Updated Hydrogeological Investigation

Proposed Residential Development 1470 Williamsport Drive Mississauga, Ontario

Prepared For:

1470 Williamsport Holdings Inc.

Project No.: 24-300-100

Date: August 14th, 2025



DS CONSULTANTS LTD.

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1470 Williamsport Holdings Inc. 68 Railside Road Unit AA Toronto, Ontario M3A 1A3

Attention: Jack Greenberg

Via email: michi@sajeckiplanning.com

RE: Hydrogeological Investigation – 1470 Williamsport Drive, Mississauga, Ontario

DS Consultants Limited (DS) was retained by 1470 Williamsport Holdings Inc. to complete a hydrogeological investigation for the proposed development at 1470 Williamsport Drive in the City of Mississauga (hereinafter referred to as the Site). The site is an approximate 5,800 m² parcel of land located approximately 100 meters south of the intersection of Williamsport Drive and Havenwood Drive and currently occupied with a mid-rise residential building with associated paved parking lot. DS understands that the existing structures will be demolished, and the proposed development includes the construction of two (2) 12-storey mid-rise building with two (2) levels of underground parking (P2).

The average ground elevation at the site is approximately 139 meters above sea level (masl). Based on the architectural drawings provided to DS (BDP, Quadrangle issued on June 7, 2024), it's assumed that the finished floor elevation of P2 would be 7 meters below ground surface (mbgs) or an approximate elevation of 132 masl. The assumed finished floor elevation of P2 considering the footings and elevator shaft would be approximately 9 mbgs (approx. Elev: 130 masl).

This hydrogeological investigation includes an overview of the existing geological and hydrogeological conditions at the Site and the surrounding area, an assessment of the hydrogeological constraints, and impacts of the proposed development on the local groundwater and provides an estimation of construction dewatering and permanent drainage requirements during the proposed development phase. Based on the results of this investigation, the following conclusions and recommendations are presented:

- 1. Based on the MECP water well records search, there are nineteen (19) water wells within 500 meters of the development site. No water well is noted as a water supply well (domestic, irrigation, industrial). All wells are noted as test holes, monitoring wells, not in use or unknown. The study area is serviced with municipal water and therefore, no groundwater users are expected in the area.
- 2. On August 9, 2024, DS drilled five (5) boreholes (BH24-1 through BH24-5) at the site as part of the concurrent hydrogeological and environmental investigations. The boreholes were advanced to a depth ranging from 2.1 to 9.8 mbgs. One (1) of the drilled boreholes (BH24-5) was equipped with a 50 mm dia monitoring well to a depth ranging from 6.7 to 9.7 mbgs. All monitoring wells (including three (3) monitoring well (BH1, BH2 and BH3S) installed as part of previous investigations) were

developed before any use to allow for groundwater level monitoring, hydraulic conductivity testing, and to assess groundwater quality.

- 3. The surficial geology at the site partially is characterized as "Ice-contact stratified deposits" contains sand, gravel, minor silt and clay and till as well as "Coarse-textured glaciolacustrine deposits" consists of sand, gravel, minor silt and clay, foreshore and basinal deposits. The overburden geology at the site generally consisted of Sand deposits with trace amounts of silt, clay and gravel were encountered beneath the earth fill zone in each borehole and extended to 12.2 mbgs.
- 4. DS measured groundwater levels in monitoring wells installed on August 12th, 2024. The groundwater level in overburden wells ranged from 7.93 to 11.46 mbgs (Elev. 129.24-132.27 masl). The groundwater levels are subject to seasonal fluctuations and may vary in response to changing climate conditions. The groundwater flow direction is expected to be southwesterly towards the tributary Etobicoke Creek located approximately 800 m southwest of the Site.
- 5. A total of three (3) Single Well Response Tests (slug tests) were completed by DS on August 14th, 2024, to estimate hydraulic conductivity (k) for the representative geological units in which the wells were screened. Hydraulic conductivity (k) values were calculated using the Hvorslev method using the AquiferTest® Software. The k-values ranged between 3.34 x 10⁻⁷ m/s to 1.35 x 10⁻⁵ m/s.
- 6. To assess the suitability for discharge of groundwater to the City of Mississauga's Storm Sewers and Peel Region's Sanitary and Storm Sewer system, one (1) unfiltered and one (1) filtered groundwater sample were collected from monitoring wells BH1 and BH24-5 on August 14th, 2024, and August 5th, 2025. The reported analytical results for both the samples sample indicate that all the parameters met the City of Mississauga and Peel Region's Storm Sewer-Use By-Law except for Total Suspended Solid (TSS). All parameters met the Peel Region's Sanitary Sewer Use By-Law. Therefore, water cannot be discharged to the City/Region's storm sewers without pre-treatment. Water can be discharged into Region's sanitary sewers without pre-treatment.
- 7. The total estimated short-term dewatering rate for the proposed development with P2 level considering the unsealed excavation method is 119,000 L/day (119 m³/day). This estimated conservative value incorporates a safety factor of x2 and a theoretical 10 mm storm event per day estimated at 49,000 L/day into the open excavation during construction. It is important to note that if the excavation exceeds P2, due to the heterogeneous nature of the soils and the presence of sandy units at the site, DS recommends conducting a 24-hour pumping test. This test will provide a more accurate assessment of the aquifer parameters, including transmissivity and storativity, and allow for a more precise estimation of the expected dewatering rates.
- 8. 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 flow would expect to be 25,300 L/day (25.3 m³/day). However, if a safety

factor x1.5 is included, a conservative permanent flow of 37,950 L/day (37.95 m³/day) will be needed to be pumped into the sewer system to manage any unforeseen groundwater issues in the future.

- 9. Since the expected design dewatering rate for the unsealed excavation is between the MECP's daily water-taking limit of 50,000 and 400,000 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 lower than the MECP's minimum pumping limit of 50,000 L/day, a permit to take water (PTTW) application is not required to be submitted to the MECP permanently.
- 10. There are structures and utilities (structures, buildings, sewers roads, etc.) expected within the predicted zone of influence, which is estimated at 53 meters from the center of the excavation when considering an unsealed excavation. There may be a possibility of settlement within the zone of influence due to the presence of water-bearing sand and gravely deposits. DS recommends consulting geotechnical consultants to access potential settlement due to any dewatering activities at the Site during construction.
- 11. 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.
- 12. 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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Month. Code

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Figure 2 Surficial Geology Map

Figure 3 Borehole and Monitoring Well Location Plan

Figure 4 Geological Cross-Section Along A-A'

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Appendix A Borehole Logs

Appendix B Hydraulic Conductivity Analysis

Appendix C Groundwater Quality Certificate of Analysis

Appendix D MECP Water Wells Records

1.0 INTRODUCTION

DS Consultants Limited (DS) was retained by 1470 Williamsport Holdings Inc. to complete a hydrogeological investigation for the proposed development at 1470 Williamsport Drive in the City of Mississauga (hereinafter referred to as the Site). The site is an approximate 5,800 m² parcel of land located approximately 100 meters south of the intersection of Williamsport Drive and Havenwood Drive and currently occupied with a mid-rise residential building with associated paved parking lot. DS understands that the existing structures will be demolished, and the proposed development includes the construction of two (2) 12-storey mid-rise building with two (2) levels of underground parking (P2). **Figure 1** presents the site location map that highlights the location of the site and the surrounding area.

The average ground elevation at the site is approximately 139 meters above sea level (masl). Based on the architectural drawings provided to DS (BDP, Quadrangle issued on June 7, 2024), it's assumed that the finished floor elevation of P2 would be 7 meters below ground surface (mbgs) or an approximate elevation of 132 masl. The assumed finished floor elevation of P2 considering the footings and elevator shaft would be approximately 9 mbgs (approx. Elev: 130 masl).

This hydrogeological investigation includes an overview of the existing geological and hydrogeological conditions at the Site and the surrounding area, an assessment of the hydrogeological constraints, and impacts of the proposed development on the local groundwater and provides an estimation of construction dewatering and permanent drainage requirements during the proposed development phase. This investigation is based on monitoring wells that were installed by other consultants in support of the geotechnical, and hydrogeological investigations at the site in May 2022.

The hydrogeological investigation report has been prepared in general accordance with the Ontario Water Resource Act (OWRA), the Ontario Water Taking Regulation (O.Reg.387/04), the City of Mississauga Sewers By-law (Storm Sewer Discharge, By-Law 0046-2022) and Peel Region Sewer Use By-Law (Sanitary Sewer Discharge By-Law 53-2010). If needed, the results of this investigation can be used in support of an application for a Category 3 Permit to Take Water (PTTW) or 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 the City of Mississauga/Peel Region.

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 on Site;
- 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
- Asses permanent drainage requirements; and
- Assess groundwater quality to identify potential adverse impacts to City of Mississauga/Peel Region's sewer system.

1.2 Scope of Work

The scope of work for this investigation included:

- Site visits;
- Collecting and interpreting available reports and data including the MECP Water Well Records (WWR), geotechnical, hydrogeological, and environmental studies completed at the Site;
- In-situ hydraulic conductivity testing of monitoring wells;
- Estimation of temporary groundwater flow rate during the construction;
- Estimation of long-term or permanent discharge rate after the construction;
- Assessing groundwater quantity and quality to evaluate discharge options;
- Assessing potential impacts due to dewatering activities; and,
- Data analyses and report preparation.

2.0 FIELDWORK

- On August 9, 2024, DS drilled five (5) boreholes (BH24-1 through BH24-5) at the site as part of the concurrent hydrogeological and environmental investigations. The boreholes were advanced to a depth ranging from 2.1 to 9.8 mbgs. One (1) of the drilled boreholes (BH24-5) was equipped with a 50 mm dia monitoring well to a depth ranging from 6.7 to 9.7 mbgs. All monitoring wells (including three (3) monitoring well (BH1, BH2 and BH3S) installed as part of previous investigations) 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, one (1) filtered sample were also collected and analyzed for the parameters listed under the City of Mississauga/Peel Region Sewers By-law (By-Law 0046-

2022 and 53-2010, Sewers) to assess groundwater quality. The borehole (BH) and monitoring well (MW) location plan is shown in **Figure 3**.

3.0 PHYSICAL SETTING

Available topographic maps and environmental, geotechnical and hydrogeological reports were used to develop an understanding of the physical setting of the study area. Borehole logs and the Ministry of the Environment, Conservation and Parks Water Wells Records (MECP WWRs) 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 flat with an average surface elevation of 139 masl. The topography within the study area slopes to the northeast towards Etobicoke Creek located about 1.3 km northeast of the site and to the southwest towards a tributary of Etobicoke Creek located about 800 m southwest of the site. Drainage is controlled by underground utilities. There are no surface water features at the site.

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 Till Plains (Drumlinized) physiographic region of southern Ontario and the quaternary geology of the Site is characterized by Halton Till predominantly silt to silty clay matrix, high in matrix carbonate content and clast poor deposits of Pleistocene. The surficial geology at the site partially is characterized as "Ice-contact stratified deposits" contains sand, gravel, minor silt and clay and till as well as "Coarse-textured glaciolacustrine deposits" consists of sand, gravel, minor silt and clay, foreshore and basinal deposits. 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. Bedrock was encountered during previous investigation at the depth of 12.2 mbgs.

3.2.3 Site Geology

On-site subsurface soil conditions were summarised from the subsurface geotechnical site investigation at the site by DS, other consultant and the MECP water wells records. Detailed subsurface conditions are presented in **Figure 4** and the borehole logs are in **Appendix A**. The subsurface conditions in the boreholes are summarized in the following paragraphs.

<u>Surficial Layers:</u> A topsoil layer was encountered in Boreholes 1, 3D and 3S. The topsoil thickness ranged from 75 to 200 mm.

Asphalt pavement structure, consisting of 90 mm thick asphaltic concrete underlain by 100 mm thick course granular base was encountered at the ground surface in Borehole 2.

<u>Fill materials:</u> consisting of sandy silt to silty sand, with trace amounts of clay, gravel and organics were encountered beneath the topsoil layer (Boreholes 1, 3D and 3S) or below the pavement structure (Borehole 2) and extended to about 2.3 and 2.5 mbgs.

<u>Sand</u>: Sand deposits with trace amounts of silt, clay and gravel were encountered beneath the earth fill zone in each borehole and extended to 12.2 mbgs. Silty sand deposit with trace amount of gravel/rock fragments was encountered beneath the sand layer in Borehole 3D and extended to the full depth of investigation.

<u>Inferred Bedrock:</u> The till-shale complex/weathered shale was identified in each borehole at a depth of 12.2 mbgs.

3.3 Hydrogeology

The hydrogeology at the development site was evaluated using the on-site monitoring wells installed by other consultants, DS and water well record (WWR) database.

3.3.1 Local Groundwater Use

As part of the hydrogeological study, DS completed a search of the Ministry of the Environment, Conservation and Parks (MECP) Water Well Records (WWR) database. Based on the MECP water well records search, there are nineteen (19) water wells within 500 meters of the development site (**Appendix D**). No water well is noted as a water supply well (domestic, irrigation, industrial). All wells are noted as test holes, monitoring wells, not in use or unknown. **Figure 1** shows the MECP water well location plan. The study area is serviced with municipal water and therefore, no groundwater users are expected in the area.

3.3.2 Groundwater Conditions

DS measured groundwater levels in installed monitoring wells on August 12th, 2024. **Table 3-1** presents the groundwater levels in all monitoring wells. The groundwater level in overburden wells ranged from 7.93 to 11.46 mbgs (Elev. 129.24-132.27 masl). The groundwater levels are subject to seasonal

fluctuations and may vary in response to changing climate conditions. The groundwater flow direction is expected to be southwesterly towards the tributary Etobicoke Creek located approximately 800 m southwest of the Site.

			August	: 12,2024
Well ID	Ground Elevation (masl)	Screened Interval (mbgs)	Depth to Water (mbgs)	Groundwater Elevation (masl)
BH1	140.7	9.2-12.2	11.46	129.24
BH2	139.7	9.2-12.2	9.44	130.26
BH3s	139.2	1.6-4.6	Dry	-
BH24-5	139.2	6.7-9.7	7.93	131.27

Table 3-1: Groundwater Levels in Monitoring Wells

3.3.3 Hydraulic Conductivity

A total of three (3) Single Well Response Tests (slug tests) were completed by DS on August 14th, 2024, 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 3.34 x 10^{-7} m/s to 1.35×10^{-5} m/s. **Table 3-2** presents the Hydraulic Conductivity (k) values for the representative geological units.

