xylene	%	96	104	102		6228044			
D4-1,2-Dichloroethane	%	109	109	109		6228044			
D8-Toluene	%	97	96	96		6228044			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected									



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R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

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

BV Labs ID		KGA202			KGA206			KGA206		
Sampling Date		2019/07/11 10:50			2019/07/11 10:50			2019/07/11 10:50		
COC Number		725174-01-01			725174-01-01			725174-01-01		
	UNITS	RJB-043649-09 REPEAT	RDL	QC Batch	RJB-043649-10	RDL	QC Batch	RJB-043649-10 Lab-Dup	RDL	QC Batch
Inorganics										
Moisture	%				14	1.0	6228156	13	1.0	6228156
Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/g				ND	0.050	6224819			
Volatile Organics										
Acetone (2-Propanone)	ug/g				ND	0.50	6228044			
Benzene	ug/g				ND	0.020	6228044			
Bromodichloromethane	ug/g				ND	0.050	6228044			
Bromoform	ug/g				ND	0.050	6228044			
Bromomethane	ug/g				ND	0.050	6228044			
Carbon Tetrachloride	ug/g				ND	0.050	6228044			
Chlorobenzene	ug/g				ND	0.050	6228044			
Chloroform	ug/g				ND	0.050	6228044			
Dibromochloromethane	ug/g				ND	0.050	6228044			
1,2-Dichlorobenzene	ug/g				ND	0.050	6228044			
1,3-Dichlorobenzene	ug/g				ND	0.050	6228044			
1,4-Dichlorobenzene	ug/g				ND	0.050	6228044			
Dichlorodifluoromethane (FREON 12)	ug/g				ND	0.050	6228044			
1,1-Dichloroethane	ug/g				ND	0.050	6228044			
1,2-Dichloroethane	ug/g				ND	0.050	6228044			
1,1-Dichloroethylene	ug/g				ND	0.050	6228044			
cis-1,2-Dichloroethylene	ug/g				ND	0.050	6228044			
trans-1,2-Dichloroethylene	ug/g				ND	0.050	6228044			
1,2-Dichloropropane	ug/g				ND	0.050	6228044			
cis-1,3-Dichloropropene	ug/g				ND	0.030	6228044			
trans-1,3-Dichloropropene	ug/g				ND	0.040	6228044			
Ethylbenzene	ug/g				ND	0.020	6228044			
Ethylene Dibromide	ug/g				ND	0.050	6228044			
Hexane	ug/g				ND	0.050	6228044			
Methylene Chloride(Dichloromethane)	ug/g				ND	0.050	6228044			
Methyl Ethyl Ketone (2-Butanone)	ug/g				ND	0.50	6228044			
Methyl Isobutyl Ketone	ug/g				ND	0.50	6228044			
Methyl t-butyl ether (MTBE)	ug/g				ND	0.050	6228044			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate ND = Not detected										



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R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

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

BV Labs ID		KGA202			KGA206			KGA206		
Sampling Date		2019/07/11 10:50			2019/07/11 10:50			2019/07/11 10:50		
COC Number		725174-01-01			725174-01-01			725174-01-01		
	UNITS	RJB-043649-09 REPEAT	RDL	QC Batch	RJB-043649-10	RDL	QC Batch	RJB-043649-10 Lab-Dup	RDL	QC Batch
Styrene	ug/g				ND	0.050	6228044			
1,1,1,2-Tetrachloroethane	ug/g				ND	0.050	6228044			
1,1,2,2-Tetrachloroethane	ug/g				ND	0.050	6228044			
Tetrachloroethylene	ug/g				ND	0.050	6228044			
Toluene	ug/g				ND	0.020	6228044			
1,1,1-Trichloroethane	ug/g				ND	0.050	6228044			
1,1,2-Trichloroethane	ug/g				ND	0.050	6228044			
Trichloroethylene	ug/g				ND	0.050	6228044			
Trichlorofluoromethane (FREON 11)	ug/g				ND	0.050	6228044			
Vinyl Chloride	ug/g				ND	0.020	6228044			
p+m-Xylene	ug/g				ND	0.020	6228044			
o-Xylene	ug/g				ND	0.020	6228044			
Total Xylenes	ug/g				ND	0.020	6228044			
F1 (C6-C10)	ug/g				ND	10	6228044			
F1 (C6-C10) - BTEX	ug/g				ND	10	6228044			
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	17	10	6253443	ND	10	6236580			
F3 (C16-C34 Hydrocarbons)	ug/g	600	50	6253443	ND	50	6236580			
F4 (C34-C50 Hydrocarbons)	ug/g	390	50	6253443	ND	50	6236580			
Reached Baseline at C50	ug/g	Yes		6253443	Yes		6236580			
Surrogate Recovery (%)										
o-Terphenyl	%	82		6253443	94		6236580			
4-Bromofluorobenzene	%				99		6228044			
D10-o-Xylene	%				100		6228044			
D4-1,2-Dichloroethane	%				108		6228044			
D8-Toluene	%				97		6228044			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate ND = Not detected										



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BV Labs Job #: B9J1230
Report Date: 2019/08/15

R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

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

BV Labs ID		KGA211	KGA212			KGA212		
Sampling Date		2019/07/10	2019/07/10 12:15			2019/07/10 12:15		
COC Number		725174-01-01	725174-01-01			725174-01-01		
	UNITS	RJB-043649-19	RJB-043649-21	RDL	QC Batch	RJB-043649-21 Lab-Dup	RDL	QC Batch
Inorganics								
Moisture	%	10	20	1.0	6228156			
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	ND	ND	0.050	6224819			
Volatile Organics								
Acetone (2-Propanone)	ug/g	ND	ND	0.50	6228044			
Benzene	ug/g	ND	ND	0.020	6228044			
Bromodichloromethane	ug/g	ND	ND	0.050	6228044			
Bromoform	ug/g	ND	ND	0.050	6228044			
Bromomethane	ug/g	ND	ND	0.050	6228044			
Carbon Tetrachloride	ug/g	ND	ND	0.050	6228044			
Chlorobenzene	ug/g	ND	ND	0.050	6228044			
Chloroform	ug/g	ND	ND	0.050	6228044			
Dibromochloromethane	ug/g	ND	ND	0.050	6228044			
1,2-Dichlorobenzene	ug/g	ND	ND	0.050	6228044			
1,3-Dichlorobenzene	ug/g	ND	ND	0.050	6228044			
1,4-Dichlorobenzene	ug/g	ND	ND	0.050	6228044			
Dichlorodifluoromethane (FREON 12)	ug/g	ND	ND	0.050	6228044			
1,1-Dichloroethane	ug/g	ND	ND	0.050	6228044			
1,2-Dichloroethane	ug/g	ND	ND	0.050	6228044			
1,1-Dichloroethylene	ug/g	ND	ND	0.050	6228044			
cis-1,2-Dichloroethylene	ug/g	ND	ND	0.050	6228044			
trans-1,2-Dichloroethylene	ug/g	ND	ND	0.050	6228044			
1,2-Dichloropropane	ug/g	ND	ND	0.050	6228044			
cis-1,3-Dichloropropene	ug/g	ND	ND	0.030	6228044			
trans-1,3-Dichloropropene	ug/g	ND	ND	0.040	6228044			
Ethylbenzene	ug/g	ND	ND	0.020	6228044			
Ethylene Dibromide	ug/g	ND	ND	0.050	6228044			
Hexane	ug/g	ND	ND	0.050	6228044			
Methylene Chloride(Dichloromethane)	ug/g	ND	ND	0.050	6228044			
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	ND	0.50	6228044			
Methyl Isobutyl Ketone	ug/g	ND	ND	0.50	6228044			
Methyl t-butyl ether (MTBE)	ug/g	ND	ND	0.050	6228044			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate ND = Not detected								



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Client Project #: 300043649.0000
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Sampler Initials: IM

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

BV Labs ID		KGA211	KGA212			KGA212		
Sampling Date		2019/07/10	2019/07/10 12:15			2019/07/10 12:15		
COC Number		725174-01-01	725174-01-01			725174-01-01		
	UNITS	RJB-043649-19	RJB-043649-21	RDL	QC Batch	RJB-043649-21 Lab-Dup	RDL	QC Batch
Styrene	ug/g	ND	ND	0.050	6228044			
1,1,1,2-Tetrachloroethane	ug/g	ND	ND	0.050	6228044			
1,1,2,2-Tetrachloroethane	ug/g	ND	ND	0.050	6228044			
Tetrachloroethylene	ug/g	ND	ND	0.050	6228044			
Toluene	ug/g	ND	ND	0.020	6228044			
1,1,1-Trichloroethane	ug/g	ND	ND	0.050	6228044			
1,1,2-Trichloroethane	ug/g	ND	ND	0.050	6228044			
Trichloroethylene	ug/g	ND	ND	0.050	6228044			
Trichlorofluoromethane (FREON 11)	ug/g	ND	ND	0.050	6228044			
Vinyl Chloride	ug/g	ND	ND	0.020	6228044			
p+m-Xylene	ug/g	ND	ND	0.020	6228044			
o-Xylene	ug/g	ND	ND	0.020	6228044			
Total Xylenes	ug/g	ND	ND	0.020	6228044			
F1 (C6-C10)	ug/g	ND	ND	10	6228044			
F1 (C6-C10) - BTEX	ug/g	ND	ND	10	6228044			
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	ND	ND	10	6236580	ND	10	6236580
F3 (C16-C34 Hydrocarbons)	ug/g	ND	ND	50	6236580	ND	50	6236580
F4 (C34-C50 Hydrocarbons)	ug/g	ND	ND	50	6236580	ND	50	6236580
Reached Baseline at C50	ug/g	Yes	Yes		6236580	Yes		6236580
Surrogate Recovery (%)								
o-Terphenyl	%	93	97		6236580	97		6236580
4-Bromofluorobenzene	%	98	98		6228044			
D10-o-Xylene	%	101	103		6228044			
D4-1,2-Dichloroethane	%	109	108		6228044			
D8-Toluene	%	98	98		6228044			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate ND = Not detected								



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BV Labs Job #: B9J1230
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R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

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

BV Labs ID		KGA213			KGA213			KGA214		
Sampling Date		2019/07/10 13:10			2019/07/10 13:10			2019/07/10 14:05		
COC Number		725174-01-01			725174-01-01			725174-01-01		
	UNITS	RJB-043649-22	RDL	QC Batch	RJB-043649-22 Lab-Dup	RDL	QC Batch	RJB-043649-23	RDL	QC Batch

Inorganics										
Moisture	%	15	1.0	6228156				17	1.0	6228156
Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/g	ND	0.050	6224819				ND	0.050	6224819
Volatile Organics										
Acetone (2-Propanone)	ug/g	ND	0.50	6228044	ND	0.50	6228044	ND	0.50	6228044
Benzene	ug/g	ND	0.020	6228044	ND	0.020	6228044	ND	0.020	6228044
Bromodichloromethane	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Bromoform	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Bromomethane	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Carbon Tetrachloride	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Chlorobenzene	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Chloroform	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Dibromochloromethane	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
1,2-Dichlorobenzene	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
1,3-Dichlorobenzene	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
1,4-Dichlorobenzene	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Dichlorodifluoromethane (FREON 12)	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
1,1-Dichloroethane	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
1,2-Dichloroethane	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
1,1-Dichloroethylene	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
cis-1,2-Dichloroethylene	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
trans-1,2-Dichloroethylene	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
1,2-Dichloropropane	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
cis-1,3-Dichloropropene	ug/g	ND	0.030	6228044	ND	0.030	6228044	ND	0.030	6228044
trans-1,3-Dichloropropene	ug/g	ND	0.040	6228044	ND	0.040	6228044	ND	0.040	6228044
Ethylbenzene	ug/g	ND	0.020	6228044	ND	0.020	6228044	ND	0.020	6228044
Ethylene Dibromide	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Hexane	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Methylene Chloride(Dichloromethane)	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	0.50	6228044	ND	0.50	6228044	ND	0.50	6228044
Methyl Isobutyl Ketone	ug/g	ND	0.50	6228044	ND	0.50	6228044	ND	0.50	6228044
Methyl t-butyl ether (MTBE)	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
ND = Not detected



BUREAU
VERITAS

BV Labs Job #: B9J1230
Report Date: 2019/08/15

R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

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

BV Labs ID		KGA213			KGA213			KGA214		
Sampling Date		2019/07/10 13:10			2019/07/10 13:10			2019/07/10 14:05		
COC Number		725174-01-01			725174-01-01			725174-01-01		
	UNITS	RJB-043649-22	RDL	QC Batch	RJB-043649-22 Lab-Dup	RDL	QC Batch	RJB-043649-23	RDL	QC Batch
Styrene	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
1,1,1,2-Tetrachloroethane	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
1,1,2,2-Tetrachloroethane	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Tetrachloroethylene	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Toluene	ug/g	ND	0.020	6228044	ND	0.020	6228044	ND	0.020	6228044
1,1,1-Trichloroethane	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
1,1,2-Trichloroethane	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Trichloroethylene	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Trichlorofluoromethane (FREON 11)	ug/g	ND	0.050	6228044	ND	0.050	6228044	ND	0.050	6228044
Vinyl Chloride	ug/g	ND	0.020	6228044	ND	0.020	6228044	ND	0.020	6228044
p+m-Xylene	ug/g	ND	0.020	6228044	ND	0.020	6228044	ND	0.020	6228044
o-Xylene	ug/g	ND	0.020	6228044	ND	0.020	6228044	ND	0.020	6228044
Total Xylenes	ug/g	ND	0.020	6228044	ND	0.020	6228044	ND	0.020	6228044
F1 (C6-C10)	ug/g	ND	10	6228044	ND	10	6228044	ND	10	6228044
F1 (C6-C10) - BTEX	ug/g	ND	10	6228044	ND	10	6228044	ND	10	6228044
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	ND	10	6236580				ND	10	6236580
F3 (C16-C34 Hydrocarbons)	ug/g	ND	50	6236580				170	50	6236580
F4 (C34-C50 Hydrocarbons)	ug/g	ND	50	6236580				ND	50	6236580
Reached Baseline at C50	ug/g	Yes		6236580				Yes		6236580
Surrogate Recovery (%)										
o-Terphenyl	%	93		6236580				92		6236580
4-Bromofluorobenzene	%	99		6228044	99		6228044	97		6228044
D10-o-Xylene	%	98		6228044	103		6228044	100		6228044
D4-1,2-Dichloroethane	%	109		6228044	109		6228044	110		6228044
D8-Toluene	%	95		6228044	98		6228044	97		6228044
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate ND = Not detected										



