

# Hydrogeological Investigation

Proposed Residential Development  
118-132 Cross Avenue  
Oakville, Ontario

## Prepared For:

Balbir Sanghera

**Project No.:** 25-315-100

**Date:** July 29, 2026



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**25-315-100**

**July 29, 2026**

**Balbir Sanghera**

**Attention: Arishah Mazhar, Project Manager**  
**via email: [amazhar@batory.ca](mailto:amazhar@batory.ca)**

**RE: Hydrogeological Investigation – 118-132 Cross Avenue, Oakville, Ontario**

DS Consultants Limited (DS) was retained by Balbir Sanghera to complete a hydrogeological investigation for the proposed development at 118-132 Cross Avenue in the Town of Oakville, Ontario (hereinafter referred to as the Site). The Site is an approximate 2,485 m<sup>2</sup> parcel of land located about 50 meters northeast of the intersection of Cross Avenue and Lyons Ln in Oakville. The Site is currently developed and is occupied with multiple single-family detached dwellings. It is DS's understanding that the existing structures will be demolished and redeveloped with a 38-storey high-rise tower with (3) levels of underground parking (P3). The proposed established grade at the site is 102.83 meters above sea level (masl). Based on the drawings provided to DS (BDP Quadrangle, issued June 25, 2026), the lowest P3 level elevation will be set at 90.43 masl, about 12.40 m below the established grade.

This hydrogeological investigation includes an overview of the existing geological and hydrogeological conditions at the site and the surrounding area, provides an estimation of construction dewatering and an impact assessment associated with the potential dewatering activities and determines dewatering and discharge permitting requirements from the Ministry of the Environment, Conservation and Parks (MECP), Halton Region and the Town of Oakville.

Based on the results of this investigation, the following conclusions and recommendations are presented:

1. Based on the review of the MECP WWRs, there are eighty-eight (88) water wells within a 500 m radius of the Site. All wells were noted as monitoring (MO)/test holes (TH) or not in use (NU) wells except for one (1) well listed as an industrial (IN) well. The study area is serviced with municipal water, and therefore, no groundwater users are expected in the area.
2. A total of six (6) boreholes (BH25-1 through BH25-6) were drilled by DS between October 21 and 22, 2025, at the site as part of the concurrent geotechnical, environmental and hydrogeological investigations. The boreholes were advanced to a depth ranging from 2.1 to 11.1 mbgs. Three (3) of the drilled boreholes were equipped with a 50 mm dia monitoring well to a depth ranging from 4.6 to 9.6 mbgs. All monitoring wells were developed before any use to allow for groundwater level monitoring, hydraulic conductivity testing, and to assess groundwater quality.
3. The surficial geology of the area is described as "Paleozoic bedrock" and "Modern alluvial deposits," consisting of clay, silt, sand, gravel and may contain organic remains. The overburden generally consisted of Clayey Silt, Clayey Silt to Silty Clay (Till) and Sandy Silt to silty sand (Till) deposits. The

shale bedrock of Georgian Bay Formation was encountered in all boreholes except BH25-6, at approximate depths ranging from 4.6 to 11.1 mbgs, corresponding to approximate elevations varying from 98.0 to 91.5 masl.

4. Groundwater levels were measured in all available monitoring wells on October 28<sup>th</sup> and November 6<sup>th</sup>, 2025, by DS. Groundwater levels generally ranged between 3.4 and 5.43 mbgs (elevation 97.3 to 99.2 masl). Groundwater flow direction was inferred to be south to southwest towards Sixteen Mile Creek. Groundwater levels may fluctuate due to seasonal variations and may be influenced by underground structures, utilities, and infilled material. Variations in groundwater levels may influence groundwater flow direction at the site.
5. A total of three (3) Single Well Response Tests (slug tests) were completed by DS on October 28<sup>th</sup>, 2025, to estimate hydraulic conductivity (k) for the representative geological units in which the wells were screened. The k-values ranged between  $1.10 \times 10^{-7}$  to  $3.31 \times 10^{-6}$  m/s.
6. One (1) unfiltered groundwater sample was collected from monitoring well BH25-1 on October 28<sup>th</sup>, 2025, and submitted to SGS Laboratories in Lakefield, Ontario. SGS is certified by the Canadian Association of Laboratory Accreditation Inc. (CALA) and the Canadian Standards Association (CSA). The analytical results were compared to the parameter limits listed under the Halton Sanitary Sewer Use Bylaw 2\_03 and Town of Oakville Storm Sewer Use Bylaw 2009-031. The reported analytical results indicate that TSS exceeded Halton Region sanitary sewer limits, and when compared with the Town's storm sewer limits, TSS, Copper, manganese, and Zinc exceeded the limits. Therefore, groundwater cannot be discharged into the Region and Town's Sanitary and Storm sewers without pre-treatment.
7. Construction Dewatering: Considering the unsealed excavation method, the recommended dewatering rate for the proposed development with three (3) levels of underground parking would be approximately 249,000 L/day. These values incorporate a safety factor of x2 and account for stormwater (45,000 L/day) as a result of a theoretical 25 mm precipitation event.
8. Permanent Drainage (Long-term Discharge): Following the construction of the underground structure, long-term groundwater flow to the underfloor drainage system for the building will be a function of the upward flux and drainage along the foundation wall. Based on the assumed design, depth to water and given k-value, the estimated permanent theoretical long-term flow would be approximately 72,000 L/day. Applying a safety factor of x2, the design flow increases to 144,000 L/day. It should be noted that the Town of Oakville generally does not support permanent drainage to the sewer system. As such, on-site management of long-term discharge may be needed.
9. The current dewatering assessment is based on monitoring wells screened in bedrock at Elevation 93 m or above. During subsurface investigation, boreholes were advanced to a maximum elevation of approximately 91.5 m, which is about 1.1 m above the proposed lowest basement level at Elevation 90.4 masl and 3.1 m above the assumed lowest foundation level at Elevation 88.4 masl. Although bedrock generally becomes more competent and less fractured with depth, one or two additional

deeper monitoring wells are recommended to characterize the bedrock and groundwater conditions at and below the proposed lowest excavation level (88.4 masl), extending approximately 3 to 5 m to support the current groundwater conditions and dewatering assessment.

10. The expected design dewatering rate for the unsealed excavation is higher than the MECP's daily water-taking limit of 50,000 L/day; an EASR application will be required to be submitted to the MECP for short-term dewatering before starting construction. The long-term (permanent) flow rate is expected to be less than the MECP's minimum pumping limit of 379,000 L/day; a permit to take water (PTTW) application is not required to be submitted to the MECP permanently.
11. There are structures and utilities (structures, buildings, sewers, roads, etc.) expected within the predicted zone of influence, which is estimated at 58 meters from the center of the excavation when considering an unsealed excavation. Since the proposed construction is anticipated to be constructed within till deposits and shallow depths of bedrock, an effect of settlement due to dewatering would not be expected or minimal. However, DS recommends consulting geotechnical consultants for settlement monitoring requirements to assess potential settlement due to any dewatering activities at the site during construction.
12. Once a groundwater dewatering system is set up at the Site, daily and weekly monitoring should be implemented during construction to assess the groundwater conditions such as water levels, measurement of discharge flow, discharge water quality and any adverse impacts as a result of dewatering including settlement.
13. Following the completion of construction activities, all dewatering wells, well points or eductors if any and monitoring wells installed at various stages of this project must be decommissioned. The installation and eventual decommissioning of the wells and the dewatering system must be carried out by a licensed water well contractor in accordance with Regulation 903 of the Ontario Water Resources Act.

Should you have any questions regarding these findings, please contact the undersigned.

**DS Consultants Ltd.**



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## 1.0 INTRODUCTION

DS Consultants Limited (DS) was retained by Balbir Sanghera to complete a hydrogeological investigation for the proposed development at 118-132 Cross Avenue in the Town of Oakville, Ontario (hereinafter referred to as the Site). The site is an approximate 2,485 m<sup>2</sup> parcel of land located about 50 meters northeast of the intersection of Cross Avenue and Lyons Ln in Oakville. The Site is currently developed and is occupied with multiple single-family detached dwellings. **Figure 1** presents the site location map that highlights the location of the site and the surrounding area.

It is DS's understanding that the existing structures will be demolished and redeveloped with a 38-storey high-rise tower with (3) levels of underground parking (P3). The proposed established grade at the site is 102.83 meters above sea level (masl). Based on the drawings provided to DS (BDP Quadrangle, issued June 25, 2026), the lowest P3 level elevation will be set at 90.43 masl, about 12.40 m below the established grade.

The hydrogeological investigation is based on drilling a total of six (6) boreholes; three (3) monitoring wells (MWs) were installed by DS in October 2025 in support of the concurrent hydrogeological, geotechnical and environmental investigations. The investigation includes an overview of the existing geological and hydrogeological conditions at the site and the surrounding area, provides an estimation of construction dewatering and an impact assessment associated with the potential dewatering activities and determines dewatering and discharge permitting requirements from the Ministry of the Environment, Conservation and Parks (MECP), Halton Region and the Town of Oakville. This hydrogeological assessment was prepared in accordance with the Ontario Water Resources Act and Ontario Regulation 387/04.

If needed, the results of this investigation can be used in support of an application for an Environmental Activity Sector Registry (EASR) for construction dewatering from the Ministry of the Environment, Conservation and Parks (MECP). The hydrogeological report may also be used to support Site Plan Approval (SPA) and discharge permitting (short- and long-term) from Halton Region/Town of Oakville.

### 1.1 Purpose

The purpose of this Hydrogeological Investigation is to assess the current groundwater conditions at the Site to evaluate the following:

- Temporary construction dewatering for the excavations of the proposed building onsite;
- Explore the potential need for a Permit to Take Water (PTTW) or Environmental Activity and Sector Registration (EASR) for Construction Dewatering from the MECP;
- Temporary management and discharge of groundwater during short-term construction dewatering
- Assess permanent drainage requirements; and

- Assess groundwater quality to identify potential adverse impacts to Halton Region/Town's sewer system.

## 1.2 Scope of Work

The scope of work for this investigation included:

- Site visits;
- Desktop review of pertinent geological and hydrogeological resources;
- Review the MECP Water Well Records and water use in the surrounding area;
- Fieldwork including drilling program consisting of six (6) boreholes, three (3) drilled boreholes were equipped with monitoring wells;
- Conducting single well response tests (slug tests) to determine hydraulic conductivity values across the site;
- Characterize the stratigraphy and measure the groundwater levels across the site;
- Collection and analysis of groundwater samples in order to quantify and characterize any possible contaminants that may impact future discharge applications;
- Estimation of construction dewatering volumes, which is to be used to predict the short-term groundwater control requirements for the construction of the proposed building on site.

## 2.0 FIELD PROGRAMS

- A total of six (6) boreholes (BH25-1 through BH25-6) were drilled by DS between October 21 and 22, 2025, at the site as part of the concurrent geotechnical, environmental and hydrogeological investigations. The boreholes were advanced to a depth ranging from 2.1 to 11.1 mbgs. Three (3) of the drilled boreholes were equipped with a 50 mm dia monitoring well to a depth ranging from 4.6 to 9.6 mbgs. All monitoring wells were developed before any use to allow for groundwater level monitoring, hydraulic conductivity testing, and to assess groundwater quality.
- A total of three (3) single well response tests (SWRTs) were completed by performing a rising head test (slug test) to estimate the hydraulic conductivity values of soils at the site.
- One (1) unfiltered groundwater sample was also collected and analyzed for the parameters listed under the Halton Region Sanitary and Storm Sewers By-law (BL 2-03) and Town of Oakville Storm Sewer By-law (BL 2009-031) to assess groundwater quality. The borehole (BH) and monitoring well (MW) location plan is shown in **Figure 3**.

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## 3.0 PHYSICAL SETTING

Available topographic maps, environmental, geotechnical, and hydrogeological reports were used to develop an understanding of the physical setting of the study area. Borehole logs, MECP WWRs, and the Ontario Geological Survey were used to interpret the geological and hydrogeological conditions at the development site.

### 3.1 Physiography and Drainage

The topography at the development site is generally flat with a surface elevation of approximately 103 masl. The topography generally slopes southeast, towards Lake Ontario, located approximately 2 km southeast of the site. The nearest surface water body to the site is Sixteen Mile Creek, located around 200 m west of the site. The shallow groundwater flow direction is inferred to be west towards Sixteen Mile Creek. Drainage in the study area is generally controlled by streams, artificial channels, the local topography, and may also be influenced by fill and underground utilities.

### 3.2 Geology

The following presents a brief description of regional and development site geology based on the review of available information and development site-specific soil investigations.

#### 3.2.1 Quaternary Geology

According to the Ontario Geological Survey mapping across the region, the site lies within the Shale Plains physiographic region of southern Ontario and the quaternary geology characterized by Bedrock, post-Precambrian predominantly consists of undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous thin layer of drift Paleozoic and Halton Hill predominantly silt to silty clay matrix, high in matrix carbonate content and clast poor deposits of Pleistocene. The surficial geology of the area is described as “Paleozoic bedrock” and “Modern alluvial deposits,” consisting of clay, silt, sand, gravel and may contain organic remains. The surficial geology map is shown in **Figure 2**.

#### 3.2.2 Bedrock Geology

According to the Ontario Geological Survey mapping across the region, the bedrock at the site is predominantly comprised of shale, limestone, dolostone, and siltstone of the Georgian Bay Formation, Blue Mountain Formation, Billings Formation, Collingwood Member, and Eastview Member. The bedrock was encountered during the current investigation at approximate depths ranging from 4.6 to 11.1 mbgs, corresponding to approximate elevations varying from 98.0 to 91.5 masl.

#### 3.2.3 Site Geology

On-site subsurface soil conditions were summarised from the subsurface geotechnical site investigation at the site from the boreholes advanced by DS for the current investigation. Detailed subsurface conditions

are presented on **Figure 4** and the borehole logs in **Appendix A**. The subsurface conditions in the boreholes are summarized in the following paragraphs.

**Pavement/Organic Material/Fill:** Asphalt layer, varying from 50 to 75mm in thickness, was present at the surface at boreholes BH25-5 and BH25-6. Granular material consisting of crusher run limestone was encountered below the asphaltic concrete material in these boreholes. The thickness of granular material was measured 150 mm below the existing ground surface. A layer of Organic material/topsoil, about 130 mm in thickness, was observed at the surface at Boreholes BH25-4 and BH25-3.

Fill material was found below the asphalt/organic layers at boreholes BH25-3 to BH25-6, at the surface, at the remaining boreholes BH25-1 and BH25-2, extending to depths ranging from 0.8 to 2.3 mbgs. It should be noted that borehole BH25-6 was terminated in fill material at an approximate depth of 2.1 mbgs. The fill layer contained organic clayey silt, trace to some of organics, rootlets, gravel, cobbles, rock fragments, shale fragments and wood pieces.

**Clayey Silt/Clayey Silt to Silty Clay (Till) Deposits:** A cohesive deposit of clayey silt, clayey silt to silty clay/till layer was found below the fill layers and non-cohesive layer in all boreholes except borehole BH25-6 at varying depths and to the underlying till/shale complex/shale bedrock, to approximate depths ranging from 1.0 to 6.0 mbgs in the boreholes. The clayey/till deposits were brown in colour and contained cobbles, boulders and traces of sand and gravel.

**Sandy Silt/Silty Sand (Till):** A cohesionless deposit was encountered below clayey silt to silty clay till and fill in all boreholes at varying depths except borehole BH25-6. The sandy silt till/silty sand layers were extended to depths ranging from 1.5 to 4.7 m below existing grade and extended to the underlying till/shale complex except borehole BH25-6.

**Till/Shale Complex:** Below the sandy silt/silty sand till in two boreholes, BH25-2 and BH25-3, sandy silt till shale complex was encountered and extended to the underlying found shale bedrock, to approximate depths ranging from 3.3 to 4.8 mbgs, respectively. The sandy silt till shale complex consisted of sandy silt till mixed with highly weathered shale.

**Shale Bedrock:** The shale bedrock of Georgian Bay Formation was encountered in all boreholes except BH25-6, at approximate depths ranging from 4.6 to 11.1 mbgs, corresponding to approximate elevations varying from 98.0 to 91.5 masl.

### **3.3 Hydrogeology**

The hydrogeology at the development site was evaluated using the on-site monitoring wells installed by DS, and the MECP WWRs in the study area.

#### **3.3.1 Local Groundwater Use**

Based on the review of the MECP WWRs, there are eighty-eight (88) water wells within a 500 m radius of the Site (**Appendix D**). All wells were noted as monitoring (MO)/test holes (TH) or not in use (NU) wells

except for one (1) well listed as an industrial (IN) well. The study area is serviced with municipal water and therefore, no groundwater users are expected in the area. **Figure 1** shows the MECP water well location plan.

### 3.3.2 Groundwater Conditions

Groundwater levels were measured in all available monitoring wells on October 28<sup>th</sup> and November 6, 2025, by DS. **Table 3-1** presents the groundwater levels in all monitoring wells. Groundwater levels generally ranged between 3.4 and 5.43 mbgs (elevation 97.3 to 99.2 masl). Groundwater flow direction was inferred to be south to southwest towards Sixteen Mile Creek. Groundwater levels may fluctuate due to seasonal variation and may be influenced by underground structures, utilities, and infilled material. Variations in groundwater levels may influence groundwater flow direction at the site.

**Table 3-1: Groundwater Levels in Monitoring Wells**

| Well ID | Ground Elevation (masl) | Screened Interval (mbgs) | October 28, 2025      |                  | November 6, 2025      |                  |
|---------|-------------------------|--------------------------|-----------------------|------------------|-----------------------|------------------|
|         |                         |                          | Depth to Water (mbgs) | Elevation (masl) | Depth to Water (mbgs) | Elevation (masl) |
| BH25-1  | 103                     | 5.5-8.5                  | 4.89                  | 98.1             | 4.85                  | 98.1             |
| BH25-3  | 102.75                  | 6.6-9.6                  | 5.43                  | 97.3             | 5.41                  | 97.3             |
| BH25-5  | 102.63                  | 4.6-7.6                  | 3.4                   | 99.2             | 3.8                   | 98.8             |

### 3.3.3 Hydraulic Conductivity

A total of three (3) Single Well Response Tests (slug tests) were completed by DS on October 28<sup>th</sup>, 2025, to estimate hydraulic conductivity (k) for the representative geological units in which the wells were screened. SWRTs were completed by performing a rising head test (slug test) with the use of Waterra® tubing to ‘instantaneously’ remove water from the well. A data logger was placed at the bottom of the wells to accurately measure the change in the hydraulic head versus time. Hydraulic conductivity (k) values were calculated using the Hvorslev method using the AquiferTest® Software. The semi-log plots for normalized drawdown versus time are provided in Appendix B. The k-values ranged between  $1.10 \times 10^{-7}$  to  $3.31 \times 10^{-6}$  m/s. Table 3-2 presents the Hydraulic Conductivity (k) values for the representative geological units.

**Table 3-2: Summary of Hydraulic Conductivity (k) Test Results**

| Well ID | Screened Interval (mbgs) | Screened Formation             | K-value (m/s)         | Geomean value         |
|---------|--------------------------|--------------------------------|-----------------------|-----------------------|
| BH25-1  | 5.5-8.5                  | Clayey Silt Till/Shale Bedrock | $3.31 \times 10^{-6}$ | $8.63 \times 10^{-7}$ |
| BH25-3  | 6.6-9.6                  | Shale Bedrock                  | $1.77 \times 10^{-6}$ |                       |
| BH25-5  | 4.6-7.6                  | Weathered Shale Bedrock        | $1.10 \times 10^{-7}$ |                       |

### 3.3.4 Groundwater Quality

To assess the suitability for discharge of groundwater to the Halton Region Sanitary and Storm Sewer and Town of Oakville Storm Sewer, one (1) unfiltered groundwater sample was collected from monitoring well BH25-1 on October 28<sup>th</sup>, 2025. The samples were placed in pre-cleaned laboratory supplied vials and/or

bottles provided with analytical test group-specific preservatives, as required. Dedicated nitrile gloves were used during sample handling. The groundwater samples were submitted to SGS Laboratories in Lakefield, Ontario. SGS is certified by the Canadian Association of Laboratory Accreditation Inc. (CALA) and the Canadian Standard Association (CSA). The analytical results were compared to the parameter limits listed under the Halton Sanitary Sewer Use Bylaw 2\_03 and Town of Oakville Storm Sewer Use Bylaw 2009-031. The reported analytical results indicate that TSS exceeded Halton Region sanitary sewer and comparing with the Town's storm sewer limits TSS, Copper, Manganese and Zinc exceeded the limits. Therefore, groundwater cannot be discharged into Region and Town's Sanitary and Storm sewers without pre-treatment. **Table 3-3** presents a summary of the exceeded parameters, and the certificate of analysis are provided in **Appendix C**.

**Table 3-3: Parameters in Groundwater Exceeding the Town of Halton Bylaw Discharge Criteria**

| Parameter                                                                    | Unit | Town of Oakville<br>Storm By-Law<br>Criteria | Halton Region<br>Sanitary By-Law<br>Criteria | BH25-1       |
|------------------------------------------------------------------------------|------|----------------------------------------------|----------------------------------------------|--------------|
| Total Suspended Solids (TSS)                                                 | mg/L | 15                                           | 350                                          | <b>404</b>   |
| Copper                                                                       | mg/L | 0.04                                         | 3                                            | <b>0.045</b> |
| Manganese                                                                    | mg/L | 0.05                                         | 5                                            | <b>0.413</b> |
| Zinc                                                                         | mg/L | 0.04                                         | 3                                            | <b>0.044</b> |
| <b>Note: 0.00-</b> Exceeded Storm Bylaw <u>0.00-</u> Exceeded Sanitary Bylaw |      |                                              |                                              |              |

## 4.0 CONSTRUCTION DEWATERING

The proposed development includes construction of 38 storeys Building with three(3) levels of underground parking (P3). The proposed established grade at the site is 102.83 meters above sea level (masl). Based on the drawings provided to DS (BDP Quadrangle, issued June 25, 2026), the lowest P3 level elevation will be set at 90.43 masl, about 12.40 m below the established grade. Considering the footings and elevator shaft, the maximum excavation depth would be approximately 14.43 mbgs, corresponding to an approximate elevation of 88.43 masl. For construction dewatering purposes, the groundwater level should be lowered at least one (1) m below the footings and elevator shaft elevation at about 87.43 masl. The unsealed construction excavation method with approximate excavation dimensions of 70 m long and 22 m wide is considered for the proposed development. Since the proposed underground structure will be below the groundwater table, dewatering will be required during the excavation of overburden material.