Well ID	Screened Interval (mbgs)	Screened Formation	K-value (m/s)	Geomean value
BH1	9.2-12.2	Sand	1.29 x 10 ⁻⁵	
BH2	9.2-12.2	Sand	1.35 x 10 ⁻⁵	3.87 x 10 ⁻⁶
BH24-5	6.7-9.7	Sand/Silty Sand	3.34 x 10 ⁻⁷	

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

3.3.4 Groundwater Quality

A total of two (2) groundwater samples (unfiltered and filtered) were collected from monitoring well BH1 on August 14th, 2024 and monitoring well BH24-5 on August 5th, 2025 to assess the suitability for discharge of groundwater to the City of Mississauga's Storm Sewers and Peel Region's Sanitary and Storm Sewer system. 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 reported analytical results for both samples indicated that all the parameters met the City of Mississauga and Peel Region's Storm Sewer-Use By-Law except for Total

Suspended Solid (TSS). All parameters met the Peel Region's Sanitary Sewer Use By-Law. Therefore, water cannot be discharged to the City/Region's storm sewers without pre-treatment. Water can be discharge into Region's sanitary sewers without pre-treatment. The exceedances are summarized in **Table 3-3 and 3-4**, and the certificate of analysis is provided in **Appendix C.**

Table 3-3: Parameters in Unfiltered Groundwater Exceeding Peel/Mississauga Sewer Use By-law

Parameter	Unit	Peel Region Sanitary By-Law Criteria	Peel Region/City of Mississauga Storm By-Law Criteria	BH1									
Total Suspended Solid (TSS)	Total Suspended Solid (TSS) mg/L 350 15												
Bold - Exceeds Sanitary Sewer Use by Law Criteria													
<u>Underlined</u> - Exceeds Storm S	Underlined- Exceeds Storm Sewer Use by Law Criteria												

Table 3-4: Parameters in Filtered Groundwater Exceeding City of Mississauga Sewer Use By-law

Parameter	Unit	City of Mississauga Storm By-Law Criteria	BH24-5								
Total Suspended Solid (TSS)	mg/L	15	<u>59</u>								
<u>Underlined</u> - Exceeds Storm Sewer Use by Law Criteria											

4.0 CONSTRUCTION DEWATERING

The proposed development will include the construction of two (2) 12-storey mid-rise buildings with two (2) levels of underground parking (P2). Based on the architectural drawings provided to DS (BDP, Quadrangle issued on June 7, 2024), it's assumed that the finished floor elevation of P2 would be 7 meters below ground surface (mbgs) or an approximate elevation of 132 masl. The assumed finished floor elevation of P2 considering the footings and elevator shaft would be approximately 9 mbgs (approx. Elev: 130 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 129 masl. The unsealed construction excavation method with approximate excavation dimensions of 108 m long and 45 m wide for 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.

Dewatering calculations are based on the assumption that the entire site will be excavated concurrently, as such, dewatering values have to be further refined when details of design and construction sequencing become available.

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 geomean 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.

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

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

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

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

Parameters	P2
K -Hydraulic conductivity (m/s)- geomean K Value	3.87 x 10 ⁻⁶
H-Distance from water level to the bottom of an aquifer (m)	3.3
h -Depth of water in the well while pumping (m)	1
a- length of excavation (m)	108
b- Width of excavation (m)	45
r _e -equivalent radius, where a and b excavation dimensions (m)	39
R _o - re+Radius of the cone of depression	53
Estimated Flow Rate- L/day (without safety factor)	35,000

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 for the entire development and a theoretical 10 mm precipitation event in 24 hours. The total estimated dewatering that might be needed as a result of a 10 mm precipitation event would be approximately 49,000 L/day (49 m³/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 P2 levels would be approximately **119,000 L/day (119 m³/day)**. These values incorporate a safety factor of x2 and account for stormwater as a result of a 10 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

U/G	Flow Rate Q- without a safety factor (L/day)	Flow Rate Q- with a safety factor x2 (L/day)	Storm water (@ 10 mm/24 hrs.) (L/day)	Design Flow Rate Or Total Flow Rate (L/day)
P2	35,000	70,000	49,000	119,000

It is expected that the initial dewatering rate will be higher to remove groundwater within the overburden formation. The dewatering rates are expected to decrease once the target water level is achieved in the excavation footprint as groundwater will have been removed locally from storage resulting in lower seepage rates into the excavation. The maximum flow calculation is intended to provide a conservative value to account for unforeseeable conditions that may arise during construction. Due to the heterogeneous nature of the soils and presence of sandy units at the site, DS recommends conducting a

pumping test for 24 hours to better assess the aquifer parameters (transmissivity and storativity) and more accurately estimate the anticipated dewatering rates. Dewatering values have to be further refined when details design and construction sequencing become available.

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. Based on the assumed design, depth to water and given k-value, the estimated permanent theoretical flow would expect to be 25,300 L/day (25.3 m³/day). However, if a safety factor x1.5 is included, a conservative permanent flow of 37,950 L/day (37.95 m³/day) will be needed to be pumped into the sewer system to manage any unforeseen groundwater issues in the future.

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 between 50,000 L/day and 400,000 L/day. The EASR application is an online registry and should be submitted to the MECP before any construction dewatering. A PTTW is only required to be submitted to the MECP if the taking of groundwater and stormwater for a temporary construction project is more than 400,000 L/day, which is not expected for this proposed development.

Since the expected design dewatering rate for the unsealed excavation is between the MECP's daily water-taking limit of 50,000 and 400,000 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 lower than the MECP's minimum pumping limit of 50,000 L/day, a permit to take water (PTTW) application is not required to be submitted to the MECP permanently.

4.5.2 Discharge Permits (Construction Dewatering and Permanent Drainage)

A Discharge permit will be required from the City of Mississauga/Peel Region if private water is to be sent to the sewer system for short-term discharge.

5.0 POTENTIAL IMPACTS

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

5.1 Local Groundwater Use

The 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 all the parameters met the City of Mississauga Storm Sewer Use By-Law and Peel Region's Storm Sewer-Use By-Law except for Toral Suspended Solid (TSS). All parameters met the Peel Region's Sanitary Sewer Use By-Law. Therefore, water cannot be discharged to the City/Region's storm sewers without pre-treatment. Water can be discharge into Region's sanitary sewers without pre-treatment. Treatment options include but are not limited to settlement and filtration of sediments.

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 53 meters from the center of the excavation when considering an unsealed excavation. There may be a possibility of settlement within the zone of influence due to the presence of water-bearing sand and gravely deposits. DS recommends consulting geotechnical consultants to access potential settlement due to any dewatering activities at the Site during construction.

6.0 MONITORING AND MITIGATION

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

- If 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.
- 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 Mississauga/Peel Region.
- 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 provides in this report reflects DS' judgment in light of the information available at the time of report preparation. This report may not be relied upon by any other person or entity without the written authorization of DS Consultants Ltd. The scope of services performed in the execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or reuse of this documents or findings, conclusions, and recommendations represented herein, is at the sole risk of said users. The conclusions drawn from the 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.

Prepared By:

Reviewed By:

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

Martin Gedeon, M.Sc., P.Geo. Senior Hydrogeologist

Mati. Cedia

8.0 CONSULTANT QUALIFICATIONS

Martin Gedeon, M.Sc., P.Geo., is a Professional Geoscientist (P.Geo.) with over 28 years of experience as an environmental/hydrogeological consultant in the areas of groundwater and soil monitoring, environmental site assessments, environmental due diligence, and remediation. Martin has significant experience in physical and contaminant hydrogeology across Canada and overseas and has provided hydrogeological/environmental technical support on various projects. Martin has prepared hundreds of hydrogeological reports in support of permit applications for a private sector development application, municipal dewatering operations, and provincial infrastructure projects across the province.

Meysam Jafari, M.Sc., P.Geo., is a Professional Geoscientist (P.Geo.) with DS Consultants Ltd. Meysam holds two master degrees in Engineering Geology and Geology (Soil & Groundwater) and has several years of experience working in the geoscience industry. Meysam has experience with conducting Phase One and Phase Two Environmental Site Assessments, hydrogeological and geotechnical investigations in the Greater Toronto Area (GTA), and has been involved with project management, field assessments, data interpretation and reporting.

9.0 REFERENCES

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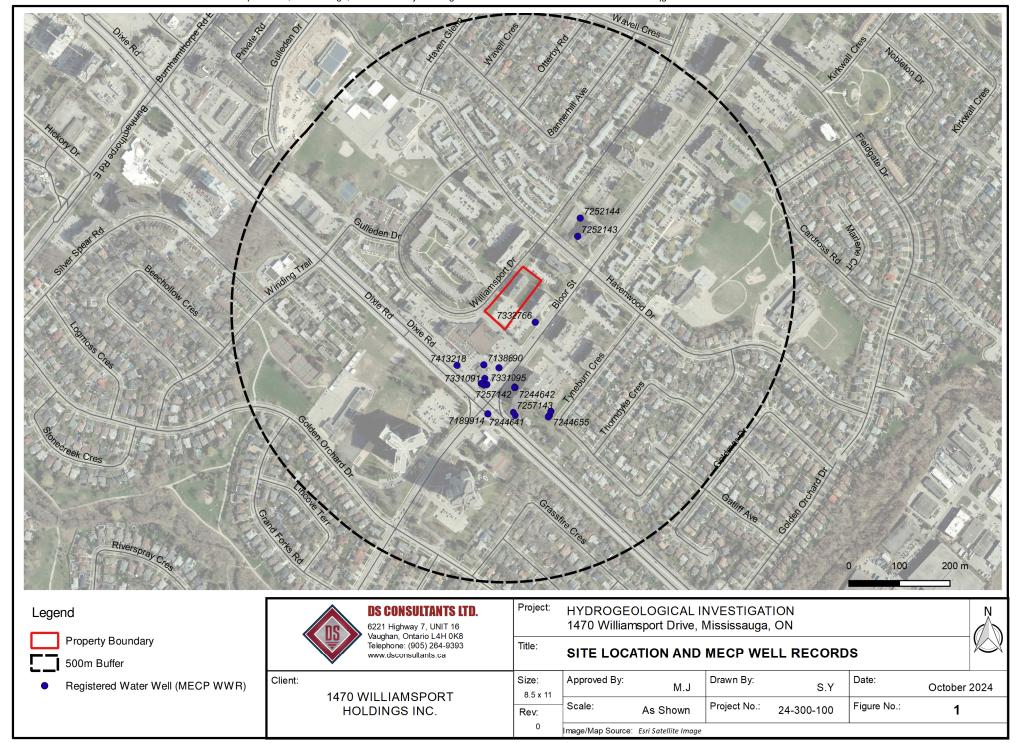
Ontario Regulation 153/04 made under the Environmental Protection Act, July 1, 2011.

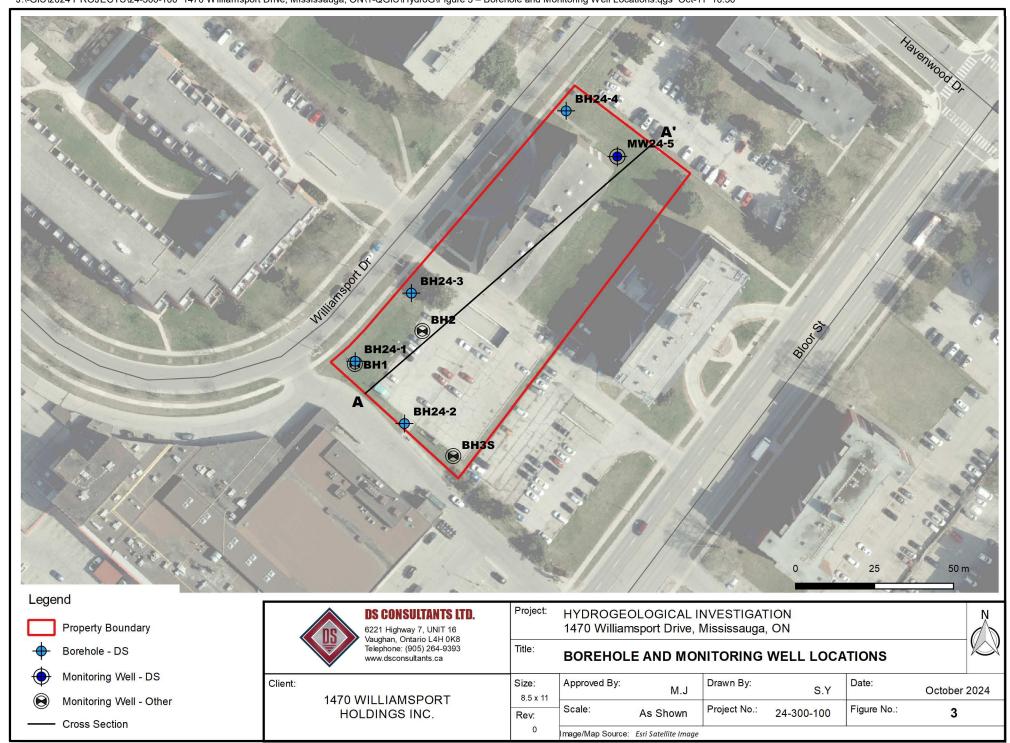
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Powers, J. Patrick, P.E. (1992); Construction Dewatering: New Methods and Applications - Second Edition, New York: John Wiley & Sons.

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

Figures





8.5 x 11

Scale:

Rev.

1470 WILLIAMSPORT

HOLDINGS INC.

M.J

As Shown

Project No:

Figure No.

24-300-100

4

Appendices

Project: 24-300-100 – Hydrogeological Investigation	
1470 Williamsport Holdings Inc - 1470 Williamsport Drive Mississauga	ΟN

Appendix A: Borehole Logs



PROJECT: Williamsport Phase Two ESA

CLIENT: 1470 Williamsport Holdings Inc.

PROJECT LOCATION: 1470 Williamsport Drive, Mississauga, ON

DATUM: Geodetic

DRILLING DATA

Method: Hollow Stem Auger / Mud Rotary

Diameter: 150 mm REF. NO.: 24-300-100

Date: Aug/09/2024 to Aug/09/2024

ENCL NO.: 1

	IM: Geodetic							Date:	Aug/	09/20	24 t	o Au	g/09/.	2024				EN	CL NO	J.: 1		
BHLC	DCATION: N 4830460 E 613408		_												_						_	
	SOIL PROFILE		S	AMPL	.ES					Head	l Sp	ace \	√apc	ors		PI AST	IC NAT	URAL	LIQUID		5	REMARKS
(m) ELEV DEPTH	DESCRIPTION	STRATA PLOT	3ER		BLOWS 0.3 m	GROUND WATER CONDITIONS	ELEVATION		PII (ppr) n) 1 _		•	CG (ppr			W _P		w 0	LIMIT W _L	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	AND GRAIN SIZE DISTRIBUTION (%)
139.8		STR	NUMBER	TYPE	ž	GRO	ELEV	10	20	30 40		10	20	30 4	0		TER CO		T (%) 30		≥	GR SA SI CL
13 9. 0 - 0.1	TOPSOIL: 106mm FILL: silty sand, trace gravel, trace organic, brown, loose, moist	\(\frac{1}{2}\)	1	SS				-			•											
139.0							139															
- 0.8 - - - - - 138.3	FILL: silty sand, trace gravel, trace rock fragments, brownish grey, moist, very dense		2	SS																		
- 1.5 - - - - - 2	FILL: silty sand, trace gravel, cobble/boulder, trace clay, brown, moist, very dense		3	SS			138	-			•											
137.5 - 2.3 - - -	SAND: trace gravel, trace clay, trace silt, brown, moist, dense		4	SS			137	-			•											
- - - -			5	SS				-														
- 136.1	END OF BOREHOLE:																					

DS ENVIRO 0~50 PPM-2021 24-300-100 ENV.GPJ DS.GDT 10/7/24



PROJECT: Williamsport Phase Two ESA

CLIENT: 1470 Williamsport Holdings Inc.