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Sampler Initials: IM

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

BV Labs ID		KGA216		
Sampling Date		2019/07/10 14:40		
COC Number		725174-01-01		
	UNITS	RJB-043649-24	RDL	QC Batch
Inorganics				
Moisture	%	18	1.0	6228156
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/g	ND	0.050	6224819
Volatile Organics				
Acetone (2-Propanone)	ug/g	ND	0.50	6228044
Benzene	ug/g	ND	0.020	6228044
Bromodichloromethane	ug/g	ND	0.050	6228044
Bromoform	ug/g	ND	0.050	6228044
Bromomethane	ug/g	ND	0.050	6228044
Carbon Tetrachloride	ug/g	ND	0.050	6228044
Chlorobenzene	ug/g	ND	0.050	6228044
Chloroform	ug/g	ND	0.050	6228044
Dibromochloromethane	ug/g	ND	0.050	6228044
1,2-Dichlorobenzene	ug/g	ND	0.050	6228044
1,3-Dichlorobenzene	ug/g	ND	0.050	6228044
1,4-Dichlorobenzene	ug/g	ND	0.050	6228044
Dichlorodifluoromethane (FREON 12)	ug/g	ND	0.050	6228044
1,1-Dichloroethane	ug/g	ND	0.050	6228044
1,2-Dichloroethane	ug/g	ND	0.050	6228044
1,1-Dichloroethylene	ug/g	ND	0.050	6228044
cis-1,2-Dichloroethylene	ug/g	ND	0.050	6228044
trans-1,2-Dichloroethylene	ug/g	ND	0.050	6228044
1,2-Dichloropropane	ug/g	ND	0.050	6228044
cis-1,3-Dichloropropene	ug/g	ND	0.030	6228044
trans-1,3-Dichloropropene	ug/g	ND	0.040	6228044
Ethylbenzene	ug/g	ND	0.020	6228044
Ethylene Dibromide	ug/g	ND	0.050	6228044
Hexane	ug/g	ND	0.050	6228044
Methylene Chloride(Dichloromethane)	ug/g	ND	0.050	6228044
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	0.50	6228044
Methyl Isobutyl Ketone	ug/g	ND	0.50	6228044
Methyl t-butyl ether (MTBE)	ug/g	ND	0.050	6228044
Styrene	ug/g	ND	0.050	6228044
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected				



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Sampler Initials: IM

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

BV Labs ID		KGA216		
Sampling Date		2019/07/10 14:40		
COC Number		725174-01-01		
	UNITS	RJB-043649-24	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/g	ND	0.050	6228044
1,1,2,2-Tetrachloroethane	ug/g	ND	0.050	6228044
Tetrachloroethylene	ug/g	ND	0.050	6228044
Toluene	ug/g	ND	0.020	6228044
1,1,1-Trichloroethane	ug/g	ND	0.050	6228044
1,1,2-Trichloroethane	ug/g	ND	0.050	6228044
Trichloroethylene	ug/g	ND	0.050	6228044
Trichlorofluoromethane (FREON 11)	ug/g	ND	0.050	6228044
Vinyl Chloride	ug/g	ND	0.020	6228044
p+m-Xylene	ug/g	ND	0.020	6228044
o-Xylene	ug/g	ND	0.020	6228044
Total Xylenes	ug/g	ND	0.020	6228044
F1 (C6-C10)	ug/g	ND	10	6228044
F1 (C6-C10) - BTEX	ug/g	ND	10	6228044
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/g	ND	10	6236580
F3 (C16-C34 Hydrocarbons)	ug/g	ND	50	6236580
F4 (C34-C50 Hydrocarbons)	ug/g	ND	50	6236580
Reached Baseline at C50	ug/g	Yes		6236580
Surrogate Recovery (%)				
o-Terphenyl	%	90		6236580
4-Bromofluorobenzene	%	97		6228044
D10-o-Xylene	%	107		6228044
D4-1,2-Dichloroethane	%	109		6228044
D8-Toluene	%	98		6228044
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected				



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BV Labs Job #: B9J1230
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Sampler Initials: IM

RESULTS OF ANALYSES OF SOIL

BV Labs ID		KGA188		KGA189	KGA190			KGA192	
Sampling Date		2019/07/10 10:15		2019/07/10 10:30	2019/07/10 12:00			2019/07/11 11:15	
COC Number		725174-01-01		725174-01-01	725174-01-01			725174-01-01	
	UNITS	RJB-043649-01	QC Batch	RJB-043649-02	RJB-043649-04	RDL	QC Batch	RJB-043649-11	QC Batch

Inorganics									
Available (CaCl2) pH	pH	7.76	6229728					7.79	6229728
Miscellaneous Parameters									
Grain Size	%			FINE	FINE	N/A	6279181		
Sieve - #200 (<0.075mm)	%			88	84	1	6279181		
Sieve - #200 (>0.075mm)	%			12	16	1	6279181		
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									

BV Labs ID		KGA194	KGA195	KGA198		KGA201	KGA206		
Sampling Date		2019/07/11 10:00	2019/07/10 10:35	2019/07/11 11:20		2019/07/11 10:10	2019/07/11 10:50		
COC Number		725174-01-01	725174-01-01	725174-01-01		725174-01-01	725174-01-01		
	UNITS	RJB-043649-06	RJB-043649-03	RJB-043649-12	QC Batch	RJB-043649-07	RJB-043649-10	RDL	QC Batch

Inorganics									
Available (CaCl2) pH	pH	6.95	8.07	7.87	6229728				
Miscellaneous Parameters									
Grain Size	%					FINE	FINE	N/A	6279181
Sieve - #200 (<0.075mm)	%					87	84	1	6279181
Sieve - #200 (>0.075mm)	%					13	16	1	6279181
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									



BUREAU
VERITAS

BV Labs Job #: B9J1230
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R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

TEST SUMMARY

BV Labs ID: KGA188
Sample ID: RJB-043649-01
Matrix: Soil

Collected: 2019/07/10
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	6229728	2019/07/16	2019/07/16	Surinder Rai

BV Labs ID: KGA189
Sample ID: RJB-043649-02
Matrix: Soil

Collected: 2019/07/10
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	6233904	N/A	2019/07/18	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6236580	2019/07/19	2019/07/19	Dorina Popa
Moisture	BAL	6228156	N/A	2019/07/15	Prgya Panchal
Sieve, 75um	SIEV	6279181	N/A	2019/08/15	Min Yang

BV Labs ID: KGA190
Sample ID: RJB-043649-04
Matrix: Soil

Collected: 2019/07/10
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6224819	N/A	2019/07/19	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6236580	2019/07/19	2019/07/19	Dorina Popa
Moisture	BAL	6228156	N/A	2019/07/15	Prgya Panchal
Sieve, 75um	SIEV	6279181	N/A	2019/08/15	Min Yang
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6228044	N/A	2019/07/19	Blair Gannon

BV Labs ID: KGA192
Sample ID: RJB-043649-11
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6227928	N/A	2019/07/15	Gurpreet Kaur
OC Pesticides (Selected) & PCB	GC/ECD	6227712	2019/07/15	2019/07/16	Li Peng
OC Pesticides Summed Parameters	CALC	6225381	N/A	2019/07/16	Automated Statchk
pH CaCl2 EXTRACT	AT	6229728	2019/07/16	2019/07/16	Surinder Rai

BV Labs ID: KGA193
Sample ID: RJB-043649-13
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6227928	N/A	2019/07/15	Gurpreet Kaur
OC Pesticides (Selected) & PCB	GC/ECD	6227712	2019/07/15	2019/07/16	Li Peng
OC Pesticides Summed Parameters	CALC	6225381	N/A	2019/07/16	Automated Statchk



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BV Labs Job #: B9J1230
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R J Burnside & Associates Ltd
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Sampler Initials: IM

TEST SUMMARY

BV Labs ID: KGA194
Sample ID: RJB-043649-06
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	6229728	2019/07/16	2019/07/16	Surinder Rai

BV Labs ID: KGA195
Sample ID: RJB-043649-03
Matrix: Soil

Collected: 2019/07/10
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	6233904	N/A	2019/07/18	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6236580	2019/07/19	2019/07/19	Dorina Popa
Moisture	BAL	6227244	N/A	2019/07/13	Mithunaa Sasitheepan
pH CaCl2 EXTRACT	AT	6229728	2019/07/16	2019/07/16	Surinder Rai

BV Labs ID: KGA196
Sample ID: RJB-043649-05
Matrix: Soil

Collected: 2019/07/10
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6224819	N/A	2019/07/19	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6236580	2019/07/19	2019/07/19	Dorina Popa
Moisture	BAL	6228156	N/A	2019/07/15	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6228044	N/A	2019/07/19	Blair Gannon

BV Labs ID: KGA198
Sample ID: RJB-043649-12
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6227928	N/A	2019/07/15	Gurpreet Kaur
OC Pesticides (Selected) & PCB	GC/ECD	6227712	2019/07/15	2019/07/16	Li Peng
OC Pesticides Summed Parameters	CALC	6225381	N/A	2019/07/16	Automated Statchk
pH CaCl2 EXTRACT	AT	6229728	2019/07/16	2019/07/16	Surinder Rai

BV Labs ID: KGA199
Sample ID: RJB-043649-14
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6227928	N/A	2019/07/15	Gurpreet Kaur
OC Pesticides (Selected) & PCB	GC/ECD	6227712	2019/07/15	2019/07/16	Li Peng
OC Pesticides Summed Parameters	CALC	6225381	N/A	2019/07/16	Automated Statchk



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Sampler Initials: IM

TEST SUMMARY

BV Labs ID: KGA200
Sample ID: RJB-043649-18
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6227928	N/A	2019/07/15	Gurpreet Kaur
OC Pesticides (Selected) & PCB	GC/ECD	6227712	2019/07/15	2019/07/16	Li Peng
OC Pesticides Summed Parameters	CALC	6225381	N/A	2019/07/16	Automated Statchk

BV Labs ID: KGA201
Sample ID: RJB-043649-07
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	6233904	N/A	2019/07/18	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6236580	2019/07/19	2019/07/19	Dorina Popa
Moisture	BAL	6228156	N/A	2019/07/15	Prgya Panchal
Sieve, 75um	SIEV	6279181	N/A	2019/08/15	Min Yang

BV Labs ID: KGA202
Sample ID: RJB-043649-09
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6224819	N/A	2019/07/19	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6236580	2019/07/19	2019/07/19	Dorina Popa
Moisture	BAL	6228156	N/A	2019/07/15	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6228044	N/A	2019/07/19	Blair Gannon

BV Labs ID: KGA204
Sample ID: RJB-043649-15
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6227928	N/A	2019/07/15	Gurpreet Kaur
OC Pesticides (Selected) & PCB	GC/ECD	6227712	2019/07/15	2019/07/16	Li Peng
OC Pesticides Summed Parameters	CALC	6225381	N/A	2019/07/16	Automated Statchk

BV Labs ID: KGA205
Sample ID: RJB-043649-08
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	6233904	N/A	2019/07/18	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6236580	2019/07/19	2019/07/19	Dorina Popa
Moisture	BAL	6228156	N/A	2019/07/15	Prgya Panchal



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BV Labs Job #: B9J1230
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R J Burnside & Associates Ltd
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Sampler Initials: IM

TEST SUMMARY

BV Labs ID: KGA206
Sample ID: RJB-043649-10
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6224819	N/A	2019/07/19	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6236580	2019/07/19	2019/07/19	Dorina Popa
Moisture	BAL	6228156	N/A	2019/07/15	Prgya Panchal
Sieve, 75um	SIEV	6279181	N/A	2019/08/15	Min Yang
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6228044	N/A	2019/07/19	Blair Gannon

BV Labs ID: KGA206 Dup
Sample ID: RJB-043649-10
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6228156	N/A	2019/07/15	Prgya Panchal

BV Labs ID: KGA207
Sample ID: RJB-043649-16
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6227928	N/A	2019/07/15	Gurpreet Kaur
OC Pesticides (Selected) & PCB	GC/ECD	6227712	2019/07/15	2019/07/16	Li Peng
OC Pesticides Summed Parameters	CALC	6225381	N/A	2019/07/16	Automated Statchk

BV Labs ID: KGA208
Sample ID: RJB-043649-20
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6227928	N/A	2019/07/15	Gurpreet Kaur
OC Pesticides (Selected) & PCB	GC/ECD	6227712	2019/07/15	2019/07/16	Li Peng
OC Pesticides Summed Parameters	CALC	6225381	N/A	2019/07/16	Automated Statchk

BV Labs ID: KGA209
Sample ID: RJB-043649-17
Matrix: Soil

Collected: 2019/07/11
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	6227928	N/A	2019/07/15	Gurpreet Kaur
OC Pesticides (Selected) & PCB	GC/ECD	6227712	2019/07/15	2019/07/16	Li Peng
OC Pesticides Summed Parameters	CALC	6225381	N/A	2019/07/16	Automated Statchk