### 4.1 Estimation of Flow Rate - Unsealed Excavation

This section calculates the estimated dewatering required during the construction of the proposed building based on the highest k-value and the highest groundwater elevations at the site using the steady-state flow equation for unsealed excavation as follows. The estimated flow rates for the proposed buildings are summarised in **Table 4-1**.

$$Q_R = K \times \frac{H^2 - h^2}{0.733} \times \text{Log} (R_0/r_e)$$

$$r_e = \left( \frac{(a \times b)}{\pi} \right)^{0.5}$$

$$R_0 = (r_e + 3000)(H - h)(k^{0.5})$$

**Table: 4-1 Estimation of Flow Rate (Short-term Discharge) - Unsealed Excavation**

| Parameters                                                                     | P3 Level                |
|--------------------------------------------------------------------------------|-------------------------|
| K -Hydraulic conductivity (m/s)- Highest K-value                               | 3.31 x 10 <sup>-6</sup> |
| Groundwater Level- masl                                                        | 99.2                    |
| Lowest P3 Level Elevation-masl                                                 | 90.43                   |
| Lowest excavation Depth to include Foundation-masl                             | 88.43                   |
| Considered Aquifer Bottom- masl                                                | 87.43                   |
| H-Distance from water level to the bottom of an aquifer (m)                    | 12                      |
| h -Depth of water in the well while pumping (m)                                | 1                       |
| a- length of excavation (m)                                                    | 63.2                    |
| b- Width of excavation (m)                                                     | 28.7                    |
| r <sub>e</sub> -equivalent radius, where a and b are excavation dimensions (m) | 24                      |
| R <sub>0</sub> + r <sub>e</sub> - Radius of the cone of depression             | 84                      |
| Estimated Flow Rate- L/day (without safety factor)                             | 102,000                 |
| Estimated Flow Rate- L/day (with safety factor x 2)                            | 204,000                 |
| Stormwater Removal- L/day (@ 25 mm/day)                                        | 45,000                  |

## 4.2 Estimation of Flow Rate- Storm Water Consideration

During construction, additional removal of stormwater from precipitation into the open excavation will be required. The estimated flow rate is based on the excavation dimensions of 63.2 m long and 28.7 m wide and a theoretical 25 mm precipitation event in 24 hours. The total estimated dewatering that might be needed as a result of a 25 mm precipitation event would be approximately 45,000 L/day.

## 4.3 Total Estimation of Flow Rate (Short-Term/ Temporary Discharge)

Considering the unsealed excavation method, the recommended pumping rate for the proposed development considering three (3) levels of underground parking would be approximately **249,000 L/day**. These values incorporate a safety factor of x2 and account for stormwater as a result of a 25 mm precipitation event. The recommended flow rates for the proposed buildings are summarised in Table 4-2.

**Table 4-2: Total Construction Dewatering (Short-term Discharge) - Unsealed Excavation**

| Underground Parking | Flow Rate Q- without a safety factor (L/day) | Flow Rate Q- with a safety factor x2 (L/day) | Storm water (@ 25 mm/24 hrs.) (L/day) | Designed Flow Rate Or Total Flow Rate (L/day) |
|---------------------|----------------------------------------------|----------------------------------------------|---------------------------------------|-----------------------------------------------|
| <b>P3 Level</b>     | 102,000                                      | 204,000                                      | 45,000                                | 249,000                                       |

It should be noted that the current dewatering assessment is based on monitoring wells screened in bedrock at Elevation 93 m or above. During subsurface investigation, boreholes were advanced to a maximum elevation of approximately 91.5 m, which is about 1.1 m above the proposed lowest basement level at Elevation 90.4 masl and 3.1 m above the assumed lowest foundation level at Elevation 88.4 masl. Although bedrock generally becomes more competent and less fractured with depth, one or two additional deeper monitoring wells are recommended to characterize the bedrock and groundwater conditions at and below the proposed lowest excavation level (88.4 masl), extending approximately 3 to 5 m to support the current groundwater conditions and dewatering assessment.

#### 4.4 Permanent Drainage (Long-term Discharge)

Following the construction of the underground structure, long-term groundwater flow to the underfloor drainage system for the building will be a function of the upward flux and drainage along the foundation wall. As presented in **Table 4-3**, the estimated permanent theoretical long-term flow would be approximately 72,000 L/day. Applying a safety factor of 2, the design flow increases to 144,000 L/day. It should be noted that the Town of Oakville generally does not support permanent drainage to the sewer system. As such, on-site management of long-term discharge may be needed.

**Table: 4-3 Estimation of Flow Rate (Long-term Discharge) - Unsealed Excavation**

| Parameters                                                        | P3 Level              |
|-------------------------------------------------------------------|-----------------------|
| K -Hydraulic conductivity (m/s)- Highest K-value                  | $3.31 \times 10^{-6}$ |
| Subsurface Drainage- Elevation                                    | 89.9                  |
| Groundwater Level- masl                                           | 99.2                  |
| H-Distance from water level to the bottom of an aquifer (m)       | 9.7                   |
| h -Depth of water in the well while pumping (m)                   | 0                     |
| a- length of excavation (m)                                       | 63.2                  |
| b- Width of excavation (m)                                        | 28.7                  |
| $r_e$ -equivalent radius, where a and b excavation dimensions (m) | 24                    |
| $R_o + r_e$ - Radius of the cone of depression                    | 77                    |
| Estimated Flow Rate- L/day (without safety factor)                | 72,000                |
| Estimated Flow Rate- L/day (with safety factor x 2)               | 144,000               |

#### 4.5 Permit Requirements

##### 4.5.1 Environmental Activity and Sector Registry (EASR) /Permit to Take Water (PTTW) Application

An Environmental Activity Sector Registration (EASR) is required to be submitted to the Ministry of the Environment, Conservation and Parks (MECP) if the taking of groundwater and stormwater for a temporary construction project is more than 50,000 L/day. The EASR application is an online registry and should be submitted to the MECP before any construction dewatering. As of July 1<sup>st</sup>, 2025, a PTTW is not required for construction dewatering. A PTTW is only required to be submitted to the MECP if the taking of groundwater and stormwater for a permanent discharge is more than 379,000 L/day.

Since the expected design dewatering rate for the unsealed excavation is higher than the MECP's daily water-taking limit of 50,000 L/day, an EASR application will be required to be submitted to the MECP for short-term dewatering before starting construction. Since the long-term (permanent) flow rate is expected to be less than the MECP's minimum pumping limit of 379,000 L/day, a permit to take water (PTTW) application is not required to be submitted to the MECP permanently.

#### **4.4.2 Discharge Permits**

A discharge permit may be required from the Halton Region/Town of Oakville to discharge pumped water from the site into the sewer system for a short-term discharge, if allowed.

### **5.0 POTENTIAL IMPACTS**

The following are the predicted potential impacts as a result of construction dewatering:

#### **5.1 Local Groundwater Use**

The study area is serviced by a municipal water supply. Since it is not expected to have any use of groundwater as a source of drinking water within a radius of 500 meters from the development site, there will be no short-term or long-term predicted impacts to private water wells occurring from the proposed dewatering activities.

#### **5.2 Point of Discharge and Groundwater Quality**

The reported analytical results indicate that TSS exceeded Halton Region sanitary sewer and comparing with the Town's storm sewer limits TSS, Copper, Manganese and Zinc exceeded the limits. Therefore, groundwater at the development site is not suitable for discharge into the Halton Region's sanitary and storm and Town's storm sewers without treatment. Treatment options include but not limited to the settlement of suspended solids and filtration to remove fine particles.

#### **5.3 Settlement Due to Dewatering Activities**

There are structures and utilities (structures, buildings, sewers, roads, etc.) expected within the predicted zone of influence, which is estimated at 82 meters from the center of the excavation when considering an unsealed excavation. Since the proposed construction is anticipated to be constructed within till deposits and bedrock, an effect of settlement due to dewatering would not be expected or minimal. However, DS recommends consulting geotechnical consultants for settlement monitoring requirements to assess potential settlement due to any dewatering activities at the site during construction.

#### **5.4 Current PTTW Search**

The MECP PTTW Open Data Catalogue was searched within a 1 km radius of the Site. The search indicated that there were no active PTTWs within 1 km of the Site. Therefore, groundwater interferences from nearby water taking activities are not expected to occur.

---

## **5.5 Source Protection Area**

The site is located within the Halton Region Source Protection Area (SPA). Source Protection Plans contain policies aimed at protecting drinking water sources by reducing or eliminating significant threats to the source of municipal drinking water. There is no water well users within the ZOI. Therefore, no impacts are anticipated to the drinking water supply within the ZOI.

## **5.6 Highly Vulnerable Aquifer**

The site is not located in a Highly Vulnerable Aquifer (HVA). No HVA impacts are anticipated due to the proposed temporary dewatering.

## **5.7 Wellhead Protection Area**

The site and the study area are not located within a municipal Wellhead Protection Area-Quantity (WHPA-Q). Therefore, there is no risk identified to drinking water supply in the area.

## **5.8 Intake Protection Zone**

The site and the study area are not located within a water intake protection zone (IPZ). No IPZ impacts are anticipated due to the proposed temporary dewatering.

## **5.9 Surface Water**

There are no surface water features on the site. Sixteen Mile Creek is located approximately 200 m west of the site, which is the nearest surface water body to the site. The creek does not fall within the ZOI, and therefore there are no surface water impacts anticipated from construction dewatering activities. Should design plans change, surface water impacts will need to be reassessed accordingly.

## **5.10 Well Decommissioning**

Following the completion of construction activities, all dewatering wells, well points, eductors and monitoring wells installed at various stages of this project must be decommissioned. The installation and eventual decommissioning of the wells and the dewatering system must be carried out by a licenced water well contractor in accordance with Regulation 903 of the Ontario Water Resources Act.

# **6.0 MONITORING AND MITIGATION**

Based on the finding of hydrogeological assessment and associated potential impacts due to development, the following monitoring and mitigation program is provided:

- Baseline groundwater quality has been assessed and established before construction. However, groundwater quality can change based on several factors (land-use change, spills, etc.) and should be monitored during construction dewatering and after construction to ensure that water quality

meets the guidelines or regulations associated with any permits from the MECP and the City of Toronto.

- Once a groundwater dewatering system is set up at the Site, daily and weekly monitoring should be implemented to assess the groundwater conditions such as water levels, measurement of discharge flow, discharge water quality and any adverse impacts as a result of dewatering include settlement.
- Based on dewatering assessment, an EASR application is required for short-term dewatering. Additional monitoring may be required by the MECP to be implemented during the design stage.
- A discharge permit is required to be submitted to the city for short-term dewatering if private water is sent to the sewer system.
- Following the completion of construction activities, all dewatering wells, well points, eductors and monitoring wells installed at various stages of this project must be decommissioned. The installation and eventual decommissioning of the wells and the dewatering system must be carried out by a licensed water well contractor in accordance with Regulation 903 of the Ontario Water Resources Act.

## **7.0 LIMITATIONS**

This report was prepared for the sole use of the addressee to provide an assessment of the hydrogeological conditions on the property. The information presented in this report is based on information collected during the completion of the hydrogeological investigation. DS Consultants Limited was required to use and rely upon various information sources produced by other parties. The information provided in this report reflects DS' judgment in light of the information available at the time of report preparation. This report may not be relied upon by any other person or entity without the written authorization of DS Consultants Ltd. The scope of services performed in the execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or reuse of this document or findings, conclusions, and recommendations represented herein, is at the sole risk of said users. The conclusions drawn from the Hydrogeological report were based on information at selected observation and sampling locations. Different conditions between and beyond these locations may become apparent during future investigations or on-site work, which could not be detected or anticipated at the time of this investigation. DS Consultants Ltd. cannot be held responsible for hydrogeological conditions at the site that was not apparent from the available information.

Should you have any questions regarding these findings, please contact the undersigned.

**DS Consultants Ltd.**



**Meysam Jafari, M.Sc., P.Geo.**  
**Project Manager, Hydrogeology**



**Pradeep Patel, P.Geo.**  
**Hydrogeologist**

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## 8.0 REFERENCES

Chapman, L.J., and D.F. Putnam; The Physiography of Southern Ontario, Third Edition, Ontario Geological Survey Special Volume 2; 1984, & 2007.

Freeze, R.A., and J.A. Cherry. "Groundwater". Prentice-Hall, Inc. Englewood Cliffs, NJ. 1979.

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In-Situ Infiltration Testing Investigation – 8025 Lawson Road, Milton, Ontario. Prepared by DS Consultants Ltd. Dated November 15, 2022.

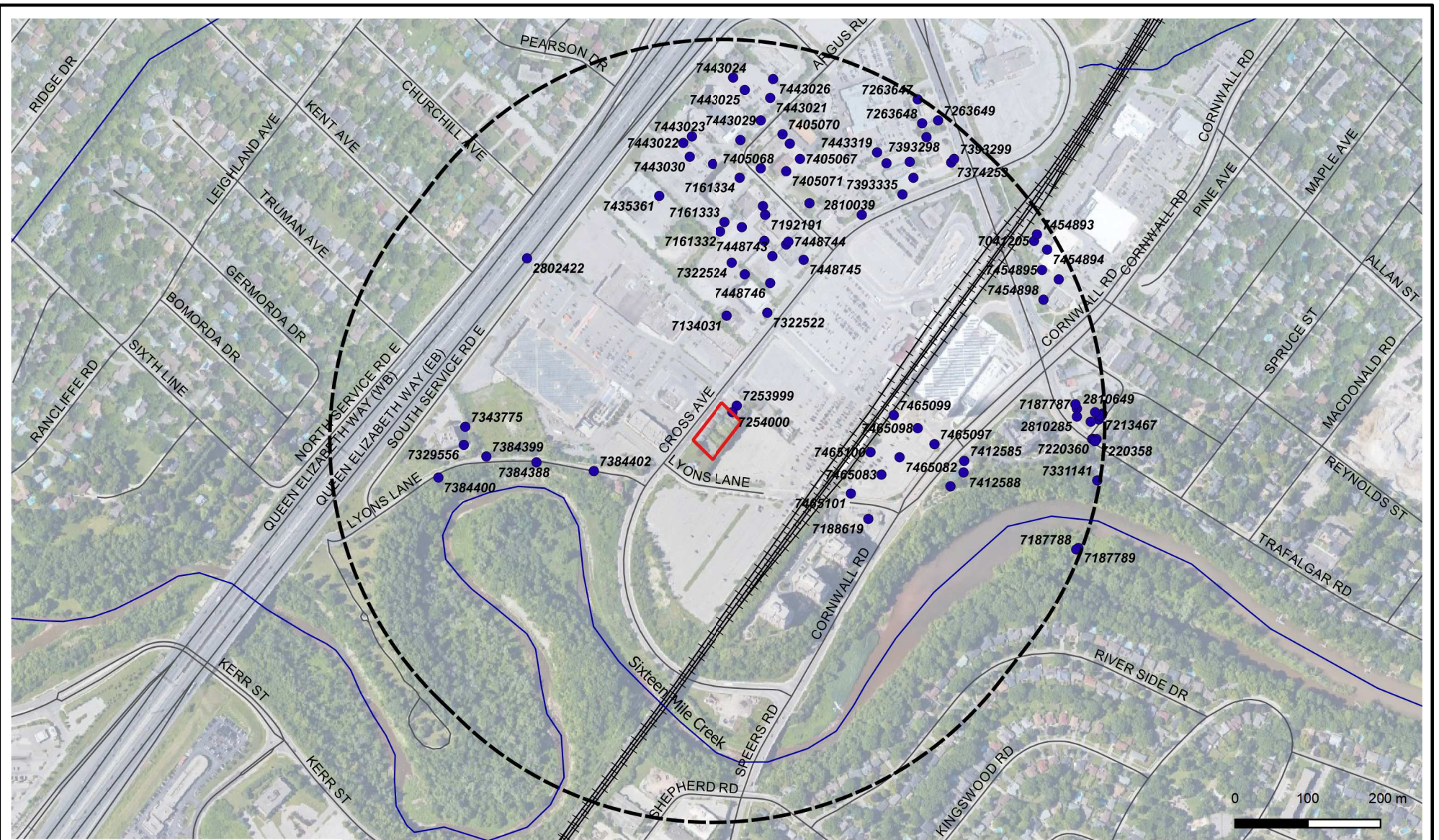
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Powers, J. Patrick, P.E. (1992); Construction Dewatering: New Methods and Applications - Second Edition, New York: John Wiley & Sons.

Pat M. Cashman and Martin Preene; Groundwater Lowering in Construction- Second Edition, CRC Press.

## Figures



# Legend

- Site Boundary
- 500m Buffer
- Registered Water Well (MECP WWR)



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Vaughan, Ontario L4H 0K8  
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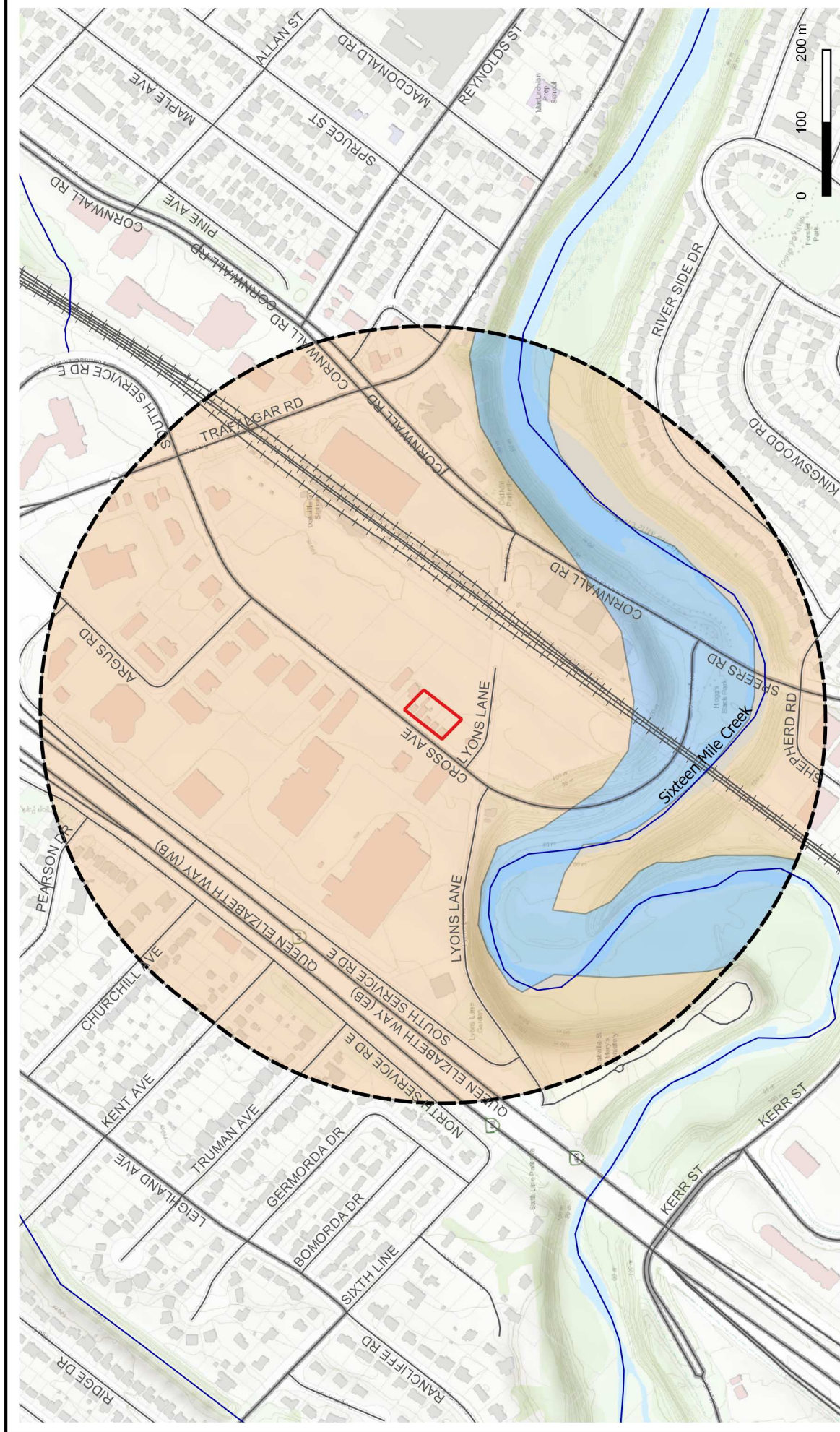
Client: **Balbir Sanghera**

Project: **HYDROGEOLOGICAL INVESTIGATION  
118-132 Cross Avenue, Oakville, ON**

Title: **SITE LOCATION AND MECP WELL RECORDS**

|                                          |                     |                            |                         |
|------------------------------------------|---------------------|----------------------------|-------------------------|
| Size:<br>8.5 x 11                        | Approved By:<br>M.J | Drawn By:<br>S.Y           | Date:<br>November 2025  |
| Rev:<br>0                                | Scale:<br>As Shown  | Project No.:<br>25-315-100 | Figure No.:<br><b>1</b> |
| Image/Map Source: Google Satellite Image |                     |                            |                         |





Legend

-  Site Boundary
-  500m Buffer
-  19 - Stream deposits
-  3 - Bedrock

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Client:

Balbir Sanghera

Project:

HYDROGEOLOGICAL INVESTIGATION  
118-132 Cross Avenue, Oakville, ON

Title:

**SURFICIAL GEOLOGY MAP**

Size:

8.5 x 11

Approved By:

M.J

Drawn By:

S.Y

Date:

November 2025

Rev:

0

Scale:

As Shown

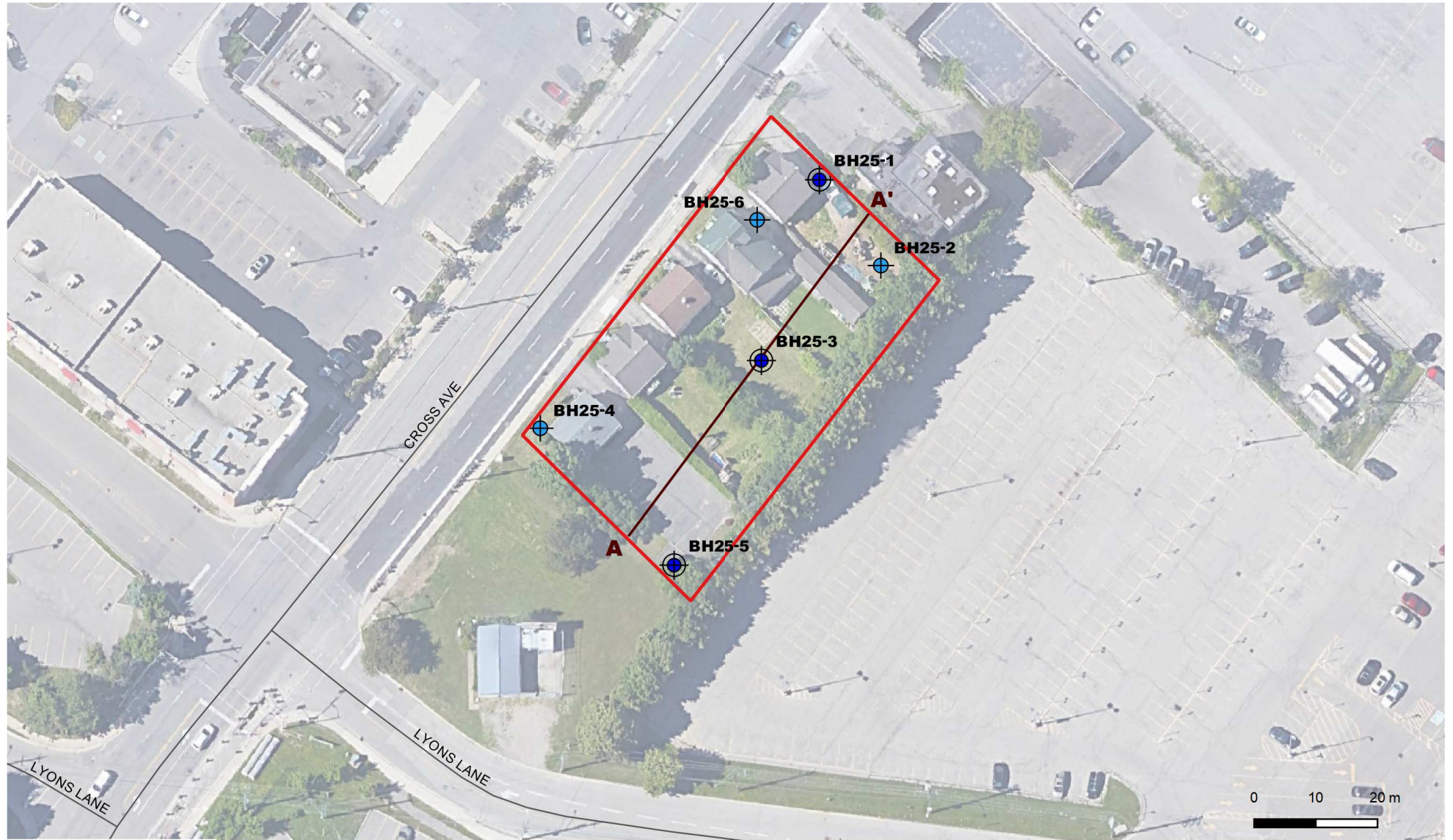
Project No.:

25-315-100

Figure No.:

**2**

Image/Map Source Esri Topo Map & <https://www.mndm.gov.on.ca/>



#### Legend

Site Boundary

#### Borehole Location

⊕ Borehole

⊗ Monitoring Well



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Client: Balbir Sanghera

Project: HYDROGEOLOGICAL INVESTIGATION  
118-132 Cross Avenue, Oakville, ON

Title: **BOREHOLE AND MONITORING WELL LOCATIONS**



Size:  
8.5 x 11

Rev:  
0

Approved By: M.J

Scale: As Shown

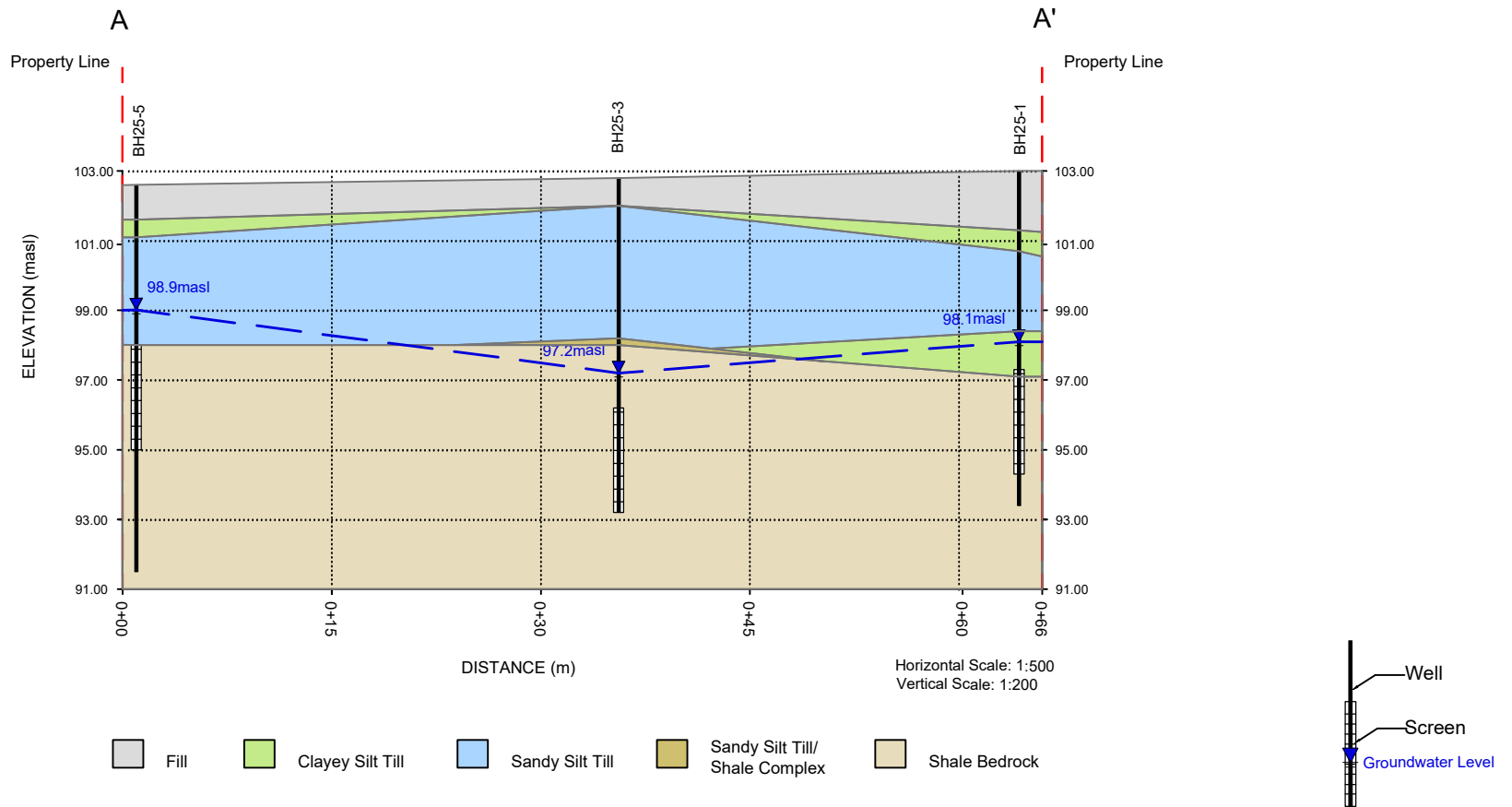
Image/Map Source: Google Satellite Image

Drawn By: S.Y

Project No.: 25-315-100

Date: November 2025

Figure No.: **3**



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www.dsconsultants.ca

Client: **Balbir Sanghera**

Project: **HYDROGEOLOGICAL INVESTIGATION**  
**118-132 Cross Avenue, Oakville, ON**

Title: **GEOLOGICAL CROSS SECTION A-A'**

Size:  
8.5 x 11

Approved By:  
M.J

Drawn By:  
S.Y

Date:  
November 2025

Rev.

Scale:  
As Shown

Project No:  
25-315-100

Figure No.  
**4**

# Appendices

## Appendix A: Borehole Logs

PROJECT: Geotechnical Investigation  
CLIENT: Balbir Sanghera  
PROJECT LOCATION: 118-132 Cross Avenue, Oakville, ON  
DATUM: Geodetic  
BH LOCATION: See Drawing 1 N 4812114 E 606339.8

**DRILLING DATA**  
Method: Hollow Stem Auger  
Diameter: 200mm  
Date: Oct-22-2025  
REF. NO.: 25-315-100  
ENCL NO.: 2

| SOIL PROFILE         |                                                                                                                                                  |             | SAMPLES |      |                    | GROUND WATER<br>CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION<br>RESISTANCE PLOT |    |    |    | PLASTIC<br>LIMIT<br>W <sub>P</sub> | NATURAL<br>MOISTURE<br>CONTENT<br>W | LIQUID<br>LIMIT<br>W <sub>L</sub> | POCKET PEN.<br>(C <sub>u</sub> ) (kPa) | NATURAL UNIT WT<br>(kN/m <sup>3</sup> ) | REMARKS<br>AND<br>GRAIN SIZE<br>DISTRIBUTION<br>(%) |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|------|--------------------|----------------------------|-----------|---------------------------------------------|----|----|----|------------------------------------|-------------------------------------|-----------------------------------|----------------------------------------|-----------------------------------------|-----------------------------------------------------|
| (m)<br>ELEV<br>DEPTH | DESCRIPTION                                                                                                                                      | STRATA PLOT | NUMBER  | TYPE | "N" BLOWS<br>0.3 m |                            |           | SHEAR STRENGTH (kPa)                        |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
| 103.0                |                                                                                                                                                  |             |         |      |                    |                            |           | 20                                          | 40 | 60 | 80 | 100                                |                                     |                                   |                                        |                                         | GR SA SI CL                                         |
| 0.0                  | FILL: clayey silt, trace rootlets, trace rock fragments, piece of shale, brown, moist, firm to very stiff                                        |             | 1       | SS   | 4                  |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
|                      |                                                                                                                                                  |             | 2       | SS   | 4                  |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
| 101.3                | CLAYEY SILT TILL: sandy, trace gravel, trace cobble/boulder, brown, moist, very stiff                                                            |             | 3       | SS   | 26                 |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
| 100.7                | SANDY SILT TILL: trace to some clay, trace to some gravel, cobbles/boulders, brown, moist, dense to very dense trace shale fragments at 3.1m     |             | 4       | SS   | 47                 |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         | 12 19 48 11                                         |
| 2.3                  |                                                                                                                                                  |             | 5       | SS   | 54                 |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
|                      |                                                                                                                                                  |             |         |      |                    |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
| 98.4                 | CLAYEY SILT TILL: trace sand, trace gravel, grey, moist, hard                                                                                    |             | 6       | SS   | 50/<br>30mm        |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
|                      |                                                                                                                                                  |             |         |      |                    |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
| 97.1                 | SHALE BEDROCK: Georgian Bay Formation, grey, weathered                                                                                           |             | 7       | SS   | 50/<br>50mm        |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
| 96.9                 | TCR=85%, SCR=40%, RQD=0%                                                                                                                         |             | R1      | RC   |                    |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
| 96.4                 | Hard layer=8%, Maximum hard layer thickness=25mm                                                                                                 |             |         |      |                    |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
| 6.6                  | TCR=96%, SCR=72%, RQD=55%                                                                                                                        |             | R2      | RC   |                    |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
|                      | Hard layer=8%, Maximum hard layer thickness=50mm                                                                                                 |             |         |      |                    |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
| 94.9                 | TCR=96%, SCR=86%, RQD=72%                                                                                                                        |             |         |      |                    |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
| 8.1                  | Hard layer=15%, Maximum hard layer thickness=130mm                                                                                               |             | R3      | RC   |                    |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
| 93.4                 | END OF BOREHOLE:                                                                                                                                 |             |         |      |                    |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |
| 9.6                  | Notes:<br>1) 50mm dia. monitoring well installed upon completion.<br>2) Water Level Readings:<br><br>Date: Water Level(mbgl):<br>Nov 6, 2025 4.9 |             |         |      |                    |                            |           |                                             |    |    |    |                                    |                                     |                                   |                                        |                                         |                                                     |

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3 , × 3 : Numbers refer to Sensitivity

○ = 3% Strain at Failure

DS SOIL LOG-2021-FINAL 25-315-100 GEO.GPJ DS.GDT 25-11-26

PROJECT: Geotechnical Investigation  
CLIENT: Balbir Sanghera  
PROJECT LOCATION: 118-132 Cross Avenue, Oakville, ON  
DATUM: Geodetic  
BH LOCATION: See Drawing 1 N 4812100.1 E 606349.8

**DRILLING DATA**  
Method: Hollow Stem Auger  
Diameter: 200mm  
Date: Oct-22-2025  
REF. NO.: 25-315-100  
ENCL NO.: 3

| SOIL PROFILE         |                                                                                                                         |                                                                                   | SAMPLES |      |                    | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT |                 | PLASTIC LIMIT<br>W <sub>P</sub> | NATURAL MOISTURE CONTENT<br>W | LIQUID LIMIT<br>W <sub>L</sub> | POCKET PEN.<br>(C <sub>u</sub> ) (kPa) | NATURAL UNIT WT<br>(kN/m <sup>3</sup> ) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|------|--------------------|-------------------------|-----------|------------------------------------------|-----------------|---------------------------------|-------------------------------|--------------------------------|----------------------------------------|-----------------------------------------|-----------------------------------------|
| (m)<br>ELEV<br>DEPTH | DESCRIPTION                                                                                                             | STRATA PLOT                                                                       | NUMBER  | TYPE | "N" BLOWS<br>0.3 m |                         |           | SHEAR STRENGTH (kPa)                     |                 |                                 |                               |                                |                                        |                                         |                                         |
| 102.7                |                                                                                                                         |                                                                                   |         |      |                    |                         |           | 20 40 60 80 100                          | 20 40 60 80 100 | 10 20 30                        |                               |                                |                                        |                                         | GR SA SI CL                             |
| 0.0                  | FILL: organic clayey silt, trace rootlets, trace rock fragments, gravel, dark brown, moist, stiff                       |  | 1       | SS   | 11                 |                         |           |                                          |                 |                                 | ○                             |                                |                                        |                                         |                                         |
| 101.9                |                                                                                                                         |                                                                                   |         |      |                    |                         |           |                                          |                 |                                 |                               |                                |                                        |                                         |                                         |
| 0.8                  | FILL: clayey silt, trace sand, trace gravel, brown, moist to very moist, firm to stiff<br>trace cobble/boulder at 1.0 m |  | 2       | SS   | 10                 |                         |           |                                          |                 |                                 | ○                             |                                |                                        |                                         |                                         |
|                      |                                                                                                                         |                                                                                   |         |      |                    |                         |           |                                          |                 |                                 |                               |                                |                                        |                                         |                                         |
|                      |                                                                                                                         |                                                                                   | 3       | SS   | 4                  |                         |           |                                          |                 |                                 |                               |                                |                                        |                                         |                                         |
| 100.4                |                                                                                                                         |                                                                                   |         |      |                    |                         |           |                                          |                 |                                 |                               |                                |                                        |                                         |                                         |
| 2.3                  | SANDY SILT TILL: some clay, trace gravel, brown, moist, very dense                                                      |  | 4       | SS   | 52                 |                         |           |                                          |                 |                                 | ○                             |                                |                                        |                                         |                                         |
| 99.4                 |                                                                                                                         |                                                                                   |         |      |                    |                         |           |                                          |                 |                                 |                               |                                |                                        |                                         |                                         |
| 3.3                  | SANDY SILT TILL/SHALE COMPLEX: trace clay, trace gravel, brown to reddish brown, moist, very dense                      |  | 5       | SS   | 56                 |                         |           |                                          |                 |                                 | ○                             |                                |                                        |                                         |                                         |
|                      |                                                                                                                         |                                                                                   |         |      |                    |                         |           |                                          |                 |                                 |                               |                                |                                        |                                         |                                         |
| 98.0                 |                                                                                                                         |                                                                                   |         |      |                    |                         |           |                                          |                 |                                 |                               |                                |                                        |                                         |                                         |
| 4.7                  | SHALE BEDROCK: Georgian Bay Formation, grey, weathered                                                                  |  | 6       | SS   | 50/<br>30mm        |                         |           |                                          |                 |                                 |                               |                                |                                        |                                         |                                         |
| 97.3                 |                                                                                                                         |                                                                                   |         |      |                    |                         |           |                                          |                 |                                 |                               |                                |                                        |                                         |                                         |
| 5.4                  | END OF BOREHOLE:<br>Notes:<br>1) Auger refusal at 5.4m.                                                                 |                                                                                   | 7       | SS   | 50/<br>50mm        |                         |           |                                          |                 |                                 |                               |                                |                                        |                                         |                                         |

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

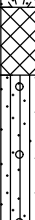
GRAPH NOTES

+ 3 , × 3 : Numbers refer to Sensitivity

○ = 3% Strain at Failure

PROJECT: Geotechnical Investigation  
CLIENT: Balbir Sanghera  
PROJECT LOCATION: 118-132 Cross Avenue, Oakville, ON  
DATUM: Geodetic  
BH LOCATION: See Drawing 1 N 4812084.7 E 606330.4

**DRILLING DATA**  
Method: Hollow Stem Auger  
Diameter: 200mm  
Date: Oct-22-2025  
REF. NO.: 25-315-100  
ENCL NO.: 4

| SOIL PROFILE |                                                                                                                                                                                                                                             |                                                                                   | SAMPLES |          |                 | GROUND WATER CONDITIONS                                                            | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT |    | PLASTIC LIMIT NATURAL MOISTURE CONTENT LIQUID LIMIT |     |    | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m <sup>3</sup> ) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) |  |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|----------|-----------------|------------------------------------------------------------------------------------|-----------|------------------------------------------|----|-----------------------------------------------------|-----|----|------------------------|--------------------------------------|-----------------------------------------|--|
| (m)          | DESCRIPTION                                                                                                                                                                                                                                 | STRATA PLOT                                                                       | NUMBER  | TYPE     | "N" BLOWS 0.3 m |                                                                                    |           | SHEAR STRENGTH (kPa)                     |    | WATER CONTENT (%)                                   |     |    |                        |                                      |                                         |  |
| 102.8        | <b>TOPSOIL:</b> 130mm<br><b>FILL:</b> sandy silt, trace rootlets, trace gravel, trace wood piece, trace organics, dark brown, moist, loose<br><b>SANDY SILT TILL:</b> trace clay, trace gravel, trace cobbles/boulders, brown, moist, dense |  | 1       | SS       | 5               |  | 20        | 40                                       | 60 | 80                                                  | 100 | 10 | 20                     | 30                                   | 6 56 30 8                               |  |
| 102.0        |                                                                                                                                                                                                                                             |                                                                                   | 2       | SS       | 44              |                                                                                    | 20        | 40                                       | 60 | 80                                                  | 100 | 10 | 20                     | 30                                   |                                         |  |
| 100.5        |                                                                                                                                                                                                                                             |                                                                                   | 3       | SS       | 37              |                                                                                    | 20        | 40                                       | 60 | 80                                                  | 100 | 10 | 20                     | 30                                   |                                         |  |
| 98.2         |                                                                                                                                                                                                                                             |                                                                                   | 4       | SS       | 57              |                                                                                    | 20        | 40                                       | 60 | 80                                                  | 100 | 10 | 20                     | 30                                   |                                         |  |
| 98.0         |                                                                                                                                                                                                                                             |                                                                                   | 5       | SS       | 81              |                                                                                    | 20        | 40                                       | 60 | 80                                                  | 100 | 10 | 20                     | 30                                   |                                         |  |
| 96.7         | <b>SANDY SILT TILL/SHALE COMPLEX:</b> trace clay, trace gravel, reddish brown, moist, very dense<br><b>SHALE BEDROCK:</b> Georgian Bay Formation, grey, weathered                                                                           | 6                                                                                 | SS      | 50/130mm | 20              |                                                                                    | 40        | 60                                       | 80 | 100                                                 | 10  | 20 | 30                     |                                      |                                         |  |
| 96.2         |                                                                                                                                                                                                                                             | 7                                                                                 | SS      | 50/100mm | 20              |                                                                                    | 40        | 60                                       | 80 | 100                                                 | 10  | 20 | 30                     |                                      |                                         |  |
| 94.7         |                                                                                                                                                                                                                                             | 8                                                                                 | SS      | 50/100mm | 20              |                                                                                    | 40        | 60                                       | 80 | 100                                                 | 10  | 20 | 30                     |                                      |                                         |  |
| 93.2         | <b>END OF BOREHOLE:</b><br>Notes:<br>1) 50mm dia. monitoring well installed upon completion.<br>2) Water Level Readings:<br><br>Date: Water Level(mbgf):<br>Nov 6, 2025 5.6                                                                 |                                                                                   |         |          |                 |                                                                                    |           |                                          |    |                                                     |     |    |                        |                                      |                                         |  |

W. L. 97.2 m  
Nov 06, 2025

**GROUNDWATER ELEVATIONS**

Measurement 1st 2nd 3rd 4th

**GRAPH NOTES**

+ 3 , × 3 : Numbers refer to Sensitivity  
○ = 3% Strain at Failure



PROJECT: Geotechnical Investigation  
CLIENT: Balbir Sanghera  
PROJECT LOCATION: 118-132 Cross Avenue, Oakville, ON  
DATUM: Geodetic  
BH LOCATION: See Drawing 1 N 4812073.7 E 606294.4