PROJECT LOCATION: 1470 Williamsport Drive, Mississauga, ON

DATUM: Geodetic

DRILLING DATA

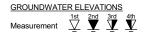
Method: Hollow Stem Auger / Mud Rotary

Diameter: 150 mm REF. NO.: 24-300-100

ENCL NO.: 2

Date: Aug/09/2024 to Aug/09/2024

SAND: TROPICE SAND: TROPIC		SOIL PROFILE		S	AMPL	ES	<u>بر</u>					ad S	Spac T				PLASTI	C NAT	URAL	LIQUIE	_	WT	REMAR	
139.0 TOPSOIL: 106mm FILL: silty sand, trace gravel, trace organic, brown, noist, compact 1 SS 138	ELEV	DESCRIPTION	ATA PLOT	BER	111	BLOWS 0.3 m	UND WATE	/ATION		(pp	m)	- X		(ppm	1)	W _P		w 0	WL	POCKET PEN (Cu) (kPa)	ATURAL UNIT (kN/m³)	GRAIN S DISTRIBU (%)	SIZ JTI
138.5 138.5 138.5 137.8 137.0 2.3 SAND: trace silt, brown, native, moist, compact 2 SS 137.0 2.3 SAND: trace silt, trace gravel, brown, native, moist, compact 4 SS 138.6 3.7 END OF BOREHOLE: 1 SS 138 138 138 138 138 138 138 138 138 138	139.3			NON	TYP	þ	GRC	ELE	10	20	30	40	1	10 2	20 3	0 40						z		SI
137.8 1.5 SAND: trace silt, brown, native, moist, compact 2 SS 137.0 2.3 SAND: trace silt, trace gravel, brown, native, moist, compact 4 SS 136 3.7 END OF BOREHOLE: SSWitched mud rotar	13 9.9 0.1	TOPSOIL: 106mm FILL: silty sand, trace gravel, trace organic, brown, loose, moist		1	SS			139	- 9 -															
137.8 1.5 SAND: trace silt, brown, native, moist, compact 3 SS 137.0 2.3 SAND: trace silt, trace gravel, brown, native, moist, compact 4 SS 5 SS 136 3.7 END OF BOREHOLE: Switched mud rotar	0.8	FILL: sandy silt, trace gravel, trace organic, brown, moist, compact		2	SS		-	1	-				•											
SAND: trace silt, trace gravel, brown, native, moist, compact 4 SS 136 5 SS 136 3.7 END OF BOREHOLE: Switched mud rotar	1.5	SAND: trace silt, brown, native, moist, compact		3	SS				- - - -															
brown, native, moist, compact 4 SS 136 5 SS 137 END OF BOREHOLE: Switched mud rotar	137.0	SAND: trace silt, trace gravel,						137	-	_														
135.6 3.7 END OF BOREHOLE: Switched mud rotar		brown, native, moist, compact		4	SS				-															
3.7 END OF BOREHOLE: Switched mud rotar				5	SS		_	136	- - -				•											
Switched mud rotar		END OF DODELIOLE							-				<u> </u>											_
																							mud rota	to t





PROJECT: Williamsport Phase Two ESA

CLIENT: 1470 Williamsport Holdings Inc.

PROJECT LOCATION: 1470 Williamsport Drive, Mississauga, ON

DATUM: Geodetic

DRILLING DATA

Method: Hollow Stem Auger / Mud Rotary

Diameter: 150 mm REF. NO.: 24-300-100

Date: Aug/09/2024 to Aug/09/2024 ENCL NO.: 3

DESCRIPTION COLUMB W. W. COLUMB W. COLUMB	139.6 TOPSOIL: 127mm 130.6 TOPSOIL: 127mm 130.6 TOPSOIL: 127mm 130.6 TOPSOIL: 127mm 130.6 TOPSOIL: 127mm 130.7 TILL: silly sand, trace gravel, trace clay, brown, moist 1 SS 138.9 139 1	SOIL PROFILE	SAMPLES	Soil Head Spa	ace Vapors	LASTIC NATURAL LIQUID	REMARKS
139.7 TOPSOIL: 127mm TOPSOIL: 127mm TOPSOIL: 127mm FILL: silty sand, trace gravel, trace organic, brown, loose, moist 1 SS	139.7 139.9 TOPSOIL: 127mm 17.1 17	DESCRIPTION DESCRIPTION WABER	PE BLOWS 0.3 m COUND WATER	EVATION (ppm) PID (ppm)	(ppm) w _i	MIT MOISTURE LIMIT Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	(KPa) (UD) (KPa) (WA) (WA) (WA) (WA) (WA) (WA) (WA) (WA
FILL: silty sand, trace gravel, trace organic, brown, loose, moist 1 SS 138.9 0.8 FILL: silty sand, trace gravel, trace clay, brown, moist 2 SS 138.2 1.5 FILL: silty sand, trace gravel, trace clay, trace concrete fragments, trace organic, brown, moist 3 SS 138 139 139 139 138 138 138 138	FILL: silty sand, trace gravel, trace organic, brown, loose, moist 1 SS 138.9 0.8 FILL: silty sand, trace gravel, trace clay, brown, moist 2 SS 138.2 1.5 FILL: silty sand, trace gravel, trace clay, trace concrete fragments, trace organic, brown, moist 3 SS 138 139 139 139 139 138 138 138		<u>}</u>	8 급 10 20 30 40	10 20 30 40	10 20 30	GR SA SI
138.2 1.5 FILL: silty sand, trace gravel, trace clay, brown, moist 2 SS 138.2 1.5 FILL: silty sand, trace gravel, trace clay, trace concrete fragments, trace organic, brown, moist 4 SS 137.0 2.7 TILL: silty sand till, trace gravel, trace clay, brown, very moist 5 SS	Till: silty sand, trace gravel, trace clay, brown, moist 2 SS 138.2 1.5 Fill: silty sand, trace gravel, trace clay, trace concrete fragments, trace organic, brown, moist 3 SS 137 137.0 2.7 Till: silty sand till, trace gravel, trace gravel, trace clay, brown, very moist 5 SS		SS		,		
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2.7 TILL: silty sand till, trace gravel, trace clay, brown, very moist 5 SS	2.7 TILL: silty sand till, trace gravel, trace clay, brown, very moist 5 SS	ace concrete fragments, trace 💢	SS	138			
5 SS 136.0	5 SS 136.0		SS	137			
136.0 3.7 END OF BOREHOLE:	3.7 END OF BOREHOLE:		SS				
3.7 END OF BOREHOLE:	3.7 END OF BOREHOLE:	<i>///</i> a		126			





PROJECT: Williamsport Phase Two ESA

CLIENT: 1470 Williamsport Holdings Inc.

PROJECT LOCATION: 1470 Williamsport Drive, Mississauga, ON

DATUM: Geodetic

DRILLING DATA

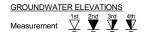
Method: Hollow Stem Auger / Mud Rotary

Diameter: 150 mm REF. NO.: 24-300-100

ENCL NO.: 4

Date: Aug/09/2024 to Aug/09/2024

	SOIL PROFILE		s	AMPL	.ES	۳_					ad S	pac					PLASTI	NATI	URAL	LIQUID		MΤ	REMARKS
(m) ELEV DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	Е	BLOWS 0.3 m	GROUND WATER CONDITIONS	ELEVATION		P (p)	ID om)	-		(1	CGE ppm ≥•)	L	W _P		TENT W O O O O O O O O O O O O	LIMIT W _L	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	AND GRAIN SIZE DISTRIBUTIO (%)
138.0		STR	NON	TYPE	þ	GRC	ELE	1	0 20	30	40	1	0 2	0 30	0 40		10			30		_	GR SA SI
13 0.0	TOPSOIL: 106mm FILL: silty sand, trace gravel, trace organic, trace clay, brown, moist, loose	31/2 X	1	SS			2					•											
1			2	SS			137					•											
136.5 1.5 ² 135.9	TILL: sandy silt till, trace gravel, trace clay, brown, moist		3	SS			136					•											



GRAPH NOTES + 3 , imes 3 : Numbers refer to Sensitivity



PROJECT: Williamsport Phase Two ESA

CLIENT: 1470 Williamsport Holdings Inc.

PROJECT LOCATION: 1470 Williamsport Drive, Mississauga, ON

DATUM: Geodetic

DRILLING DATA

Method: Hollow Stem Auger / Mud Rotary

Diameter: 150 mm REF. NO.: 24-300-100

ENCL NO.: 5

Date: Aug/09/2024 to Aug/09/2024

BH LOCATION: N 4830524 E 613491

DESCRIPTION TOPSOIL: 152mm	STRATA PLOT				IΨ	1		Р	ID		- 1			CGE		- 1	LIMIT	000	TENT	LIQUIE	Μœ	Ė	AND
	12	NUMBER	TYPE	"N" BLOWS 0.3 m	GROUND WATER CONDITIONS	ELEVATION	10	(pr	pm) ≥ ■	_		10	•	ppm	n)			TER C	w O—— ONTEN 20	W _L	POCKET F (Cu) (kPa	NATURAL UNIT WT (kN/m³)	GRAIN SIZE DISTRIBUTION (%)
	11/2	Z	-	F	0 0	-	+		30	+0	\dashv	-1	<i>J</i> 2	.0 3	-	_			20	1			GR SA SI
FILL: silty sand, trace gravel, trace organic, brown, moist		1	SS			139					•	,											
FILL: silty clay, trace sand, trace silt, trace fragmented rock, trace gravel, trace organics, brown, moist		2	SS			138	1				•	,											
FILL: silty sand, trace gravel, trace clay, brown, moist		3	SS			 	-				•	,											
SILTY SAND: silty sand, trace clay, trace gravel, brown, moist		4	SS			137	<u> </u>					,											
						ŀ																	
SILTY SAND TILL: silty sand till, trace clay, trace gravel, brown, moist		5	SS			136					•	>											
SANDY SILT: candy silt brown							-																
moist		6	SS			135 - 134	-					•											
SANDY SILT: sandy silt, trace gravel, silt layer, brown, moist						133	-																
		. 7	SS			132	-					,											
SILTY CLAY TILL: silty clay till, trace gravel, trace sand, grey, very moist		8	SS			131	-					,											
SILTY SAND: silty sand, grey, wet		9	SS			130	-					,											
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Continued Next Page





PROJECT: Williamsport Phase Two ESA

CLIENT: 1470 Williamsport Holdings Inc.

PROJECT LOCATION: 1470 Williamsport Drive, Mississauga, ON

DATUM: Geodetic

DRILLING DATA

Method: Hollow Stem Auger / Mud Rotary

Diameter: 150 mm REF. NO.: 24-300-100

ENCL NO.: 5

Date: Aug/09/2024 to Aug/09/2024

BH LOCATION: N 4830524 E 613491

	SOIL PROFILE		S	AMPL	E9	œ			il H	ead	Sp	ace				_	PLAST	IC NA	TURAL	LIQUIE		¥	RE	MAR	
(m)		LOT			<u>ي</u> ا د	GROUND WATER CONDITIONS	z	P (p)	PID pm))			C (p	GD pm))		LIMIT W _P	COI	STURE NTENT W	LIQUIE LIMI	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	GRA	AND AIN S	SIZ
EPTH	DESCRIPTION	TA PI	3ER		BLOWS 0.3 m	JND V	ATIOI		> ▼			4	•	>			-		-		Cu) (Cu)	TURAL	DIST	RIBU (%)	
		STRATA PLOT	NUMBER	TYPE	Į.	GROL	ELEVATION	20	30	- ■ 40					• 40 0 40					NT (%) 30	-	≱	GR S		
	Notes: - Well installed at 9.8 m																								
	- Well installed at 5.5 m																								
- 1							1														1	I			



GRAPH NOTES $+3, \times^3$: Numbers refer to Sensitivity



Project No. : 1-21-0802-01 Client : 1470 Williamsport Holdings Inc Originated by : BR

Date started : January 7, 2022 Project : 1470 Williamsport Drive Compiled by : HR

Sheet No. : 1 of 2 Location : Mississauga, Ontario Checked by : AR

		E: 613408, N: 4830459 (UTM 17T) : Truck-mounted					on Datui Method		olid st		jers									
Oepth Scale (m)	Elev Depth (m) 140.7	SOIL PROFILE Description GROUND SURFACE	Graphic Log	Number	Type Type	SPT 'N' Value	Elevation Scale (m)	X Dy 1 Undrai O U	ned She Inconfine Pocket Per	ne 0 3 ar Stren	0 4 gth (kPa + Fie r ■ Lal	ld Vane Vane	Plast Limit	ic Nate	\rightarrow	Liquid Limit Limit	Headspace Vapour (ppm)	Instrument Details	Unstabilized Water Level	Lab Data and Comments GRAIN SIZE DISTRIBUTION (' (MIT) GR SA SI
U		150mm TOPSOIL FILL, sandy silt to silty sand, trace clay, trace gravel, trace organics, trace construction debris, compact to very dense, dark brown to brown, moist	<u></u>	1	SS	24	140 –			/				0						
1		dense, dank blown to blown, most		2	、SS _	50 / (75mm)	-				/	>			0					
2				3	SS	20	139 –			\langle				0						
	138.4 2.3	SAND, trace silt, trace clay, very dense, brown, moist		4	SS	66	138 –						0							
3				5	SS	61	-						0							
4							137 –													
5				6	SS	52	136 -						0							
							135 –													
6		trace gravel		7	SS	84	134 –						0							
7							-													
8				8	SS	50 / 150mm	133 -						0							
9							132 –													
9		trace gravel		9	SS	81	-						0							
10							131 –													



Project No. : 1-21-0802-01 Client : 1470 Williamsport Holdings Inc Originated by : BR

Date started : January 7, 2022 Project : 1470 Williamsport Drive Compiled by: HR

Sheet No. : 2 of 2 Location: Mississauga, Ontario Checked by : AR

Position : E: 613408, N: 4830459 (UTM 17T) Elevation Datum : Geodetic

Drilling Method : Solid stem augers Rig type : Truck-mounted

Ê		SOIL PROFILE		5	SAMPL		e	Penetration Test Values (Blows / 0.3m)	Moisture / Plasticity	Φ	+=	Lab Data
Depth Scale (m)	Elev Depth (m)	Description (continued)	Graphic Log	Number	Туре	SPT 'N' Value	Elevation Scale (m)	X Dynamic Cone 10 20 30 40 Undrained Shear Strength (kPa) ○ Unconfined + Field Vane ● Pocket Penetrometer ■ Lab Vane 40 80 120 160	Plastic Natural Liquid Limit Water Content Limit PL MC LL PL MC LL 10 20 30	Headspace Vapour (ppm)	Instrument Details	pand Comments Mater Fever GRAIN SIZE DISTRIBUTION (%) (MIT) GR SA SI CL
-		SAND , trace silt, trace clay, very dense, brown, moist (continued)					-					⊻
– 11		wet		10	SS	61	130 -		0			
-12	128.5 128.4 12.3	Internal hadron true athered to posicily	×/	11	SS	50 /	129 -		0			
	12.3	Interred bedrock, weathered to partially unweathered shale with intermittent limestone/dolostone stringers, grey (GEORGIAN BAY FORMATION)	<u> </u>		- 50	125mm		WATER LI	EVEL READINGS			

END OF BOREHOLE

Unstabilized water level measured at 10.4 m below ground surface; borehole caved to 11.9 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.