BV Labs ID: KGA211
Sample ID: RJB-043649-19
Matrix: Soil

Collected: 2019/07/10
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6224819	N/A	2019/07/19	Automated Statchk



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VERITAS

BV Labs Job #: B9J1230
Report Date: 2019/08/15

R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

TEST SUMMARY

BV Labs ID: KGA211
Sample ID: RJB-043649-19
Matrix: Soil

Collected: 2019/07/10
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6236580	2019/07/19	2019/07/19	Dorina Popa
Moisture	BAL	6228156	N/A	2019/07/15	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6228044	N/A	2019/07/19	Blair Gannon

BV Labs ID: KGA212
Sample ID: RJB-043649-21
Matrix: Soil

Collected: 2019/07/10
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6224819	N/A	2019/07/19	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6236580	2019/07/19	2019/07/19	Dorina Popa
Moisture	BAL	6228156	N/A	2019/07/15	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6228044	N/A	2019/07/19	Blair Gannon

BV Labs ID: KGA212 Dup
Sample ID: RJB-043649-21
Matrix: Soil

Collected: 2019/07/10
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6236580	2019/07/19	2019/07/19	Dorina Popa

BV Labs ID: KGA213
Sample ID: RJB-043649-22
Matrix: Soil

Collected: 2019/07/10
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6224819	N/A	2019/07/19	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6236580	2019/07/19	2019/07/19	Dorina Popa
Moisture	BAL	6228156	N/A	2019/07/15	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6228044	N/A	2019/07/19	Blair Gannon

BV Labs ID: KGA213 Dup
Sample ID: RJB-043649-22
Matrix: Soil

Collected: 2019/07/10
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6228044	N/A	2019/07/19	Blair Gannon

BV Labs ID: KGA214
Sample ID: RJB-043649-23
Matrix: Soil

Collected: 2019/07/10
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6224819	N/A	2019/07/19	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6236580	2019/07/19	2019/07/19	Dorina Popa
Moisture	BAL	6228156	N/A	2019/07/15	Prgya Panchal



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TEST SUMMARY

BV Labs ID: KGA214
Sample ID: RJB-043649-23
Matrix: Soil

Collected: 2019/07/10
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6228044	N/A	2019/07/19	Blair Gannon

BV Labs ID: KGA216
Sample ID: RJB-043649-24
Matrix: Soil

Collected: 2019/07/10
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6224819	N/A	2019/07/19	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	6236580	2019/07/19	2019/07/19	Dorina Popa
Moisture	BAL	6228156	N/A	2019/07/15	Prgya Panchal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6228044	N/A	2019/07/19	Blair Gannon



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GENERAL COMMENTS

Revised Report[2019/08/15]: Particle size results added to Certificate of Analysis.

Cooler custody seal was present and intact.

Sample KGA195 [RJB-043649-03] : F1/BTEX Analysis: Greater than 10g of soil was submitted in the field preserved vial. This significantly exceeds the protocol specification of approximately 5g. Additional methanol was added to the vial to ensure extraction efficiency.

Sample KGA202 [RJB-043649-09] : F2-F4 Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Sample KGA214 [RJB-043649-23] : VOC Analysis: Greater than 10g of soil was submitted in the field preserved vial. This significantly exceeds the protocol specification of approximately 5g. Additional methanol was added to the vial to ensure extraction efficiency.

Sample KGA202, Petroleum Hydrocarbons F2-F4 in Soil: Test repeated.

Results relate only to the items tested.



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QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
6227244	JMP	RPD	Moisture	2019/07/13	0.53		%	20
6227712	LPG	Matrix Spike	2,4,5,6-Tetrachloro-m-xylene	2019/07/16		112	%	50 - 130
			Decachlorobiphenyl	2019/07/16		90	%	50 - 130
			Aldrin	2019/07/16		73	%	50 - 130
			a-Chlordane	2019/07/16		87	%	50 - 130
			g-Chlordane	2019/07/16		87	%	50 - 130
			o,p-DDD	2019/07/16		93	%	50 - 130
			p,p-DDD	2019/07/16		82	%	50 - 130
			o,p-DDE	2019/07/16		99	%	50 - 130
			p,p-DDE	2019/07/16		91	%	50 - 130
			o,p-DDT	2019/07/16		84	%	50 - 130
			p,p-DDT	2019/07/16		91	%	50 - 130
			Dieldrin	2019/07/16		90	%	50 - 130
			Lindane	2019/07/16		87	%	50 - 130
			Endosulfan I (alpha)	2019/07/16		67	%	50 - 130
			Endosulfan II (beta)	2019/07/16		78	%	50 - 130
			Endrin	2019/07/16		85	%	50 - 130
			Heptachlor	2019/07/16		74	%	50 - 130
			Heptachlor epoxide	2019/07/16		75	%	50 - 130
			Hexachlorobenzene	2019/07/16		91	%	50 - 130
			Hexachlorobutadiene	2019/07/16		55	%	50 - 130
			Hexachloroethane	2019/07/16		42 (1)	%	50 - 130
			Methoxychlor	2019/07/16		99	%	50 - 130
			6227712	LPG	Spiked Blank	2,4,5,6-Tetrachloro-m-xylene	2019/07/16	
Decachlorobiphenyl	2019/07/16					95	%	50 - 130
Aldrin	2019/07/16					80	%	50 - 130
a-Chlordane	2019/07/16					91	%	50 - 130
g-Chlordane	2019/07/16					90	%	50 - 130
o,p-DDD	2019/07/16					99	%	50 - 130
p,p-DDD	2019/07/16					92	%	50 - 130
o,p-DDE	2019/07/16					106	%	50 - 130
p,p-DDE	2019/07/16					96	%	50 - 130
o,p-DDT	2019/07/16					96	%	50 - 130
p,p-DDT	2019/07/16					95	%	50 - 130
Dieldrin	2019/07/16					99	%	50 - 130
Lindane	2019/07/16					98	%	50 - 130
Endosulfan I (alpha)	2019/07/16					73	%	50 - 130
Endosulfan II (beta)	2019/07/16					80	%	50 - 130
Endrin	2019/07/16					89	%	50 - 130
Heptachlor	2019/07/16					83	%	50 - 130
Heptachlor epoxide	2019/07/16					82	%	50 - 130
Hexachlorobenzene	2019/07/16					78	%	50 - 130
Hexachlorobutadiene	2019/07/16					92	%	50 - 130
Hexachloroethane	2019/07/16					80	%	50 - 130
Methoxychlor	2019/07/16					106	%	50 - 130
6227712	LPG	RPD				Aroclor 1242	2019/07/16	200 (2)
			Aldrin	2019/07/16	NC		%	40
			a-Chlordane	2019/07/16	NC		%	40
			g-Chlordane	2019/07/16	NC		%	40
			o,p-DDD	2019/07/16	NC		%	40
			p,p-DDD	2019/07/16	NC		%	40
			o,p-DDE	2019/07/16	NC		%	40
			p,p-DDE	2019/07/16	NC		%	40



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			o,p-DDT	2019/07/16	NC		%	40
			p,p-DDT	2019/07/16	NC		%	40
			Dieldrin	2019/07/16	NC		%	40
			Lindane	2019/07/16	NC		%	40
			Endosulfan I (alpha)	2019/07/16	NC		%	40
			Endosulfan II (beta)	2019/07/16	NC		%	40
			Endrin	2019/07/16	NC		%	40
			Heptachlor	2019/07/16	NC		%	40
			Heptachlor epoxide	2019/07/16	NC		%	40
			Hexachlorobenzene	2019/07/16	NC		%	40
			Hexachlorobutadiene	2019/07/16	NC		%	40
			Hexachloroethane	2019/07/16	NC		%	40
			Methoxychlor	2019/07/16	NC		%	40
			Aroclor 1242	2019/07/16	NC		%	40
			Aroclor 1248	2019/07/16	NC		%	40
			Aroclor 1254	2019/07/16	NC		%	40
			Aroclor 1260	2019/07/16	NC		%	40
6227712	LPG	Method Blank	2,4,5,6-Tetrachloro-m-xylene	2019/07/16		120	%	50 - 130
			Decachlorobiphenyl	2019/07/16		85	%	50 - 130
			Aldrin	2019/07/16	ND, RDL=0.0020		ug/g	
			a-Chlordane	2019/07/16	ND, RDL=0.0020		ug/g	
			g-Chlordane	2019/07/16	ND, RDL=0.0020		ug/g	
			o,p-DDD	2019/07/16	ND, RDL=0.0020		ug/g	
			p,p-DDD	2019/07/16	ND, RDL=0.0020		ug/g	
			o,p-DDE	2019/07/16	ND, RDL=0.0020		ug/g	
			p,p-DDE	2019/07/16	ND, RDL=0.0020		ug/g	
			o,p-DDT	2019/07/16	ND, RDL=0.0020		ug/g	
			p,p-DDT	2019/07/16	ND, RDL=0.0020		ug/g	
			Dieldrin	2019/07/16	ND, RDL=0.0020		ug/g	
			Lindane	2019/07/16	ND, RDL=0.0020		ug/g	
			Endosulfan I (alpha)	2019/07/16	ND, RDL=0.0020		ug/g	
			Endosulfan II (beta)	2019/07/16	ND, RDL=0.0020		ug/g	
			Endrin	2019/07/16	ND, RDL=0.0020		ug/g	
			Heptachlor	2019/07/16	ND, RDL=0.0020		ug/g	
			Heptachlor epoxide	2019/07/16	ND, RDL=0.0020		ug/g	
			Hexachlorobenzene	2019/07/16	ND, RDL=0.0020		ug/g	



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Hexachlorobutadiene	2019/07/16	ND, RDL=0.0020		ug/g	
			Hexachloroethane	2019/07/16	ND, RDL=0.0020		ug/g	
			Methoxychlor	2019/07/16	ND, RDL=0.0050		ug/g	
			Aroclor 1242	2019/07/16	ND, RDL=0.015		ug/g	
			Aroclor 1248	2019/07/16	ND, RDL=0.015		ug/g	
			Aroclor 1254	2019/07/16	ND, RDL=0.015		ug/g	
			Aroclor 1260	2019/07/16	ND, RDL=0.015		ug/g	
6227928	GYA	RPD	Moisture	2019/07/15	3.1		%	20
6228044	BG1	Matrix Spike [KGA213-03]	4-Bromofluorobenzene	2019/07/19		101	%	60 - 140
			D10-o-Xylene	2019/07/19		105	%	60 - 130
			D4-1,2-Dichloroethane	2019/07/19		109	%	60 - 140
			D8-Toluene	2019/07/19		99	%	60 - 140
			Acetone (2-Propanone)	2019/07/19		100	%	60 - 140
			Benzene	2019/07/19		99	%	60 - 140
			Bromodichloromethane	2019/07/19		95	%	60 - 140
			Bromoform	2019/07/19		96	%	60 - 140
			Bromomethane	2019/07/19		122	%	60 - 140
			Carbon Tetrachloride	2019/07/19		99	%	60 - 140
			Chlorobenzene	2019/07/19		91	%	60 - 140
			Chloroform	2019/07/19		95	%	60 - 140
			Dibromochloromethane	2019/07/19		98	%	60 - 140
			1,2-Dichlorobenzene	2019/07/19		86	%	60 - 140
			1,3-Dichlorobenzene	2019/07/19		88	%	60 - 140
			1,4-Dichlorobenzene	2019/07/19		92	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2019/07/19		99	%	60 - 140
			1,1-Dichloroethane	2019/07/19		96	%	60 - 140
			1,2-Dichloroethane	2019/07/19		107	%	60 - 140
			1,1-Dichloroethylene	2019/07/19		105	%	60 - 140
			cis-1,2-Dichloroethylene	2019/07/19		94	%	60 - 140
			trans-1,2-Dichloroethylene	2019/07/19		97	%	60 - 140
			1,2-Dichloropropane	2019/07/19		94	%	60 - 140
			cis-1,3-Dichloropropene	2019/07/19		74	%	60 - 140
			trans-1,3-Dichloropropene	2019/07/19		71	%	60 - 140
			Ethylbenzene	2019/07/19		89	%	60 - 140
			Ethylene Dibromide	2019/07/19		97	%	60 - 140
			Hexane	2019/07/19		99	%	60 - 140
			Methylene Chloride(Dichloromethane)	2019/07/19		91	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2019/07/19		103	%	60 - 140
			Methyl Isobutyl Ketone	2019/07/19		100	%	60 - 140
			Methyl t-butyl ether (MTBE)	2019/07/19		88	%	60 - 140
			Styrene	2019/07/19		88	%	60 - 140
			1,1,1,2-Tetrachloroethane	2019/07/19		99	%	60 - 140
			1,1,2,2-Tetrachloroethane	2019/07/19		97	%	60 - 140
			Tetrachloroethylene	2019/07/19		89	%	60 - 140
			Toluene	2019/07/19		86	%	60 - 140
			1,1,1-Trichloroethane	2019/07/19		99	%	60 - 140