## DRILLING DATA

Method: Hollow Stem Auger  
Diameter: 200mm  
Date: Oct-22-2025

REF. NO.: 25-315-100  
ENCL NO.: 5

| SOIL PROFILE         |                                                                                                                                                                 |             | SAMPLES |      |                    | GROUND WATER<br>CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION<br>RESISTANCE PLOT |  | PLASTIC NATURAL LIQUID<br>LIMIT MOISTURE CONTENT LIMIT |   | POCKET PEN.<br>(Cu) (kPa) | NATURAL UNIT WT<br>(kN/m <sup>3</sup> ) | REMARKS<br>AND<br>GRAIN SIZE<br>DISTRIBUTION<br>(%) |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|------|--------------------|----------------------------|-----------|---------------------------------------------|--|--------------------------------------------------------|---|---------------------------|-----------------------------------------|-----------------------------------------------------|
| (m)<br>ELEV<br>DEPTH | DESCRIPTION                                                                                                                                                     | STRATA PLOT | NUMBER  | TYPE | "N" BLOWS<br>0.3 m |                            |           | SHEAR STRENGTH (kPa)                        |  | W <sub>p</sub>                                         | W | W <sub>L</sub>            |                                         |                                                     |
| 103.2                |                                                                                                                                                                 |             |         |      |                    |                            |           | 20 40 60 80 100                             |  |                                                        |   |                           |                                         |                                                     |
| 103.1                | <b>TOPSOIL:</b> 130mm                                                                                                                                           |             | 1       | SS   | 5                  |                            | 103       | 20 40 60 80 100                             |  |                                                        |   |                           |                                         |                                                     |
| 102.9                | <b>FILL:</b> sandy silt, topsoil inclusion, trace rootlets, trace gravel, trace wood piece, trace organics, dark brown, moist, loose to compact cobbles at 0.8m |             | 2       | SS   | 13                 |                            | 102       | 20 40 60 80 100                             |  |                                                        |   |                           |                                         |                                                     |
| 102.7                |                                                                                                                                                                 |             | 3       | SS   | 16                 |                            | 101       | 20 40 60 80 100                             |  |                                                        |   |                           |                                         |                                                     |
| 100.9                | <b>SANDY SILT TILL:</b> some clay, trace gravel, occasional cobble, brown, moist, dense                                                                         |             | 4       | SS   | 41                 |                            | 100       | 20 40 60 80 100                             |  |                                                        |   |                           |                                         |                                                     |
| 100.1                | <b>CLAYEY SILT TILL:</b> some sand, trace to some gravel, shale fragments inclusions, trace cobble/boulder, brown to grey, moist, hard                          |             | 5       | SS   | 34                 |                            | 99        | 20 40 60 80 100                             |  |                                                        |   |                           |                                         |                                                     |
| 97.2                 | grey at 4.6m                                                                                                                                                    |             | 6       | SS   | 32                 |                            | 98        | 20 40 60 80 100                             |  |                                                        |   |                           |                                         |                                                     |
| 96.9                 | <b>SHALE BEDROCK:</b> Georgian Bay Formation, grey, weathered                                                                                                   |             | 7       | SS   | 50/                |                            | 97        | 20 40 60 80 100                             |  |                                                        |   |                           |                                         |                                                     |
| 6.3                  | <b>END OF BOREHOLE:</b><br>Notes:<br>1) Borehole dry at the bottom upon completion.                                                                             |             |         |      | 25mm               |                            |           |                                             |  |                                                        |   |                           |                                         |                                                     |

## GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH  
NOTES

+ 3 , × 3 : Numbers refer to Sensitivity

○ = 3% Strain at Failure

PROJECT: Geotechnical Investigation  
CLIENT: Balbir Sanghera  
PROJECT LOCATION: 118-132 Cross Avenue, Oakville, ON  
DATUM: Geodetic  
BH LOCATION: See Drawing 1 N 4812051.5 E 606316.1

**DRILLING DATA**  
Method: Hollow Stem Auger/Mud Rotary  
Diameter: 200mm  
Date: Oct-21-2025  
REF. NO.: 25-315-100  
ENCL NO.: 6

| SOIL PROFILE |                                                                                                                                                                     |             | SAMPLES |      |                 | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT |    | PLASTIC LIMIT  |    | NATURAL MOISTURE CONTENT |                   | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m <sup>3</sup> ) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|------|-----------------|-------------------------|-----------|------------------------------------------|----|----------------|----|--------------------------|-------------------|------------------------|--------------------------------------|-----------------------------------------|
| (m)          | DESCRIPTION                                                                                                                                                         | STRATA PLOT | NUMBER  | TYPE | "N" BLOWS 0.3 m |                         |           | SHEAR STRENGTH (kPa)                     |    | W <sub>p</sub> | W  | W <sub>L</sub>           | WATER CONTENT (%) |                        |                                      |                                         |
| 102.6        | ASPHALT: 50mm                                                                                                                                                       |             |         |      |                 |                         |           | 20                                       | 40 | 60             | 80 | 100                      | 10                | 20                     | 30                                   | GR SA SI CL                             |
| 100.2        | GRANULAR BASE: crusher run limestone, 150mm                                                                                                                         |             | 1       | SS   | 4               |                         | 102       |                                          |    |                |    |                          |                   |                        |                                      |                                         |
| 101.6        | FILL: clayey silt, trace rootlets, trace gravel, some sand, rock fragments, brown, moist, firm to stiff                                                             |             | 2       | SS   | 13              |                         | 101       |                                          |    |                |    |                          |                   |                        |                                      |                                         |
| 101.1        | CLAYEY SILT TILL: sandy, trace gravel, brown, moist, stiff                                                                                                          |             | 3       | SS   | 55              |                         | 100       |                                          |    |                |    |                          |                   |                        |                                      |                                         |
| 1.5          | SANDY SILT TILL: trace to some clay, trace gravel, cobbles/boulders, brown to reddish brown, moist, very dense no recovery due to cobbles/boulder at 2.3m           |             | 4       | SS   | 50/50mm         |                         | 99        |                                          |    |                |    |                          |                   |                        |                                      | 9 36 41 14                              |
| 2            |                                                                                                                                                                     |             | 5       | SS   | 55              |                         | 98        |                                          |    |                |    |                          |                   |                        |                                      |                                         |
| 4            |                                                                                                                                                                     |             |         |      |                 |                         | 97        |                                          |    |                |    |                          |                   |                        |                                      |                                         |
| 4.6          | SHALE BEDROCK: grey, weathered                                                                                                                                      |             | 6       | SS   | 80              |                         | 96        |                                          |    |                |    |                          |                   |                        |                                      |                                         |
| 5            |                                                                                                                                                                     |             | 7       | SS   | 50/50mm         |                         | 95        |                                          |    |                |    |                          |                   |                        |                                      |                                         |
| 6            |                                                                                                                                                                     |             |         |      |                 |                         | 94        |                                          |    |                |    |                          |                   |                        |                                      |                                         |
| 7.6          | SHALE BEDROCK: Georgian Bay Formation, grey, weathered                                                                                                              |             | 8       | SS   | 50/75mm         |                         | 93        |                                          |    |                |    |                          |                   |                        |                                      |                                         |
| 8.1          | TCR=100%, SCR=30%, RQD=0%<br>Hard layers=16%, Maximum hard layer thickness=50mm<br>Frequent weak layers in run                                                      |             | R1      | RC   |                 |                         | 92        |                                          |    |                |    |                          |                   |                        |                                      |                                         |
| 9.6          | TCR=91%, SCR=70%, RQD=31%<br>Hard layers=13%, Maximum hard layer thickness=50mm                                                                                     |             | R2      | RC   |                 |                         |           |                                          |    |                |    |                          |                   |                        |                                      |                                         |
| 9.6          |                                                                                                                                                                     |             | R3      | RC   |                 |                         |           |                                          |    |                |    |                          |                   |                        |                                      |                                         |
| 11.1         | END OF BOREHOLE:<br>Notes:<br>1) 50mm dia. monitoring well installed upon completion.<br>2) Water Level Readings:<br><br>Date: Water Level(mbg):<br>Nov 6, 2025 3.7 |             |         |      |                 |                         |           |                                          |    |                |    |                          |                   |                        |                                      |                                         |

W. L. 98.9 m  
Nov 06, 2025

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3 , × 3 : Numbers refer to Sensitivity

○ = 3% Strain at Failure

DS SOIL LOG-2021-FINAL 25-315-100 GEO.GPJ DS.GDT 25-11-26



PROJECT: Geotechnical Investigation  
CLIENT: Balbir Sanghera  
PROJECT LOCATION: 118-132 Cross Avenue, Oakville, ON  
DATUM: Geodetic  
BH LOCATION: See Drawing 1 N 4812107.5 E 606329.7

## DRILLING DATA

Method: Hollow Stem Auger  
Diameter: 200mm  
Date: Oct-21-2025

REF. NO.: 25-315-100

ENCL NO.: 7

| SOIL PROFILE         |                                                                                                                                                                                                                                     |             | SAMPLES |      |                    | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT |  |                                 |                               | POCKET PEN (C <sub>u</sub> ) (kPa) | NATURAL UNIT WT (kN/m <sup>3</sup> ) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|------|--------------------|-------------------------|-----------|------------------------------------------|--|---------------------------------|-------------------------------|------------------------------------|--------------------------------------|-----------------------------------------|
| (m)<br>ELEV<br>DEPTH | DESCRIPTION                                                                                                                                                                                                                         | STRATA PLOT | NUMBER  | TYPE | "N" BLOWS<br>0.3 m |                         |           | SHEAR STRENGTH (kPa)                     |  |                                 |                               |                                    |                                      |                                         |
| 103.2                | <b>ASPHALT:</b> 75mm<br><b>GRANULAR BASE:</b> crusher run limestone, 150mm<br><b>FILL:</b> clayey silt, trace organics, boulders/cobbles, dark grey, moist, firm to very stiff<br>trace shale pieces<br>organic clayey silt at 1.5m |             | 1       | SS   | 14                 | 20 40 60 80 100         |           |                                          |  | PLASTIC LIMIT<br>W <sub>P</sub> | NATURAL MOISTURE CONTENT<br>W | LIQUID LIMIT<br>W <sub>L</sub>     | GR SA SI CL                          |                                         |
| 103.0                |                                                                                                                                                                                                                                     |             |         |      |                    | 20 40 60 80 100         |           |                                          |  | WATER CONTENT (%)               |                               |                                    |                                      |                                         |
| 102.9                |                                                                                                                                                                                                                                     |             |         |      |                    | 20 40 60 80 100         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 102.8                |                                                                                                                                                                                                                                     |             |         |      |                    | 20 40 60 80 100         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 102.7                |                                                                                                                                                                                                                                     |             | 2       | SS   | 7                  |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 102.6                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 102.5                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 102.4                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 102.3                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 102.2                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 102.1                |                                                                                                                                                                                                                                     |             | 3       | SS   | 17                 |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 102.0                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 101.9                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 101.8                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 101.7                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 101.6                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 101.5                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 101.4                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 101.3                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 101.2                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 101.1                |                                                                                                                                                                                                                                     |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |
| 2.1                  | END OF BOREHOLE:                                                                                                                                                                                                                    |             |         |      |                    |                         |           |                                          |  |                                 |                               |                                    |                                      |                                         |

## GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

## GRAPH NOTES

+ 3, × 3: Numbers refer to Sensitivity

○ = 3% Strain at Failure

## **Appendix B: Hydraulic Conductivity Analysis**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Location: 118-132 Cross Ave, Oakville                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|                                                                                                                                                                                                                                                                                 |                              | Project: Hydrogeological Investigation |                           |
|                                                                                                                                                                                                                                                                                 |                              | Number: 25-315-100                     |                           |
|                                                                                                                                                                                                                                                                                 |                              | Client: Batory Planning + Management   |                           |
| Location: 118-132 Cross Ave, Oakville                                                                                                                                                                                                                                           |                              | Slug Test: BH25-3                      | Test Well: BH25-3         |
| Test Conducted by: CL                                                                                                                                                                                                                                                           |                              | Test Date: 10/28/2025                  |                           |
| Analysis Performed by: MJ                                                                                                                                                                                                                                                       |                              | Hvorslev                               | Analysis Date: 11/24/2025 |
| Aquifer Thickness:                                                                                                                                                                                                                                                              |                              |                                        |                           |
| <div><div></div><div><div>Time [s]</div><div><div>0</div><div>320</div><div>640</div><div>960</div><div>1280</div><div>1600</div></div><div><div>10.00</div><div>1.00</div><div>0.10</div><div>0.01</div><div>0.00</div></div><div><div>h/h0</div><div></div></div></div></div> |                              |                                        |                           |
| Calculation using Hvorslev                                                                                                                                                                                                                                                      |                              |                                        |                           |
| Observation Well                                                                                                                                                                                                                                                                | Hydraulic Conductivity [m/s] |                                        |                           |
| BH25-3                                                                                                                                                                                                                                                                          | $1.77 \times 10^{-6}$        |                                        |                           |
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| Location: 118-132 Cross Ave, Oakville                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Test Conducted by: CL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Analysis Performed by: MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Aquifer Thickness:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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[s]</div><div><div>0</div><div>1600</div><div>3200</div><div>4800</div><div>6400</div><div>8000</div></div><div><div>1.00</div><div>0.10</div><div>0.01</div><div>0.00</div></div><div><div>h/h0</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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|  |                   |                                        |                           |

## **Appendix C: Groundwater Quality Certificate of Analysis**



#### How did we do today?

Your feedback helps us improve our service  
and takes less than a minute to complete.

**START SURVEY**

## FINAL REPORT

**CA40282-OCT25 R1**

**25-315-100, 118 Cross Ave, Oakville**

Prepared for

**DS Consultants**

## First Page

## CLIENT DETAILS

Client DS Consultants  
Address 6221 Highway 7 Unit 16  
Vaughan, Ontario  
L4H 0K8, Canada  
Contact Pradeep Patel  
Telephone 647-332-3482  
Facsimile 905-264-2685  
Email ppatel@dsconsultants.ca  
Works #  
Project 25-315-100, 118 Cross Ave, Oakville  
Reference  
Batch  
Samples WATER (1)

## LABORATORY DETAILS

Project Specialist Jill Campbell, B.Sc.,GISAS  
Laboratory SGS Canada Inc.  
Address 185 Concession St., Lakefield ON, K0L 2H0  
Telephone 2165  
Facsimile 705-652-6365  
Email jill.campbell@sgs.com  
SGS Reference CA40282-OCT25  
Received 2025-10-28  
Approved 11/06/2025  
Report Number CA40282-OCT25 R1  
Date Reported 11/06/2025

## COMMENTS

RL - SGS Reporting Limit

Temperature of Sample upon Receipt: 9 degrees C

Cooling Agent Present: Yes

Custody Seal Present: Yes

Chain of Custody Number:045763

Bis(2-ethylhexyl)phthalate LCS recovery is outside of tolerance; overall the quality control for this analysis has been assessed and meets method acceptability criteria.

Dibenzo(a,i)pyrene RL increased due to a drop in instrument sensitivity. PAH total  
RL remains unchanged.

O&G ms RL's increased due to sample matrix.

## SIGNATORIES

Jill Campbell, B.Sc.,GISAS







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FINAL REPORT

CA40282-OCT25 R1

Client: DS Consultants  
Project: 25-315-100, 118 Cross Ave, Oakville  
Project Manager: Pradeep Patel  
Samplers: Ken

MATRIX: WATER

Sample Number 9  
Sample Name BH1  
Sample Matrix Ground Water

L1 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Sanitary and Combined Sewer Discharge - BL\_2\_03

L2 = SANSEW / WATER / - - Oakville Sewer Use By Law - Storm Sewer Discharge - BL\_2009\_031

Sample Date 2025-10-28 00:00

| Parameter                              | Units     | RL  | L1  | L2 | Result |
|----------------------------------------|-----------|-----|-----|----|--------|
| General Chemistry                      |           |     |     |    |        |
| Carbonaceous Biochemical Oxygen Demand | mg/L      | 2   |     |    | < 4 ↑  |
| Biochemical Oxygen Demand (BOD5)       | mg/L      | 2   | 300 | 15 | < 4 ↑  |
| Total Suspended Solids                 | mg/L      | 2   | 350 | 15 | 404    |
| Total Kjeldahl Nitrogen                | as N mg/L | 0.5 | 100 |    | 2.2    |

Metals and Inorganics

|                    |      |          |      |       |          |
|--------------------|------|----------|------|-------|----------|
| Cyanide (total)    | mg/L | 0.01     | 2    | 0.02  | < 0.01   |
| Fluoride           | mg/L | 0.06     | 10   |       | 0.63     |
| Sulphate           | mg/L | 1        | 1500 |       | 210      |
| Aluminum (total)   | mg/L | 0.001    | 50   |       | 8.32     |
| Antimony (total)   | mg/L | 0.0009   | 5    |       | < 0.0009 |
| Arsenic (total)    | mg/L | 0.0002   | 1    | 0.02  | 0.0101   |
| Beryllium (total)  | mg/L | 0.000007 | 5    |       | 0.000341 |
| Cadmium (total)    | mg/L | 0.000003 | 1    | 0.008 | 0.000070 |
| Chromium (total)   | mg/L | 0.00008  | 3    | 0.08  | 0.0201   |
| Cobalt (total)     | mg/L | 0.000004 | 5    |       | 0.006707 |
| Copper (total)     | mg/L | 0.001    | 3    | 0.04  | 0.045    |
| Iron (total)       | mg/L | 0.007    | 50   |       | 12.3     |
| Lead (total)       | mg/L | 0.00009  | 3    | 0.12  | 0.00271  |
| Manganese (total)  | mg/L | 0.00001  | 5    | 0.05  | 0.413    |
| Molybdenum (total) | mg/L | 0.0004   | 5    |       | 0.0063   |



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Sample Number 9  
Sample Name BH1  
Sample Matrix Ground Water  
Sample Date 2025-10-28 00:00

L1 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Sanitary and Combined Sewer Discharge - BL\_2\_03  
L2 = SANSEW / WATER / - - Oakville Sewer Use By Law - Storm Sewer Discharge - BL\_2009\_031

| Parameter                         | Units | RL      | L1 | L2   | Result    |
|-----------------------------------|-------|---------|----|------|-----------|
| Metals and Inorganics (continued) |       |         |    |      |           |
| Nickel (total)                    | mg/L  | 0.0001  | 3  | 0.08 | 0.0129    |
| Phosphorus (total)                | mg/L  | 0.003   | 10 | 0.4  | 0.205     |
| Selenium (total)                  | mg/L  | 0.00004 | 5  | 0.02 | 0.00013   |
| Silver (total)                    | mg/L  | 0.00005 | 5  | 0.12 | < 0.00005 |
| Tin (total)                       | mg/L  | 0.00006 | 5  |      | 0.00355   |
| Titanium (total)                  | mg/L  | 0.0001  | 5  |      | 0.183     |
| Zinc (total)                      | mg/L  | 0.002   | 3  | 0.04 | 0.044     |

Microbiology

|       |           |   |  |     |   |
|-------|-----------|---|--|-----|---|
| Ecoli | mpn/100mL | 0 |  | 200 | 1 |
|-------|-----------|---|--|-----|---|

Nonylphenol and Ethoxylates

|                            |      |       |  |       |         |
|----------------------------|------|-------|--|-------|---------|
| Nonylphenol                | mg/L | 0.001 |  | 0.001 | < 0.001 |
| Nonylphenol Ethoxylates    | mg/L | 0.01  |  | 0.01  | < 0.01  |
| Nonylphenol diethoxylate   | mg/L | 0.01  |  |       | < 0.01  |
| Nonylphenol monoethoxylate | mg/L | 0.01  |  |       | < 0.01  |



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**Samplers:** Ken

MATRIX: WATER

**Sample Number** 9  
**Sample Name** BH1  
**Sample Matrix** Ground Water  
**Sample Date** 2025-10-28 00:00

L1 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Sanitary and Combined Sewer Discharge - BL\_2\_03  
L2 = SANSEW / WATER / - - Oakville Sewer Use By Law - Storm Sewer Discharge - BL\_2009\_031

| Parameter                                | Units   | RL      | L1   | L2      | Result    |
|------------------------------------------|---------|---------|------|---------|-----------|
| Oil and Grease                           |         |         |      |         |           |
| Oil & Grease (total)                     | mg/L    | 2       |      |         | 4         |
| Oil & Grease (animal/vegetable)          | mg/L    | 4       | 150  |         | 4         |
| Oil & Grease (mineral/synthetic)         | mg/L    | 4       | 15   |         | < 4       |
| Organochlorine Pests (OCs)               |         |         |      |         |           |
| Hexachlorobenzene                        | mg/L    | 0.00001 |      | 0.00004 | < 0.00001 |
| Other (ORP)                              |         |         |      |         |           |
| pH                                       | No unit | 0.05    | 10   | 8.5     | 7.21      |
| Chromium VI                              | mg/L    | 0.0002  |      | 0.04    | < 0.0002  |
| Mercury (total)                          | mg/L    | 0.00001 | 0.05 | 0.0004  | < 0.00001 |
| PAHs                                     |         |         |      |         |           |
| Benzo(b+j)fluoranthene                   | mg/L    | 0.0001  |      |         | < 0.0001  |
| PCBs                                     |         |         |      |         |           |
| Polychlorinated Biphenyls (PCBs) - Total | mg/L    | 0.0001  |      | 0.0004  | < 0.0001  |