WATER LEVEL READINGS
Water Depth (m) Elevation (m)

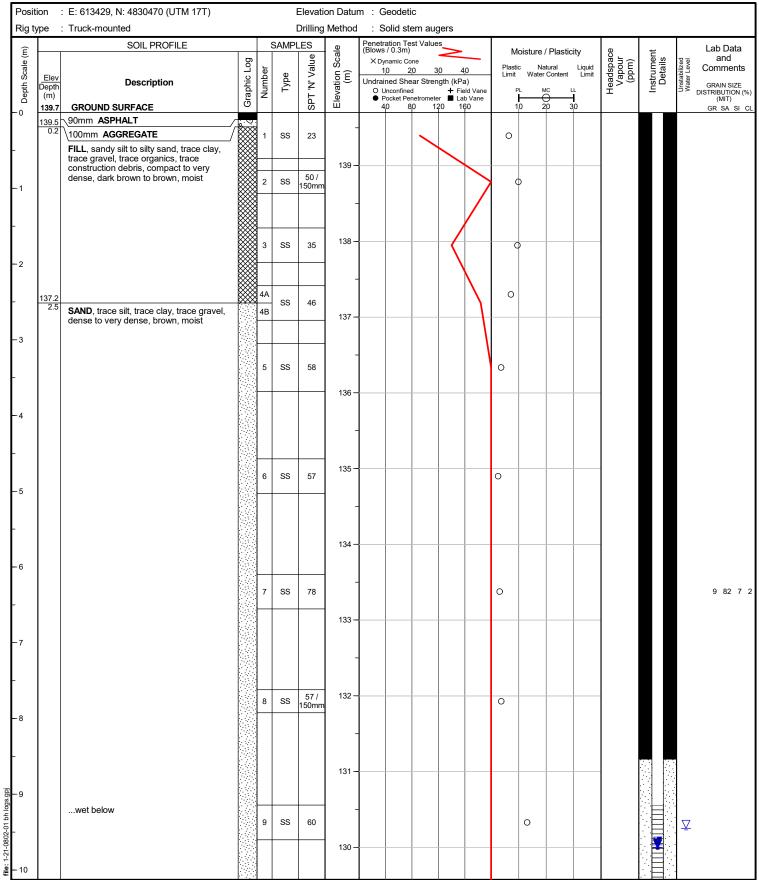
10.7	130.0
10.7	130.0
10.7	130.0
10.7	130.0
	10.7 10.7 10.7



Project No. : 1-21-0802-01 Client : 1470 Williamsport Holdings Inc Originated by : BR

Date started : January 6, 2022 Project : 1470 Williamsport Drive Compiled by : HR

Sheet No. : 1 of 2 Location : Mississauga, Ontario Checked by : AR





Project No. : 1-21-0802-01 Client : 1470 Williamsport Holdings Inc Originated by : BR

Date started : January 6, 2022 Project : 1470 Williamsport Drive Compiled by : HR

Sheet No. : 2 of 2 Location : Mississauga, Ontario Checked by : AR

Position : E: 613429, N: 4830470 (UTM 17T) Elevation Datum : Geodetic

Rig type : Truck-mounted Drilling Method : Solid stem augers

Œ		SOIL PROFILE		;	SAMPL		<u>e</u>	Penetration Test Values (Blows / 0.3m) Moisture / Plasticity Lab Data
Depth Scale (r	Elev Depth (m)	Description (continued)	Graphic Log	Number	Туре	SPT 'N' Value	Elevation Scale (m)	(Blows / 0.3m) X Dynamic Cone 10 20 30 40 Undrained Shear Strength (kPa) O Unconfined Pocket Penetrometer Lab Vane 40 80 120 160 Moisture / Plasticity Plastic Natural Liquid Water Content Limit Water Content Limit Pocket Penetrometer Lab Vane 40 80 120 160 Moisture / Plasticity Water Content Limit Plastic Natural Liquid By Bornard Comments Lab Data And Comments GRAIN SIZE DISTRIBUTION (% (MIT) (MIT) GR SA SI SI C
-		SAND , trace silt, trace clay, trace gravel, dense to very dense, brown, moist (continued)					129 -	
- 11				10	SS	77	129	
-12							128 -	
	127.5 127.4 12.3	Interred bedrock, weathered to partially unweathered shale with intermittent limestone/dolostone stringers	X//	11	SS ,	50 / 75mm	-	WATER LEVEL READINGS

END OF BOREHOLE

Unstabilized water level measured at 9.4 m below ground surface; borehole caved to 11.9 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.

WATER LEVEL READINGS

Date	water Depth (m)	Elevation (m)
Jan 13, 2022	9.7	130.0
Jan 24, 2022	9.7	130.0
Feb 3, 2022	9.7	130.0
Feb 15, 2022	9.7	130.0



Project No. : 1-21-0802-01 Client : 1470 Williamsport Holdings Inc Originated by : BR

Date started : January 6, 2022 Project : 1470 Williamsport Drive Compiled by : HR

Sheet No. : 1 of 2 Location : Mississauga, Ontario Checked by : AR

		: E: 613437, N: 4830430 (UTM 17T)					on Datu											
Rig t	уре	: Truck-mounted					Method			em aug								
T O Depth Scale (m)	Elev Depth (m) 139.2	SOIL PROFILE Description GROUND SURFACE	Graphic Log	Number	SAMPI Lype	SPT 'N' Value	Elevation Scale (m)	X Dyi 1 Undrair O U	namic Co 0 2 ned She inconfined ocket Per	0 3 ar Stren	0 4 gth (kPa + Fie	eld Vane b Vane	Mo Plastic Limit P	Water Co	Headspace Vapour (ppm)	Instrument Details	Unstabilized Water Level	Lab Data and Comments GRAIN SIZE DISTRIBUTION (%) (MIT) GR SA SI CL
-0		75mm TOPSOIL FILL, sandy silt to silty sand, trace clay, trace gravel, trace organics, trace construction debris, very loose to loose, dark brown to brown, moist		1	SS	4	139 -	\					()				
-1		,		2	SS	7	138 –						0					
-				3	SS	4	-						0					
-2							137 -											
-	136.9 2.3	SAND , trace silt, trace clay, dense to very dense, brown, moist		4	SS	32	-				\		0					
-3		trace gravel		5	SS	42	136 –				_\		0					
-4							135 –											
-		trace gravel		6	SS	47	-						0					
-5 -							134 –											
-6				7	ss	50 /	133 –						0					
-						150mm	-						Ĵ					
-7							132 -											
-8				8	SS	50 / 125mm	-						0					
-							131 –										1	
h logs.gpj - &		wet below					130 -											
file: 1-21-0802-01 bh logs.gpj				9	SS	75	-						0					0 93 6
≝ −10																	:	



Project No. : 1-21-0802-01 Client : 1470 Williamsport Holdings Inc Originated by : BR

Date started : January 6, 2022 Project : 1470 Williamsport Drive Compiled by : HR

Sheet No. : 2 of 2 Location : Mississauga, Ontario Checked by : AR

Position : E: 613437, N: 4830430 (UTM 17T) Elevation Datum : Geodetic

Rig type : Truck-mounted Drilling Method : Solid stem augers

ت ا			_							
Ê		SOIL PROFILE		SAMPL		ale	Penetration Test Values (Blows / 0.3m)	Moisture / Plasticity	9 +=	Lab Data
Depth Scale (m)	Elev Depth (m)	Description :ight continued)	Numb	Туре	SPT 'N' Value	Elevation Sca (m)	X Dynamic Cone	Plastic Natural Liquid Limit Water Content Limit PL MC LL PL MC LL 10 20 30	Headspace Vapour (ppm) Instrument Details	mand and Comments Age of Comments Age of Comments Age of Comments GRAIN SIZE GRAIN SIZE GRAIN SIZE (MIT) GR SA SI CI
		SAND, trace silt, trace clay, dense to very dense, brown, moist (continued)				129 –				
- 11		trace gravel	10	SS	90	128 –		0		
- - 12						-				
	127.0 126.9 12.3	SILTY SAND, trace gravel/rock fragments, very dense, grey, moist	: 11	SS	50 / 125mm	127 –		Φ		

END OF BOREHOLE

Unstabilized water level measured at 9.1 m below ground surface; borehole was open upon completion of drilling.

50 mm dia. monitoring well installed.

WATER LEVEL READINGS Date Water Depth (m) Elevation (m)

Date	<u>vvater Depth (m)</u>	Elevation (m)
Jan 13, 2022	9.4	129.8
Jan 24, 2022	9.4	129.8
Feb 3, 2022	9.4	129.8
Feb 15, 2022	9.4	129.8



LOG OF BOREHOLE 3S

Project No. : 1-21-0802-01 Client : 1470 Williamsport Holdings Inc Originated by : BR

Date started : January 6, 2022 Project : 1470 Williamsport Drive Compiled by : HR

Sheet No. : 1 of 1 Location : Mississauga, Ontario Checked by : AR



ig type : Truck-mounted Drilling Method : Solid stem augers

Rig ty	/pe	: I ruck-mounted				Drilling	Method	: Solid s	tem au	gers							
O Depth Scale (m)	Elev Depth (m) 139.2	SOIL PROFILE Description GROUND SURFACE	Graphic Log	Number	Type Type	SPT 'N' Value	Elevation Scale (m)	Undrained Sh O Unconfin Pocket P	Cone 20 Stren ed enetromet	<u>0 4(</u> ngth (kPa + Fiel) ld Vane Vane	Plastic N Limit Wate	Plasticity atural Later Content MC LL 20 30	_iquid Limit	Headspace Vapour (ppm)	Instrument Details	Lab Data and Comments GRAIN SIZE DISTRIBUTION (%) (MIT) GR SA SI CL
-		75mm TOPSOIL FILL, sandy silt to silty sand, trace clay, trace gravel, trace organics, trace construction debris, very loose to loose, dark brown to brown, moist	/ 💥	1	SS	4	139 -					O					
-1		dan biom to biomi, mod		2	SS	7	138 –					0					
-2				3	SS	4	-					0					
-	136.9 2.3	SAND, trace silt, trace clay, trace gravel, dense to very dense, brown, moist		4	SS	32	137 -					0					
-3		trace gravel		5	SS	42	136 –				\	0					
-4							135 –										
-	134.6 4.6						133-										

END OF BOREHOLE

Borehole was dry and open upon completion of drilling.

50 mm dia. monitoring well installed.

WATER LEVEL READINGS

<u>Date</u>	<u>vvater Depth (m)</u>	Elevation (m)
Jan 13, 2022	dry	n/a
Jan 24, 2022	dry	n/a
Feb 3, 2022	dry	n/a
Feb 15, 2022	dry	n/a

1470 Williamsport Holdings Inc 1470 Williamsport Drive, Mississauga, ON	
Appendix B: Hydraulic Conductivity A	nalysis

Project: 24-300-100 – Hydrogeological Investigation

Slug Test Analysis Report

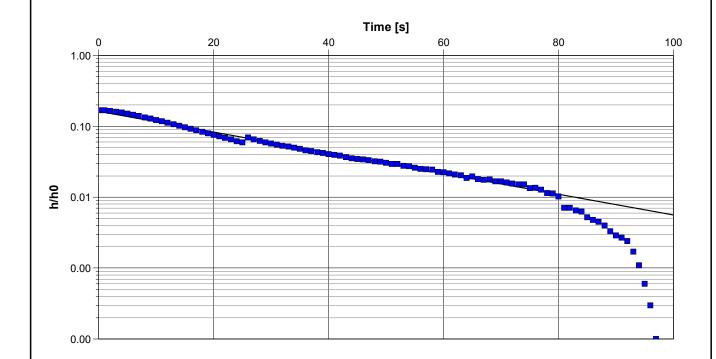
Project: Hydrogeological Investigation

Number: 24-300-100

Client: 1470 Williamsport Holdings Inc.

Location: 1470 Williamsport Dr.Slug Test: BH1Test Well: BH1Test Conducted by: KSTest Date: 8/14/2024Analysis Performed by: MJHvorslevAnalysis Date: 8/20/2024

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity	
	[m/s]	
BH1	1.29 × 10 ⁻⁵	

Slug Test Analysis Report

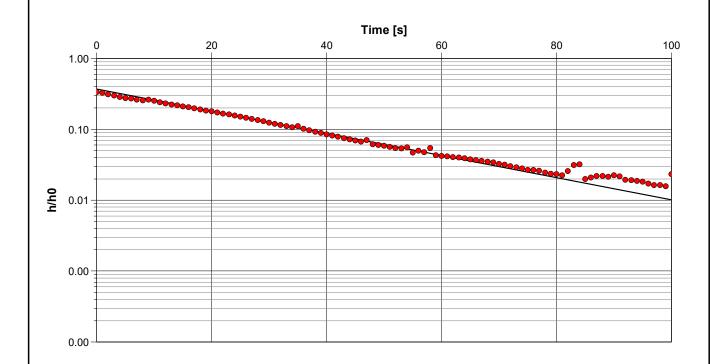
Project: Hydrogeological Investigation

Number: 24-300-100

Client: 1470 Williamsport Holdings Inc.

Location: 1470 Williamsport Dr.Slug Test: BH2Test Well: BH2Test Conducted by: KSTest Date: 8/14/2024Analysis Performed by: MJHvorslevAnalysis Date: 8/20/2024

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity	
	[m/s]	
BH2	1.37 × 10 ⁻⁵	

Slug Test Analysis Report

Project: Hydrogeological Investigation

Number: 24-300-100

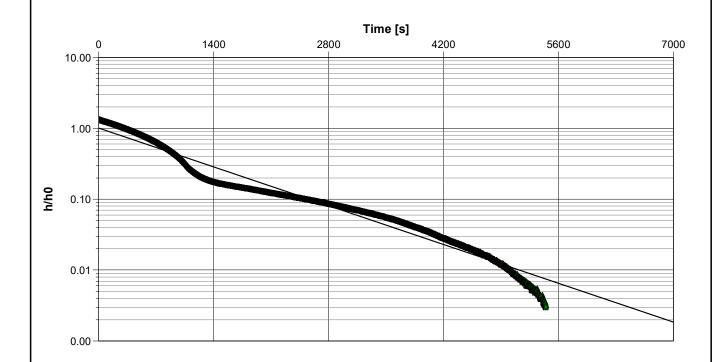
Client: 1470 Williamsport Holdings Inc.

Location: 1470 Williamsport Dr. Slug Test: MW24-5 Test Well: MW24-5

Test Conducted by: CL Test Date: 7/10/2024

Analysis Performed by: MJ Hvorslev Analysis Date: 8/20/2024

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity	
	[m/s]	
MW24-5	3.44 × 10 ⁻⁷	

Project: 24-300-100 – Hydrogeological Investigation	
1470 Williamsport Holdings Inc 1470 Williamsport Drive, Mississauga, ON	

Appendix C: Groundwater Quality Certificate of Analysis







CA40099-AUG24 R1

24-300-100

Prepared for

DS Consultants



First Page

CLIENT DETAIL	S	LABORATORY DETAIL	LS
Client	DS Consultants	Project Specialist	Brad Moore Hon. B.Sc
		Laboratory	SGS Canada Inc.
Address	6221 Highway 7 Unit 16	Address	185 Concession St., Lakefield ON, K0L 2H0
	Vaughan, Ontario		
	L4H 0K8. Canada		
Contact	Meysam Jafari	Telephone	705-652-2143
Telephone	905-264-9393	Facsimile	705-652-6365
Facsimile	905-264-2685	Email	brad.moore@sgs.com
Email	mjafari@dsconsultants.ca	SGS Reference	CA40099-AUG24
Project	24-300-100	Received	08/15/2024
Order Number		Approved	08/22/2024
Samples	Ground Water (1)	Report Number	CA40099-AUG24 R1
		Date Reported	08/22/2024

COMMENTS

RL - SGS Reporting Limit

Temperature of Sample upon Receipt: 8 degrees C

Cooling Agent Present:yes Custody Seal Present:yes

Chain of Custody Number:039366

O&G Tot RLS increased due to sample matrix

O&G Total LCS recovery outside control limits. The overall quality control was assessed to be acceptable

Fluoride dup RPD % high, results within RL

SIGNATORIES

Brad Moore Hon. B.Sc Brad Mod

SGS Canada Inc. 185 Concession St., Lakefield ON, K0L 2H0 t 705-652-2143 f 705-652-6365

> Member of the SGS Group (SGS SA) 1/21

www.sgs.com



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Results	
Exceedance Summary	
QC Summary	
Legend	
Annexes	21



Client: DS Consultants

Project: 24-300-100

Project Manager: Meysam Jafari

MATRIX: WATER			Sample Number	9
			Sample Name	BH1
L1 = SANSEW / WATER / Mississauga Sewer Use ByLaw - St	torm Sewer Discharge	-	Sample Matrix	Ground Water
BL_0046_2022			Sample Date	14/08/2024
Parameter	Units	RL	 L1	Result
General Chemistry				
Biochemical Oxygen Demand (BOD5)	mg/L	2	15	< 4↑
Total Suspended Solids	mg/L	2	15	62
Total Kjeldahl Nitrogen	as N mg/L	0.5		< 0.5
Metals and Inorganics				
Total Chlorine	mg/L	0.02	1	0.03
Fluoride	mg/L	0.06		0.10
Cyanide (total)	mg/L	0.01	0.02	< 0.01
Sulphate	mg/L	2		92
Aluminum (total)	mg/L	0.001	1	0.074
Antimony (total)	mg/L	0.0009		< 0.0009
Arsenic (total)	mg/L	0.0002	0.02	0.0004
Cadmium (total)	mg/L	0.000003	0.008	0.000004
Chromium (total)	mg/L	0.00008	0.08	0.00132
Copper (total)	mg/L	0.001	0.04	< 0.001
Cobalt (total)	mg/L	0.000004		0.000157
Lead (total)	mg/L	0.00009	0.12	0.00020
Manganese (total)	mg/L	0.00001	2	0.00700
Molybdenum (total)	mg/L	0.0004		< 0.0004
Nickel (total)	mg/L	0.0001	0.08	0.0008
Phosphorus (total)	mg/L	0.003	0.4	0.010
Selenium (total)	mg/L	0.00004	0.02	0.00041