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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				1,1,2-Trichloroethane	2019/07/19		103	%	60 - 140
				Trichloroethylene	2019/07/19		100	%	60 - 140
				Trichlorofluoromethane (FREON 11)	2019/07/19		117	%	60 - 140
				Vinyl Chloride	2019/07/19		103	%	60 - 140
				p+m-Xylene	2019/07/19		93	%	60 - 140
				o-Xylene	2019/07/19		91	%	60 - 140
				F1 (C6-C10)	2019/07/19		103	%	60 - 140
6228044	BG1		Spiked Blank	4-Bromofluorobenzene	2019/07/19		101	%	60 - 140
				D10-o-Xylene	2019/07/19		97	%	60 - 130
				D4-1,2-Dichloroethane	2019/07/19		108	%	60 - 140
				D8-Toluene	2019/07/19		100	%	60 - 140
				Acetone (2-Propanone)	2019/07/19		101	%	60 - 140
				Benzene	2019/07/19		99	%	60 - 130
				Bromodichloromethane	2019/07/19		96	%	60 - 130
				Bromoform	2019/07/19		97	%	60 - 130
				Bromomethane	2019/07/19		124	%	60 - 140
				Carbon Tetrachloride	2019/07/19		100	%	60 - 130
				Chlorobenzene	2019/07/19		91	%	60 - 130
				Chloroform	2019/07/19		95	%	60 - 130
				Dibromochloromethane	2019/07/19		99	%	60 - 130
				1,2-Dichlorobenzene	2019/07/19		89	%	60 - 130
				1,3-Dichlorobenzene	2019/07/19		91	%	60 - 130
				1,4-Dichlorobenzene	2019/07/19		93	%	60 - 130
				Dichlorodifluoromethane (FREON 12)	2019/07/19		102	%	60 - 140
				1,1-Dichloroethane	2019/07/19		97	%	60 - 130
				1,2-Dichloroethane	2019/07/19		107	%	60 - 130
				1,1-Dichloroethylene	2019/07/19		105	%	60 - 130
				cis-1,2-Dichloroethylene	2019/07/19		94	%	60 - 130
				trans-1,2-Dichloroethylene	2019/07/19		97	%	60 - 130
				1,2-Dichloropropane	2019/07/19		93	%	60 - 130
				cis-1,3-Dichloropropene	2019/07/19		80	%	60 - 130
				trans-1,3-Dichloropropene	2019/07/19		76	%	60 - 130
				Ethylbenzene	2019/07/19		90	%	60 - 130
				Ethylene Dibromide	2019/07/19		97	%	60 - 130
				Hexane	2019/07/19		102	%	60 - 130
				Methylene Chloride(Dichloromethane)	2019/07/19		91	%	60 - 130
				Methyl Ethyl Ketone (2-Butanone)	2019/07/19		105	%	60 - 140
				Methyl Isobutyl Ketone	2019/07/19		101	%	60 - 130
				Methyl t-butyl ether (MTBE)	2019/07/19		88	%	60 - 130
				Styrene	2019/07/19		89	%	60 - 130
				1,1,1,2-Tetrachloroethane	2019/07/19		100	%	60 - 130
				1,1,2,2-Tetrachloroethane	2019/07/19		99	%	60 - 130
				Tetrachloroethylene	2019/07/19		89	%	60 - 130
				Toluene	2019/07/19		86	%	60 - 130
				1,1,1-Trichloroethane	2019/07/19		100	%	60 - 130
				1,1,2-Trichloroethane	2019/07/19		103	%	60 - 130
				Trichloroethylene	2019/07/19		101	%	60 - 130
				Trichlorofluoromethane (FREON 11)	2019/07/19		119	%	60 - 130
				Vinyl Chloride	2019/07/19		103	%	60 - 130
				p+m-Xylene	2019/07/19		94	%	60 - 130
				o-Xylene	2019/07/19		92	%	60 - 130
				F1 (C6-C10)	2019/07/19		93	%	80 - 120
6228044	BG1		Method Blank	4-Bromofluorobenzene	2019/07/19		99	%	60 - 140



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			D10-o-Xylene	2019/07/19		100	%	60 - 130
			D4-1,2-Dichloroethane	2019/07/19		106	%	60 - 140
			D8-Toluene	2019/07/19		97	%	60 - 140
			Acetone (2-Propanone)	2019/07/19	ND, RDL=0.50		ug/g	
			Benzene	2019/07/19	ND, RDL=0.020		ug/g	
			Bromodichloromethane	2019/07/19	ND, RDL=0.050		ug/g	
			Bromoform	2019/07/19	ND, RDL=0.050		ug/g	
			Bromomethane	2019/07/19	ND, RDL=0.050		ug/g	
			Carbon Tetrachloride	2019/07/19	ND, RDL=0.050		ug/g	
			Chlorobenzene	2019/07/19	ND, RDL=0.050		ug/g	
			Chloroform	2019/07/19	ND, RDL=0.050		ug/g	
			Dibromochloromethane	2019/07/19	ND, RDL=0.050		ug/g	
			1,2-Dichlorobenzene	2019/07/19	ND, RDL=0.050		ug/g	
			1,3-Dichlorobenzene	2019/07/19	ND, RDL=0.050		ug/g	
			1,4-Dichlorobenzene	2019/07/19	ND, RDL=0.050		ug/g	
			Dichlorodifluoromethane (FREON 12)	2019/07/19	ND, RDL=0.050		ug/g	
			1,1-Dichloroethane	2019/07/19	ND, RDL=0.050		ug/g	
			1,2-Dichloroethane	2019/07/19	ND, RDL=0.050		ug/g	
			1,1-Dichloroethylene	2019/07/19	ND, RDL=0.050		ug/g	
			cis-1,2-Dichloroethylene	2019/07/19	ND, RDL=0.050		ug/g	
			trans-1,2-Dichloroethylene	2019/07/19	ND, RDL=0.050		ug/g	
			1,2-Dichloropropane	2019/07/19	ND, RDL=0.050		ug/g	
			cis-1,3-Dichloropropene	2019/07/19	ND, RDL=0.030		ug/g	
			trans-1,3-Dichloropropene	2019/07/19	ND, RDL=0.040		ug/g	
			Ethylbenzene	2019/07/19	ND, RDL=0.020		ug/g	
			Ethylene Dibromide	2019/07/19	ND, RDL=0.050		ug/g	
			Hexane	2019/07/19	ND, RDL=0.050		ug/g	
			Methylene Chloride(Dichloromethane)	2019/07/19	ND, RDL=0.050		ug/g	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Methyl Ethyl Ketone (2-Butanone)	2019/07/19	ND, RDL=0.50		ug/g	
			Methyl Isobutyl Ketone	2019/07/19	ND, RDL=0.50		ug/g	
			Methyl t-butyl ether (MTBE)	2019/07/19	ND, RDL=0.050		ug/g	
			Styrene	2019/07/19	ND, RDL=0.050		ug/g	
			1,1,1,2-Tetrachloroethane	2019/07/19	ND, RDL=0.050		ug/g	
			1,1,2,2-Tetrachloroethane	2019/07/19	ND, RDL=0.050		ug/g	
			Tetrachloroethylene	2019/07/19	ND, RDL=0.050		ug/g	
			Toluene	2019/07/19	ND, RDL=0.020		ug/g	
			1,1,1-Trichloroethane	2019/07/19	ND, RDL=0.050		ug/g	
			1,1,2-Trichloroethane	2019/07/19	ND, RDL=0.050		ug/g	
			Trichloroethylene	2019/07/19	ND, RDL=0.050		ug/g	
			Trichlorofluoromethane (FREON 11)	2019/07/19	ND, RDL=0.050		ug/g	
			Vinyl Chloride	2019/07/19	ND, RDL=0.020		ug/g	
			p+m-Xylene	2019/07/19	ND, RDL=0.020		ug/g	
			o-Xylene	2019/07/19	ND, RDL=0.020		ug/g	
			Total Xylenes	2019/07/19	ND, RDL=0.020		ug/g	
			F1 (C6-C10)	2019/07/19	ND, RDL=10		ug/g	
			F1 (C6-C10) - BTEX	2019/07/19	ND, RDL=10		ug/g	
6228044	BG1	RPD [KGA213-03]	Acetone (2-Propanone)	2019/07/19	NC		%	50
			Benzene	2019/07/19	NC		%	50
			Bromodichloromethane	2019/07/19	NC		%	50
			Bromoform	2019/07/19	NC		%	50
			Bromomethane	2019/07/19	NC		%	50
			Carbon Tetrachloride	2019/07/19	NC		%	50
			Chlorobenzene	2019/07/19	NC		%	50
			Chloroethane	2019/07/19	NC		%	50
			Chloroform	2019/07/19	NC		%	50
			Chloromethane	2019/07/19	NC		%	50
			Dibromochloromethane	2019/07/19	NC		%	50
			1,2-Dichlorobenzene	2019/07/19	NC		%	50
			1,3-Dichlorobenzene	2019/07/19	NC		%	50
			1,4-Dichlorobenzene	2019/07/19	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2019/07/19	NC		%	50
			1,1-Dichloroethane	2019/07/19	NC		%	50
			1,2-Dichloroethane	2019/07/19	NC		%	50
			1,1-Dichloroethylene	2019/07/19	NC		%	50



BUREAU
VERITAS

BV Labs Job #: B9J1230
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R J Burnside & Associates Ltd
Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				cis-1,2-Dichloroethylene	2019/07/19	NC		%	50
				trans-1,2-Dichloroethylene	2019/07/19	NC		%	50
				1,2-Dichloropropane	2019/07/19	NC		%	50
				cis-1,3-Dichloropropene	2019/07/19	NC		%	50
				trans-1,3-Dichloropropene	2019/07/19	NC		%	50
				Ethylbenzene	2019/07/19	NC		%	50
				Ethylene Dibromide	2019/07/19	NC		%	50
				Hexane	2019/07/19	NC		%	50
				Methylene Chloride(Dichloromethane)	2019/07/19	NC		%	50
				Methyl Ethyl Ketone (2-Butanone)	2019/07/19	NC		%	50
				Methyl Isobutyl Ketone	2019/07/19	NC		%	50
				Methyl t-butyl ether (MTBE)	2019/07/19	NC		%	50
				Styrene	2019/07/19	NC		%	50
				1,1,1,2-Tetrachloroethane	2019/07/19	NC		%	50
				1,1,2,2-Tetrachloroethane	2019/07/19	NC		%	50
				Tetrachloroethylene	2019/07/19	NC		%	50
				Toluene	2019/07/19	NC		%	50
				1,1,1-Trichloroethane	2019/07/19	NC		%	50
				1,1,2-Trichloroethane	2019/07/19	NC		%	50
				Trichloroethylene	2019/07/19	NC		%	50
				Trichlorofluoromethane (FREON 11)	2019/07/19	NC		%	50
				Vinyl Chloride	2019/07/19	NC		%	50
				p+m-Xylene	2019/07/19	NC		%	50
				o-Xylene	2019/07/19	NC		%	50
				Total Xylenes	2019/07/19	NC		%	50
				F1 (C6-C10)	2019/07/19	NC		%	30
				F1 (C6-C10) - BTEX	2019/07/19	NC		%	30
6228156	JMP	RPD	[KGA206-01]	Moisture	2019/07/15	2.2		%	20
6229728	SAU	Spiked Blank		Available (CaCl2) pH	2019/07/16		100	%	97 - 103
6229728	SAU	RPD		Available (CaCl2) pH	2019/07/16	0.52		%	N/A
6233904	GRU	Matrix Spike		1,4-Difluorobenzene	2019/07/18		104	%	60 - 140
				4-Bromofluorobenzene	2019/07/18		97	%	60 - 140
				D10-Ethylbenzene	2019/07/18		89	%	60 - 140
				D4-1,2-Dichloroethane	2019/07/18		98	%	60 - 140
				Benzene	2019/07/18		89	%	60 - 140
				Toluene	2019/07/18		98	%	60 - 140
				Ethylbenzene	2019/07/18		95	%	60 - 140
				o-Xylene	2019/07/18		92	%	60 - 140
				p+m-Xylene	2019/07/18		94	%	60 - 140
				F1 (C6-C10)	2019/07/18		98	%	60 - 140
6233904	GRU	Spiked Blank		1,4-Difluorobenzene	2019/07/18		103	%	60 - 140
				4-Bromofluorobenzene	2019/07/18		97	%	60 - 140
				D10-Ethylbenzene	2019/07/18		82	%	60 - 140
				D4-1,2-Dichloroethane	2019/07/18		99	%	60 - 140
				Benzene	2019/07/18		95	%	60 - 140
				Toluene	2019/07/18		103	%	60 - 140
				Ethylbenzene	2019/07/18		100	%	60 - 140
				o-Xylene	2019/07/18		97	%	60 - 140
				p+m-Xylene	2019/07/18		97	%	60 - 140
				F1 (C6-C10)	2019/07/18		101	%	80 - 120
6233904	GRU	Method Blank		1,4-Difluorobenzene	2019/07/18		103	%	60 - 140
				4-Bromofluorobenzene	2019/07/18		97	%	60 - 140
				D10-Ethylbenzene	2019/07/18		84	%	60 - 140