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MATRIX: WATER

**Sample Number** 9  
**Sample Name** BH1  
**Sample Matrix** Ground Water  
**Sample Date** 2025-10-28 00:00

L1 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Sanitary and Combined Sewer Discharge - BL\_2\_03  
L2 = SANSEW / WATER / - - Oakville Sewer Use By Law - Storm Sewer Discharge - BL\_2009\_031

| Parameter             | Units | RL      | L1 | L2      | Result    |
|-----------------------|-------|---------|----|---------|-----------|
| Pesticides            |       |         |    |         |           |
| Aldrin + Dieldrin     | mg/L  | 0.00002 |    | 0.00008 | < 0.00002 |
| Chlordane (total)     | mg/L  | 0.00002 |    | 0.04    | < 0.001↑  |
| DDT+Metabolites       | mg/L  | 0.00004 |    |         | < 0.00004 |
| op-DDT                | mg/L  | 0.00002 |    |         | < 0.00002 |
| pp-DDD                | mg/L  | 0.00002 |    |         | < 0.00002 |
| pp-DDE                | mg/L  | 0.00001 |    |         | < 0.00001 |
| pp-DDT                | mg/L  | 0.00002 |    |         | < 0.00002 |
| o,p-DDD               | mg/L  | 0.00002 |    |         | < 0.00002 |
| o,p-DDE               | mg/L  | 0.00001 |    |         | < 0.00001 |
| Mirex                 | mg/L  | 0.001   |    | 0.04    | < 0.001   |
| Hexachlorocyclohexane | mg/L  | 0.001   |    | 0.04    | < 0.001   |

|                |      |       |   |       |       |
|----------------|------|-------|---|-------|-------|
| Phenols        |      |       |   |       |       |
| 4AAP-Phenolics | mg/L | 0.001 | 1 | 0.008 | 0.004 |



# FINAL REPORT

CA40282-OCT25 R1

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**Project:** 25-315-100, 118 Cross Ave, Oakville

**Project Manager:** Pradeep Patel

**Samplers:** Ken

MATRIX: WATER

**Sample Number** 9

**Sample Name** BH1

**Sample Matrix** Ground Water

L1 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Sanitary and Combined Sewer Discharge - BL\_2\_03

L2 = SANSEW / WATER / - - Oakville Sewer Use By Law - Storm Sewer Discharge - BL\_2009\_031

**Sample Date** 2025-10-28 00:00

| Parameter                  | Units | RL     | L1 | L2     | Result   |
|----------------------------|-------|--------|----|--------|----------|
| <b>SVOCs</b>               |       |        |    |        |          |
| PAHs (Total)               | mg/L  |        |    | 0.002  | < 0.001  |
| Perylene                   | mg/L  | 0.0005 |    |        | < 0.0005 |
| di-n-Butyl Phthalate       | mg/L  | 0.002  |    | 0.015  | < 0.002  |
| Bis(2-ethylhexyl)phthalate | mg/L  | 0.002  |    | 0.0088 | < 0.002  |
| 3,3'-Dichlorobenzidine     | mg/L  | 0.0005 |    | 0.0008 | < 0.0005 |
| Pentachlorophenol          | mg/L  | 0.0005 |    | 0.002  | < 0.0005 |

## SVOCs - PAHs

|                         |      |        |      |  |            |
|-------------------------|------|--------|------|--|------------|
| Naphthalene             | mg/L | 0.0005 | 0.14 |  | < 0.0005   |
| 7Hdibenzo(c,g)carbazole | mg/L | 0.0001 |      |  | < 0.0001   |
| Anthracene              | mg/L | 0.0001 |      |  | < 0.0001   |
| Benzo(a)anthracene      | mg/L | 0.0001 |      |  | < 0.0001   |
| Benzo(a)pyrene          | mg/L | 0.0001 |      |  | < 0.0001   |
| Benzo(e)pyrene          | mg/L | 0.0001 |      |  | < 0.0001   |
| Benzo(ghi)perylene      | mg/L | 0.0002 |      |  | < 0.0002   |
| Benzo(k)fluoranthene    | mg/L | 0.0001 |      |  | < 0.0001   |
| Chrysene                | mg/L | 0.0001 |      |  | < 0.0001   |
| Dibenzo(a,h)anthracene  | mg/L | 0.0001 |      |  | < 0.0001   |
| Dibenzo(a,i)pyrene      | mg/L | 0.0001 |      |  | < 0.0002 † |
| Dibenzo(a,j)acridine    | mg/L | 0.0001 |      |  | < 0.0001   |
| Fluoranthene            | mg/L | 0.0001 |      |  | < 0.0001   |
| Indeno(1,2,3-cd)pyrene  | mg/L | 0.0002 |      |  | < 0.0002   |



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Sample Number 9  
Sample Name BH1  
Sample Matrix Ground Water  
Sample Date 2025-10-28 00:00

L1 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Sanitary and Combined Sewer Discharge - BL\_2\_03  
L2 = SANSEW / WATER / - - Oakville Sewer Use By Law - Storm Sewer Discharge - BL\_2009\_031

| Parameter                | Units | RL     | L1 | L2 | Result   |
|--------------------------|-------|--------|----|----|----------|
| SVOCs - PAHs (continued) |       |        |    |    |          |
| Phenanthrene             | mg/L  | 0.0001 |    |    | < 0.0001 |
| Pyrene                   | mg/L  | 0.0001 |    |    | < 0.0001 |

|                                         |      |        |      |        |          |
|-----------------------------------------|------|--------|------|--------|----------|
| VOCs                                    |      |        |      |        |          |
| Chloroform                              | mg/L | 0.0005 | 0.04 | 0.002  | < 0.0005 |
| 1,2-Dichlorobenzene                     | mg/L | 0.0005 |      | 0.0056 | < 0.0005 |
| 1,4-Dichlorobenzene                     | mg/L | 0.0005 | 0.08 | 0.0068 | < 0.0005 |
| cis-1,2-Dichloroethylene                | mg/L | 0.0005 |      | 0.0056 | < 0.0005 |
| trans-1,3-Dichloropropene               | mg/L | 0.0005 |      | 0.0056 | < 0.0005 |
| Methylene Chloride                      | mg/L | 0.0005 | 2    | 0.0052 | < 0.0005 |
| Tetrachloroethylene (perchloroethylene) | mg/L | 0.0005 | 1    | 0.0044 | < 0.0005 |
| Trichloroethylene                       | mg/L | 0.0005 | 0.4  | 0.0076 | < 0.0005 |
| 1,1,2,2-Tetrachloroethane               | mg/L | 0.0005 |      | 0.017  | < 0.0005 |

|                |      |        |       |       |          |
|----------------|------|--------|-------|-------|----------|
| VOCs - BTEX    |      |        |       |       |          |
| Benzene        | mg/L | 0.0005 | 0.01  | 0.002 | < 0.0005 |
| Ethylbenzene   | mg/L | 0.0005 | 0.16  | 0.002 | < 0.0005 |
| Toluene        | mg/L | 0.0005 | 0.016 | 0.002 | < 0.0005 |
| m-p-xylene     | mg/L | 0.0005 |       |       | < 0.0005 |
| o-xylene       | mg/L | 0.0005 |       |       | < 0.0005 |
| Xylene (total) | mg/L | 0.0005 |       |       | < 0.0005 |



EXCEEDANCE SUMMARY

|           |        |       |        | SANSEW / WATER<br>/ - - Halton Sewer<br>Use ByLaw -<br>Sanitary and<br>Combined Sewer<br>Discharge -<br>BL_2_03<br>L1 | SANSEW / WATER<br>/ - - Oakville Sewer<br>Use By Law -<br>Storm Sewer<br>Discharge -<br>BL_2009_031<br>L2 |
|-----------|--------|-------|--------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Parameter | Method | Units | Result |                                                                                                                       |                                                                                                           |

BH1

|                        |                   |      |       |     |      |
|------------------------|-------------------|------|-------|-----|------|
| Total Suspended Solids | SM 2540D          | mg/L | 404   | 350 | 15   |
| Copper                 | SM 3030/EPA 200.8 | mg/L | 0.045 |     | 0.04 |
| Manganese              | SM 3030/EPA 200.8 | mg/L | 0.413 |     | 0.05 |
| Zinc                   | SM 3030/EPA 200.8 | mg/L | 0.044 |     | 0.04 |



FINAL REPORT

CA40282-OCT25 R1

QC SUMMARY

Anions by discrete analyzer  
Method: US EPA 375.4 | Internal ref.: ME-CA-IENVIEWL-LAK-AN-026

| Parameter | QC batch<br>Reference | Units | RL | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-----------|-----------------------|-------|----|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|           |                       |       |    |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|           |                       |       |    |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Sulphate  | DIO5032-OCT25         | mg/L  | 1  | <2              | 1         | 20        | 106                      | 80                     | 120  | 96                       | 75                     | 125  |

Biochemical Oxygen Demand  
Method: SM 5210 | Internal ref.: ME-CA-IENVIEWL-LAK-AN-007

| Parameter                              | QC batch<br>Reference | Units           | RL | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|----------------------------------------|-----------------------|-----------------|----|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                                        |                       |                 |    |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                                        |                       |                 |    |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Carbonaceous Biochemical Oxygen Demand | BOD0057-OCT25         | (CBOD5)<br>mg/L | 2  | < 2             | 6         | 30        | 100                      | 70                     | 130  | NV                       | 70                     | 130  |
| Biochemical Oxygen Demand (BOD5)       | BOD0058-OCT25         | mg/L            | 2  | < 2             | 2         | 30        | 85                       | 70                     | 130  | NV                       | 70                     | 130  |



FINAL REPORT

CA40282-OCT25 R1

QC SUMMARY

Cyanide by SFA  
Method: SM 4500 | Internal ref.: ME-CA-IENVISFA-LAK-AN-005

| Parameter       | QC batch<br>Reference | Units | RL   | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-----------------|-----------------------|-------|------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                 |                       |       |      |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                 |                       |       |      |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Cyanide (total) | SKA0277-OCT25         | mg/L  | 0.01 | <0.01           | ND        | 10        | 99                       | 90                     | 110  | 91                       | 75                     | 125  |

Fluoride by Specific Ion Electrode  
Method: SM 4500 | Internal ref.: ME-CA-IENVIEWL-LAK-AN-014

| Parameter | QC batch<br>Reference | Units | RL   | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-----------|-----------------------|-------|------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|           |                       |       |      |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|           |                       |       |      |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Fluoride  | EWL0740-OCT25         | mg/L  | 0.06 | <0.06           | ND        | 10        | 100                      | 90                     | 110  | 96                       | 75                     | 125  |

Hexavalent Chromium by SFA  
Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-IENVISKA-LAK-AN-012

| Parameter   | QC batch<br>Reference | Units | RL     | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-------------|-----------------------|-------|--------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|             |                       |       |        |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|             |                       |       |        |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Chromium VI | SKA0262-OCT25         | mg/L  | 0.0002 | <0.0002         | ND        | 20        | 101                      | 80                     | 120  | 101                      | 75                     | 125  |



FINAL REPORT

CA40282-OCT25 R1

QC SUMMARY

Mercury by CVAAS  
Method: EPA 7471A/SM 3112B | Internal ref.: ME-CA-IENVISPE-LAK-AN-004

| Parameter       | QC batch<br>Reference | Units | RL      | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-----------------|-----------------------|-------|---------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                 |                       |       |         |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                 |                       |       |         |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Mercury (total) | EHG0070-OCT25         | mg/L  | 0.00001 | < 0.00001       | ND        | 20        | 120                      | 80                     | 120  | 119                      | 70                     | 130  |



FINAL REPORT

CA40282-OCT25 R1

QC SUMMARY

Metals in aqueous samples - ICP-MS  
Method: SM 3030/EPA 200.8 | Internal ref.: ME-CA-ENVISPE-LAK-AN-006

| Parameter          | QC batch<br>Reference | Units | RL       | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|--------------------|-----------------------|-------|----------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                    |                       |       |          |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                    |                       |       |          |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Silver (total)     | EMS0337-OCT25         | mg/L  | 0.00005  | <0.00005        | ND        | 20        | 100                      | 90                     | 110  | NV                       | 70                     | 130  |
| Aluminum (total)   | EMS0337-OCT25         | mg/L  | 0.001    | 0.005085        | 6         | 20        | 101                      | 90                     | 110  | 106                      | 70                     | 130  |
| Arsenic (total)    | EMS0337-OCT25         | mg/L  | 0.0002   | 0.002947        | 1         | 20        | 100                      | 90                     | 110  | 91                       | 70                     | 130  |
| Beryllium (total)  | EMS0337-OCT25         | mg/L  | 0.000007 | 0.000834        | ND        | 20        | 99                       | 90                     | 110  | 96                       | 70                     | 130  |
| Cadmium (total)    | EMS0337-OCT25         | mg/L  | 0.000003 | 0.000381        | 20        | 20        | 98                       | 90                     | 110  | 93                       | 70                     | 130  |
| Cobalt (total)     | EMS0337-OCT25         | mg/L  | 0.000004 | 0.001008        | 3         | 20        | 102                      | 90                     | 110  | 100                      | 70                     | 130  |
| Chromium (total)   | EMS0337-OCT25         | mg/L  | 0.00008  | 0.000871        | ND        | 20        | 102                      | 90                     | 110  | 88                       | 70                     | 130  |
| Copper (total)     | EMS0337-OCT25         | mg/L  | 0.001    | <0.001          | ND        | 20        | 101                      | 90                     | 110  | 102                      | 70                     | 130  |
| Iron (total)       | EMS0337-OCT25         | mg/L  | 0.007    | <0.007          | 1         | 20        | 103                      | 90                     | 110  | 100                      | 70                     | 130  |
| Manganese (total)  | EMS0337-OCT25         | mg/L  | 0.00001  | 0.00158         | 2         | 20        | 100                      | 90                     | 110  | 86                       | 70                     | 130  |
| Molybdenum (total) | EMS0337-OCT25         | mg/L  | 0.0004   | 0.003968        | 1         | 20        | 98                       | 90                     | 110  | 88                       | 70                     | 130  |
| Nickel (total)     | EMS0337-OCT25         | mg/L  | 0.0001   | 0.002426        | 4         | 20        | 99                       | 90                     | 110  | 93                       | 70                     | 130  |
| Lead (total)       | EMS0337-OCT25         | mg/L  | 0.00009  | 0.001549        | ND        | 20        | 98                       | 90                     | 110  | 85                       | 70                     | 130  |
| Phosphorus (total) | EMS0337-OCT25         | mg/L  | 0.003    | <0.003          | 5         | 20        | 96                       | 90                     | 110  | NV                       | 70                     | 130  |
| Antimony (total)   | EMS0337-OCT25         | mg/L  | 0.0009   | <0.0005         | ND        | 20        | 104                      | 90                     | 110  | 98                       | 70                     | 130  |
| Selenium (total)   | EMS0337-OCT25         | mg/L  | 0.00004  | 0.000436        | 11        | 20        | 97                       | 90                     | 110  | 96                       | 70                     | 130  |
| Tin (total)        | EMS0337-OCT25         | mg/L  | 0.00006  | <0.00006        | ND        | 20        | 98                       | 90                     | 110  | NV                       | 70                     | 130  |
| Titanium (total)   | EMS0337-OCT25         | mg/L  | 0.0001   | <0.0001         | 9         | 20        | 103                      | 90                     | 110  | NV                       | 70                     | 130  |
| Zinc (total)       | EMS0337-OCT25         | mg/L  | 0.002    | 0.002882        | 1         | 20        | 98                       | 90                     | 110  | 94                       | 70                     | 130  |



FINAL REPORT

CA40282-OCT25 R1

QC SUMMARY

Microbiology  
Method: SM 9223B | Internal ref.: ME-CA-IENVIMIC-LAK-AN-021

| Parameter | QC batch<br>Reference | Units     | RL | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-----------|-----------------------|-----------|----|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|           |                       |           |    |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|           |                       |           |    |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Ecoli     | BAC9450-OCT25         | mpn/100mL | -  | ACCEPTED        | ACCEPTED  |           |                          |                        |      |                          |                        |      |
|           |                       |           |    |                 | D         |           |                          |                        |      |                          |                        |      |

Nonylphenol and Ethoxylates  
Method: ASTM D7065-06 | Internal ref.: ME-CA-IENVIGC-LAK-AN-015

| Parameter                  | QC batch<br>Reference | Units | RL    | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|----------------------------|-----------------------|-------|-------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                            |                       |       |       |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                            |                       |       |       |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Nonylphenol diethoxylate   | GCM0010-NOV25         | mg/L  | 0.01  | <0.01           |           |           | 93                       | 55                     | 120  |                          |                        |      |
| Nonylphenol monoethoxylate | GCM0010-NOV25         | mg/L  | 0.01  | <0.01           |           |           | 87                       | 55                     | 120  |                          |                        |      |
| Nonylphenol                | GCM0010-NOV25         | mg/L  | 0.001 | <0.001          |           |           | 78                       | 55                     | 120  |                          |                        |      |



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QC SUMMARY

Oil & Grease

Method: MOE E3401 | Internal ref.: ME-CA-IENVIGC-LAK-AN-019

| Parameter            | QC batch<br>Reference | Units | RL | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|----------------------|-----------------------|-------|----|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                      |                       |       |    |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                      |                       |       |    |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Oil & Grease (total) | GCM0474-OCT25         | mg/L  | 2  | <2              | NSS       | 20        | 101                      | 75                     | 125  |                          |                        |      |

Oil & Grease-AV/MS

Method: MOE E3401/SM 5520F | Internal ref.: ME-CA-IENVIGC-LAK-AN-019

| Parameter                        | QC batch<br>Reference | Units | RL | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|----------------------------------|-----------------------|-------|----|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                                  |                       |       |    |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                                  |                       |       |    |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Oil & Grease (animal/vegetable)  | GCM0015-NOV25         | mg/L  | 4  | < 4             | NSS       | 20        | 118                      | 70                     | 130  |                          |                        |      |
| Oil & Grease (mineral/synthetic) | GCM0015-NOV25         | mg/L  | 4  | < 4             | NSS       | 20        | 84                       | 70                     | 130  |                          |                        |      |



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CA40282-OCT25 R1

QC SUMMARY

Pesticides

Method: EPA 3510C/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-018

| Parameter             | QC batch<br>Reference | Units | RL      | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-----------------------|-----------------------|-------|---------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                       |                       |       |         |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                       |                       |       |         |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Hexachlorobenzene     | GCM0480-OCT25         | mg/L  | 0.00001 | < 0.00001       | ND        | 30        | 85                       | 50                     | 140  | 85                       | 50                     | 140  |
| Hexachlorocyclohexane | GCM0480-OCT25         | mg/L  | 0.001   | < 0.001         | ND        | 30        | 94                       | 50                     | 140  | 91                       | 50                     | 140  |
| Mirex                 | GCM0480-OCT25         | mg/L  | 0.001   | < 0.001         | ND        | 30        | 95                       | 50                     | 140  | 75                       | 50                     | 140  |
| o,p-DDD               | GCM0480-OCT25         | mg/L  | 0.00002 | < 0.00002       | ND        | 30        | 100                      | 50                     | 140  | 89                       | 50                     | 140  |
| o,p-DDE               | GCM0480-OCT25         | mg/L  | 0.00001 | < 0.00001       | ND        | 30        | 104                      | 50                     | 140  | 95                       | 50                     | 140  |
| op-DDT                | GCM0480-OCT25         | mg/L  | 0.00002 | < 0.00002       | ND        | 30        | 102                      | 50                     | 140  | 90                       | 50                     | 140  |
| pp-DDD                | GCM0480-OCT25         | mg/L  | 0.00002 | < 0.00002       | ND        | 30        | 109                      | 50                     | 140  | 102                      | 50                     | 140  |
| pp-DDE                | GCM0480-OCT25         | mg/L  | 0.00001 | < 0.00001       | ND        | 30        | 100                      | 50                     | 140  | 87                       | 50                     | 140  |
| pp-DDT                | GCM0480-OCT25         | mg/L  | 0.00002 | < 0.00002       | ND        | 30        | 110                      | 50                     | 140  | 99                       | 50                     | 140  |

pH

Method: SM 4500 | Internal ref.: ME-CA-IENVIEWL-LAK-AN-006

| Parameter | QC batch<br>Reference | Units   | RL   | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-----------|-----------------------|---------|------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|           |                       |         |      |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|           |                       |         |      |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| pH        | EWL0729-OCT25         | No unit | 0.05 | NA              | 0         |           | 100                      |                        |      | NA                       |                        |      |



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QC SUMMARY

Phenols by SFA  
Method: SM 5530B-D | Internal ref.: ME-CA-IENVISFA-LAK-AN-006

| Parameter      | QC batch<br>Reference | Units | RL    | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|----------------|-----------------------|-------|-------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                |                       |       |       |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                |                       |       |       |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| 4AAP-Phenolics | SKA0006-NOV25         | mg/L  | 0.001 | <0.001          | ND        | 10        | 94                       | 80                     | 120  | 106                      | 75                     | 125  |

Polychlorinated Biphenyls  
Method: MOE E3400/EPA 8082A | Internal ref.: ME-CA-IENVIGC-LAK-AN-001

| Parameter                                   | QC batch<br>Reference | Units | RL     | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|---------------------------------------------|-----------------------|-------|--------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                                             |                       |       |        |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                                             |                       |       |        |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Polychlorinated Biphenyls (PCBs) -<br>Total | GCM0461-OCT25         | mg/L  | 0.0001 | <0.0001         | NSS       | 30        | 84                       | 60                     | 140  | NSS                      | 60                     | 140  |



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QC SUMMARY

Semi-Volatile Organics

Method: EPA 3510C/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-005

| Parameter                  | QC batch<br>Reference | Units | RL     | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|----------------------------|-----------------------|-------|--------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                            |                       |       |        |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                            |                       |       |        |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| 7Hdibenzo(c,g)carbazole    | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 92                       | 50                     | 140  | NSS                      | 50                     | 140  |
| Anthracene                 | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 113                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Benzo(a)anthracene         | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 110                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Benzo(a)pyrene             | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 105                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Benzo(b+j)fluoranthene     | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 102                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Benzo(e)pyrene             | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 101                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Benzo(ghi)perylene         | GCM0019-NOV25         | mg/L  | 0.0002 | < 0.0002        | NSS       | 30        | 120                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Benzo(k)fluoranthene       | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 122                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Bis(2-ethylhexyl)phthalate | GCM0019-NOV25         | mg/L  | 0.002  | < 0.002         | NSS       | 30        | 167                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Chrysene                   | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 112                      | 50                     | 140  | NSS                      | 50                     | 140  |
| di-n-Butyl Phthalate       | GCM0019-NOV25         | mg/L  | 0.002  | < 0.002         | NSS       | 30        | 128                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Dibenzo(a,h)anthracene     | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 116                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Dibenzo(a,i)pyrene         | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 93                       | 50                     | 140  | NSS                      | 50                     | 140  |
| Dibenzo(a,j)acridine       | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 92                       | 50                     | 140  | NSS                      | 50                     | 140  |
| Fluoranthene               | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 119                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Indeno(1,2,3-cd)pyrene     | GCM0019-NOV25         | mg/L  | 0.0002 | < 0.0002        | NSS       | 30        | 122                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Naphthalene                | GCM0019-NOV25         | mg/L  | 0.0005 | < 0.0005        | NSS       | 30        | 92                       | 50                     | 140  | NSS                      | 50                     | 140  |
| Pentachlorophenol          | GCM0019-NOV25         | mg/L  | 0.0005 | < 0.0005        | NSS       | 30        | 121                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Perylene                   | GCM0019-NOV25         | mg/L  | 0.0005 | < 0.0005        | NSS       | 30        | 100                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Phenanthrene               | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 115                      | 50                     | 140  | NSS                      | 50                     | 140  |