Client: DS Consultants

Project: 24-300-100

Project Manager: Meysam Jafari

MATRIX: WATER			Sample Number	9
			Sample Name	BH1
.1 = SANSEW / WATER / Mississauga Sewer Use ByLaw - S	Storm Sewer Discharge	-	Sample Matrix	Ground Water
BL_0046_2022			Sample Date	14/08/2024
Parameter	Units	RL	L1	Result
Metals and Inorganics (continued)	Office	I CL		rtooun
Silver (total)	ma/L	0.00005	0.12	< 0.00005
Tin (total)		0.00006		0.00139
Titanium (total)	mg/L	0.0001		0.0019
Zinc (total)	mg/L	0.002	0.2	< 0.002
Microbiology				
E. Coli	cfu/100mL	0	200	<2↑
Nonylphenol and Ethoxylates			I I	
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
Oil and Grease				
Oil & Grease (total)	mg/L	2		< 4↑
Oil & Grease (animal/vegetable)	mg/L	4		< 4
Oil & Grease (mineral/synthetic)	mg/L	4		< 4

SGS

FINAL REPORT

Client: DS Consultants

Project: 24-300-100

Project Manager: Meysam Jafari

MATRIX: WATER			Sample I	
			Sample	le Name Bl
.1 = SANSEW / WATER / Mississauga Sewer Use ByLaw - S	Storm Sewer Discharge	-	Sample	e Matrix Ground
BL_0046_2022			Somn	ple Date 14/08
Parameter	Units	RL	L1	Re
Other (ORP)				
рН	No unit	0.05	9	7.
Chromium VI	mg/L	0.0002	0.04	0.0
Mercury (total)	mg/L	0.00001	0.0004	< 0.0
PAHs				
Benzo(b+j)fluoranthene	mg/L	0.0001		< 0.0
PCBs				
Polychlorinated Biphenyls (PCBs) - Total	μg/L	0.04	0.4	< 0
Phenois				
4AAP-Phenolics	mg/L	0.002	0.008	0.0
SVOCs				
di-n-Butyl Phthalate	mg/L	0.002		< 0.
Bis(2-ethylhexyl)phthalate	mg/L	0.002		< 0.
PAHs (Total)	mg/L		0.002	< 0.
Perylene	mg/L	0.0005		< 0.0



Pyrene

FINAL REPORT

CA40099-AUG24 R1

Client: DS Consultants

Project: 24-300-100

Project Manager: Meysam Jafari

Samplers: Karim C.

MATRIX: WATER Sample Number 9

0.0001

Sample Name BH1

Sample Matrix Ground Water

L1 = SANSEW / WATER / - - Mississauga Sewer Use ByLaw - Storm Sewer Discharge - BI 0046 2022

			Sampl	e Date 14/08/2024
Parameter	Units	RL	L1	Result
VOCs - PAHs				
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		< 0.0001
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
Phenanthrene	mg/L	0.0001		< 0.0001

< 0.0001



Client: DS Consultants

Project: 24-300-100

Project Manager: Meysam Jafari

Samplers: Karim C.

Sample Number 9 MATRIX: WATER

> Sample Name BH1

Sample Matrix Ground Water

L1 = SANSEW / WATER / - - Mississauga Sewer Use ByLaw - Storm Sewer Discharge -BL_0046_2022

			Sample Date	14/08/2024	
Parameter	Units	RL	L1	Result	
VOCs					
Chloroform	mg/L	0.0005		< 0.0005	
1,2-Dichlorobenzene	mg/L	0.0005	0.0056	< 0.0005	
1,4-Dichlorobenzene	mg/L	0.0005	0.0068	< 0.0005	
cis-1,2-Dichloroethene	mg/L	0.0005		< 0.0005	
trans-1,3-Dichloropropene	mg/L	0.0005		< 0.0005	
Methylene Chloride	mg/L	0.0005		< 0.0005	
1,1,2,2-Tetrachloroethane	mg/L	0.0005	0.017	< 0.0005	
1,1,1,2-Tetrachloroethane	mg/L	0.0005	0.017	< 0.0005	
Methyl ethyl ketone	mg/L	0.02		< 0.02	
Styrene	mg/L	0.0005		< 0.0005	
Tetrachloroethylene (perchloroethylene)	mg/L	0.0005	0.0044	< 0.0005	
Trichloroethylene	mg/L	0.0005	0.0076	< 0.0005	
/OCs - BTEX					
Benzene	mg/L	0.0005	0.002	< 0.0005	
Ethylbenzene	mg/L	0.0005	0.002	< 0.0005	
Toluene	mg/L	0.0005	0.002	< 0.0005	
Xylene (total)	mg/L	0.0005	0.0044	< 0.0005	
m-p-xylene	mg/L	0.0005		< 0.0005	
o-xylene	mg/L	0.0005		< 0.0005	



EXCEEDANCE SUMMARY

					SANSEW / WATER
					/ Mississauga
					Sewer Use ByLaw -
					Storm Sewer
					Discharge -
					BL_0046_2022
	Parameter	Method	Units	Result	L1
BH1					

Total Suspended Solids	SM 2540D	mg/L	62	15
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8/21 20240822



QC SUMMARY

Anions by discrete analyzer

Method: US EPA 375.4 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-026

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	S/Spike Blank		Matrix Spike / Ref.		
	Reference			Blank	RPD	AC	Spike		ery Limits %)	Spike Recovery	Recover	ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Sulphate	DIO8035-AUG24	mg/L	2	<2	0	20	104	80	120	80	75	125

Biochemical Oxygen Demand

Method: SM 5210 | Internal ref.: ME-CA-[ENVIEWL-LAK-AN-007

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	S/Spike Blank		м	atrix Spike / Ref	
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery	Recove	ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Biochemical Oxygen Demand (BOD5)	BOD0027-AUG24	mg/L	2	< 2	1	30	98	70	130	122	70	130

Chlorine

Method: SM 4500 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-008

Parameter	QC batch	Units	RL	Method	Dup	olicate	LC	S/Spike Blank	6/Spike Blank		atrix Spike / Ref.	
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery	Recover	-
						(%)	Recovery (%)	Low	High	(%)	Low	High
Total Chlorine	EWL0329-AUG24	mg/L	0.02	< 0.02	ND	20	100	90	110	NA		

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QC SUMMARY

Cyanide by SFA

Method: SM 4500 | Internal ref.: ME-CA-[ENV]SFA-LAK-AN-005

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	S/Spike Blank		M	latrix Spike / Ref	
	Reference			Blank	RPD	AC	Spike		ery Limits %)	Spike Recovery	Recove	ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Cyanide (total)	SKA0146-AUG24	mg/L	0.01	<0.01	ND	10	101	90	110	NV	75	125

Fluoride by Specific Ion Electrode

Method: SM 4500 | Internal ref.: ME-CA-IENVIEWL-LAK-AN-014

Parameter	QC batch	Units	RL	Method	Duj	olicate	LC	S/Spike Blank		м	atrix Spike / Ref	f.
	Reference			Blank	RPD	AC (M)	Spike		ry Limits %)	Spike Recovery	Recove	ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Fluoride	EWL0335-AUG24	mg/L	0.06	<0.06	11	10	99	90	110	98	75	125

Hexavalent Chromium by SFA

Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-[ENV]SKA-LAK-AN-012

Parameter	QC batch	Units	RL	Method	Duj	olicate	LC	S/Spike Blank	S/Spike Blank		Matrix Spike / Ref	
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery	Recove	ry Limits 6)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Chromium VI	SKA0151-AUG24	mg/L	0.0002	<0.0002	0	20	99	80	120	96	75	125

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QC SUMMARY

Mercury by CVAAS

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

Parameter	QC batch	Units	RL	Method	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.			
Reference	Reference			Blank	RPD	AC	Spike	Recovery Limits (%)		Spike Recovery	Recovery Limits		
						(%)	Recovery (%)	Low	High	(%)	Low	High	
Mercury (total)	EHG0033-AUG24	mg/L	0.00001	< 0.00001	ND	20	102	80	120	91	70	130	

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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	Units	RL	Method	Dup	licate	LC	S/Spike Blank		М	atrix Spike / Re	i.
	Reference			Blank	RPD	AC (%)	Spike Recovery		ry Limits 6)	Spike Recovery		ory Limits %)
						(70)	(%)	Low	High	(%)	Low	High
Silver (total)	EMS0151-AUG24	mg/L	0.00005	<0.00005	15	20	101	90	110	120	70	130
Aluminum (total)	EMS0151-AUG24	mg/L	0.001	<0.001	6	20	104	90	110	109	70	130
Arsenic (total)	EMS0151-AUG24	mg/L	0.0002	<0.0002	18	20	104	90	110	104	70	130
Cadmium (total)	EMS0151-AUG24	mg/L	0.000003	<0.000003	10	20	101	90	110	97	70	130
Cobalt (total)	EMS0151-AUG24	mg/L	0.000004	<0.000004	5	20	104	90	110	101	70	130
Chromium (total)	EMS0151-AUG24	mg/L	0.00008	<0.00008	6	20	104	90	110	111	70	130
Copper (total)	EMS0151-AUG24	mg/L	0.001	<0.001	9	20	105	90	110	100	70	130
Manganese (total)	EMS0151-AUG24	mg/L	0.00001	<0.00001	3	20	104	90	110	100	70	130
Molybdenum (total)	EMS0151-AUG24	mg/L	0.0004	<0.0004	15	20	103	90	110	105	70	130
Nickel (total)	EMS0151-AUG24	mg/L	0.0001	<0.0001	7	20	103	90	110	108	70	130
Lead (total)	EMS0151-AUG24	mg/L	0.00009	<0.00009	10	20	103	90	110	98	70	130
Phosphorus (total)	EMS0151-AUG24	mg/L	0.003	<0.003	ND	20	102	90	110	NV	70	130
Antimony (total)	EMS0151-AUG24	mg/L	0.0009	<0.0009	ND	20	105	90	110	105	70	130
Selenium (total)	EMS0151-AUG24	mg/L	0.00004	<0.00004	ND	20	101	90	110	107	70	130
Tin (total)	EMS0151-AUG24	mg/L	0.00006	<0.00006	18	20	103	90	110	NV	70	130
Titanium (total)	EMS0151-AUG24	mg/L	0.0001	<0.0001	ND	20	103	90	110	NV	70	130
Zinc (total)	EMS0151-AUG24	mg/L	0.002	<0.002	8	20	106	90	110	102	70	130

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QC SUMMARY

Microbiology

Method: SM 9222D | Internal ref.: ME-CA-[ENV]MIC-LAK-AN-006

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		M	atrix Spike / Re	f.
	Reference			Blank	RPD	AC	Spike	Recove	•	Spike Recovery		ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
E. Coli	BAC9276-AUG24	cfu/100mL	-	ACCEPTED	ACCEPTE							
					D							

Nonylphenol and Ethoxylates

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

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		Ma	atrix Spike / Re	ī.
	Reference			Blank	RPD	AC	Spike	Recover	•	Spike Recovery		ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Nonylphenol diethoxylate	GCM0233-AUG24	mg/L	0.01	<0.01			79	55	120			
Nonylphenol monoethoxylate	GCM0233-AUG24	mg/L	0.01	<0.01			81	55	120			
Nonylphenol	GCM0233-AUG24	mg/L	0.001	<0.001			82	55	120			

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QC SUMMARY

Oil & Grease

Method: MOE E3401 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-019

Parameter	QC batch	Units	RL	Method	Dup	olicate	LC	S/Spike Blank		М	atrix Spike / Ref	
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery	Recover	-
						(%)	Recovery (%)	Low	High	(%)	Low	High
Oil & Grease (total)	GCM0237-AUG24	mg/L	2	<2	NSS	20	61	75	125			

Oil & Grease-AV/MS

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

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		м	atrix Spike / Re	f.
	Reference			Blank	RPD	AC	Spike	Recover	•	Spike Recovery		ery Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Oil & Grease (animal/vegetable)	GCM0237-AUG24	mg/L	4	< 4	NSS	20	NA	70	130			
Oil & Grease (mineral/synthetic)	GCM0237-AUG24	mg/L	4	< 4	NSS	20	NA	70	130			

pН

Method: SM 4500 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-006

Parameter	QC batch	Units	RL	Method	Dup	olicate	LC	S/Spike Blank		M	latrix Spike / Ref	•
	Reference			Blank	RPD	AC	Spike		ery Limits %)	Spike Recovery	Recover	-
						(%)	Recovery (%)	Low	High	(%)	Low	High
рН	EWL0341-AUG24	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-[ENV]SFA-LAK-AN-006

Parameter	QC batch	Units	RL	Method	Duj	olicate	LC	S/Spike Blank		M	atrix Spike / Ref	
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery	Recover	ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
4AAP-Phenolics	SKA0157-AUG24	mg/L	0.002	<0.002	ND	10	100	80	120	86	75	125

Polychlorinated Biphenyls

Method: MOE E3400/EPA 8082A | Internal ref.: ME-CA-[ENVIGC-LAK-AN-001

Parameter	QC batch	Units	RL	Method	Duj	olicate	LC	S/Spike Blank		M	atrix Spike / Re	f.
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery		ery Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Polychlorinated Biphenyls (PCBs) -	GCM0219-AUG24	ug/L	0.04	< 0.04	NSS	30	99	60	140	NSS	60	140
Total												

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QC SUMMARY

Semi-Volatile Organics

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

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		Ma	atrix Spike / Re	f.
	Reference			Blank	RPD	AC (%)	Spike Recovery	Recover	•	Spike Recovery		ery Limits %)
						(70)	(%)	Low	High	(%)	Low	High
7Hdibenzo(c,g)carbazole	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	95	50	140	NSS	50	140
Anthracene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	88	50	140	NSS	50	140
Benzo(a)anthracene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	92	50	140	NSS	50	140
Benzo(a)pyrene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	91	50	140	NSS	50	140
Benzo(b+j)fluoranthene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	97	50	140	NSS	50	140
Benzo(e)pyrene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	93	50	140	NSS	50	140
Benzo(ghi)perylene	GCM0275-AUG24	mg/L	0.0002	< 0.0002	NSS	30	95	50	140	NSS	50	140
Benzo(k)fluoranthene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	84	50	140	NSS	50	140
Bis(2-ethylhexyl)phthalate	GCM0275-AUG24	mg/L	0.002	< 0.002	NSS	30	102	50	140	NSS	50	140
Chrysene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	93	50	140	NSS	50	140
di-n-Butyl Phthalate	GCM0275-AUG24	mg/L	0.002	< 0.002	NSS	30	99	50	140	NSS	50	140
Dibenzo(a,h)anthracene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	95	50	140	NSS	50	140
Dibenzo(a,i)pyrene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	94	50	140	NSS	50	140
Dibenzo(a,j)acridine	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	93	50	140	NSS	50	140
Fluoranthene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	93	50	140	NSS	50	140
Indeno(1,2,3-cd)pyrene	GCM0275-AUG24	mg/L	0.0002	< 0.0002	NSS	30	94	50	140	NSS	50	140
Perylene	GCM0275-AUG24	mg/L	0.0005	< 0.0005	NSS	30	91	50	140	NSS	50	140
Phenanthrene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	88	50	140	NSS	50	140
Pyrene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	96	50	140	NSS	50	140