BUREAU
VERITAS

BV Labs Job #: B9J1230
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Client Project #: 300043649.0000
Site Location: 6119 TRAFALGAR RD
Sampler Initials: IM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			D4-1,2-Dichloroethane	2019/07/18		98	%	60 - 140
			Benzene	2019/07/18	ND, RDL=0.020		ug/g	
			Toluene	2019/07/18	ND, RDL=0.020		ug/g	
			Ethylbenzene	2019/07/18	ND, RDL=0.020		ug/g	
			o-Xylene	2019/07/18	ND, RDL=0.020		ug/g	
			p+m-Xylene	2019/07/18	ND, RDL=0.040		ug/g	
			Total Xylenes	2019/07/18	ND, RDL=0.040		ug/g	
			F1 (C6-C10)	2019/07/18	ND, RDL=10		ug/g	
			F1 (C6-C10) - BTEX	2019/07/18	ND, RDL=10		ug/g	
6233904	GRU	RPD	Benzene	2019/07/18	NC		%	50
			Toluene	2019/07/18	NC		%	50
			Ethylbenzene	2019/07/18	NC		%	50
			o-Xylene	2019/07/18	NC		%	50
			p+m-Xylene	2019/07/18	NC		%	50
			Total Xylenes	2019/07/18	NC		%	50
			F1 (C6-C10)	2019/07/18	NC		%	30
			F1 (C6-C10) - BTEX	2019/07/18	NC		%	30
6236580	DPO	Matrix Spike [KGA212-01]	o-Terphenyl	2019/07/19		101	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2019/07/19		93	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2019/07/19		106	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2019/07/19		96	%	50 - 130
6236580	DPO	Spiked Blank	o-Terphenyl	2019/07/19		102	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2019/07/19		93	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2019/07/19		105	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2019/07/19		97	%	80 - 120
6236580	DPO	Method Blank	o-Terphenyl	2019/07/19		98	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2019/07/19	ND, RDL=10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2019/07/19	ND, RDL=50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2019/07/19	ND, RDL=50		ug/g	
6236580	DPO	RPD [KGA212-01]	F2 (C10-C16 Hydrocarbons)	2019/07/19	NC		%	30
			F3 (C16 - OT Hydrocarbons)	2019/07/19	52		%	N/A
			F3 (OT- C34 Hydrocarbons)	2019/07/19	41		%	N/A
			F3 (C16-C34 Hydrocarbons)	2019/07/19	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2019/07/19	NC		%	30
6247576	GUL	Matrix Spike	o-Terphenyl	2019/07/25		96	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2019/07/25		107	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2019/07/25		103	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2019/07/25		100	%	50 - 130
6247576	GUL	Spiked Blank	o-Terphenyl	2019/07/25		102	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2019/07/25		109	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2019/07/25		104	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2019/07/25		101	%	80 - 120



BUREAU
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BV Labs Job #: B9J1230
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R J Burnside & Associates Ltd
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Sampler Initials: IM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
6247576	GUL	Method Blank	o-Terphenyl	2019/07/25		100	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2019/07/25	ND, RDL=10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2019/07/25	ND, RDL=50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2019/07/25	ND, RDL=50		ug/g	
6253443	GUL	Matrix Spike	o-Terphenyl	2019/07/29		83	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2019/07/29		79	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2019/07/29		87	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2019/07/29		81	%	50 - 130
6253443	GUL	Spiked Blank	o-Terphenyl	2019/07/30		83	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2019/07/30		80	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2019/07/30		83	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2019/07/30		84	%	80 - 120
6253443	GUL	Method Blank	o-Terphenyl	2019/07/29		83	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2019/07/29	ND, RDL=10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2019/07/29	ND, RDL=50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2019/07/29	ND, RDL=50		ug/g	
6253443	GUL	RPD	F3 (C16-C34 Hydrocarbons)	2019/07/30	NC		%	30
6279181	GYA	QC Standard	Sieve - #200 (<0.075mm)	2019/08/15		54	%	53 - 58
			Sieve - #200 (>0.075mm)	2019/08/15		46	%	42 - 47
6279181	GYA	RPD	Sieve - #200 (<0.075mm)	2019/08/15	3.1		%	20
			Sieve - #200 (>0.075mm)	2019/08/15	9.0		%	20

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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

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

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

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Due to sample matrix, the recovery for the flagged target analyte was below the control limit as stipulated by Ontario Regulation 153, however, this recovery is still within Bureau Veritas Laboratories' performance based limits. Results reported for this specific analyte with spike recoveries within this range are still valid but may have an associated low bias.

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



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BV Labs Job #: B9J1230
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R J Burnside & Associates Ltd
Client Project #: 300043649.0000
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Sampler Initials: IM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Brad Newman, Scientific Service Specialist

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

BV Labs 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 Signature Page.



CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

**15 Townline
Orangeville, ON L9W3R4
(519) 941-5331**

ATTENTION TO: Kathleen Langstaff

PROJECT: WSDC

AGAT WORK ORDER: 25T290145

TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor

DATE REPORTED: May 14, 2025

PAGES (INCLUDING COVER): 8

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

***Notes**

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
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- The test results reported herewith relate only to the samples as received by the laboratory.
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- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.



Certificate of Analysis

AGAT WORK ORDER: 25T290145

PROJECT: WSDC

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
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CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Kathleen Langstaff

SAMPLING SITE:

SAMPLED BY:KL

O. Reg. 153(511) - OC Pesticides (Soil)

DATE RECEIVED: 2025-05-12

DATE REPORTED: 2025-05-14

Parameter	Unit	SAMPLE DESCRIPTION:		SS-1	SS-2	SS-3
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2025-05-04	2025-05-04	2025-05-04
	G / S	RDL	6731163	6731164	6731165	
Hexachloroethane	µg/g	0.01	0.005	<0.005	<0.005	<0.005
Gamma-Hexachlorocyclohexane	µg/g	0.01	0.005	<0.005	<0.005	<0.005
Heptachlor	µg/g	0.05	0.005	<0.005	<0.005	<0.005
Aldrin	µg/g	0.05	0.005	<0.005	<0.005	<0.005
Heptachlor Epoxide	µg/g	0.05	0.005	<0.005	<0.005	<0.005
Endosulfan I	µg/g		0.005	<0.005	<0.005	<0.005
Endosulfan II	µg/g		0.005	<0.005	<0.005	<0.005
Endosulfan	µg/g	0.04	0.005	<0.005	<0.005	<0.005
Alpha-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005
gamma-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005
Chlordane	µg/g	0.05	0.007	<0.007	<0.007	<0.007
op'-DDE	ug/g		0.005	<0.005	<0.005	<0.005
pp'-DDE	µg/g		0.005	<0.005	<0.005	<0.005
DDE	µg/g	0.05	0.007	<0.007	<0.007	<0.007
op'-DDD	µg/g		0.005	<0.005	<0.005	<0.005
pp'-DDD	µg/g		0.005	<0.005	<0.005	<0.005
DDD	µg/g	0.05	0.007	<0.007	<0.007	<0.007
op'-DDT	µg/g		0.005	<0.005	<0.005	<0.005
pp'-DDT	µg/g		0.005	<0.005	<0.005	<0.005
DDT (Total)	µg/g	1.4	0.007	<0.007	<0.007	<0.007
Dieldrin	µg/g	0.05	0.005	<0.005	<0.005	<0.005
Endrin	µg/g	0.04	0.005	<0.005	<0.005	<0.005
Methoxychlor	µg/g	0.05	0.005	<0.005	<0.005	<0.005
Hexachlorobenzene	µg/g	0.02	0.005	<0.005	<0.005	<0.005
Hexachlorobutadiene	µg/g	0.01	0.01	<0.01	<0.01	<0.01
Moisture Content	%		0.1	7.0	7.3	7.7
wet weight OC	g		0.01	10.67	10.29	10.37
Surrogate	Unit	Acceptable Limits				
TCMX	%	50-140		105	90	79
Decachlorobiphenyl	%	50-140		93	85	83

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 25T290145

PROJECT: WSDC

5835 COOPERS AVENUE
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CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Kathleen Langstaff

SAMPLING SITE:

SAMPLED BY:KL

O. Reg. 153(511) - OC Pesticides (Soil)

DATE RECEIVED: 2025-05-12

DATE REPORTED: 2025-05-14

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Ground Water Condition - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6731163-6731165 Results are based on the dry weight of the soil.
DDT total is a calculated parameter. The calculated value is the sum of op'DDT and pp'DDT.
DDD total is a calculated parameter. The calculated value is the sum of op'DDD and pp'DDD.
DDE total is a calculated parameter. The calculated value is the sum of op'DDE and pp'DDE.
Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.
Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 25T290145

PROJECT: WSDC

5835 COOPERS AVENUE
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CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Kathleen Langstaff

SAMPLING SITE:

SAMPLED BY:KL

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2025-05-12

DATE REPORTED: 2025-05-14

Parameter	Unit	SAMPLE DESCRIPTION:		SS-4	SS-5	SS-6	SS-7	SS-8	SS-4DUP
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2025-05-04	2025-05-04	2025-05-04	2025-05-04	2025-05-04	2025-05-04
		G / S	RDL	6731166	6731168	6731169	6731170	6731171	6731172
Benzene	µg/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	0.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g		5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	25	5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	10	10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	240	50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	120	50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	120	50	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	10.9	12.0	12.0	9.1	8.5	9.8
Surrogate	Unit	Acceptable Limits							
Toluene-d8	% Recovery	60-140		62	65	62	62	64	62
Terphenyl	%	60-140		98	95	92	102	108	95

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 25T290145

PROJECT: WSDC

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Kathleen Langstaff

SAMPLING SITE:

SAMPLED BY:KL

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2025-05-12

DATE REPORTED: 2025-05-14

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Ground Water Condition - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6731166-6731172 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
PROJECT: WSDC
SAMPLING SITE:

AGAT WORK ORDER: 25T290145
ATTENTION TO: Kathleen Langstaff
SAMPLED BY: KL

Trace Organics Analysis

RPT Date: May 14, 2025			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	

O. Reg. 153(511) - OC Pesticides (Soil)

Hexachloroethane	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	84%	50%	140%	76%	50%	140%	96%	50%	140%
Gamma-Hexachlorocyclohexane	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	93%	50%	140%	86%	50%	140%	89%	50%	140%
Heptachlor	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	93%	50%	140%	97%	50%	140%	106%	50%	140%
Aldrin	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	96%	50%	140%	93%	50%	140%	101%	50%	140%
Heptachlor Epoxide	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	91%	50%	140%	89%	50%	140%	97%	50%	140%
Endosulfan I	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	97%	50%	140%	99%	50%	140%	95%	50%	140%
Endosulfan II	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	96%	50%	140%	98%	50%	140%	99%	50%	140%
Alpha-Chlordane	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	97%	50%	140%	98%	50%	140%	93%	50%	140%
gamma-Chlordane	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	94%	50%	140%	97%	50%	140%	89%	50%	140%
op'-DDE	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	105%	50%	140%	104%	50%	140%	106%	50%	140%
pp'-DDE	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	86%	50%	140%	89%	50%	140%	96%	50%	140%
op'-DDD	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	117%	50%	140%	104%	50%	140%	92%	50%	140%
pp'-DDD	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	117%	50%	140%	83%	50%	140%	80%	50%	140%
op'-DDT	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	82%	50%	140%	103%	50%	140%	112%	50%	140%
pp'-DDT	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	90%	50%	140%	89%	50%	140%	118%	50%	140%
Dieldrin	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	84%	50%	140%	115%	50%	140%	102%	50%	140%
Endrin	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	85%	50%	140%	109%	50%	140%	103%	50%	140%
Methoxychlor	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	108%	50%	140%	102%	50%	140%	86%	50%	140%
Hexachlorobenzene	6731165	6731165	< 0.005	< 0.005	NA	< 0.005	104%	50%	140%	93%	50%	140%	104%	50%	140%
Hexachlorobutadiene	6731165	6731165	< 0.01	< 0.01	NA	< 0.01	86%	50%	140%	105%	50%	140%	87%	50%	140%

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Benzene	6726768		<0.02	<0.02	NA	< 0.02	61%	60%	140%	69%	60%	140%	74%	60%	140%
Toluene	6726768		<0.05	<0.05	NA	< 0.05	76%	60%	140%	69%	60%	140%	70%	60%	140%
Ethylbenzene	6726768		<0.05	<0.05	NA	< 0.05	68%	60%	140%	84%	60%	140%	77%	60%	140%
m & p-Xylene	6726768		<0.05	<0.05	NA	< 0.05	92%	60%	140%	91%	60%	140%	85%	60%	140%
o-Xylene	6726768		<0.05	<0.05	NA	< 0.05	68%	60%	140%	66%	60%	140%	71%	60%	140%
F1 (C6 to C10)	6726768		<5	<5	NA	< 5	90%	60%	140%	89%	60%	140%	92%	60%	140%
F2 (C10 to C16)	6718689		< 10	< 10	NA	< 10	109%	60%	140%	120%	60%	140%	86%	60%	140%
F3 (C16 to C34)	6718689		< 50	< 50	NA	< 50	119%	60%	140%	117%	60%	140%	74%	60%	140%
F4 (C34 to C50)	6718689		< 50	< 50	NA	< 50	100%	60%	140%	97%	60%	140%	67%	60%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: _____



Method Summary

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 25T290145

PROJECT: WSDC

ATTENTION TO: Kathleen Langstaff

SAMPLING SITE:

SAMPLED BY:KL

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Hexachloroethane	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
Gamma-Hexachlorocyclohexane	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
Heptachlor	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
Aldrin	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
Heptachlor Epoxide	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
Endosulfan I	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
Endosulfan II	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
Endosulfan	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	CALCULATION
Alpha-Chlordane	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
gamma-Chlordane	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
Chlordane	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	CALCULATION
op'-DDE	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
pp'-DDE	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
DDE	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
op'-DDD	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
pp'-DDD	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
DDD	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	CALCULATION
op'-DDT	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
pp'-DDT	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
DDT (Total)	ORG-91-5113	modified from EPA 3570, 3620C & 8081B	CALCULATION
Dieldrin	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
Endrin	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
Methoxychlor	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
Hexachlorobenzene	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
Hexachlorobutadiene	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
TCMX	ORG-91-5112	modified from EPA 3570 & 3620C & 8081B	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA 3570 & 3620C & 8081B	GC/ECD
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE

Method Summary

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 25T290145
PROJECT: WSDC
ATTENTION TO: Kathleen Langstaff
SAMPLING SITE:
SAMPLED BY:KL

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
wet weight OC	ORG-91-5113		BALANCE
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID



BURNSIDE

[THE DIFFERENCE IS OUR PEOPLE]

Appendix G

Laboratory Certificate of Analysis - Groundwater



Your Project #: 300043649
 Site Location: 6119 TRAFALGAR RD , OAKVILLE
 Your C.O.C. #: 126814

Attention: Ian Murphy

R J Burnside & Associates Ltd
 292 Speedvale Ave W
 Unit 20
 Guelph, ON
 CANADA N1H 1C4

Report Date: 2019/08/08
 Report #: R5830966
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9L3282

Received: 2019/08/01, 15:19

Sample Matrix: Water
 # Samples Received: 5

Analyses	Quantity	Date	Date	Laboratory Method	Reference
		Extracted	Analyzed		
1,3-Dichloropropene Sum	1	N/A	2019/08/07		EPA 8260C m
1,3-Dichloropropene Sum	1	N/A	2019/08/08		EPA 8260C m
Petroleum Hydro. CCME F1 & BTEX in Water	3	N/A	2019/08/07	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	4	2019/08/06	2019/08/07	CAM SOP-00316	CCME PHC-CWS m
Volatile Organic Compounds and F1 PHCs	1	N/A	2019/08/07	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds in Water	1	N/A	2019/08/07	CAM SOP-00228	EPA 8260C m

Remarks:

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

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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

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

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

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories 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.