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QC SUMMARY

Semi-Volatile Organics (continued)

Method: EPA 3510C/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-005

| Parameter              | QC batch Reference | Units | RL     | Method Blank | Duplicate |        | LCS/Spike Blank    |                     |      | Matrix Spike / Ref. |                     |      |
|------------------------|--------------------|-------|--------|--------------|-----------|--------|--------------------|---------------------|------|---------------------|---------------------|------|
|                        |                    |       |        |              | RPD       | AC (%) | Spike Recovery (%) | Recovery Limits (%) |      | Spike Recovery (%)  | Recovery Limits (%) |      |
|                        |                    |       |        |              |           |        |                    | Low                 | High |                     | Low                 | High |
| Pyrene                 | GCM0019-NOV25      | mg/L  | 0.0001 | < 0.0001     | NSS       | 30     | 133                | 50                  | 140  | NSS                 | 50                  | 140  |
| 3,3'-Dichlorobenzidine | GCM0471-OCT25      | mg/L  | 0.0005 | < 0.0005     | NSS       | 30     | 82                 | 30                  | 130  | NSS                 | 30                  | 130  |

Suspended Solids

Method: SM 2540D | Internal ref.: ME-CA-IENVIEWL-LAK-AN-004

| Parameter              | QC batch Reference | Units | RL | Method Blank | Duplicate |        | LCS/Spike Blank    |                     |      | Matrix Spike / Ref. |                     |      |
|------------------------|--------------------|-------|----|--------------|-----------|--------|--------------------|---------------------|------|---------------------|---------------------|------|
|                        |                    |       |    |              | RPD       | AC (%) | Spike Recovery (%) | Recovery Limits (%) |      | Spike Recovery (%)  | Recovery Limits (%) |      |
|                        |                    |       |    |              |           |        |                    | Low                 | High |                     | Low                 | High |
| Total Suspended Solids | EWL0726-OCT25      | mg/L  | 2  | < 2          | 0         | 10     | 98                 | 90                  | 110  | NA                  |                     |      |

Total Nitrogen

Method: SM 4500-N C/4500-NO3- F | Internal ref.: ME-CA-IENVISFA-LAK-AN-002

| Parameter               | QC batch Reference | Units     | RL  | Method Blank | Duplicate |        | LCS/Spike Blank    |                     |      | Matrix Spike / Ref. |                     |      |
|-------------------------|--------------------|-----------|-----|--------------|-----------|--------|--------------------|---------------------|------|---------------------|---------------------|------|
|                         |                    |           |     |              | RPD       | AC (%) | Spike Recovery (%) | Recovery Limits (%) |      | Spike Recovery (%)  | Recovery Limits (%) |      |
|                         |                    |           |     |              |           |        |                    | Low                 | High |                     | Low                 | High |
| Total Kjeldahl Nitrogen | SKA0009-NOV25      | as N mg/L | 0.5 | <0.5         | ND        | 10     | 90                 | 90                  | 110  | 100                 | 75                  | 125  |



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QC SUMMARY

Volatile Organics  
Method: EPA 5030B/8260C | Internal ref.: ME-CA-ENVIGC-LAK-AN-004

| Parameter                                  | QC batch<br>Reference | Units | RL     | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|--------------------------------------------|-----------------------|-------|--------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                                            |                       |       |        |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                                            |                       |       |        |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| 1,1,2,2-Tetrachloroethane                  | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 98                       | 60                     | 130  | 100                      | 50                     | 140  |
| 1,2-Dichlorobenzene                        | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 99                       | 60                     | 130  | 98                       | 50                     | 140  |
| 1,4-Dichlorobenzene                        | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 98                       | 60                     | 130  | 95                       | 50                     | 140  |
| Benzene                                    | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 100                      | 60                     | 130  | 96                       | 50                     | 140  |
| Chloroform                                 | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 98                       | 60                     | 130  | 94                       | 50                     | 140  |
| cis-1,2-Dichloroethylene                   | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 97                       | 60                     | 130  | 96                       | 50                     | 140  |
| Ethylbenzene                               | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 101                      | 60                     | 130  | 97                       | 50                     | 140  |
| m-p-xylene                                 | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 102                      | 60                     | 130  | 98                       | 50                     | 140  |
| Methylene Chloride                         | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 86                       | 60                     | 130  | 82                       | 50                     | 140  |
| o-xylene                                   | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 100                      | 60                     | 130  | 97                       | 50                     | 140  |
| Tetrachloroethylene<br>(perchloroethylene) | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 102                      | 60                     | 130  | 98                       | 50                     | 140  |
| Toluene                                    | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 100                      | 60                     | 130  | 95                       | 50                     | 140  |
| trans-1,3-Dichloropropene                  | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 99                       | 60                     | 130  | 102                      | 50                     | 140  |
| Trichloroethylene                          | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 100                      | 60                     | 130  | 95                       | 50                     | 140  |



# FINAL REPORT

CA40282-OCT25 R1

## QC SUMMARY

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**Method Blank:** a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

**Duplicate:** Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

**LCS/Spike Blank:** Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

**Matrix Spike:** A sample to which a known amount of the analyte of interest has been added. Used to evaluate laboratory accuracy with sample matrix effects.

**Reference Material:** a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

**RL:** Reporting limit

**RPD:** Relative percent difference

**AC:** Acceptance criteria

**Multielement Scan Qualifier:** as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

**Duplicate Qualifier:** for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

**Matrix Spike Qualifier:** for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

## LEGEND

### FOOTNOTES

**NSS** Insufficient sample for analysis.

**RL** Reporting Limit.

↑ Reporting limit raised.

↓ Reporting limit lowered.

**NA** The sample was not analysed for this analyte

**ND** Non Detect

Results relate only to the sample tested.

Data reported represent the sample as submitted to SGS.

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Please refer to SGS General Conditions of Services located at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) (Printed copies are available upon request.)

Test method information available upon request.

"Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

SGS Canada Inc. statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.

-- End of Analytical Report --

[illegible]



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## FINAL REPORT

**CA40282-OCT25 R1**

**25-315-100, 118 Cross Ave, Oakville**

Prepared for

**DS Consultants**

## First Page

## CLIENT DETAILS

Client DS Consultants  
Address 6221 Highway 7 Unit 16  
Vaughan, Ontario  
L4H 0K8, Canada  
Contact Pradeep Patel  
Telephone 647-332-3482  
Facsimile 905-264-2685  
Email ppatel@dsconsultants.ca  
Works #  
Project 25-315-100, 118 Cross Ave, Oakville  
Reference  
Batch  
Samples WATER (1)

## LABORATORY DETAILS

Project Specialist Jill Campbell, B.Sc.,GISAS  
Laboratory SGS Canada Inc.  
Address 185 Concession St., Lakefield ON, K0L 2H0  
Telephone 2165  
Facsimile 705-652-6365  
Email jill.campbell@sgs.com  
SGS Reference CA40282-OCT25  
Received 2025-10-28  
Approved 11/06/2025  
Report Number CA40282-OCT25 R1  
Date Reported 11/06/2025

## COMMENTS

RL - SGS Reporting Limit

Temperature of Sample upon Receipt: 9 degrees C

Cooling Agent Present: Yes

Custody Seal Present: Yes

Chain of Custody Number:045763

Bis(2-ethylhexyl)phthalate LCS recovery is outside of tolerance; overall the quality control for this analysis has been assessed and meets method acceptability criteria.

Dibenzo(a,i)pyrene RL increased due to a drop in instrument sensitivity. PAH total  
RL remains unchanged.

O&G ms RL's increased due to sample matrix.

## SIGNATORIES

Jill Campbell, B.Sc.,GISAS







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FINAL REPORT

CA40282-OCT25 R1

Client: DS Consultants  
Project: 25-315-100, 118 Cross Ave, Oakville  
Project Manager: Pradeep Patel  
Samplers: Ken

MATRIX: WATER

Sample Number 9  
Sample Name BH1  
Sample Matrix Ground Water

L1 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Sanitary and Combined Sewer Discharge - BL\_2\_03

L2 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Storm Sewer Discharge - BL\_2\_03

Sample Date 2025-10-28 00:00

| Parameter                              | Units     | RL  | L1  | L2 | Result |
|----------------------------------------|-----------|-----|-----|----|--------|
| General Chemistry                      |           |     |     |    |        |
| Carbonaceous Biochemical Oxygen Demand | mg/L      | 2   |     |    | < 4 ↑  |
| Biochemical Oxygen Demand (BOD5)       | mg/L      | 2   | 300 |    | < 4 ↑  |
| Total Suspended Solids                 | mg/L      | 2   | 350 |    | 404    |
| Total Kjeldahl Nitrogen                | as N mg/L | 0.5 | 100 |    | 2.2    |

Metals and Inorganics

|                    |      |          |      |  |          |
|--------------------|------|----------|------|--|----------|
| Cyanide (total)    | mg/L | 0.01     | 2    |  | < 0.01   |
| Fluoride           | mg/L | 0.06     | 10   |  | 0.63     |
| Sulphate           | mg/L | 1        | 1500 |  | 210      |
| Aluminum (total)   | mg/L | 0.001    | 50   |  | 8.32     |
| Antimony (total)   | mg/L | 0.0009   | 5    |  | < 0.0009 |
| Arsenic (total)    | mg/L | 0.0002   | 1    |  | 0.0101   |
| Beryllium (total)  | mg/L | 0.000007 | 5    |  | 0.000341 |
| Cadmium (total)    | mg/L | 0.000003 | 1    |  | 0.000070 |
| Chromium (total)   | mg/L | 0.00008  | 3    |  | 0.0201   |
| Cobalt (total)     | mg/L | 0.000004 | 5    |  | 0.006707 |
| Copper (total)     | mg/L | 0.001    | 3    |  | 0.045    |
| Iron (total)       | mg/L | 0.007    | 50   |  | 12.3     |
| Lead (total)       | mg/L | 0.00009  | 3    |  | 0.00271  |
| Manganese (total)  | mg/L | 0.00001  | 5    |  | 0.413    |
| Molybdenum (total) | mg/L | 0.0004   | 5    |  | 0.0063   |



FINAL REPORT

CA40282-OCT25 R1

**Client:** DS Consultants  
**Project:** 25-315-100, 118 Cross Ave, Oakville  
**Project Manager:** Pradeep Patel  
**Samplers:** Ken

MATRIX: WATER

**Sample Number** 9  
**Sample Name** BH1  
**Sample Matrix** Ground Water  
**Sample Date** 2025-10-28 00:00

L1 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Sanitary and Combined Sewer Discharge - BL\_2\_03  
L2 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Storm Sewer Discharge - BL\_2\_03

| Parameter                         | Units     | RL      | L1 | L2  | Result    |
|-----------------------------------|-----------|---------|----|-----|-----------|
| Metals and Inorganics (continued) |           |         |    |     |           |
| Nickel (total)                    | mg/L      | 0.0001  | 3  |     | 0.0129    |
| Phosphorus (total)                | mg/L      | 0.003   | 10 |     | 0.205     |
| Selenium (total)                  | mg/L      | 0.00004 | 5  |     | 0.00013   |
| Silver (total)                    | mg/L      | 0.00005 | 5  |     | < 0.00005 |
| Tin (total)                       | mg/L      | 0.00006 | 5  |     | 0.00355   |
| Titanium (total)                  | mg/L      | 0.0001  | 5  |     | 0.183     |
| Zinc (total)                      | mg/L      | 0.002   | 3  |     | 0.044     |
| Microbiology                      |           |         |    |     |           |
| Ecoli                             | mpn/100mL | 0       |    | 200 | 1         |
| Nonylphenol and Ethoxylates       |           |         |    |     |           |
| Nonylphenol                       | mg/L      | 0.001   |    |     | < 0.001   |
| Nonylphenol Ethoxylates           | mg/L      | 0.01    |    |     | < 0.01    |
| Nonylphenol diethoxylate          | mg/L      | 0.01    |    |     | < 0.01    |
| Nonylphenol monoethoxylate        | mg/L      | 0.01    |    |     | < 0.01    |



FINAL REPORT

CA40282-OCT25 R1

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**Project Manager:** Pradeep Patel  
**Samplers:** Ken

MATRIX: WATER

**Sample Number** 9  
**Sample Name** BH1  
**Sample Matrix** Ground Water  
**Sample Date** 2025-10-28 00:00

L1 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Sanitary and Combined Sewer Discharge - BL\_2\_03

L2 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Storm Sewer Discharge - BL\_2\_03

| Parameter                                | Units   | RL      | L1   | L2  | Result    |
|------------------------------------------|---------|---------|------|-----|-----------|
| Oil and Grease                           |         |         |      |     |           |
| Oil & Grease (total)                     | mg/L    | 2       |      |     | 4         |
| Oil & Grease (animal/vegetable)          | mg/L    | 4       | 150  |     | 4         |
| Oil & Grease (mineral/synthetic)         | mg/L    | 4       | 15   |     | < 4       |
| Organochlorine Pests (OCs)               |         |         |      |     |           |
| Hexachlorobenzene                        | mg/L    | 0.00001 |      |     | < 0.00001 |
| Other (ORP)                              |         |         |      |     |           |
| pH                                       | No unit | 0.05    | 10   | 8.5 | 7.21      |
| Chromium VI                              | mg/L    | 0.0002  |      |     | < 0.0002  |
| Mercury (total)                          | mg/L    | 0.00001 | 0.05 |     | < 0.00001 |
| PAHs                                     |         |         |      |     |           |
| Benzo(b+j)fluoranthene                   | mg/L    | 0.0001  |      |     | < 0.0001  |
| PCBs                                     |         |         |      |     |           |
| Polychlorinated Biphenyls (PCBs) - Total | mg/L    | 0.0001  |      |     | < 0.0001  |



FINAL REPORT

CA40282-OCT25 R1

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MATRIX: WATER

**Sample Number** 9  
**Sample Name** BH1  
**Sample Matrix** Ground Water  
**Sample Date** 2025-10-28 00:00

L1 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Sanitary and Combined Sewer Discharge - BL\_2\_03  
L2 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Storm Sewer Discharge - BL\_2\_03

| Parameter             | Units | RL      | L1 | L2 | Result    |
|-----------------------|-------|---------|----|----|-----------|
| Pesticides            |       |         |    |    |           |
| Aldrin + Dieldrin     | mg/L  | 0.00002 |    |    | < 0.00002 |
| Chlordane (total)     | mg/L  | 0.00002 |    |    | < 0.001↑  |
| DDT+Metabolites       | mg/L  | 0.00004 |    |    | < 0.00004 |
| op-DDT                | mg/L  | 0.00002 |    |    | < 0.00002 |
| pp-DDD                | mg/L  | 0.00002 |    |    | < 0.00002 |
| pp-DDE                | mg/L  | 0.00001 |    |    | < 0.00001 |
| pp-DDT                | mg/L  | 0.00002 |    |    | < 0.00002 |
| o,p-DDD               | mg/L  | 0.00002 |    |    | < 0.00002 |
| o,p-DDE               | mg/L  | 0.00001 |    |    | < 0.00001 |
| Mirex                 | mg/L  | 0.001   |    |    | < 0.001   |
| Hexachlorocyclohexane | mg/L  | 0.001   |    |    | < 0.001   |
| Phenols               |       |         |    |    |           |
| 4AAP-Phenolics        | mg/L  | 0.001   | 1  |    | 0.004     |



FINAL REPORT

CA40282-OCT25 R1

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MATRIX: WATER

Sample Number 9  
Sample Name BH1  
Sample Matrix Ground Water  
Sample Date 2025-10-28 00:00

L1 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Sanitary and Combined Sewer Discharge - BL\_2\_03  
L2 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Storm Sewer Discharge - BL\_2\_03

| Parameter                  | Units | RL     | L1 | L2 | Result   |
|----------------------------|-------|--------|----|----|----------|
| SVOCs                      |       |        |    |    |          |
| PAHs (Total)               | mg/L  |        |    |    | < 0.001  |
| Perylene                   | mg/L  | 0.0005 |    |    | < 0.0005 |
| di-n-Butyl Phthalate       | mg/L  | 0.002  |    |    | < 0.002  |
| Bis(2-ethylhexyl)phthalate | mg/L  | 0.002  |    |    | < 0.002  |
| 3,3'-Dichlorobenzidine     | mg/L  | 0.0005 |    |    | < 0.0005 |
| Pentachlorophenol          | mg/L  | 0.0005 |    |    | < 0.0005 |

|                         |      |        |      |  |            |
|-------------------------|------|--------|------|--|------------|
| SVOCs - PAHs            |      |        |      |  |            |
| Naphthalene             | mg/L | 0.0005 | 0.14 |  | < 0.0005   |
| 7Hdibenzo(c,g)carbazole | mg/L | 0.0001 |      |  | < 0.0001   |
| Anthracene              | mg/L | 0.0001 |      |  | < 0.0001   |
| Benzo(a)anthracene      | mg/L | 0.0001 |      |  | < 0.0001   |
| Benzo(a)pyrene          | mg/L | 0.0001 |      |  | < 0.0001   |
| Benzo(e)pyrene          | mg/L | 0.0001 |      |  | < 0.0001   |
| Benzo(ghi)perylene      | mg/L | 0.0002 |      |  | < 0.0002   |
| Benzo(k)fluoranthene    | mg/L | 0.0001 |      |  | < 0.0001   |
| Chrysene                | mg/L | 0.0001 |      |  | < 0.0001   |
| Dibenzo(a,h)anthracene  | mg/L | 0.0001 |      |  | < 0.0001   |
| Dibenzo(a,i)pyrene      | mg/L | 0.0001 |      |  | < 0.0002 † |
| Dibenzo(a,j)acridine    | mg/L | 0.0001 |      |  | < 0.0001   |
| Fluoranthene            | mg/L | 0.0001 |      |  | < 0.0001   |
| Indeno(1,2,3-cd)pyrene  | mg/L | 0.0002 |      |  | < 0.0002   |



FINAL REPORT

CA40282-OCT25 R1

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Project Manager: Pradeep Patel  
Samplers: Ken

MATRIX: WATER

Sample Number 9  
Sample Name BH1  
Sample Matrix Ground Water  
Sample Date 2025-10-28 00:00

L1 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Sanitary and Combined Sewer Discharge - BL\_2\_03  
L2 = SANSEW / WATER / - - Halton Sewer Use ByLaw - Storm Sewer Discharge - BL\_2\_03

| Parameter                | Units | RL     | L1 | L2 | Result   |
|--------------------------|-------|--------|----|----|----------|
| SVOCs - PAHs (continued) |       |        |    |    |          |
| Phenanthrene             | mg/L  | 0.0001 |    |    | < 0.0001 |
| Pyrene                   | mg/L  | 0.0001 |    |    | < 0.0001 |

|                                         |      |        |      |  |          |
|-----------------------------------------|------|--------|------|--|----------|
| VOCs                                    |      |        |      |  |          |
| Chloroform                              | mg/L | 0.0005 | 0.04 |  | < 0.0005 |
| 1,2-Dichlorobenzene                     | mg/L | 0.0005 |      |  | < 0.0005 |
| 1,4-Dichlorobenzene                     | mg/L | 0.0005 | 0.08 |  | < 0.0005 |
| cis-1,2-Dichloroethylene                | mg/L | 0.0005 |      |  | < 0.0005 |
| trans-1,3-Dichloropropene               | mg/L | 0.0005 |      |  | < 0.0005 |
| Methylene Chloride                      | mg/L | 0.0005 | 2    |  | < 0.0005 |
| Tetrachloroethylene (perchloroethylene) | mg/L | 0.0005 | 1    |  | < 0.0005 |
| Trichloroethylene                       | mg/L | 0.0005 | 0.4  |  | < 0.0005 |
| 1,1,2,2-Tetrachloroethane               | mg/L | 0.0005 |      |  | < 0.0005 |

|                |      |        |       |  |          |
|----------------|------|--------|-------|--|----------|
| VOCs - BTEX    |      |        |       |  |          |
| Benzene        | mg/L | 0.0005 | 0.01  |  | < 0.0005 |
| Ethylbenzene   | mg/L | 0.0005 | 0.16  |  | < 0.0005 |
| Toluene        | mg/L | 0.0005 | 0.016 |  | < 0.0005 |
| m-p-xylene     | mg/L | 0.0005 |       |  | < 0.0005 |
| o-xylene       | mg/L | 0.0005 |       |  | < 0.0005 |
| Xylene (total) | mg/L | 0.0005 |       |  | < 0.0005 |



EXCEEDANCE SUMMARY

|           |        |       |        | SANSEW / WATER<br>/ - - Halton Sewer<br>Use ByLaw -<br>Sanitary and<br>Combined Sewer<br>Discharge -<br>BL_2_03 | SANSEW / WATER<br>/ - - Halton Sewer<br>Use ByLaw - Storm<br>Sewer Discharge -<br>BL_2_03 |
|-----------|--------|-------|--------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Parameter | Method | Units | Result | L1                                                                                                              | L2                                                                                        |

BH1

|                        |          |      |     |     |
|------------------------|----------|------|-----|-----|
| Total Suspended Solids | SM 2540D | mg/L | 404 | 350 |
|------------------------|----------|------|-----|-----|