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QC SUMMARY

Suspended Solids

Method: SM 2540D | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-004

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		М	atrix Spike / Ref	
	Reference			Blank	RPD	AC (%)	Spike		ry Limits %)	Spike Recovery	Recover	•
						(%)	Recovery (%)	Low	High	(%)	Low	High
Total Suspended Solids	EWL0393-AUG24	mg/L	2	< 2	1	10	97	90	110	NA		

Total Nitrogen

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

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		Ma	atrix Spike / Re	of.
	Reference			Blank	RPD	AC	Spike	Recove	ry Limits 6)	Spike Recovery		ery Limits
						(%)	Recovery (%)	Low	High	(%)	Low	High
Total Kjeldahl Nitrogen	SKA0170-AUG24	as N mg/L	0.5	<0.5	3	10	100	90	110	99	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	Units	RL	Method	Dup	licate	LCS	S/Spike Blank		Ма	atrix Spike / Re	f.
	Reference			Blank	RPD	AC (%)	Spike Recovery		ry Limits %)	Spike Recovery		ry Limits %)
						(76)	(%)	Low	High	(%)	Low	High
1,1,1,2-Tetrachloroethane	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	90	60	130	100	50	140
1,1,2,2-Tetrachloroethane	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	96	60	130	113	50	140
1,2-Dichlorobenzene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	91	60	130	96	50	140
1,4-Dichlorobenzene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	91	60	130	94	50	140
Benzene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	90	60	130	102	50	140
Chloroform	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	89	60	130	99	50	140
cis-1,2-Dichloroethene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	88	60	130	99	50	140
Ethylbenzene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	90	60	130	102	50	140
m-p-xylene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	89	60	130	99	50	140
Methyl ethyl ketone	GCM0212-AUG24	mg/L	0.02	<0.02	ND	30	104	50	140	108	50	140
Methylene Chloride	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	89	60	130	97	50	140
o-xylene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	88	60	130	99	50	140
Styrene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	89	60	130	98	50	140
Tetrachloroethylene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	87	60	130	97	50	140
(perchloroethylene)												
Toluene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	89	60	130	100	50	140
trans-1,3-Dichloropropene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	93	60	130	104	50	140
Trichloroethylene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	86	60	130	92	50	140

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QC SUMMARY

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.

20240822



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. Solid samples expressed on a dry weight basis.

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

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act and Excess Soil Quality" published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated.

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

This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm.

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This report supersedes all previous versions.

-- End of Analytical Report --

20240822 20 / 21

REPORT INFORMATION That I CONSULTANT MELLEY TO THE TENTE CONDITION (RSC) RECORD OF SITE CONDITION (RSC) RECORD OF SITE CONDITION (RSC) SOIL VOLUME 3 SAMPLE IDENTIFICATION	INVOICE INFORMA Same as Report Information Company:		Sewer By-Law: Sewer By-Law: Sewer By-Law: Wasnitary Municipality: Musicipality: Musicipali	Contation #: Project #: 24~3cc~!&C Project #: 24~3cc~!&C Site Location/ID: Specify Due Date: Metals & Inorganics IngCOVI, (C), Mg pH,(B(MVS),EC,SAR-apil) Full Metals Suite ICP metals only Sb,As,Ba,Ba,Ba,Ba,Bc,Cc, Cro,Cc,Cu,Pa,Mo,Ni,Ba,Ag,Ti,U,V,Zn PAHs only SVOCs BII Ind PAHs, ABNs, CPs PCBs Total Aroclor PHC ANALYSIS REPRESENTATIVE PRIOR TO SUBMISSION F1-F4 + BTEX F1-F4 only Desticides Organochlorine or specify other Sewer Use: Alignic Stauge, Shake Apolly, Specify pkg: Sever Use: Alignic Stauge, Shake Apolly, Shake Ap	Site Location/ID: TURNAROUND TIME (TAT) REQUIRED TAT'S are quoted in b Samples received afte WITH SGS REPRESENTATIVE PRIOR TO SUBMISS NOTE: DRINKING (POTABLE) WATER SAMPLE WITH SGS DRINKING WATER SAMPLE WITH SGS DRINKING Pest VOCS all incl BTEX BTEX Pesticides Organochlorine or specify other Other (pleases s	Water Characterization Pkg General Specify Specify Specify tests tests Docume Doc	holidays & weekends). gins next business day VIMUST BE SUBMITTED
O.Reg 153/04 O.Reg 406/19 □Table 1 □ Res/Park Soil Texture: □Table 2 □ Ind/Com □ Coarse □Table 3 □ Agri/Other □ Medium/Fine □Table □ Appx. Soil Volume □ <350m3 □ >350m3 RECORD OF SITE CONDITION (RSC) SAMPLE IDENTIFICATION	Other Regulation: Reg 347/558 (3 D PWQO N CCME NO ODWS Not Repo YES NO DATE SAMPLED SA	y min TAT) IER ter: tble 'See note # C PLED BOTT	Sewer By-Law: Sanitary Municipality: Mississauga Peen Peen Matrix	Metals & Inorganics Ind CrVI, CN, Hg pH, (B(HWS), EC, SAR-soli) (Cl, Na-water) Full Metals Suite ICP metals only Sb, As, Ba, Be, B, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Ti, U, V, Zn PAHs only SVOCS sill inci PAHs, ABNs, CPs PCBs Total Aroclor F1-F4 + BTEX F1-F4 only no BTEX VOCs	BTEX only Pesticides Organochlorine or specify other	Sewer Use: Mississauga SAN + SAN Specify Pkg: Water Characterization Pkg General Extended Specify Specify Specify Band Document Specify Specify SPLP TCLP Specify Specify Specify Specify Specify Specify Specify Specify Sp	COMMENTS:
8#1			G-W				
6 5 4							
9 8							
12 Observations/Comments/Special Instructions			1				
THE RESERVE THE PROPERTY OF TH		The second secon	1		Date: 624 08 14	(mm/dd/vv)	Pink Copy - Client
Sampled By (NAME): KOLIVA		Signature:	lie. 7/		1	(minaci))	#

Industries & Environment - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment

Request for Laboratory Services and CHAIN OF CUSTODY

No: 039366







CA40099-AUG24 R1

24-300-100

Prepared for

DS Consultants



First Page

CLIENT DETAIL	S	LABORATORY DETAIL	LS
Client	DS Consultants	Project Specialist	Brad Moore Hon. B.Sc
		Laboratory	SGS Canada Inc.
Address	6221 Highway 7 Unit 16	Address	185 Concession St., Lakefield ON, K0L 2H0
	Vaughan, Ontario		
	L4H 0K8. Canada		
Contact	Meysam Jafari	Telephone	705-652-2143
Telephone	905-264-9393	Facsimile	705-652-6365
Facsimile	905-264-2685	Email	brad.moore@sgs.com
Email	mjafari@dsconsultants.ca	SGS Reference	CA40099-AUG24
Project	24-300-100	Received	08/15/2024
Order Number		Approved	08/22/2024
Samples	Ground Water (1)	Report Number	CA40099-AUG24 R1
		Date Reported	08/22/2024

COMMENTS

RL - SGS Reporting Limit

Temperature of Sample upon Receipt: 8 degrees C

Cooling Agent Present:yes Custody Seal Present:yes

Chain of Custody Number:039366

O&G Tot RLS increased due to sample matrix

O&G Total LCS recovery outside control limits. The overall quality control was assessed to be acceptable

Fluoride dup RPD % high, results within RL

SIGNATORIES

Brad Moore Hon. B.Sc Brad Mod

SGS Canada Inc. 185 Concession St., Lakefield ON, K0L 2H0 t 705-652-2143 f 705-652-6365

> Member of the SGS Group (SGS SA) 1/21

www.sgs.com



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QC Summary	
Legend	
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Client: DS Consultants

Project: 24-300-100

Project Manager: Meysam Jafari

MATRIX: WATER			Sa	ample Number	9
· · · · · · ·				Sample Name	BH1
L1 = SANSEW / WATER / Peel Sewer Use ByLaw - Sanitar	ry Sewer Discharge - BL_	53_2010		Sample Matrix	Ground Water
L2 = SANSEW / WATER / Peel Sewer Use ByLaw - Storm	Sewer Discharge - BL_53	_2010		Sample Date	14/08/2024
Parameter	Units	RL	L1	L2	Result
General Chemistry					
Biochemical Oxygen Demand (BOD5)	mg/L	2	300	15	< 4↑
Total Suspended Solids	mg/L	2	350	15	62
Total Kjeldahl Nitrogen	as N mg/L	0.5	100	1	< 0.5
Metals and Inorganics					
Total Chlorine	mg/L	0.02			0.03
Fluoride	mg/L	0.06	10		0.10
Cyanide (total)	mg/L	0.01	2	0.02	< 0.01
Sulphate	mg/L	2	1500		92
Aluminum (total)	mg/L	0.001	50		0.074
Antimony (total)	mg/L	0.0009	5		< 0.0009
Arsenic (total)	mg/L	0.0002	1	0.02	0.0004
Cadmium (total)	mg/L	0.000003	0.7	0.008	0.000004
Chromium (total)	mg/L	0.00008	5	0.08	0.00132
Copper (total)	mg/L	0.001	3	0.05	< 0.001
Cobalt (total)	mg/L	0.000004	5		0.000157
Lead (total)	mg/L	0.00009	3	0.12	0.00020
Manganese (total)	mg/L	0.00001	5	0.05	0.00700
Molybdenum (total)	mg/L	0.0004	5		< 0.0004
Nickel (total)	mg/L	0.0001	3	0.08	0.0008
Phosphorus (total)	mg/L	0.003	10	0.4	0.010
Selenium (total)	mg/L	0.00004	1	0.02	0.00041
Silver (total)	mg/L	0.00005	5	0.12	< 0.00005



Client: DS Consultants

Project: 24-300-100

Project Manager: Meysam Jafari

MATRIX: WATER				Sample Number	9
				Sample Name	BH1
L1 = SANSEW / WATER / Peel Sewer Use ByLaw - Sanitary S	Sewer Discharge - BL	53_2010		Sample Matrix	Ground Water
L2 = SANSEW / WATER / Peel Sewer Use ByLaw - Storm Sev	-			Sample Date	14/08/2024
Parameter	Units	RL	L1	L2	Result
Metals and Inorganics (continued)					
Tin (total)	mg/L	0.00006	5		0.00139
Titanium (total)	mg/L	0.0001	5		0.0019
Zinc (total)	mg/L	0.002	3	0.04	< 0.002
Microbiology				I	
E. Coli	cfu/100mL	0		200	<2↑
Nonylphenol and Ethoxylates					
Nonylphenol	mg/L	0.001	0.02		< 0.001
Nonylphenol Ethoxylates	mg/L	0.01	0.2		< 0.01
Nonylphenol diethoxylate	mg/L	0.01			< 0.01
Nonylphenol monoethoxylate	mg/L	0.01			< 0.01
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



Client: DS Consultants

Project: 24-300-100

Project Manager: Meysam Jafari

MATRIX: WATER			S	ample Number	9
				Sample Name	BH1
L1 = SANSEW / WATER / Peel Sewer Use ByLaw - Sanitary	Sewer Discharge - BL_	53_2010		Sample Matrix	Ground Water
L2 = SANSEW / WATER / Peel Sewer Use ByLaw - Storm Se	ewer Discharge - BL_53	_2010		Sample Date	14/08/2024
Parameter	Units	RL	L1	L2	Result
Other (ORP)					
рН	No unit	0.05	10	9	7.57
Chromium VI	mg/L	0.0002			0.0008
Mercury (total)	mg/L	0.00001	0.01	0.0004	< 0.00001
PAHs					
Benzo(b+j)fluoranthene	mg/L	0.0001			< 0.0001
PCBs					
Polychlorinated Biphenyls (PCBs) - Total	μg/L	0.04	1	0.4	< 0.04
Phenois			1		
4AAP-Phenolics	mg/L	0.002	1	0.008	0.008
SVOCs					
di-n-Butyl Phthalate	mg/L	0.002	0.08	0.015	< 0.002
•					
Bis(2-ethylhexyl)phthalate	mg/L	0.002	0.012	0.0088	< 0.002
PAHs (Total)	mg/L				< 0.001
Perylene	mg/L	0.0005			< 0.0005

SGS

Pyrene

mg/L 0.0001

Client: DS Consultants

Project: 24-300-100

Project Manager: Meysam Jafari

Samplers: Karim C.

MATRIX: WATER				Sample Number	9
				Sample Name	BH1
L1 = SANSEW / WATER / Peel Sewer Use ByLaw - Sanitary Sewer Disch	arge - BL_5	3_2010		Sample Matrix	Ground Water
L2 = SANSEW / WATER / Peel Sewer Use ByLaw - Storm Sewer Dischar	je - BL_53_	2010		Sample Date	14/08/2024
Parameter	Units	RL	L1	L2	Result
SVOCs - PAHs					
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			< 0.0001
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
Phenanthrene	mg/L	0.0001			< 0.0001

< 0.0001



Client: DS Consultants

Project: 24-300-100

Project Manager: Meysam Jafari

		5	Sample Number	9
			Sample Name	BH1
wer Discharge - BL_5	3_2010		Sample Matrix	Ground Water
er Discharge - BL_53_	_2010		Sample Date	14/08/2024
Units	RL	L1	L2	Result
mg/L	0.0005	0.04	0.002	< 0.0005
mg/L	0.0005	0.05	0.0056	< 0.0005
mg/L	0.0005	0.08	0.0068	< 0.0005
mg/L	0.0005	4	0.0056	< 0.0005
mg/L	0.0005	0.14	0.0056	< 0.0005
mg/L	0.0005	2	0.0052	< 0.0005
mg/L	0.0005	1.4	0.017	< 0.0005
mg/L	0.0005			< 0.0005
mg/L	0.02	8		< 0.02
mg/L	0.0005	0.2		< 0.0005
mg/L	0.0005	1	0.0044	< 0.0005
mg/L	0.0005	0.4	0.008	< 0.0005
mg/L	0.0005	0.01	0.002	< 0.0005
mg/L	0.0005	0.16	0.002	< 0.0005
mg/L	0.0005	0.27	0.002	< 0.0005
mg/L	0.0005	1.4	0.0044	< 0.0005
mg/L	0.0005			< 0.0005
mg/L	0.0005			< 0.0005
	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	mg/L 0.0005	mg/L 0.0005 0.14 mg/L 0.0005 0.14 mg/L 0.0005 0.14 mg/L 0.0005 0.14 mg/L 0.0005 0.4 mg/L 0.0005 0.14 mg/L 0.0005 0.4 mg/L 0.0005 0.14 mg/L 0.0005 0.14 mg/L 0.0005 0.14 mg/L 0.0005 1.4 mg/L 0.0005 0.2 mg/L 0.0005 0.2 mg/L 0.0005 0.4	Sample Matrix Sample Date



EXCEEDANCE SUMMARY

SANSEW / WATER SANSEW / WATER / - - Peel Sewer / - - Peel Sewer Use ByLaw -Use ByLaw - Storm Sanitary Sewer Sewer Discharge -Discharge -BL_53_2010 BL_53_2010 Method Units Result L1 L2 Parameter

BH1

Total Suspended Solids SM 2540D mg/L 62

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QC SUMMARY

Anions by discrete analyzer

Method: US EPA 375.4 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-026

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	S/Spike Blank		M	atrix Spike / Ref	
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery	Recover	•
						(%)	Recovery (%)	Low	High	(%)	Low	High
Sulphate	DIO8035-AUG24	mg/L	2	<2	0	20	104	80	120	80	75	125