Your Project #: 300043649
Site Location: 6119 TRAFALGAR RD , OAKVILLE
Your C.O.C. #: 126814

Attention: Ian Murphy

R J Burnside & Associates Ltd
292 Speedvale Ave W
Unit 20
Guelph, ON
CANADA N1H 1C4

Report Date: 2019/08/08
Report #: R5830966
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9L3282
Received: 2019/08/01, 15:19

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Ashton Gibson, Project Manager
Email: Ashton.Gibson@bvlab.com
Phone# (905)817-5765

=====

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

BV Labs 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 Signature Page.



BUREAU
VERITAS

BV Labs Job #: B9L3282
Report Date: 2019/08/08

R J Burnside & Associates Ltd
Client Project #: 300043649
Site Location: 6119 TRAFALGAR RD , OAKVILLE
Sampler Initials: MV

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		KKQ105			KKQ108		
Sampling Date		2019/07/31			2019/07/31		
COC Number		126814			126814		
	UNITS	MW2-19	RDL	QC Batch	TRIP BLANK LOT # 3635	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	ND	0.50	6262162	ND	0.50	6262162
Volatile Organics							
Acetone (2-Propanone)	ug/L	ND	10	6263228	ND	10	6262236
Benzene	ug/L	ND	0.20	6263228	ND	0.20	6262236
Bromodichloromethane	ug/L	ND	0.50	6263228	ND	0.50	6262236
Bromoform	ug/L	ND	1.0	6263228	ND	1.0	6262236
Bromomethane	ug/L	ND	0.50	6263228	ND	0.50	6262236
Carbon Tetrachloride	ug/L	ND	0.20	6263228	ND	0.20	6262236
Chlorobenzene	ug/L	ND	0.20	6263228	ND	0.20	6262236
Chloroform	ug/L	ND	0.20	6263228	ND	0.20	6262236
Dibromochloromethane	ug/L	ND	0.50	6263228	ND	0.50	6262236
1,2-Dichlorobenzene	ug/L	ND	0.50	6263228	ND	0.50	6262236
1,3-Dichlorobenzene	ug/L	ND	0.50	6263228	ND	0.50	6262236
1,4-Dichlorobenzene	ug/L	ND	0.50	6263228	ND	0.50	6262236
Dichlorodifluoromethane (FREON 12)	ug/L	ND	1.0	6263228	ND	1.0	6262236
1,1-Dichloroethane	ug/L	ND	0.20	6263228	ND	0.20	6262236
1,2-Dichloroethane	ug/L	ND	0.50	6263228	ND	0.50	6262236
1,1-Dichloroethylene	ug/L	ND	0.20	6263228	ND	0.20	6262236
cis-1,2-Dichloroethylene	ug/L	ND	0.50	6263228	ND	0.50	6262236
trans-1,2-Dichloroethylene	ug/L	ND	0.50	6263228	ND	0.50	6262236
1,2-Dichloropropane	ug/L	ND	0.20	6263228	ND	0.20	6262236
cis-1,3-Dichloropropene	ug/L	ND	0.30	6263228	ND	0.30	6262236
trans-1,3-Dichloropropene	ug/L	ND	0.40	6263228	ND	0.40	6262236
Ethylbenzene	ug/L	ND	0.20	6263228	ND	0.20	6262236
Ethylene Dibromide	ug/L	ND	0.20	6263228	ND	0.20	6262236
Hexane	ug/L	ND	1.0	6263228	ND	1.0	6262236
Methylene Chloride(Dichloromethane)	ug/L	ND	2.0	6263228	ND	2.0	6262236
Methyl Ethyl Ketone (2-Butanone)	ug/L	ND	10	6263228	ND	10	6262236
Methyl Isobutyl Ketone	ug/L	ND	5.0	6263228	ND	5.0	6262236
Methyl t-butyl ether (MTBE)	ug/L	ND	0.50	6263228	ND	0.50	6262236
Styrene	ug/L	ND	0.50	6263228	ND	0.50	6262236
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	6263228	ND	0.50	6262236
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	6263228	ND	0.50	6262236
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected							



BUREAU
VERITAS

BV Labs Job #: B9L3282
Report Date: 2019/08/08

R J Burnside & Associates Ltd
Client Project #: 300043649
Site Location: 6119 TRAFALGAR RD , OAKVILLE
Sampler Initials: MV

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		KKQ105			KKQ108		
Sampling Date		2019/07/31			2019/07/31		
COC Number		126814			126814		
	UNITS	MW2-19	RDL	QC Batch	TRIP BLANK LOT # 3635	RDL	QC Batch
Tetrachloroethylene	ug/L	ND	0.20	6263228	ND	0.20	6262236
Toluene	ug/L	0.29	0.20	6263228	ND	0.20	6262236
1,1,1-Trichloroethane	ug/L	ND	0.20	6263228	ND	0.20	6262236
1,1,2-Trichloroethane	ug/L	ND	0.50	6263228	ND	0.50	6262236
Trichloroethylene	ug/L	ND	0.20	6263228	ND	0.20	6262236
Trichlorofluoromethane (FREON 11)	ug/L	ND	0.50	6263228	ND	0.50	6262236
Vinyl Chloride	ug/L	ND	0.20	6263228	ND	0.20	6262236
p+m-Xylene	ug/L	0.24	0.20	6263228	ND	0.20	6262236
o-Xylene	ug/L	0.23	0.20	6263228	ND	0.20	6262236
Total Xylenes	ug/L	0.47	0.20	6263228	ND	0.20	6262236
F1 (C6-C10)	ug/L	ND	25	6263228			
F1 (C6-C10) - BTEX	ug/L	ND	25	6263228			
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	95		6263228			
D4-1,2-Dichloroethane	%	112		6263228			
D8-Toluene	%	90		6263228			
4-Bromofluorobenzene	%				106		6262236
D4-1,2-Dichloroethane	%				111		6262236
D8-Toluene	%				92		6262236
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected							



BUREAU
VERITAS

BV Labs Job #: B9L3282
Report Date: 2019/08/08

R J Burnside & Associates Ltd
Client Project #: 300043649
Site Location: 6119 TRAFALGAR RD , OAKVILLE
Sampler Initials: MV

PETROLEUM HYDROCARBONS (CCME)

BV Labs ID		KKQ104			KKQ105	KKQ105			KKQ106	KKQ107		
Sampling Date		2019/07/31			2019/07/31	2019/07/31			2019/07/31	2019/07/31		
COC Number		126814			126814	126814			126814	126814		
	UNITS	MW1-19	RDL	QC Batch	MW2-19	MW2-19 Lab-Dup	RDL	QC Batch	MW3-19	DUP	RDL	QC Batch

BTEX & F1 Hydrocarbons												
Benzene	ug/L	ND	0.20	6268184					ND	ND	0.20	6268184
Toluene	ug/L	ND	0.20	6268184					ND	ND	0.20	6268184
Ethylbenzene	ug/L	ND	0.20	6268184					ND	ND	0.20	6268184
o-Xylene	ug/L	ND	0.20	6268184					ND	ND	0.20	6268184
p+m-Xylene	ug/L	ND	0.40	6268184					ND	ND	0.40	6268184
Total Xylenes	ug/L	ND	0.40	6268184					ND	ND	0.40	6268184
F1 (C6-C10)	ug/L	ND	25	6268184					ND	ND	25	6268184
F1 (C6-C10) - BTEX	ug/L	ND	25	6268184					ND	ND	25	6268184

F2-F4 Hydrocarbons												
F2 (C10-C16 Hydrocarbons)	ug/L	ND	100	6266069	ND	ND	100	6266069	ND	ND	100	6266069
F3 (C16-C34 Hydrocarbons)	ug/L	ND	200	6266069	ND	ND	200	6266069	ND	ND	200	6266069
F4 (C34-C50 Hydrocarbons)	ug/L	ND	200	6266069	ND	ND	200	6266069	ND	ND	200	6266069
Reached Baseline at C50	ug/L	Yes		6266069	Yes	Yes		6266069	Yes	Yes		6266069

Surrogate Recovery (%)												
1,4-Difluorobenzene	%	100		6268184					99	100		6268184
4-Bromofluorobenzene	%	101		6268184					98	94		6268184
D10-Ethylbenzene	%	103		6268184					106	103		6268184
D4-1,2-Dichloroethane	%	96		6268184					94	96		6268184
o-Terphenyl	%	106		6266069	105	101		6266069	102	103		6266069

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 ND = Not detected



BUREAU
VERITAS

BV Labs Job #: B9L3282
Report Date: 2019/08/08

R J Burnside & Associates Ltd
Client Project #: 300043649
Site Location: 6119 TRAFALGAR RD , OAKVILLE
Sampler Initials: MV

TEST SUMMARY

BV Labs ID: KKQ104
Sample ID: MW1-19
Matrix: Water

Collected: 2019/07/31
Shipped:
Received: 2019/08/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6268184	N/A	2019/08/07	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6266069	2019/08/06	2019/08/07	Prabhjot Gulati

BV Labs ID: KKQ105
Sample ID: MW2-19
Matrix: Water

Collected: 2019/07/31
Shipped:
Received: 2019/08/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6262162	N/A	2019/08/07	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6266069	2019/08/06	2019/08/07	Prabhjot Gulati
Volatile Organic Compounds and F1 PHCs	GC/MSFD	6263228	N/A	2019/08/07	Rebecca McClean

BV Labs ID: KKQ105 Dup
Sample ID: MW2-19
Matrix: Water

Collected: 2019/07/31
Shipped:
Received: 2019/08/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6266069	2019/08/06	2019/08/07	Prabhjot Gulati

BV Labs ID: KKQ106
Sample ID: MW3-19
Matrix: Water

Collected: 2019/07/31
Shipped:
Received: 2019/08/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6268184	N/A	2019/08/07	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6266069	2019/08/06	2019/08/07	Prabhjot Gulati

BV Labs ID: KKQ107
Sample ID: DUP
Matrix: Water

Collected: 2019/07/31
Shipped:
Received: 2019/08/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6268184	N/A	2019/08/07	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6266069	2019/08/06	2019/08/07	Prabhjot Gulati

BV Labs ID: KKQ108
Sample ID: TRIP BLANK LOT # 3635
Matrix: Water

Collected: 2019/07/31
Shipped:
Received: 2019/08/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	6262162	N/A	2019/08/08	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	6262236	N/A	2019/08/07	Blair Gannon



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R J Burnside & Associates Ltd
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Sampler Initials: MV

GENERAL COMMENTS

Cooler custody seal was not present and not intact.

Results relate only to the items tested.



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R J Burnside & Associates Ltd
Client Project #: 300043649
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Sampler Initials: MV

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
6262236	BG1	Matrix Spike	4-Bromofluorobenzene	2019/08/07		118	%	70 - 130
			D4-1,2-Dichloroethane	2019/08/07		103	%	70 - 130
			D8-Toluene	2019/08/07		105	%	70 - 130
			Acetone (2-Propanone)	2019/08/07		101	%	60 - 140
			Benzene	2019/08/07		96	%	70 - 130
			Bromodichloromethane	2019/08/07		97	%	70 - 130
			Bromoform	2019/08/07		109	%	70 - 130
			Bromomethane	2019/08/07		127	%	60 - 140
			Carbon Tetrachloride	2019/08/07		98	%	70 - 130
			Chlorobenzene	2019/08/07		96	%	70 - 130
			Chloroform	2019/08/07		92	%	70 - 130
			Dibromochloromethane	2019/08/07		106	%	70 - 130
			1,2-Dichlorobenzene	2019/08/07		93	%	70 - 130
			1,3-Dichlorobenzene	2019/08/07		93	%	70 - 130
			1,4-Dichlorobenzene	2019/08/07		100	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2019/08/07		80	%	60 - 140
			1,1-Dichloroethane	2019/08/07		95	%	70 - 130
			1,2-Dichloroethane	2019/08/07		101	%	70 - 130
			1,1-Dichloroethylene	2019/08/07		101	%	70 - 130
			cis-1,2-Dichloroethylene	2019/08/07		92	%	70 - 130
			trans-1,2-Dichloroethylene	2019/08/07		97	%	70 - 130
			1,2-Dichloropropane	2019/08/07		91	%	70 - 130
			cis-1,3-Dichloropropene	2019/08/07		99	%	70 - 130
			trans-1,3-Dichloropropene	2019/08/07		112	%	70 - 130
			Ethylbenzene	2019/08/07		93	%	70 - 130
			Ethylene Dibromide	2019/08/07		102	%	70 - 130
			Hexane	2019/08/07		95	%	70 - 130
			Methylene Chloride(Dichloromethane)	2019/08/07		88	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2019/08/07		103	%	60 - 140
			Methyl Isobutyl Ketone	2019/08/07		106	%	70 - 130
			Methyl t-butyl ether (MTBE)	2019/08/07		87	%	70 - 130
			Styrene	2019/08/07		99	%	70 - 130
			1,1,1,2-Tetrachloroethane	2019/08/07		107	%	70 - 130
			1,1,2,2-Tetrachloroethane	2019/08/07		104	%	70 - 130
Tetrachloroethylene	2019/08/07		96	%	70 - 130			
Toluene	2019/08/07		97	%	70 - 130			
1,1,1-Trichloroethane	2019/08/07		99	%	70 - 130			
1,1,2-Trichloroethane	2019/08/07		101	%	70 - 130			
Trichloroethylene	2019/08/07		99	%	70 - 130			
Trichlorofluoromethane (FREON 11)	2019/08/07		105	%	70 - 130			
Vinyl Chloride	2019/08/07		93	%	70 - 130			
p+m-Xylene	2019/08/07		103	%	70 - 130			
o-Xylene	2019/08/07		96	%	70 - 130			
6262236	BG1	Spiked Blank	4-Bromofluorobenzene	2019/08/07		117	%	70 - 130
			D4-1,2-Dichloroethane	2019/08/07		103	%	70 - 130
			D8-Toluene	2019/08/07		103	%	70 - 130
			Acetone (2-Propanone)	2019/08/07		100	%	60 - 140
			Benzene	2019/08/07		95	%	70 - 130
			Bromodichloromethane	2019/08/07		96	%	70 - 130
			Bromoform	2019/08/07		109	%	70 - 130
			Bromomethane	2019/08/07		111	%	60 - 140
Carbon Tetrachloride	2019/08/07		95	%	70 - 130			
Chlorobenzene	2019/08/07		95	%	70 - 130			