FINAL REPORT

CA40282-OCT25 R1

QC SUMMARY

Anions by discrete analyzer  
Method: US EPA 375.4 | Internal ref.: ME-CA-IENVIEWL-LAK-AN-026

| Parameter | QC batch Reference | Units | RL | Method Blank | Duplicate |        | LCS/Spike Blank    |                     |      | Matrix Spike / Ref. |                     |      |
|-----------|--------------------|-------|----|--------------|-----------|--------|--------------------|---------------------|------|---------------------|---------------------|------|
|           |                    |       |    |              | RPD       | AC (%) | Spike Recovery (%) | Recovery Limits (%) |      | Spike Recovery (%)  | Recovery Limits (%) |      |
|           |                    |       |    |              |           |        |                    | Low                 | High |                     | Low                 | High |
| Sulphate  | DIO5032-OCT25      | mg/L  | 1  | <2           | 1         | 20     | 106                | 80                  | 120  | 96                  | 75                  | 125  |

Biochemical Oxygen Demand  
Method: SM 5210 | Internal ref.: ME-CA-IENVIEWL-LAK-AN-007

| Parameter                              | QC batch Reference | Units           | RL | Method Blank | Duplicate |        | LCS/Spike Blank    |                     |      | Matrix Spike / Ref. |                     |      |
|----------------------------------------|--------------------|-----------------|----|--------------|-----------|--------|--------------------|---------------------|------|---------------------|---------------------|------|
|                                        |                    |                 |    |              | RPD       | AC (%) | Spike Recovery (%) | Recovery Limits (%) |      | Spike Recovery (%)  | Recovery Limits (%) |      |
|                                        |                    |                 |    |              |           |        |                    | Low                 | High |                     | Low                 | High |
| Carbonaceous Biochemical Oxygen Demand | BOD0057-OCT25      | (CBOD5)<br>mg/L | 2  | < 2          | 6         | 30     | 100                | 70                  | 130  | NV                  | 70                  | 130  |
| Biochemical Oxygen Demand (BOD5)       | BOD0058-OCT25      | mg/L            | 2  | < 2          | 2         | 30     | 85                 | 70                  | 130  | NV                  | 70                  | 130  |



FINAL REPORT

CA40282-OCT25 R1

QC SUMMARY

Cyanide by SFA  
Method: SM 4500 | Internal ref.: ME-CA-IENVISFA-LAK-AN-005

| Parameter       | QC batch<br>Reference | Units | RL   | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-----------------|-----------------------|-------|------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                 |                       |       |      |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                 |                       |       |      |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Cyanide (total) | SKA0277-OCT25         | mg/L  | 0.01 | <0.01           | ND        | 10        | 99                       | 90                     | 110  | 91                       | 75                     | 125  |

Fluoride by Specific Ion Electrode  
Method: SM 4500 | Internal ref.: ME-CA-IENVIEWL-LAK-AN-014

| Parameter | QC batch<br>Reference | Units | RL   | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-----------|-----------------------|-------|------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|           |                       |       |      |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|           |                       |       |      |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Fluoride  | EWL0740-OCT25         | mg/L  | 0.06 | <0.06           | ND        | 10        | 100                      | 90                     | 110  | 96                       | 75                     | 125  |

Hexavalent Chromium by SFA  
Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-IENVISKA-LAK-AN-012

| Parameter   | QC batch<br>Reference | Units | RL     | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-------------|-----------------------|-------|--------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|             |                       |       |        |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|             |                       |       |        |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Chromium VI | SKA0262-OCT25         | mg/L  | 0.0002 | <0.0002         | ND        | 20        | 101                      | 80                     | 120  | 101                      | 75                     | 125  |



FINAL REPORT

CA40282-OCT25 R1

QC SUMMARY

Mercury by CVAAS  
Method: EPA 7471A/SM 3112B | Internal ref.: ME-CA-IENVISPE-LAK-AN-004

| Parameter       | QC batch<br>Reference | Units | RL      | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-----------------|-----------------------|-------|---------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                 |                       |       |         |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                 |                       |       |         |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Mercury (total) | EHG0070-OCT25         | mg/L  | 0.00001 | < 0.00001       | ND        | 20        | 120                      | 80                     | 120  | 119                      | 70                     | 130  |



FINAL REPORT

CA40282-OCT25 R1

QC SUMMARY

Metals in aqueous samples - ICP-MS  
Method: SM 3030/EPA 200.8 | Internal ref.: ME-CA-ENVISPE-LAK-AN-006

| Parameter          | QC batch<br>Reference | Units | RL       | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|--------------------|-----------------------|-------|----------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                    |                       |       |          |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                    |                       |       |          |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Silver (total)     | EMS0337-OCT25         | mg/L  | 0.00005  | <0.00005        | ND        | 20        | 100                      | 90                     | 110  | NV                       | 70                     | 130  |
| Aluminum (total)   | EMS0337-OCT25         | mg/L  | 0.001    | 0.005085        | 6         | 20        | 101                      | 90                     | 110  | 106                      | 70                     | 130  |
| Arsenic (total)    | EMS0337-OCT25         | mg/L  | 0.0002   | 0.002947        | 1         | 20        | 100                      | 90                     | 110  | 91                       | 70                     | 130  |
| Beryllium (total)  | EMS0337-OCT25         | mg/L  | 0.000007 | 0.000834        | ND        | 20        | 99                       | 90                     | 110  | 96                       | 70                     | 130  |
| Cadmium (total)    | EMS0337-OCT25         | mg/L  | 0.000003 | 0.000381        | 20        | 20        | 98                       | 90                     | 110  | 93                       | 70                     | 130  |
| Cobalt (total)     | EMS0337-OCT25         | mg/L  | 0.000004 | 0.001008        | 3         | 20        | 102                      | 90                     | 110  | 100                      | 70                     | 130  |
| Chromium (total)   | EMS0337-OCT25         | mg/L  | 0.00008  | 0.000871        | ND        | 20        | 102                      | 90                     | 110  | 88                       | 70                     | 130  |
| Copper (total)     | EMS0337-OCT25         | mg/L  | 0.001    | <0.001          | ND        | 20        | 101                      | 90                     | 110  | 102                      | 70                     | 130  |
| Iron (total)       | EMS0337-OCT25         | mg/L  | 0.007    | <0.007          | 1         | 20        | 103                      | 90                     | 110  | 100                      | 70                     | 130  |
| Manganese (total)  | EMS0337-OCT25         | mg/L  | 0.00001  | 0.00158         | 2         | 20        | 100                      | 90                     | 110  | 86                       | 70                     | 130  |
| Molybdenum (total) | EMS0337-OCT25         | mg/L  | 0.0004   | 0.003968        | 1         | 20        | 98                       | 90                     | 110  | 88                       | 70                     | 130  |
| Nickel (total)     | EMS0337-OCT25         | mg/L  | 0.0001   | 0.002426        | 4         | 20        | 99                       | 90                     | 110  | 93                       | 70                     | 130  |
| Lead (total)       | EMS0337-OCT25         | mg/L  | 0.00009  | 0.001549        | ND        | 20        | 98                       | 90                     | 110  | 85                       | 70                     | 130  |
| Phosphorus (total) | EMS0337-OCT25         | mg/L  | 0.003    | <0.003          | 5         | 20        | 96                       | 90                     | 110  | NV                       | 70                     | 130  |
| Antimony (total)   | EMS0337-OCT25         | mg/L  | 0.0009   | <0.0005         | ND        | 20        | 104                      | 90                     | 110  | 98                       | 70                     | 130  |
| Selenium (total)   | EMS0337-OCT25         | mg/L  | 0.00004  | 0.000436        | 11        | 20        | 97                       | 90                     | 110  | 96                       | 70                     | 130  |
| Tin (total)        | EMS0337-OCT25         | mg/L  | 0.00006  | <0.00006        | ND        | 20        | 98                       | 90                     | 110  | NV                       | 70                     | 130  |
| Titanium (total)   | EMS0337-OCT25         | mg/L  | 0.0001   | <0.0001         | 9         | 20        | 103                      | 90                     | 110  | NV                       | 70                     | 130  |
| Zinc (total)       | EMS0337-OCT25         | mg/L  | 0.002    | 0.002882        | 1         | 20        | 98                       | 90                     | 110  | 94                       | 70                     | 130  |



FINAL REPORT

CA40282-OCT25 R1

QC SUMMARY

Microbiology  
Method: SM 9223B | Internal ref.: ME-CA-IENVIMIC-LAK-AN-021

| Parameter | QC batch<br>Reference | Units     | RL | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-----------|-----------------------|-----------|----|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|           |                       |           |    |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|           |                       |           |    |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Ecoli     | BAC9450-OCT25         | mpn/100mL | -  | ACCEPTED        | ACCEPTED  |           |                          |                        |      |                          |                        |      |
|           |                       |           |    |                 | D         |           |                          |                        |      |                          |                        |      |

Nonylphenol and Ethoxylates  
Method: ASTM D7065-06 | Internal ref.: ME-CA-IENVIGC-LAK-AN-015

| Parameter                  | QC batch<br>Reference | Units | RL    | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|----------------------------|-----------------------|-------|-------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                            |                       |       |       |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                            |                       |       |       |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Nonylphenol diethoxylate   | GCM0010-NOV25         | mg/L  | 0.01  | <0.01           |           |           | 93                       | 55                     | 120  |                          |                        |      |
| Nonylphenol monoethoxylate | GCM0010-NOV25         | mg/L  | 0.01  | <0.01           |           |           | 87                       | 55                     | 120  |                          |                        |      |
| Nonylphenol                | GCM0010-NOV25         | mg/L  | 0.001 | <0.001          |           |           | 78                       | 55                     | 120  |                          |                        |      |



FINAL REPORT

CA40282-OCT25 R1

QC SUMMARY

Oil & Grease

Method: MOE E3401 | Internal ref.: ME-CA-IENVIGC-LAK-AN-019

| Parameter            | QC batch<br>Reference | Units | RL | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|----------------------|-----------------------|-------|----|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                      |                       |       |    |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                      |                       |       |    |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Oil & Grease (total) | GCM0474-OCT25         | mg/L  | 2  | <2              | NSS       | 20        | 101                      | 75                     | 125  |                          |                        |      |

Oil & Grease-AV/MS

Method: MOE E3401/SM 5520F | Internal ref.: ME-CA-IENVIGC-LAK-AN-019

| Parameter                        | QC batch<br>Reference | Units | RL | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|----------------------------------|-----------------------|-------|----|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                                  |                       |       |    |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                                  |                       |       |    |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Oil & Grease (animal/vegetable)  | GCM0015-NOV25         | mg/L  | 4  | < 4             | NSS       | 20        | 118                      | 70                     | 130  |                          |                        |      |
| Oil & Grease (mineral/synthetic) | GCM0015-NOV25         | mg/L  | 4  | < 4             | NSS       | 20        | 84                       | 70                     | 130  |                          |                        |      |



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QC SUMMARY

Pesticides  
Method: EPA 3510C/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-018

| Parameter             | QC batch<br>Reference | Units | RL      | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-----------------------|-----------------------|-------|---------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                       |                       |       |         |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                       |                       |       |         |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Hexachlorobenzene     | GCM0480-OCT25         | mg/L  | 0.00001 | < 0.00001       | ND        | 30        | 85                       | 50                     | 140  | 85                       | 50                     | 140  |
| Hexachlorocyclohexane | GCM0480-OCT25         | mg/L  | 0.001   | < 0.001         | ND        | 30        | 94                       | 50                     | 140  | 91                       | 50                     | 140  |
| Mirex                 | GCM0480-OCT25         | mg/L  | 0.001   | < 0.001         | ND        | 30        | 95                       | 50                     | 140  | 75                       | 50                     | 140  |
| o,p-DDD               | GCM0480-OCT25         | mg/L  | 0.00002 | < 0.00002       | ND        | 30        | 100                      | 50                     | 140  | 89                       | 50                     | 140  |
| o,p-DDE               | GCM0480-OCT25         | mg/L  | 0.00001 | < 0.00001       | ND        | 30        | 104                      | 50                     | 140  | 95                       | 50                     | 140  |
| op-DDT                | GCM0480-OCT25         | mg/L  | 0.00002 | < 0.00002       | ND        | 30        | 102                      | 50                     | 140  | 90                       | 50                     | 140  |
| pp-DDD                | GCM0480-OCT25         | mg/L  | 0.00002 | < 0.00002       | ND        | 30        | 109                      | 50                     | 140  | 102                      | 50                     | 140  |
| pp-DDE                | GCM0480-OCT25         | mg/L  | 0.00001 | < 0.00001       | ND        | 30        | 100                      | 50                     | 140  | 87                       | 50                     | 140  |
| pp-DDT                | GCM0480-OCT25         | mg/L  | 0.00002 | < 0.00002       | ND        | 30        | 110                      | 50                     | 140  | 99                       | 50                     | 140  |

pH  
Method: SM 4500 | Internal ref.: ME-CA-IENVIEWL-LAK-AN-006

| Parameter | QC batch<br>Reference | Units   | RL   | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-----------|-----------------------|---------|------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|           |                       |         |      |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|           |                       |         |      |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| pH        | EWL0729-OCT25         | No unit | 0.05 | NA              | 0         |           | 100                      |                        |      | NA                       |                        |      |



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QC SUMMARY

Phenols by SFA  
Method: SM 5530B-D | Internal ref.: ME-CA-IENVISFA-LAK-AN-006

| Parameter      | QC batch<br>Reference | Units | RL    | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|----------------|-----------------------|-------|-------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                |                       |       |       |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                |                       |       |       |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| 4AAP-Phenolics | SKA0006-NOV25         | mg/L  | 0.001 | <0.001          | ND        | 10        | 94                       | 80                     | 120  | 106                      | 75                     | 125  |

Polychlorinated Biphenyls  
Method: MOE E3400/EPA 8082A | Internal ref.: ME-CA-IENVIGC-LAK-AN-001

| Parameter                                   | QC batch<br>Reference | Units | RL     | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|---------------------------------------------|-----------------------|-------|--------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                                             |                       |       |        |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                                             |                       |       |        |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Polychlorinated Biphenyls (PCBs) -<br>Total | GCM0461-OCT25         | mg/L  | 0.0001 | <0.0001         | NSS       | 30        | 84                       | 60                     | 140  | NSS                      | 60                     | 140  |



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QC SUMMARY

Semi-Volatile Organics

Method: EPA 3510C/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-005

| Parameter                  | QC batch<br>Reference | Units | RL     | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|----------------------------|-----------------------|-------|--------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                            |                       |       |        |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                            |                       |       |        |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| 7Hdibenzo(c,g)carbazole    | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 92                       | 50                     | 140  | NSS                      | 50                     | 140  |
| Anthracene                 | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 113                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Benzo(a)anthracene         | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 110                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Benzo(a)pyrene             | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 105                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Benzo(b+j)fluoranthene     | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 102                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Benzo(e)pyrene             | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 101                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Benzo(ghi)perylene         | GCM0019-NOV25         | mg/L  | 0.0002 | < 0.0002        | NSS       | 30        | 120                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Benzo(k)fluoranthene       | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 122                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Bis(2-ethylhexyl)phthalate | GCM0019-NOV25         | mg/L  | 0.002  | < 0.002         | NSS       | 30        | 167                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Chrysene                   | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 112                      | 50                     | 140  | NSS                      | 50                     | 140  |
| di-n-Butyl Phthalate       | GCM0019-NOV25         | mg/L  | 0.002  | < 0.002         | NSS       | 30        | 128                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Dibenzo(a,h)anthracene     | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 116                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Dibenzo(a,i)pyrene         | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 93                       | 50                     | 140  | NSS                      | 50                     | 140  |
| Dibenzo(a,j)acridine       | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 92                       | 50                     | 140  | NSS                      | 50                     | 140  |
| Fluoranthene               | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 119                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Indeno(1,2,3-cd)pyrene     | GCM0019-NOV25         | mg/L  | 0.0002 | < 0.0002        | NSS       | 30        | 122                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Naphthalene                | GCM0019-NOV25         | mg/L  | 0.0005 | < 0.0005        | NSS       | 30        | 92                       | 50                     | 140  | NSS                      | 50                     | 140  |
| Pentachlorophenol          | GCM0019-NOV25         | mg/L  | 0.0005 | < 0.0005        | NSS       | 30        | 121                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Perylene                   | GCM0019-NOV25         | mg/L  | 0.0005 | < 0.0005        | NSS       | 30        | 100                      | 50                     | 140  | NSS                      | 50                     | 140  |
| Phenanthrene               | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 115                      | 50                     | 140  | NSS                      | 50                     | 140  |



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QC SUMMARY

Semi-Volatile Organics (continued)

Method: EPA 3510C/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-005

| Parameter              | QC batch<br>Reference | Units | RL     | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|------------------------|-----------------------|-------|--------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                        |                       |       |        |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                        |                       |       |        |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Pyrene                 | GCM0019-NOV25         | mg/L  | 0.0001 | < 0.0001        | NSS       | 30        | 133                      | 50                     | 140  | NSS                      | 50                     | 140  |
| 3,3'-Dichlorobenzidine | GCM0471-OCT25         | mg/L  | 0.0005 | < 0.0005        | NSS       | 30        | 82                       | 30                     | 130  | NSS                      | 30                     | 130  |

Suspended Solids

Method: SM 2540D | Internal ref.: ME-CA-IENVIEWL-LAK-AN-004

| Parameter              | QC batch<br>Reference | Units | RL | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|------------------------|-----------------------|-------|----|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                        |                       |       |    |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                        |                       |       |    |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Total Suspended Solids | EWL0726-OCT25         | mg/L  | 2  | < 2             | 0         | 10        | 98                       | 90                     | 110  | NA                       |                        |      |

Total Nitrogen

Method: SM 4500-N C/4500-NO3- F | Internal ref.: ME-CA-IENVISFA-LAK-AN-002

| Parameter               | QC batch<br>Reference | Units     | RL  | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|-------------------------|-----------------------|-----------|-----|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                         |                       |           |     |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                         |                       |           |     |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| Total Kjeldahl Nitrogen | SKA0009-NOV25         | as N mg/L | 0.5 | <0.5            | ND        | 10        | 90                       | 90                     | 110  | 100                      | 75                     | 125  |



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QC SUMMARY

Volatile Organics  
Method: EPA 5030B/8260C | Internal ref.: ME-CA-ENVIGC-LAK-AN-004

| Parameter                                  | QC batch<br>Reference | Units | RL     | Method<br>Blank | Duplicate |           | LCS/Spike Blank          |                        |      | Matrix Spike / Ref.      |                        |      |
|--------------------------------------------|-----------------------|-------|--------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
|                                            |                       |       |        |                 | RPD       | AC<br>(%) | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      | Spike<br>Recovery<br>(%) | Recovery Limits<br>(%) |      |
|                                            |                       |       |        |                 |           |           |                          | Low                    | High |                          | Low                    | High |
| 1,1,2,2-Tetrachloroethane                  | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 98                       | 60                     | 130  | 100                      | 50                     | 140  |
| 1,2-Dichlorobenzene                        | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 99                       | 60                     | 130  | 98                       | 50                     | 140  |
| 1,4-Dichlorobenzene                        | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 98                       | 60                     | 130  | 95                       | 50                     | 140  |
| Benzene                                    | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 100                      | 60                     | 130  | 96                       | 50                     | 140  |
| Chloroform                                 | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 98                       | 60                     | 130  | 94                       | 50                     | 140  |
| cis-1,2-Dichloroethylene                   | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 97                       | 60                     | 130  | 96                       | 50                     | 140  |
| Ethylbenzene                               | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 101                      | 60                     | 130  | 97                       | 50                     | 140  |
| m-p-xylene                                 | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 102                      | 60                     | 130  | 98                       | 50                     | 140  |
| Methylene Chloride                         | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 86                       | 60                     | 130  | 82                       | 50                     | 140  |
| o-xylene                                   | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 100                      | 60                     | 130  | 97                       | 50                     | 140  |
| Tetrachloroethylene<br>(perchloroethylene) | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 102                      | 60                     | 130  | 98                       | 50                     | 140  |
| Toluene                                    | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 100                      | 60                     | 130  | 95                       | 50                     | 140  |
| trans-1,3-Dichloropropene                  | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 99                       | 60                     | 130  | 102                      | 50                     | 140  |
| Trichloroethylene                          | GCM0460-OCT25         | mg/L  | 0.0005 | <0.0005         | ND        | 30        | 100                      | 60                     | 130  | 95                       | 50                     | 140  |



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## QC SUMMARY

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**Method Blank:** a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

**Duplicate:** Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

**LCS/Spike Blank:** Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

**Matrix Spike:** A sample to which a known amount of the analyte of interest has been added. Used to evaluate laboratory accuracy with sample matrix effects.

**Reference Material:** a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

**RL:** Reporting limit

**RPD:** Relative percent difference

**AC:** Acceptance criteria

**Multielement Scan Qualifier:** as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

**Duplicate Qualifier:** for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

**Matrix Spike Qualifier:** for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

## LEGEND

## FOOTNOTES

**NSS** Insufficient sample for analysis.

**RL** Reporting Limit.

↑ Reporting limit raised.

↓ Reporting limit lowered.

**NA** The sample was not analysed for this analyte

**ND** Non Detect

Results relate only to the sample tested.

Data reported represent the sample as submitted to SGS.

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Test method information available upon request.

"Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

SGS Canada Inc. statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.