Biochemical Oxygen Demand

Method: SM 5210 | Internal ref.: ME-CA-[ENVIEWL-LAK-AN-007

Parameter	QC batch	Units	RL	Method	Dup	olicate	LC	S/Spike Blank		м	atrix Spike / Re	f.
	Reference			Blank	RPD	(%) Recovery		ry Limits %)	Spike Recovery		ry Limits %)	
						(%)	Recovery (%)	Low	High	(%)	Low	High
Biochemical Oxygen Demand (BOD5)	BOD0027-AUG24	mg/L	2	< 2	1	30	98	70	130	122	70	130

Chlorine

Method: SM 4500 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-008

Parameter	QC batch	Units	RL	Method	Dup	olicate	LC	S/Spike Blank		M	atrix Spike / Ref	
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery	Recover	-
						(%)	Recovery (%)	Low	High	(%)	Low	High
Total Chlorine	EWL0329-AUG24	mg/L	0.02	< 0.02	ND	20	100	90	110	NA		

20240822



QC SUMMARY

Cyanide by SFA

Method: SM 4500 | Internal ref.: ME-CA-[ENV]SFA-LAK-AN-005

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	S/Spike Blank		M	latrix Spike / Ref	f.
	Reference			Blank	Blank RPD AC Spike (%) Recovery		•	Spike Recovery	Recove	ry Limits %)		
						(%)	(%)	Low	High	(%)	Low	High
Cyanide (total)	SKA0146-AUG24	mg/L	0.01	<0.01	ND	10	101	90	110	NV	75	125

Fluoride by Specific Ion Electrode

Method: SM 4500 | Internal ref.: ME-CA-[ENVIEWL-LAK-AN-014

Parameter	QC batch	Units	RL	Method	Duj	olicate	LC	S/Spike Blank		м	atrix Spike / Ref	f.
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery	Recove	ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Fluoride	EWL0335-AUG24	mg/L	0.06	<0.06	11	10	99	90	110	98	75	125

Hexavalent Chromium by SFA

Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-[ENV]SKA-LAK-AN-012

Parameter	QC batch	Units	RL	Method	Duj	olicate	LC	S/Spike Blank		M	latrix Spike / Ref	:
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery	Recove	ry Limits 6)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Chromium VI	SKA0151-AUG24	mg/L	0.0002	<0.0002	0	20	99	80	120	96	75	125

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CA40099-AUG24 R1

QC SUMMARY

Mercury by CVAAS

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

Parameter	QC batch	Units	RL	Method	Dup	olicate	LC	S/Spike Blank		M	atrix Spike / Ref	•
	Reference			Blank	RPD	AC (%)	Spike		ry Limits %)	Spike Recovery	Recove	=
						(%)	Recovery (%)	Low	High	(%)	Low	High
Mercury (total)	EHG0033-AUG24	mg/L	0.00001	< 0.00001	ND	20	102	80	120	91	70	130

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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	Units	RL	Method	Dup	licate	LC	S/Spike Blank		М	atrix Spike / Re	i.
	Reference			Blank	RPD	AC (%)	Spike Recovery		ry Limits 6)	Spike Recovery		ory Limits %)
						(70)	(%)	Low	High	(%)	Low	High
Silver (total)	EMS0151-AUG24	mg/L	0.00005	<0.00005	15	20	101	90	110	120	70	130
Aluminum (total)	EMS0151-AUG24	mg/L	0.001	<0.001	6	20	104	90	110	109	70	130
Arsenic (total)	EMS0151-AUG24	mg/L	0.0002	<0.0002	18	20	104	90	110	104	70	130
Cadmium (total)	EMS0151-AUG24	mg/L	0.000003	<0.000003	10	20	101	90	110	97	70	130
Cobalt (total)	EMS0151-AUG24	mg/L	0.000004	<0.000004	5	20	104	90	110	101	70	130
Chromium (total)	EMS0151-AUG24	mg/L	0.00008	<0.00008	6	20	104	90	110	111	70	130
Copper (total)	EMS0151-AUG24	mg/L	0.001	<0.001	9	20	105	90	110	100	70	130
Manganese (total)	EMS0151-AUG24	mg/L	0.00001	<0.00001	3	20	104	90	110	100	70	130
Molybdenum (total)	EMS0151-AUG24	mg/L	0.0004	<0.0004	15	20	103	90	110	105	70	130
Nickel (total)	EMS0151-AUG24	mg/L	0.0001	<0.0001	7	20	103	90	110	108	70	130
Lead (total)	EMS0151-AUG24	mg/L	0.00009	<0.00009	10	20	103	90	110	98	70	130
Phosphorus (total)	EMS0151-AUG24	mg/L	0.003	<0.003	ND	20	102	90	110	NV	70	130
Antimony (total)	EMS0151-AUG24	mg/L	0.0009	<0.0009	ND	20	105	90	110	105	70	130
Selenium (total)	EMS0151-AUG24	mg/L	0.00004	<0.00004	ND	20	101	90	110	107	70	130
Tin (total)	EMS0151-AUG24	mg/L	0.00006	<0.00006	18	20	103	90	110	NV	70	130
Titanium (total)	EMS0151-AUG24	mg/L	0.0001	<0.0001	ND	20	103	90	110	NV	70	130
Zinc (total)	EMS0151-AUG24	mg/L	0.002	<0.002	8	20	106	90	110	102	70	130

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QC SUMMARY

Microbiology

Method: SM 9222D | Internal ref.: ME-CA-[ENV]MIC-LAK-AN-006

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		M	atrix Spike / Re	f.
	Reference			Blank	RPD	AC	Spike	Recove	•	Spike Recovery		ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
E. Coli	BAC9276-AUG24	cfu/100mL	-	ACCEPTED	ACCEPTE							
					D							

Nonylphenol and Ethoxylates

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

Parameter	QC batch	Units	RL	Method	•		LC	S/Spike Blank		Ma	atrix Spike / Re	ī.
	Reference			Blank	RPD	AC	Spike	Recover	•	Spike Recovery		ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Nonylphenol diethoxylate	GCM0233-AUG24	mg/L	0.01	<0.01			79	55	120			
Nonylphenol monoethoxylate	GCM0233-AUG24	mg/L	0.01	<0.01			81	55	120			
Nonylphenol	GCM0233-AUG24	mg/L	0.001	<0.001			82	55	120			

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QC SUMMARY

Oil & Grease

Method: MOE E3401 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-019

Parameter	QC batch	Units	RL	Method	Dup	olicate	LC	S/Spike Blank		М	atrix Spike / Ref	
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery	Recover	-
						(%)	Recovery (%)	Low	High	(%)	Low	High
Oil & Grease (total)	GCM0237-AUG24	mg/L	2	<2	NSS	20	61	75	125			

Oil & Grease-AV/MS

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

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		м	atrix Spike / Re	f.
	Reference			Blank	RPD	AC	Spike	Recover	•	Spike Recovery		ery Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Oil & Grease (animal/vegetable)	GCM0237-AUG24	mg/L	4	< 4	NSS	20	NA	70	130			
Oil & Grease (mineral/synthetic)	GCM0237-AUG24	mg/L	4	< 4	NSS	20	NA	70	130			

pН

Method: SM 4500 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-006

Parameter	QC batch	Units	RL	Method	Dup	olicate	LC	S/Spike Blank		M	latrix Spike / Ref	•
	Reference			Blank	RPD	AC	Spike		ery Limits %)	Spike Recovery	Recover	-
						(%)	Recovery (%)	Low	High	(%)	Low	High
рН	EWL0341-AUG24	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-[ENV]SFA-LAK-AN-006

Parameter	QC batch	Units	RL	Method	Duj	olicate	LC	S/Spike Blank		M	atrix Spike / Ref	
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery	Recover	ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
4AAP-Phenolics	SKA0157-AUG24	mg/L	0.002	<0.002	ND	10	100	80	120	86	75	125

Polychlorinated Biphenyls

Method: MOE E3400/EPA 8082A | Internal ref.: ME-CA-[ENVIGC-LAK-AN-001

Parameter	QC batch	Units	RL	Method	Duj	olicate	LC	S/Spike Blank		M	atrix Spike / Re	f.
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery		ery Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Polychlorinated Biphenyls (PCBs) -	GCM0219-AUG24	ug/L	0.04	< 0.04	NSS	30	99	60	140	NSS	60	140
Total												

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QC SUMMARY

Semi-Volatile Organics

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

Parameter	QC batch	Units	RL	Method	Dup	licate	LC:	S/Spike Blank		Ма	atrix Spike / Re	f.
	Reference			Blank	RPD	AC (%)	Spike Recovery	Recover	•	Spike Recovery		ory Limits %)
						(,	(%)	Low	High	(%)	Low	High
7Hdibenzo(c,g)carbazole	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	95	50	140	NSS	50	140
Anthracene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	88	50	140	NSS	50	140
Benzo(a)anthracene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	92	50	140	NSS	50	140
Benzo(a)pyrene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	91	50	140	NSS	50	140
Benzo(b+j)fluoranthene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	97	50	140	NSS	50	140
Benzo(e)pyrene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	93	50	140	NSS	50	140
Benzo(ghi)perylene	GCM0275-AUG24	mg/L	0.0002	< 0.0002	NSS	30	95	50	140	NSS	50	140
Benzo(k)fluoranthene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	84	50	140	NSS	50	140
Bis(2-ethylhexyl)phthalate	GCM0275-AUG24	mg/L	0.002	< 0.002	NSS	30	102	50	140	NSS	50	140
Chrysene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	93	50	140	NSS	50	140
di-n-Butyl Phthalate	GCM0275-AUG24	mg/L	0.002	< 0.002	NSS	30	99	50	140	NSS	50	140
Dibenzo(a,h)anthracene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	95	50	140	NSS	50	140
Dibenzo(a,i)pyrene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	94	50	140	NSS	50	140
Dibenzo(a,j)acridine	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	93	50	140	NSS	50	140
Fluoranthene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	93	50	140	NSS	50	140
Indeno(1,2,3-cd)pyrene	GCM0275-AUG24	mg/L	0.0002	< 0.0002	NSS	30	94	50	140	NSS	50	140
Perylene	GCM0275-AUG24	mg/L	0.0005	< 0.0005	NSS	30	91	50	140	NSS	50	140
Phenanthrene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	88	50	140	NSS	50	140
Pyrene	GCM0275-AUG24	mg/L	0.0001	< 0.0001	NSS	30	96	50	140	NSS	50	140

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QC SUMMARY

Suspended Solids

Method: SM 2540D | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-004

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	S/Spike Blank		М	atrix Spike / Ref	
	Reference			Blank	RPD	AC	Spike		ery Limits %)	Spike Recovery	Recover	-
						(%)	Recovery (%)	Low	High	(%)	Low	High
Total Suspended Solids	EWL0393-AUG24	mg/L	2	< 2	1	10	97	90	110	NA		

Total Nitrogen

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

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		М	atrix Spike / Re	of.
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery		ery Limits
						(%)	Recovery (%)	Low	High	(%)	Low	High
Total Kjeldahl Nitrogen	SKA0170-AUG24	as N mg/L	0.5	<0.5	3	10	100	90	110	99	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	Units	RL	Method	Dup	licate	LC	S/Spike Blank		Ma	atrix Spike / Re	f.
	Reference			Blank	RPD	AC (%)	Spike Recovery		ry Limits %)	Spike Recovery		ery Limits %)
						(70)	(%)	Low	High	(%)	Low	High
1,1,1,2-Tetrachloroethane	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	90	60	130	100	50	140
1,1,2,2-Tetrachloroethane	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	96	60	130	113	50	140
1,2-Dichlorobenzene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	91	60	130	96	50	140
1,4-Dichlorobenzene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	91	60	130	94	50	140
Benzene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	90	60	130	102	50	140
Chloroform	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	89	60	130	99	50	140
cis-1,2-Dichloroethene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	88	60	130	99	50	140
Ethylbenzene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	90	60	130	102	50	140
m-p-xylene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	89	60	130	99	50	140
Methyl ethyl ketone	GCM0212-AUG24	mg/L	0.02	<0.02	ND	30	104	50	140	108	50	140
Methylene Chloride	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	89	60	130	97	50	140
o-xylene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	88	60	130	99	50	140
Styrene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	89	60	130	98	50	140
Tetrachloroethylene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	87	60	130	97	50	140
(perchloroethylene)												
Toluene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	89	60	130	100	50	140
trans-1,3-Dichloropropene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	93	60	130	104	50	140
Trichloroethylene	GCM0212-AUG24	mg/L	0.0005	<0.0005	ND	30	86	60	130	92	50	140

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QC SUMMARY

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.

20240822



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. Solid samples expressed on a dry weight basis.

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

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act and Excess Soil Quality" published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated.

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

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This report supersedes all previous versions

-- End of Analytical Report --

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REPORT INFORMATION That I CONSULTANT MELLEY TO THE TENTE CONDITION (RSC) RECORD OF SITE CONDITION (RSC) RECORD OF SITE CONDITION (RSC) SOIL VOLUME 3 SAMPLE IDENTIFICATION	INVOICE INFORMA Same as Report Information Company:		Sewer By-Law: Sewer By-Law: Som Municipality: Mississauga Peca	Contation #: Project #: 24~3cc~!&C Project #: 24~3cc~!&C Site Location/ID: Specify Due Date: Metals & Inorganics IngCOVI, (C), Mg pH.(B(MVS), BC,SAR-apil) Full Metals Suite ICP metals only Sb,As,Ba,Ba,Ba,Ba,Bc,Cc, Cro,Cc,Cu,Pa,Mo,NI,Ba,Ag,TI,U,Y,Zn PAHs only SVOCs BII Ind PAHs, ABNs, CPs PCBs Total Aroclor PHC ANALYSIS REPRESENTATIVE PRIOR TO SUBMISSION WOTE: DRINKING (POTABLE) WATER SAMPLES FOR WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION NOTE: DRINKING (POTABLE) WATER SAMPLES FOR WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION F1-F4 + BTEX F1-F4 only Desticides Organochiorine or specify other Sewer Use: Aligning Staduage, S-f-M, + S-f-M Specify pkg: Sewer Use: Aligning Staduage, S-f-M, + S-f-M Specify pkg: Sewer Use: Aligning Staduage, S-f-M, + S-f-M Specify pkg: Specify pkg:	Site Location/ID: TURNAROUND TIME (TAT) REQUIRED TAT'S are quoted in b Samples received afte WITH SGS REPRESENTATIVE PRIOR TO SUBMISS NOTE: DRINKING (POTABLE) WATER SAMPLE WITH SGS DRINKING WATER SAMPLE WITH SGS DRINKING Pest VOCS all incl BTEX BTEX Pesticides Organochlorine or specify other Other (pleases s	Water Characterization Pkg General SPLP TCLP Specify Specify Specify tests tests Docume	holidays & weekends). gins next business day WMUST BE SUBMITTED
O.Reg 153/04 O.Reg 406/19 □Table 1 □ Res/Park Soil Texture: □Table 2 □ Ind/Com □ Coarse □Table 3 □ Agri/Other □ Medium/Fine □Table □ Appx. Soil Volume □ <350m3 □ >350m3 RECORD OF SITE CONDITION (RSC) SAMPLE IDENTIFICATION	Other Regulation: Reg 347/558 (3 D PWQO N CCME NO ODWS Not Repo YES NO DATE SAMPLED SA	y min TAT) IER ter: tble 'See note # C PLED BOTT	Sewer By-Law: Sanitary Municipality: Mississauga Peen Peen Matrix	Metals & Inorganics Ind CrVI, CN, Hg pH, (B(HWS), EC, SAR-soli) (Cl, Na-water) Full Metals Suite ICP metals only Sb, As, Ba, Be, B, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Ti, U, V, Zn PAHs only SVOCS sill inci PAHs, ABNs, CPs PCBs Total Aroclor F1-F4 + BTEX F1-F4 only no BTEX VOCs	BTEX only Pesticides Organochlorine or specify other	Sewer Use: Mississauga SAN + SAN Specify Pkg: Water Characterization Pkg General Extended Specify Specify Specify Water Characterization Pkg General Dawn Specify Specify SPLP TCLP Specify Specify Specify Specify Specify Specify Specify Specify Specify Specify Spec	COMMENTS:
8#1			G-W				
6 5 4							
9 8							
12 Observations/Comments/Special Instructions			1				
THE RESERVE THE PROPERTY OF TH		The second secon	1		Date: 624 08 14	(mm/dd/vv)	Pink Copy - Client
Sampled By (NAME): KOLIVA		Signature:	lie. 7/		1	(minaci))	#