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chloroform	2019/08/07		90	%	70 - 130
			Dibromochloromethane	2019/08/07		106	%	70 - 130
			1,2-Dichlorobenzene	2019/08/07		92	%	70 - 130
			1,3-Dichlorobenzene	2019/08/07		91	%	70 - 130
			1,4-Dichlorobenzene	2019/08/07		98	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2019/08/07		74	%	60 - 140
			1,1-Dichloroethane	2019/08/07		92	%	70 - 130
			1,2-Dichloroethane	2019/08/07		101	%	70 - 130
			1,1-Dichloroethylene	2019/08/07		97	%	70 - 130
			cis-1,2-Dichloroethylene	2019/08/07		91	%	70 - 130
			trans-1,2-Dichloroethylene	2019/08/07		95	%	70 - 130
			1,2-Dichloropropane	2019/08/07		89	%	70 - 130
			cis-1,3-Dichloropropene	2019/08/07		85	%	70 - 130
			trans-1,3-Dichloropropene	2019/08/07		86	%	70 - 130
			Ethylbenzene	2019/08/07		91	%	70 - 130
			Ethylene Dibromide	2019/08/07		102	%	70 - 130
			Hexane	2019/08/07		96	%	70 - 130
			Methylene Chloride(Dichloromethane)	2019/08/07		87	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2019/08/07		104	%	60 - 140
			Methyl Isobutyl Ketone	2019/08/07		107	%	70 - 130
			Methyl t-butyl ether (MTBE)	2019/08/07		88	%	70 - 130
			Styrene	2019/08/07		103	%	70 - 130
			1,1,1,2-Tetrachloroethane	2019/08/07		105	%	70 - 130
			1,1,2,2-Tetrachloroethane	2019/08/07		104	%	70 - 130
			Tetrachloroethylene	2019/08/07		93	%	70 - 130
			Toluene	2019/08/07		95	%	70 - 130
			1,1,1-Trichloroethane	2019/08/07		96	%	70 - 130
			1,1,2-Trichloroethane	2019/08/07		99	%	70 - 130
			Trichloroethylene	2019/08/07		98	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2019/08/07		101	%	70 - 130
			Vinyl Chloride	2019/08/07		89	%	70 - 130
			p+m-Xylene	2019/08/07		102	%	70 - 130
			o-Xylene	2019/08/07		100	%	70 - 130
6262236	BG1	Method Blank	4-Bromofluorobenzene	2019/08/07		110	%	70 - 130
			D4-1,2-Dichloroethane	2019/08/07		109	%	70 - 130
			D8-Toluene	2019/08/07		92	%	70 - 130
			Acetone (2-Propanone)	2019/08/07	ND, RDL=10		ug/L	
			Benzene	2019/08/07	ND, RDL=0.20		ug/L	
			Bromodichloromethane	2019/08/07	ND, RDL=0.50		ug/L	
			Bromoform	2019/08/07	ND, RDL=1.0		ug/L	
			Bromomethane	2019/08/07	ND, RDL=0.50		ug/L	
			Carbon Tetrachloride	2019/08/07	ND, RDL=0.20		ug/L	
			Chlorobenzene	2019/08/07	ND, RDL=0.20		ug/L	
			Chloroform	2019/08/07	ND, RDL=0.20		ug/L	



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Sampler Initials: MV

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dibromochloromethane	2019/08/07	ND, RDL=0.50		ug/L	
			1,2-Dichlorobenzene	2019/08/07	ND, RDL=0.50		ug/L	
			1,3-Dichlorobenzene	2019/08/07	ND, RDL=0.50		ug/L	
			1,4-Dichlorobenzene	2019/08/07	ND, RDL=0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2019/08/07	ND, RDL=1.0		ug/L	
			1,1-Dichloroethane	2019/08/07	ND, RDL=0.20		ug/L	
			1,2-Dichloroethane	2019/08/07	ND, RDL=0.50		ug/L	
			1,1-Dichloroethylene	2019/08/07	ND, RDL=0.20		ug/L	
			cis-1,2-Dichloroethylene	2019/08/07	ND, RDL=0.50		ug/L	
			trans-1,2-Dichloroethylene	2019/08/07	ND, RDL=0.50		ug/L	
			1,2-Dichloropropane	2019/08/07	ND, RDL=0.20		ug/L	
			cis-1,3-Dichloropropene	2019/08/07	ND, RDL=0.30		ug/L	
			trans-1,3-Dichloropropene	2019/08/07	ND, RDL=0.40		ug/L	
			Ethylbenzene	2019/08/07	ND, RDL=0.20		ug/L	
			Ethylene Dibromide	2019/08/07	ND, RDL=0.20		ug/L	
			Hexane	2019/08/07	ND, RDL=1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2019/08/07	ND, RDL=2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2019/08/07	ND, RDL=10		ug/L	
			Methyl Isobutyl Ketone	2019/08/07	ND, RDL=5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2019/08/07	ND, RDL=0.50		ug/L	
			Styrene	2019/08/07	ND, RDL=0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2019/08/07	ND, RDL=0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2019/08/07	ND, RDL=0.50		ug/L	
			Tetrachloroethylene	2019/08/07	ND, RDL=0.20		ug/L	
			Toluene	2019/08/07	ND, RDL=0.20		ug/L	
			1,1,1-Trichloroethane	2019/08/07	ND, RDL=0.20		ug/L	
			1,1,2-Trichloroethane	2019/08/07	ND, RDL=0.50		ug/L	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Trichloroethylene	2019/08/07	ND, RDL=0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2019/08/07	ND, RDL=0.50		ug/L	
			Vinyl Chloride	2019/08/07	ND, RDL=0.20		ug/L	
			p+m-Xylene	2019/08/07	ND, RDL=0.20		ug/L	
			o-Xylene	2019/08/07	ND, RDL=0.20		ug/L	
			Total Xylenes	2019/08/07	ND, RDL=0.20		ug/L	
6262236	BG1	RPD	Acetone (2-Propanone)	2019/08/07	NC		%	30
			Benzene	2019/08/07	NC		%	30
			Bromodichloromethane	2019/08/07	NC		%	30
			Bromoform	2019/08/07	NC		%	30
			Bromomethane	2019/08/07	NC		%	30
			Carbon Tetrachloride	2019/08/07	NC		%	30
			Chlorobenzene	2019/08/07	NC		%	30
			Chloroform	2019/08/07	NC		%	30
			Dibromochloromethane	2019/08/07	NC		%	30
			1,2-Dichlorobenzene	2019/08/07	NC		%	30
			1,3-Dichlorobenzene	2019/08/07	NC		%	30
			1,4-Dichlorobenzene	2019/08/07	NC		%	30
			Dichlorodifluoromethane (FREON 12)	2019/08/07	NC		%	30
			1,1-Dichloroethane	2019/08/07	NC		%	30
			1,2-Dichloroethane	2019/08/07	NC		%	30
			1,1-Dichloroethylene	2019/08/07	NC		%	30
			cis-1,2-Dichloroethylene	2019/08/07	NC		%	30
			trans-1,2-Dichloroethylene	2019/08/07	NC		%	30
			1,2-Dichloropropane	2019/08/07	NC		%	30
			cis-1,3-Dichloropropene	2019/08/07	NC		%	30
			trans-1,3-Dichloropropene	2019/08/07	NC		%	30
			Ethylbenzene	2019/08/07	NC		%	30
			Ethylene Dibromide	2019/08/07	NC		%	30
			Hexane	2019/08/07	NC		%	30
			Methylene Chloride(Dichloromethane)	2019/08/07	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2019/08/07	NC		%	30
			Methyl Isobutyl Ketone	2019/08/07	NC		%	30
			Methyl t-butyl ether (MTBE)	2019/08/07	NC		%	30
			Styrene	2019/08/07	NC		%	30
			1,1,1,2-Tetrachloroethane	2019/08/07	NC		%	30
			1,1,2,2-Tetrachloroethane	2019/08/07	NC		%	30
			Tetrachloroethylene	2019/08/07	NC		%	30
			Toluene	2019/08/07	NC		%	30
			1,1,1-Trichloroethane	2019/08/07	NC		%	30
			1,1,2-Trichloroethane	2019/08/07	NC		%	30
			Trichloroethylene	2019/08/07	NC		%	30
			Trichlorofluoromethane (FREON 11)	2019/08/07	NC		%	30
			Vinyl Chloride	2019/08/07	NC		%	30
			p+m-Xylene	2019/08/07	NC		%	30
			o-Xylene	2019/08/07	NC		%	30
			Total Xylenes	2019/08/07	NC		%	30



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
6263228	RSC	Matrix Spike	4-Bromofluorobenzene	2019/08/06		106	%	70 - 130
			D4-1,2-Dichloroethane	2019/08/06		104	%	70 - 130
			D8-Toluene	2019/08/06		99	%	70 - 130
			Acetone (2-Propanone)	2019/08/06		104	%	60 - 140
			Benzene	2019/08/06		90	%	70 - 130
			Bromodichloromethane	2019/08/06		94	%	70 - 130
			Bromoform	2019/08/06		100	%	70 - 130
			Bromomethane	2019/08/06		122	%	60 - 140
			Carbon Tetrachloride	2019/08/06		87	%	70 - 130
			Chlorobenzene	2019/08/06		83	%	70 - 130
			Chloroform	2019/08/06		85	%	70 - 130
			Dibromochloromethane	2019/08/06		96	%	70 - 130
			1,2-Dichlorobenzene	2019/08/06		83	%	70 - 130
			1,3-Dichlorobenzene	2019/08/06		80	%	70 - 130
			1,4-Dichlorobenzene	2019/08/06		86	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2019/08/06		75	%	60 - 140
			1,1-Dichloroethane	2019/08/06		90	%	70 - 130
			1,2-Dichloroethane	2019/08/06		97	%	70 - 130
			1,1-Dichloroethylene	2019/08/06		89	%	70 - 130
			cis-1,2-Dichloroethylene	2019/08/06		88	%	70 - 130
			trans-1,2-Dichloroethylene	2019/08/06		89	%	70 - 130
			1,2-Dichloropropane	2019/08/06		88	%	70 - 130
			cis-1,3-Dichloropropene	2019/08/06		90	%	70 - 130
			trans-1,3-Dichloropropene	2019/08/06		90	%	70 - 130
			Ethylbenzene	2019/08/06		77	%	70 - 130
			Ethylene Dibromide	2019/08/06		97	%	70 - 130
			Hexane	2019/08/06		90	%	70 - 130
			Methylene Chloride(Dichloromethane)	2019/08/06		100	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2019/08/06		112	%	60 - 140
			Methyl Isobutyl Ketone	2019/08/06		107	%	70 - 130
			Methyl t-butyl ether (MTBE)	2019/08/06		85	%	70 - 130
			Styrene	2019/08/06		68 (1)	%	70 - 130
			1,1,1,2-Tetrachloroethane	2019/08/06		94	%	70 - 130
			1,1,2,2-Tetrachloroethane	2019/08/06		98	%	70 - 130
			Tetrachloroethylene	2019/08/06		80	%	70 - 130
			Toluene	2019/08/06		79	%	70 - 130
			1,1,1-Trichloroethane	2019/08/06		89	%	70 - 130
			1,1,2-Trichloroethane	2019/08/06		90	%	70 - 130
			Trichloroethylene	2019/08/06		92	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2019/08/06		97	%	70 - 130
Vinyl Chloride	2019/08/06		93	%	70 - 130			
p+m-Xylene	2019/08/06		83	%	70 - 130			
o-Xylene	2019/08/06		83	%	70 - 130			
F1 (C6-C10)	2019/08/06		99	%	60 - 140			
6263228	RSC	Spiked Blank	4-Bromofluorobenzene	2019/08/06		109	%	70 - 130
			D4-1,2-Dichloroethane	2019/08/06		99	%	70 - 130
			D8-Toluene	2019/08/06		102	%	70 - 130
			Acetone (2-Propanone)	2019/08/06		101	%	60 - 140
			Benzene	2019/08/06		95	%	70 - 130
			Bromodichloromethane	2019/08/06		97	%	70 - 130
			Bromoform	2019/08/06		104	%	70 - 130
			Bromomethane	2019/08/06		122	%	60 - 140
Carbon Tetrachloride	2019/08/06		93	%	70 - 130			