-- End of Analytical Report --

[illegible]

## **Appendix D: MECP Water Wells Records**

**Hydrogeological Investigation-118-132 Cross Avenue, Oakville, Ontario**

| TOWNSHIP C    | UTM | E      | N       | DATE CNTR    | CASING | WATER | PUMP TEST | WELL USE | SCREEN  | WELL    | 1                     | FORMATION                                                             |
|---------------|-----|--------|---------|--------------|--------|-------|-----------|----------|---------|---------|-----------------------|-----------------------------------------------------------------------|
| OAKVILLE TOWN | 17  | 606630 | 4812513 | 2016-04 7241 | 2      |       |           | MT       | 0010 10 | 7263649 | (Z231455)<br>A197867  | GREY FILL 0006 GREY SHLE 0020                                         |
| OAKVILLE TOWN | 17  | 606608 | 4812509 | 2016-04 7241 | 2      |       |           | MT       | 0010 10 | 7263648 | (Z231456)<br>A197866  | GREY FILL 0004 GREY SHLE 0020                                         |
| OAKVILLE TOWN | 17  | 606602 | 4812542 | 2016-04 7241 | 2      |       |           | MT       | 0010 10 | 7263647 | (Z231457)<br>A197865  | GREY LMSN FILL 0008 GREY SHLE 0020                                    |
| OAKVILLE TOWN | 17  | 606353 | 4812120 | 2015-11 7241 | 2      |       |           | MT       | 0010 10 | 7253999 | (Z224734)<br>A183242  | BLCK 0003 BRWN SAND SILT 0004 BRWN SILT DNSE 0013 GREY SHLE WTHD 0020 |
| OAKVILLE TOWN | 17  | 606851 | 4812101 | 2010-09 6032 |        |       |           |          |         | 7231230 | (C02894)<br>A068260 P |                                                                       |
| OAKVILLE TOWN | 17  | 606842 | 4812074 | 2014-03 7241 | 2      |       |           | MT       | 0007 10 | 7220361 | (Z177775)<br>A160704  | BRWN SILT SAND LOOS 0006 GREY SHLE HARD 0017                          |
| OAKVILLE TOWN | 17  | 606844 | 4812074 | 2014-03 7241 | 2      |       |           | MT       | 0008 10 | 7220360 | (Z177776)<br>A160705  | BRWN SILT SAND LOOS 0006 GREY SHLE 0018                               |
| OAKVILLE TOWN | 17  | 606848 | 4812074 | 2014-03 7241 | 2      |       |           | MT       | 0012 5  | 7220359 | (Z185594)<br>A160711  | BRWN SILT SAND LOOS 0009 GREY SHLE HARD 0018                          |
| OAKVILLE TOWN | 17  | 606846 | 4812071 | 2014-03 7241 | 2      |       |           | MT       | 0013 5  | 7220358 | (Z185595)<br>A155645  | BRWN SILT SAND LOOS 0008 GREY SHLE HARD 0018                          |
| OAKVILLE TOWN | 17  | 606347 | 4812111 | 2015-11 7241 | 2      |       |           | MT       | 0010 10 | 7254000 | (Z224735)<br>A183243  | BRWN SILT CLAY SOFT 0008 BRWN SILT CLAY DNSE 0011 GREY SHLE WTHD 0020 |
| OAKVILLE TOWN | 17  | 606453 | 4812399 | 2018-09 7609 |        |       |           |          |         | 7325283 | (C42401)<br>A248729 P |                                                                       |
| OAKVILLE TOWN | 17  | 606849 | 4812017 | 2019-03 7360 | 0.75   |       | ///:      | MO       | 0013 5  | 7331141 | (Z309374)<br>A266870  | BRWN SAND 0008 GREY TILL SILT 0012 SHLE 0018                          |
| OAKVILLE TOWN | 17  | 606360 | 4812366 | 2018-08 7324 |        |       |           |          |         | 7327366 | (C45033)<br>A256355 P |                                                                       |
| OAKVILLE TOWN | 17  | 606421 | 4812342 | 7147         |        |       |           |          |         | 7286766 | (C37214)<br>A216335 P |                                                                       |
| OAKVILLE TOWN | 17  | 606346 | 4812317 | 2018-05 7241 | 2      |       |           | TH MO    | 0011 10 | 7322524 | (Z286917)<br>A243641  | BLCK ---- 0000 BRWN SAND SILT 0008 GREY SHLE 0021                     |
| OAKVILLE TOWN | 17  | 606364 | 4812301 | 2018-05 7241 | 2      |       |           | TH MO    | 0006 11 | 7322523 | (Z286920)<br>A243697  | BLCK ---- 0000 BRWN SAND SILT 0008 GREY SHLE WTHD 0016                |
| OAKVILLE TOWN | 17  | 606395 | 4812248 | 2018-05 7241 | 2      |       |           | TH MO    | 0010 10 | 7322522 | (Z286921)<br>A220541  | BLCK ---- 0000 BRWN SAND SILT 0008 GREY SHLE WTHD 0020                |

|               |    |        |         |              |      |         |  |    |         |         |                       |                                                                                                                                                                      |
|---------------|----|--------|---------|--------------|------|---------|--|----|---------|---------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OAKVILLE TOWN | 17 | 606854 | 4812105 | 2013-11 7241 | 2    |         |  | MT | 0010 10 | 7213475 | (Z168933)<br>A149944  | BRWN FILL FSND SOFT 0007<br>GREY SHLE SILT DNSE 0020                                                                                                                 |
| OAKVILLE TOWN | 17 | 605976 | 4812066 | 2019-01 7472 | 1.29 | ///:    |  | MO | 0045 10 | 7329556 | (Z299934)<br>A263643  | BLCK ---- HARD 0001 BRWN<br>SILT CLAY SOFT 0010 GREY<br>CLAY SILT DNSE 0020 GREY<br>SHLE HARD 0055                                                                   |
| OAKVILLE TOWN | 17 | 606357 | 4812434 | 2011-03 7241 | 2    |         |  | MT | 0004 7  | 7161334 | (Z130919)<br>A115644  | BLCK LOAM LOOS 0000 BRWN<br>SILT SAND DNSE 0011                                                                                                                      |
| OAKVILLE TOWN | 17 | 606336 | 4812373 | 2011-03 7241 | 2    |         |  | MT | 0004 7  | 7161333 | (Z130926)<br>A115645  | BLCK ---- 0000 BRWN SAND<br>GRVL LOOS 0001 BRWN SILT<br>SAND DNSE 0011                                                                                               |
| OAKVILLE TOWN | 17 | 606330 | 4812360 | 2011-03 7241 | 2    |         |  | MT | 0004 7  | 7161332 | (Z130927)<br>A115646  | BLCK ---- 0000 BRWN SAND<br>GRVL LOOS 0001 BRWN SILT<br>SAND DNSE 0011                                                                                               |
| OAKVILLE TOWN | 17 | 606339 | 4812244 | 2009-09 7295 | 1.79 |         |  | MO | 0010 10 | 7134031 | (Z097369)<br>A090329  | BRWN FILL 0001 BRWN TILL<br>SHLE 0011 RED SHLE LMSN<br>LYRD 0020                                                                                                     |
| OAKVILLE TOWN | 17 | 606738 | 4817569 | 2007-09 6607 | 2    | FR 0013 |  | MO |         | 7101141 | (M00604)<br>A054669   | BRWN SAND GRVL 0001 BRWN<br>SILT CLAY SAND 0012 GREY<br>SILT CLAY SAND 0014 GREY<br>SHLE WTHD 0015                                                                   |
| OAKVILLE TOWN | 17 | 606762 | 4812347 | 2007-01 6809 | 2    |         |  |    | 0003 5  | 7041205 | (Z73545)<br>A052979   | BLCK STNS SAND 0005 GREY<br>SAND STNS 0008                                                                                                                           |
| OAKVILLE TOWN | 17 | 606821 | 4812116 | 2006-08 6032 | 0.2  |         |  | NU | 0010 10 | 2810649 | (Z46492)<br>A005383   | BRWN SILT SAND SHLE 0020<br>BRWN SILT SAND SHLE 0020<br>BRWN SILT SAND SHLE 0020<br>BRWN SILT SAND SHLE 0020<br>BRWN SILT SAND SHLE 0023<br>BRWN SILT SAND SHLE 0025 |
| OAKVILLE TOWN | 17 | 606821 | 4812105 | 2005-02 6032 | 1.97 |         |  | NU | 0010 10 | 2810285 | (Z05388)<br>A005477   | BRWN CLAY SILT 0010 BRWN<br>GRVL 0020 GREY ROCK 0020                                                                                                                 |
| OAKVILLE TOWN | 17 | 606856 | 4812109 | 2013-11 7241 | 2.04 |         |  | MT | 0010 10 | 7213474 | (Z168934)<br>A149956  | WHIT HPAN 0000 BRWN SAND<br>SILT SOFT 0006 BLUE SHLE<br>HARD 0020                                                                                                    |
| OAKVILLE TOWN | 17 | 606852 | 4812107 | 2013-11 7241 | 2    |         |  | MT | 0010 10 | 7213467 | (Z168932)<br>A149988  | BRWN FILL FSND SOFT 0007<br>GREY SHLE SILT SOFT 0015<br>GREY SHLE DNSE 0020                                                                                          |
| OAKVILLE TOWN | 17 | 606840 | 4812098 | 2012-06 7215 |      |         |  |    |         | 7195037 | (C18042)<br>A128824 P |                                                                                                                                                                      |
| OAKVILLE TOWN | 17 | 606392 | 4812383 | 2012-05 7230 |      |         |  |    |         | 7192191 | (C19728)<br>A128931 P |                                                                                                                                                                      |

|                              |    |        |         |              |      |  |    |        |         |                        |                                                              |
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| OAKVILLE TOWN                | 17 | 606534 | 4811964 | 2012-04 6607 |      |  |    |        | 7188619 | (C16809)<br>A126201 P  |                                                              |
| OAKVILLE TOWN                | 17 | 606823 | 4811924 | 2012-08 7241 | 2    |  | MO | 0009 5 | 7187789 | (Z148589)<br>A120920   | BRWN SAND FILL SOFT 0004<br>GREY SHLE ROCK DNSE 0014         |
| OAKVILLE TOWN                | 17 | 606820 | 4811922 | 2012-08 7241 | 2    |  | MO | 0010 5 | 7187788 | (Z148590)<br>A120919   | BRWN SAND FILL SOFT 0004<br>GREY SHLE ROCK DNSE 0015         |
| OAKVILLE TOWN                | 17 | 606819 | 4812122 | 2012-08 7241 | 2    |  | MO | 0006 5 | 7187787 | (Z148591)<br>A120918   | BRWN FILL SAND SOFT 0004<br>GREY SHLE ROCK DNSE 0011         |
| OAKVILLE TOWN                | 17 | 606399 | 4812289 | 2023-05 6946 |      |  |    |        | 7448746 | (Z407724)<br>A378532 P |                                                              |
| OAKVILLE TOWN                | 17 | 606245 | 4812409 | 2022-04 6988 |      |  |    |        | 7435361 | (C54726)<br>A332186 P  |                                                              |
| OAKVILLE TOWN                | 17 | 606773 | 4812307 | 2023-06 7241 |      |  |    |        | 7454895 | (Z410400)<br>A377095 P |                                                              |
| OAKVILLE TOWN                | 17 | 606780 | 4812335 | 2023-06 7241 |      |  |    |        | 7454894 | (Z410399)<br>A377096 P |                                                              |
| OAKVILLE TOWN                | 17 | 606391 | 4812347 | 2023-05 6946 |      |  |    |        | 7448747 | (Z406152)<br>A378534 P |                                                              |
| OAKVILLE TOWN                | 17 | 606775 | 4812266 | 2023-06 7241 |      |  |    |        | 7454898 | (Z410396)<br>A381672 P |                                                              |
| OAKVILLE TOWN                | 17 | 606445 | 4812321 | 2023-05 6946 |      |  |    |        | 7448745 | (Z407725)<br>A378174 P |                                                              |
| OAKVILLE TOWN                | 17 | 606424 | 4812346 | 2023-05 6946 |      |  |    |        | 7448744 | (Z409331)<br>A378566 P |                                                              |
| OAKVILLE TOWN                | 17 | 606402 | 4812326 | 2023-05 6946 |      |  |    |        | 7448743 | (Z409330)<br>A378530 P |                                                              |
| OAKVILLE TOWN                | 17 | 606389 | 4812395 | 2023-05 6946 |      |  |    |        | 7448742 | (Z409329)<br>A378184 P |                                                              |
| OAKVILLE TOWN                | 17 | 606766 | 4812356 | 2023-06 7241 |      |  |    |        | 7454893 | (Z410398)<br>A377097 P |                                                              |
| OAKVILLE TOWN                | 17 | 605978 | 4812091 | 2019-09 7215 |      |  |    |        | 7343775 | (C45927)<br>A273692 P  |                                                              |
| OAKVILLE TOWN                | 17 | 606796 | 4812294 | 2023-06 7241 |      |  |    |        | 7454896 | (Z410395)<br>A381673 P |                                                              |
| OAKVILLE TOWN                | 17 | 606648 | 4812455 | 2020-10 7609 |      |  |    |        | 7374253 | (C47678)<br>A304621 P  |                                                              |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606525 | 4812383 | 2004-04 6607 | 0.98 |  | NU | 0012 5 | 2810039 | (Z17060)<br>A014511    | BRWN SAND SILT FILL 0007<br>BRWN SAND 0008 GREY SHLE<br>0017 |

|                              |    |        |         |              |      |         |      |    |         |         |                         |                                                                                                                           |
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| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606846 | 4812111 | 2004-09 6607 | 1.97 | 11      |      |    | 0003 18 | 2810078 | (Z17108)<br>A015730     | BRWN FILL SNDY 0002 BRWN<br>FILL SLTY SAND 0004 BRWN<br>FILL CLAY SNDY 0006 BRWN<br>CLAY SHLE WTHD 0007 GREY<br>SHLE 0021 |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606546 | 4812469 | 2023-02 7472 | 2    |         | ///: | MO | 0010 10 | 7443319 | (2NATFAZC)<br>A372209   | BRWN FILL LOOS 0007 GREY<br>SHLE HARD 0020                                                                                |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606386 | 4812513 | 2023-03 7472 | 2    |         | ///: | MO | 0010 10 | 7443029 | (10XDBC2Q)<br>A372258   | BRWN FILL LOOS 0005 GREY<br>TILL PCKD 0010 GREY SHLE<br>HARD 0020                                                         |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606403 | 4812570 | 2023-03 7472 | 2    |         | ///: | MO | 0010 10 | 7443026 | (ZPI7X6Q6)<br>A372272   | BRWN FILL LOOS 0005 GREY<br>TILL PCKD 0010 GREY SHLE<br>HARD 0020                                                         |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606364 | 4812555 | 2023-03 7472 | 2    |         | ///: | MO | 0010 10 | 7443025 | (XB7DKS3Q)<br>A372274   | BRWN FILL LOOS 0005 GREY<br>TILL PCKD 0010 GREY SHLE<br>HARD 0020                                                         |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606348 | 4812572 | 2023-03 7472 | 2    |         | ///: | MO | 0070 10 | 7443024 | (VNV5XNVO)<br>A372273   | BRWN FILL LOOS 0005 GREY<br>TILL PCKD 0010 GREY SHLE<br>HARD 0080                                                         |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606399 | 4812544 | 2023-03 7472 | 2    |         | ///: | MO | 0070 10 | 7443021 | (D2IUOBSI)<br>A372233   | BRWN FILL LOOS 0005 GREY<br>TILL PCKD 0010 GREY SHLE<br>HARD 0080                                                         |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606581 | 4812411 | 2021-06 7732 | 1.97 | UT 0007 | ///: |    | 0008 5  | 7393335 | (Y)WC8PK3)<br>_NO_TAG A |                                                                                                                           |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606652 | 4812460 | 2021-06 7732 | 1.97 |         | ///: |    | 0008 5  | 7393299 | (O8IUKZP3)<br>A304621 A |                                                                                                                           |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606596 | 4812434 | 2021-06 7732 | 1.97 | UT 0010 | ///: |    | 0008 5  | 7393339 | (F54SDJLI)<br>_NO_TAG A |                                                                                                                           |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606591 | 4812456 | 2021-06 7732 | 1.97 | UT 0006 | ///: |    | 0008 5  | 7393340 | (VG4RZGHG)<br>_NO_TAG A |                                                                                                                           |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606559 | 4812454 | 2021-06 7732 | 1.97 | 6       | ///: |    | 0005 5  | 7393341 | (IL9MBU8I)<br>_NO_TAG A |                                                                                                                           |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606440 | 4812460 | 2021-10 7472 | 2    |         | ///: | MO | 0065 10 | 7405067 | (AR9PP6TB)<br>A320017   | BRWN FILL LOOS 0007 GREY<br>SHLE HARD 0075                                                                                |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606416 | 4812494 | 2021-10 7472 | 2    |         | ///: | MO | 0013 10 | 7405070 | (CNZBLHHN)<br>A320046   | BRWN FILL LOOS 0007 GREY<br>SHLE HARD 0023                                                                                |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606614 | 4812490 | 2021-07 7732 | 1.97 |         | ///: |    | 0005 5  | 7393298 | (RS9QR8P3)<br>A105921 A |                                                                                                                           |
| OAKVILLE TOWN<br>DS S 03 013 | 17 | 606426 | 4812481 | 2021-10 7472 | 2    |         | ///: | MO | 0011 5  | 7405069 | (4HOT3MSC)<br>A320021   | BRWN FILL LOOS 0007 GREY<br>SHLE HARD 0016                                                                                |

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| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606290 | 4812491 | 2023-03 7472 | 2   |         | ///:   | MO | 0050 10 | 7443023 | (RIYRD9PA)<br>A372280  | BRWN FILL LOOS 0005 GREY<br>TILL PCKD 0010 GREY SHLE<br>HARD 0060                                  |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606537 | 4812056 | 2023-09 7644 |     |         |        |    |         | 7465100 | (Z411790)<br>A377325 P |                                                                                                    |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606569 | 4812107 | 2023-09 7644 |     |         |        |    |         | 7465099 | (Z411789)<br>A377324 P |                                                                                                    |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606602 | 4812089 | 2023-09 7644 |     |         |        |    |         | 7465098 | (Z411788)<br>A377323 P |                                                                                                    |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606625 | 4812067 | 2023-09 7644 |     |         |        |    |         | 7465097 | (Z411787)<br>A377322 P |                                                                                                    |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606552 | 4812025 | 2023-09 7644 |     |         |        |    |         | 7465083 | (Z411785)<br>A377329 P |                                                                                                    |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606577 | 4812049 | 2023-09 7644 |     |         |        |    |         | 7465082 | (Z411786)<br>A377328 P |                                                                                                    |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606665 | 4812028 | 2022-02 7747 | 2 6 | UT 0020 | 20///: | MO | 0017 10 | 7412588 | (XZKKNFBC)<br>A333523  | BRWN CLAY TILL DNSE 0011<br>WHIT LMSN SHLE DNSE 0027                                               |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606278 | 4812482 | 2023-03 7472 | 2   |         | ///:   | MO | 0030 10 | 7443022 | (875NUCOP)<br>A372279  | BRWN FILL LOOS 0005 GREY<br>TILL PCKD 0010 GREY SHLE<br>HARD 0040                                  |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606319 | 4812453 | 2023-03 7472 | 2   |         | ///:   | MO | 0040 10 | 7443027 | (A7J76AGH)<br>A372253  | BRWN FILL LOOS 0005 GREY<br>TILL PCKD 0010 GREY SHLE<br>HARD 0050                                  |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606510 | 4811999 | 2023-09 7644 |     |         |        |    |         | 7465101 | (Z411784)<br>A377326 P |                                                                                                    |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606666 | 4812044 | 2022-02 7747 | 2 6 | UT 0015 | 15///: | MO | 0010 10 | 7412585 | (PPHRWP8V)<br>A321593  | BLCK DNSE 0000 BRWN SAND<br>GRVL DNSE 0002 BRWN SILT<br>TILL DNSE 0011 WHIT LMSN<br>SHLE DNSE 0020 |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606287 | 4812463 | 2023-03 7472 | 2   |         | ///:   | MO | 0010 10 | 7443030 | (AFUYXKWL)<br>A372256  | BRWN FILL LOOS 0005 GREY<br>TILL PCKD 0010 GREY SHLE<br>HARD 0020                                  |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606421 | 4812443 | 2021-10 7472 | 2   |         | ///:   | MO | 0014 10 | 7405071 | (Q4NXN8YU)<br>A320051  | BRWN FILL LOOS 0007 GREY<br>SHLE HARD 0024                                                         |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606386 | 4812447 | 2021-10 7472 | 2   |         | ///:   | MO | 0040 10 | 7405068 | (8VFZG7VL)<br>A319998  | BRWN FILL LOOS 0007 GREY<br>SHLE HARD 0050                                                         |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606358 | 4812486 | 2023-03 7472 | 2   |         | ///:   | MO | 0035 10 | 7443028 | (UIB565OD)<br>A372257  | BRWN FILL LOOS 0005 GREY<br>TILL PCKD 0010 GREY SHLE<br>HARD 0045                                  |

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| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606647 | 4812009 | 2022-02 7747 | 2 6 | UT 0015 | 15///:           | MO | 0012 10 | 7412591 | (9PGHYL9U)<br>A333594 | BLCK DNSE 0000 BRWN SAND<br>GRVL DNSE 0002 BRWN SILT<br>TILL DNSE 0012 WHIT LMSN<br>SHLE DNSE 0022 |
| OAKVILLE TOWN<br>DS S 03 014 | 17 | 606063 | 4812323 | 1948-07 2613 | 6 6 | FR 0040 | 16/20/20<br>/1:0 | IN |         | 2802422 | ()                    | RED CLAY STNS 0011 RED<br>SHLE 0040                                                                |
| OAKVILLE TOWN<br>DS S 03 015 | 17 | 605941 | 4812021 | 2021-01 6607 | 2   |         | ///:             | MO | 0010 10 | 7384400 | (PXKYBVGI)<br>A299441 | BRWN TILL HARD 0002 BRWN<br>TILL HARD 0015 RED SHLE<br>HARD 0020                                   |
| OAKVILLE TOWN<br>DS S 03 015 | 17 | 606076 | 4812042 | 2021-01 6607 | 2   |         | ///:             | MT | 0010 10 | 7384388 | (24GJMVIZ)<br>A299460 | BRWN TILL HARD 0002 BRWN<br>TILL HARD 0015 RED SHLE<br>HARD 0020                                   |
| OAKVILLE TOWN<br>DS S 03 015 | 17 | 606007 | 4812050 | 2021-01 6607 | 2   |         | ///:             | MT | 0015 10 | 7384399 | (KJDR3HSG)<br>A293571 | BRWN TILL HARD 0002 BRWN<br>TILL HARD 0015 RED SHLE<br>HARD 0025                                   |
| OAKVILLE TOWN<br>DS S 03 015 | 17 | 606155 | 4812030 | 2021-01 6607 | 2   |         | ///:             | MT | 0010 10 | 7384402 | (YJUSNA6L)<br>A299401 | BRWN TILL HARD 0015 RED<br>SHLE HARD 0020                                                          |