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chlorobenzene	2019/08/06		91	%	70 - 130
			Chloroform	2019/08/06		89	%	70 - 130
			Dibromochloromethane	2019/08/06		102	%	70 - 130
			1,2-Dichlorobenzene	2019/08/06		89	%	70 - 130
			1,3-Dichlorobenzene	2019/08/06		88	%	70 - 130
			1,4-Dichlorobenzene	2019/08/06		96	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2019/08/06		81	%	60 - 140
			1,1-Dichloroethane	2019/08/06		95	%	70 - 130
			1,2-Dichloroethane	2019/08/06		97	%	70 - 130
			1,1-Dichloroethylene	2019/08/06		94	%	70 - 130
			cis-1,2-Dichloroethylene	2019/08/06		92	%	70 - 130
			trans-1,2-Dichloroethylene	2019/08/06		96	%	70 - 130
			1,2-Dichloropropane	2019/08/06		91	%	70 - 130
			cis-1,3-Dichloropropene	2019/08/06		88	%	70 - 130
			trans-1,3-Dichloropropene	2019/08/06		89	%	70 - 130
			Ethylbenzene	2019/08/06		88	%	70 - 130
			Ethylene Dibromide	2019/08/06		100	%	70 - 130
			Hexane	2019/08/06		99	%	70 - 130
			Methylene Chloride(Dichloromethane)	2019/08/06		102	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2019/08/06		109	%	60 - 140
			Methyl Isobutyl Ketone	2019/08/06		108	%	70 - 130
			Methyl t-butyl ether (MTBE)	2019/08/06		88	%	70 - 130
			Styrene	2019/08/06		78	%	70 - 130
			1,1,1,2-Tetrachloroethane	2019/08/06		102	%	70 - 130
			1,1,2,2-Tetrachloroethane	2019/08/06		103	%	70 - 130
			Tetrachloroethylene	2019/08/06		90	%	70 - 130
			Toluene	2019/08/06		88	%	70 - 130
			1,1,1-Trichloroethane	2019/08/06		94	%	70 - 130
			1,1,2-Trichloroethane	2019/08/06		94	%	70 - 130
			Trichloroethylene	2019/08/06		99	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2019/08/06		103	%	70 - 130
			Vinyl Chloride	2019/08/06		99	%	70 - 130
			p+m-Xylene	2019/08/06		95	%	70 - 130
			o-Xylene	2019/08/06		95	%	70 - 130
			F1 (C6-C10)	2019/08/06		94	%	60 - 140
6263228	RSC	Method Blank	4-Bromofluorobenzene	2019/08/06		92	%	70 - 130
			D4-1,2-Dichloroethane	2019/08/06		105	%	70 - 130
			D8-Toluene	2019/08/06		93	%	70 - 130
			Acetone (2-Propanone)	2019/08/06	ND, RDL=10		ug/L	
			Benzene	2019/08/06	ND, RDL=0.20		ug/L	
			Bromodichloromethane	2019/08/06	ND, RDL=0.50		ug/L	
			Bromoform	2019/08/06	ND, RDL=1.0		ug/L	
			Bromomethane	2019/08/06	ND, RDL=0.50		ug/L	
			Carbon Tetrachloride	2019/08/06	ND, RDL=0.20		ug/L	
			Chlorobenzene	2019/08/06	ND, RDL=0.20		ug/L	



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chloroform	2019/08/06	ND, RDL=0.20		ug/L	
			Dibromochloromethane	2019/08/06	ND, RDL=0.50		ug/L	
			1,2-Dichlorobenzene	2019/08/06	ND, RDL=0.50		ug/L	
			1,3-Dichlorobenzene	2019/08/06	ND, RDL=0.50		ug/L	
			1,4-Dichlorobenzene	2019/08/06	ND, RDL=0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2019/08/06	ND, RDL=1.0		ug/L	
			1,1-Dichloroethane	2019/08/06	ND, RDL=0.20		ug/L	
			1,2-Dichloroethane	2019/08/06	ND, RDL=0.50		ug/L	
			1,1-Dichloroethylene	2019/08/06	ND, RDL=0.20		ug/L	
			cis-1,2-Dichloroethylene	2019/08/06	ND, RDL=0.50		ug/L	
			trans-1,2-Dichloroethylene	2019/08/06	ND, RDL=0.50		ug/L	
			1,2-Dichloropropane	2019/08/06	ND, RDL=0.20		ug/L	
			cis-1,3-Dichloropropene	2019/08/06	ND, RDL=0.30		ug/L	
			trans-1,3-Dichloropropene	2019/08/06	ND, RDL=0.40		ug/L	
			Ethylbenzene	2019/08/06	ND, RDL=0.20		ug/L	
			Ethylene Dibromide	2019/08/06	ND, RDL=0.20		ug/L	
			Hexane	2019/08/06	ND, RDL=1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2019/08/06	ND, RDL=2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2019/08/06	ND, RDL=10		ug/L	
			Methyl Isobutyl Ketone	2019/08/06	ND, RDL=5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2019/08/06	ND, RDL=0.50		ug/L	
			Styrene	2019/08/06	ND, RDL=0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2019/08/06	ND, RDL=0.50		ug/L	
			1,1,1,2,2-Tetrachloroethane	2019/08/06	ND, RDL=0.50		ug/L	
			Tetrachloroethylene	2019/08/06	ND, RDL=0.20		ug/L	
			Toluene	2019/08/06	ND, RDL=0.20		ug/L	
			1,1,1-Trichloroethane	2019/08/06	ND, RDL=0.20		ug/L	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,1,2-Trichloroethane	2019/08/06	ND, RDL=0.50		ug/L	
			Trichloroethylene	2019/08/06	ND, RDL=0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2019/08/06	ND, RDL=0.50		ug/L	
			Vinyl Chloride	2019/08/06	ND, RDL=0.20		ug/L	
			p+m-Xylene	2019/08/06	ND, RDL=0.20		ug/L	
			o-Xylene	2019/08/06	ND, RDL=0.20		ug/L	
			Total Xylenes	2019/08/06	ND, RDL=0.20		ug/L	
			F1 (C6-C10)	2019/08/06	ND, RDL=25		ug/L	
			F1 (C6-C10) - BTEX	2019/08/06	ND, RDL=25		ug/L	
6263228	RSC	RPD	Acetone (2-Propanone)	2019/08/07	0.58		%	30
			Benzene	2019/08/07	NC		%	30
			Bromodichloromethane	2019/08/07	NC		%	30
			Bromoform	2019/08/07	NC		%	30
			Bromomethane	2019/08/07	NC		%	30
			Carbon Tetrachloride	2019/08/07	NC		%	30
			Chlorobenzene	2019/08/07	NC		%	30
			Chloroform	2019/08/07	NC		%	30
			Dibromochloromethane	2019/08/07	NC		%	30
			1,2-Dichlorobenzene	2019/08/07	NC		%	30
			1,3-Dichlorobenzene	2019/08/07	NC		%	30
			1,4-Dichlorobenzene	2019/08/07	NC		%	30
			Dichlorodifluoromethane (FREON 12)	2019/08/07	NC		%	30
			1,1-Dichloroethane	2019/08/07	NC		%	30
			1,2-Dichloroethane	2019/08/07	NC		%	30
			1,1-Dichloroethylene	2019/08/07	NC		%	30
			cis-1,2-Dichloroethylene	2019/08/07	NC		%	30
			trans-1,2-Dichloroethylene	2019/08/07	NC		%	30
			1,2-Dichloropropane	2019/08/07	NC		%	30
			cis-1,3-Dichloropropene	2019/08/07	NC		%	30
			trans-1,3-Dichloropropene	2019/08/07	NC		%	30
			Ethylbenzene	2019/08/07	NC		%	30
			Ethylene Dibromide	2019/08/07	NC		%	30
			Hexane	2019/08/07	NC		%	30
			Methylene Chloride(Dichloromethane)	2019/08/07	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2019/08/07	1.4		%	30
			Methyl Isobutyl Ketone	2019/08/07	NC		%	30
			Methyl t-butyl ether (MTBE)	2019/08/07	NC		%	30
			Styrene	2019/08/07	NC		%	30
			1,1,1,2-Tetrachloroethane	2019/08/07	NC		%	30
			1,1,2,2-Tetrachloroethane	2019/08/07	NC		%	30
			Tetrachloroethylene	2019/08/07	NC		%	30
			Toluene	2019/08/07	NC		%	30
			1,1,1-Trichloroethane	2019/08/07	NC		%	30
			1,1,2-Trichloroethane	2019/08/07	NC		%	30



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Trichloroethylene	2019/08/07	NC		%	30
			Trichlorofluoromethane (FREON 11)	2019/08/07	NC		%	30
			Vinyl Chloride	2019/08/07	NC		%	30
			p+m-Xylene	2019/08/07	NC		%	30
			o-Xylene	2019/08/07	NC		%	30
			Total Xylenes	2019/08/07	NC		%	30
			F1 (C6-C10)	2019/08/07	NC		%	30
			F1 (C6-C10) - BTEX	2019/08/07	NC		%	30
6266069	GUL	Matrix Spike [KKQ104-01]	o-Terphenyl	2019/08/07		108	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2019/08/07		104	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2019/08/07		100	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2019/08/07		99	%	50 - 130
6266069	GUL	Spiked Blank	o-Terphenyl	2019/08/07		109	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2019/08/07		118	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2019/08/07		121	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2019/08/07		119	%	60 - 130
6266069	GUL	Method Blank	o-Terphenyl	2019/08/07		105	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2019/08/07	ND, RDL=100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2019/08/07	ND, RDL=200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2019/08/07	ND, RDL=200		ug/L	
6266069	GUL	RPD [KKQ105-01]	F2 (C10-C16 Hydrocarbons)	2019/08/07	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2019/08/07	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2019/08/07	NC		%	30
6268184	AAI	Matrix Spike	1,4-Difluorobenzene	2019/08/07		101	%	70 - 130
			4-Bromofluorobenzene	2019/08/07		100	%	70 - 130
			D10-Ethylbenzene	2019/08/07		106	%	70 - 130
			D4-1,2-Dichloroethane	2019/08/07		98	%	70 - 130
			Benzene	2019/08/07		107	%	70 - 130
			Toluene	2019/08/07		105	%	70 - 130
			Ethylbenzene	2019/08/07		108	%	70 - 130
			o-Xylene	2019/08/07		103	%	70 - 130
			p+m-Xylene	2019/08/07		106	%	70 - 130
			F1 (C6-C10)	2019/08/07		93	%	70 - 130
6268184	AAI	Spiked Blank	1,4-Difluorobenzene	2019/08/07		100	%	70 - 130
			4-Bromofluorobenzene	2019/08/07		99	%	70 - 130
			D10-Ethylbenzene	2019/08/07		97	%	70 - 130
			D4-1,2-Dichloroethane	2019/08/07		103	%	70 - 130
			Benzene	2019/08/07		103	%	70 - 130
			Toluene	2019/08/07		98	%	70 - 130
			Ethylbenzene	2019/08/07		98	%	70 - 130
			o-Xylene	2019/08/07		97	%	70 - 130
			p+m-Xylene	2019/08/07		98	%	70 - 130
			F1 (C6-C10)	2019/08/07		95	%	70 - 130
6268184	AAI	Method Blank	1,4-Difluorobenzene	2019/08/07		98	%	70 - 130
			4-Bromofluorobenzene	2019/08/07		96	%	70 - 130
			D10-Ethylbenzene	2019/08/07		103	%	70 - 130
			D4-1,2-Dichloroethane	2019/08/07		100	%	70 - 130
			Benzene	2019/08/07	ND, RDL=0.20		ug/L	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Toluene	2019/08/07	ND, RDL=0.20		ug/L	
			Ethylbenzene	2019/08/07	ND, RDL=0.20		ug/L	
			o-Xylene	2019/08/07	ND, RDL=0.20		ug/L	
			p+m-Xylene	2019/08/07	ND, RDL=0.40		ug/L	
			Total Xylenes	2019/08/07	ND, RDL=0.40		ug/L	
			F1 (C6-C10)	2019/08/07	ND, RDL=25		ug/L	
			F1 (C6-C10) - BTEX	2019/08/07	ND, RDL=25		ug/L	
6268184	AAI	RPD	Benzene	2019/08/07	NC		%	30
			Toluene	2019/08/07	NC		%	30
			Ethylbenzene	2019/08/07	NC		%	30
			o-Xylene	2019/08/07	NC		%	30
			p+m-Xylene	2019/08/07	NC		%	30
			Total Xylenes	2019/08/07	NC		%	30
			F1 (C6-C10)	2019/08/07	NC		%	30
			F1 (C6-C10) - BTEX	2019/08/07	NC		%	30

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

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

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

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

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

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.



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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to read 'Brad Newman', written over a horizontal line.

Brad Newman, Scientific Service Specialist

BV Labs 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 Signature Page.



BURNSIDE

[THE DIFFERENCE IS OUR PEOPLE]

Appendix H

Photographs



Photo 1: Gate entrance at west boundary of the Site, on the east side of Trafalgar Road.



Photo 2: Looking east across clearing where buildings were formerly located.



Photo 3: Looking east at MW1 installed at location of former ASTs (APEC-1).



Photo 4: Looking south at MW2 installed at location of former Pole Barn (APEC-2).



Photo 5: Looking west at MW3 installed at location of former farmhouse (APEC-3).



Photo 6: Looking northwest at MW3 installed at location of former farmhouse (APEC-3).