Industries & Environment - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment

Request for Laboratory Services and CHAIN OF CUSTODY

No: 039366



CA40017-AUG25 R1

24-300-100, 1470 Williamsport Mississauga

Prepared for

DS Consultants



First Page

CLIENT DETAILS	S	LABORATORY DETAI	ILS
Client	DS Consultants	Project Specialist	Maarit Wolfe, Hon.B.Sc
		Laboratory	SGS Canada Inc.
Address	6221 Highway 7 Unit 16	Address	185 Concession St., Lakefield ON, K0L 2H0
	Vaughan, Ontario		
	L4H 0K8. Canada		
Contact	Meysam Jafari	Telephone	705-652-2000
Telephone	905-264-9393	Facsimile	705-652-6365
Facsimile	905-264-2685	Email	Maarit.Wolfe@sgs.com
Email	mjafari@dsconsultants.ca	SGS Reference	CA40017-AUG25
Project	24-300-100, 1470 Williamsport Mississauga	Received	08/05/2025
Order Number		Approved	08/12/2025
Samples	Ground Water (1)	Report Number	CA40017-AUG25 R1
		Date Reported	08/12/2025

COMMENTS

RL - SGS Reporting Limit

Temperature of Sample upon Receipt: 7 degrees C

Cooling Agent Present: yes Custody Seal Present: yes

Chain of Custody Number: 043689

SIGNATORIES

Maarit Wolfe, Hon.B.Sc Luvoye

t 705-652-2000 f 705-652-6365

www.sgs.com





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QC Summary	8-16
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CA40017-AUG25 R1

Client: DS Consultants

Project: 24-300-100, 1470 Williamsport Mississauga

Project Manager: Meysam Jafari

Samplers: Chaitanya

			_
MATRIX: WATER		Sample Number	7
		Sample Name	BH24-5
L1 = SANSEW / WATER / Mississauga Sewer Use ByLaw - Storm Sewer Discha BL_0046_2022	ge -	Sample Matrix	Ground Water
85_0040_2022		Sample Date	05/08/2025
Parameter Uni	s RL	L1	Result
General Chemistry			
Biochemical Oxygen Demand (BOD5) mg.	_ 2	15	< 4↑
Total Suspended Solids mg.	_ 2	15	59
Metals and Inorganics			
Cyanide (total) mg.	0.01	0.02	< 0.01
Total Chlorine mg.	0.02	1	< 0.02
Aluminum (total) mg.	0.001	1	0.004
Arsenic (total) mg	0.0002	0.02	0.0012
Cadmium (total) mg	0.000003	0.008	0.000006
Chromium (total) mg	0.00008	0.08	0.00053
Copper (total) mg.	_ 0.001	0.04	< 0.001
Lead (total) mg/	0.00009	0.12	< 0.00009
Manganese (total) mg/	0.00001	2	0.227
Nickel (total) mg	_ 0.0001	0.08	0.0017
Phosphorus (total) mg/	0.003	0.4	0.014
Selenium (total) mg.	0.00004	0.02	0.00058
Silver (total) mg.	0.00005	0.12	< 0.00005
Zinc (total) mg.	0.002	0.2	< 0.002



CA40017-AUG25 R1

Client: DS Consultants

Project: 24-300-100, 1470 Williamsport Mississauga

Project Manager: Meysam Jafari

Samplers: Chaitanya

MATRIX: WATER			Sample Number	. 7
			Sample Name	BH24-5
L1 = SANSEW / WATER / Mississauga Sewer Use ByLaw	v - Storm Sewer Discharge	-	Sample Matrix	Ground Water
BL_0046_2022				05/00/0005
			Sample Date	
Parameter	Units	RL	L1	Result
Microbiology				
Ecoli	mpn/100mL	0	200	0
Other (ORP)				
рН	No unit	0.05	9	7.49
Chromium VI	mg/L	0.0002	0.04	< 0.0002
Mercury (total)	mg/L	0.00001	0.0004	< 0.00001
PAHs				
	11	0.0004		10.0004
Benzo(b+j)fluoranthene	mg/L	0.0001		< 0.0001
PCBs				
Polychlorinated Biphenyls (PCBs) - Total	mg/L	0.0001	0.0004	< 0.0001
Phenols				
4AAP-Phenolics	mg/L	0.001	0.008	0.002
SVOCs			I	1
PAHs (Total)	mg/L		0.002	< 0.001
		0.0005	0.002	
Perylene	mg/L	0.0005		< 0.0005



CA40017-AUG25 R1

Client: DS Consultants

Project: 24-300-100, 1470 Williamsport Mississauga

Project Manager: Meysam Jafari

Samplers: Chaitanya

MATRIX: WATER Sample Number 7

Sample Name BH24-5

Sample Matrix Ground Water

L1 = SANSEW / WATER / - - Mississauga Sewer Use ByLaw - Storm Sewer Discharge - BL 0046 2022

L_0046_2022					
			Sample Date	05/08/2025	
Parameter	Units	RL	L1	Result	
VOCs - PAHs					
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		< 0.0001	
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	
Phenanthrene	mg/L	0.0001		< 0.0001	
Pyrene	mg/L	0.0001		< 0.0001	



CA40017-AUG25 R1

Client: DS Consultants

Project: 24-300-100, 1470 Williamsport Mississauga

Project Manager: Meysam Jafari

Samplers: Chaitanya

MATRIX: WATER	Sample Number	7
IATRIX: WATER	Campio Hamboi	

Sample Name BH24-5

Sample Matrix Ground Water

05/08/2025

Sample Date

L1 = SANSEW / WATER / - - Mississauga Sewer Use ByLaw - Storm Sewer Discharge -

BL_0046_2022

			oumpio Duto	00/00/2020	
Parameter	Units	RL	L1	Result	
VOCs					
1,2-Dichlorobenzene	mg/L	0.0005	0.0056	< 0.0005	
1,4-Dichlorobenzene	mg/L	0.0005	0.0068	< 0.0005	
Dichloromethane	mg/L	0.0005	0.0052	< 0.0005	
1,1,1,2-Tetrachloroethane	mg/L	0.0005	0.017	< 0.0005	
1,1,2,2-Tetrachloroethane	mg/L	0.0005	0.017	< 0.0005	
Tetrachloroethylene (perchloroethylene)	mg/L	0.0005	0.0044	< 0.0005	
Trichloroethylene	mg/L	0.0005	0.0076	< 0.0005	
VOCs - BTEX					
Benzene	mg/L	0.0005	0.002	< 0.0005	

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Benzene	mg/L 0.0005	0.002	< 0.0005
Ethylbenzene	mg/L 0.0005	0.002	< 0.0005
Toluene	mg/L 0.0005	0.002	< 0.0005
Xylene (total)	mg/L 0.0005	0.0044	< 0.0005
m-p-xylene	mg/L 0.0005		< 0.0005
o-xylene	mg/L 0.0005		< 0.0005



EXCEEDANCE SUMMARY

SANSEW / WATER
/ - - Mississauga
Sewer Use ByLaw Storm Sewer
Discharge BL_0046_2022
Parameter Method Units Result L1

BH24-5

Total Suspended Solids	SM 2540D	mg/L	59	15

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QC SUMMARY

Biochemical Oxygen Demand

Method: SM 5210 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-007

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		Matrix Spike / Ref.		
	Reference			Blank	RPD	AC	Spike	Recovery Limits (%)		Spike Recovery	Recove	-
						(%)	Recovery (%)	Low	High	(%)	Low	High
Biochemical Oxygen Demand (BOD5)	BOD0007-AUG25	mg/L	2	< 2	4	30	91	70	130	NV	70	130

Chlorine

Method: SM 4500 | Internal ref.: ME-CA-[ENVIEWL-LAK-AN-008

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	LCS/Spike Blank		Matrix Spike / Ref.		
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery	Recovery Limits	
						(%)	Recovery (%)	Low	High	(%)	Low	High
Total Chlorine	EWL0070-AUG25	mg/L	0.02	< 0.02	ND	20	91	90	110	NA		

Cyanide by SFA

Method: SM 4500 | Internal ref.: ME-CA-[ENVISFA-LAK-AN-005

Parameter	QC batch	Units	RL	Method	Duj	olicate	LCS/Spike Blank		Matrix Spike / Ref.			
	Reference			Blank	RPD	AC	Spike	Recovery Limits (%)		Spike Recovery	Recover	ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Cyanide (total)	SKA0036-AUG25	mg/L	0.01	<0.01	ND	10	96	90	110	93	75	125

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QC SUMMARY

Hexavalent Chromium by SFA

Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-[ENV]SKA-LAK-AN-012

Parameter	QC batch	Units	RL	Method	Duj	plicate	LCS/Spike Blank		Matrix Spike / Ref.			
	Reference			Blank	RPD	AC	Spike	Recovery Limits (%)		Spike Recovery	Recover	ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Chromium VI	SKA0044-AUG25	mg/L	0.0002	<0.0002	0	20	98	80	120	84	75	125

Mercury by CVAAS

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

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		Matrix Spike / Ref.		f.
	Reference			Blank	RPD	AC	Spike	Recovery Limits (%)		Spike Recovery	Recovery Limits (%)	
						(%)	Recovery (%)	Low	High	(%)	Low	High
Mercury (total)	EHG0005-AUG25	mg/L	0.00001	< 0.00001	ND	20	91	80	120	111	70	130

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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	Units	RL	Method	Dup	licate	LC	S/Spike Blank		Matrix Spike / Ref.		
	Reference			Blank	RPD	AC (%)	Spike Recovery	Recovery Limits (%)		Spike Recovery	Recovery Limits	
						(70)	(%)	Low	High	(%)	Low	High
Silver (total)	EMS0038-AUG25	mg/L	0.00005	<0.00005	ND	20	100	90	110	73	70	130
Aluminum (total)	EMS0038-AUG25	mg/L	0.001	<0.001	2	20	105	90	110	NV	70	130
Arsenic (total)	EMS0038-AUG25	mg/L	0.0002	<0.0002	2	20	100	90	110	98	70	130
Cadmium (total)	EMS0038-AUG25	mg/L	0.000003	<0.000003	ND	20	104	90	110	92	70	130
Chromium (total)	EMS0038-AUG25	mg/L	0.00008	<0.00008	0	20	105	90	110	114	70	130
Copper (total)	EMS0038-AUG25	mg/L	0.001	<0.001	1	20	103	90	110	NV	70	130
Manganese (total)	EMS0038-AUG25	mg/L	0.00001	<0.00001	2	20	104	90	110	NV	70	130
Nickel (total)	EMS0038-AUG25	mg/L	0.0001	<0.0001	5	20	103	90	110	84	70	130
Lead (total)	EMS0038-AUG25	mg/L	0.00009	<0.00009	5	20	104	90	110	89	70	130
Phosphorus (total)	EMS0038-AUG25	mg/L	0.003	<0.003	0	20	102	90	110	NV	70	130
Selenium (total)	EMS0038-AUG25	mg/L	0.00004	<0.00004	15	20	102	90	110	92	70	130
Zinc (total)	EMS0038-AUG25	mg/L	0.002	<0.002	2	20	101	90	110	97	70	130

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QC SUMMARY

Microbiology

Method: SM 9223B | Internal ref.: ME-CA-[ENV]MIC-LAK-AN-021

Parameter	QC batch	Units	RL	Method	Dupl	icate	LC	S/Spike Blank		Ma	atrix Spike / Re	f.
	Reference			Blank	RPD	AC	Spike		ery Limits (%)	Spike Recovery		ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Ecoli	BAC9043-AUG25	mpn/100mL	-	ACCEPTED	ACCEPTE							
					D							

pН

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

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	S/Spike Blank		M	atrix Spike / Ref	:
	Reference			Blank	RPD	AC	Spike	Recover	-	Spike Recovery	Recover	-
						(%)	Recovery (%)	Low	High	(%)	Low	High
рН	EWL0080-AUG25	No unit	0.05	NA	0		100			NA		

Phenols by SFA

Method: SM 5530B-D | Internal ref.: ME-CA-[ENV]SFA-LAK-AN-006

Parameter	QC batch	Units	RL	Method	Duj	olicate	LC	S/Spike Blank		М	atrix Spike / Re	f.
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery		ory Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
4AAP-Phenolics	SKA0046-AUG25	mg/L	0.001	<0.001	ND	10	95	80	120	81	75	125

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QC SUMMARY

Polychlorinated Biphenyls

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

Parameter	QC batch	Units	RL	Method	Dup	licate	LCS	S/Spike Blank		Ма	atrix Spike / Re	f.
	Reference			Blank	RPD	AC	Spike	Recove	•	Spike Recovery		ery Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Polychlorinated Biphenyls (PCBs) -	GCM0068-AUG25	mg/L	0.0001	<0.0001	NSS	30	93	60	140	NSS	60	140
Total												

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QC SUMMARY

Semi-Volatile Organics

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

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		Ma	atrix Spike / Re	f.
	Reference			Blank	RPD	AC (%)	Spike Recovery		ry Limits 6)	Spike Recovery		ery Limits %)
						(1-5)	(%)	Low	High	(%)	Low	High
7Hdibenzo(c,g)carbazole	GCM0090-AUG25	mg/L	0.0001	< 0.0001	NSS	30	97	50	140	NSS	50	140
Anthracene	GCM0090-AUG25	mg/L	0.0001	< 0.0001	NSS	30	88	50	140	NSS	50	140
Benzo(a)anthracene	GCM0090-AUG25	mg/L	0.0001	< 0.0001	NSS	30	90	50	140	NSS	50	140
Benzo(a)pyrene	GCM0090-AUG25	mg/L	0.0001	< 0.0001	NSS	30	86	50	140	NSS	50	140
Benzo(b+j)fluoranthene	GCM0090-AUG25	mg/L	0.0001	< 0.0001	NSS	30	105	50	140	NSS	50	140
Benzo(e)pyrene	GCM0090-AUG25	mg/L	0.0001	< 0.0001	NSS	30	97	50	140	NSS	50	140
Benzo(ghi)perylene	GCM0090-AUG25	mg/L	0.0002	< 0.0002	NSS	30	92	50	140	NSS	50	140
Benzo(k)fluoranthene	GCM0090-AUG25	mg/L	0.0001	< 0.0001	NSS	30	73	50	140	NSS	50	140
Chrysene	GCM0090-AUG25	mg/L	0.0001	< 0.0001	NSS	30	92	50	140	NSS	50	140
Dibenzo(a,h)anthracene	GCM0090-AUG25	mg/L	0.0001	< 0.0001	NSS	30	93	50	140	NSS	50	140
Dibenzo(a,i)pyrene	GCM0090-AUG25	mg/L	0.0001	< 0.0001	NSS	30	93	50	140	NSS	50	140
Dibenzo(a,j)acridine	GCM0090-AUG25	mg/L	0.0001	< 0.0001	NSS	30	94	50	140	NSS	50	140
Fluoranthene	GCM0090-AUG25	mg/L	0.0001	< 0.0001	NSS	30	92	50	140	NSS	50	140
Indeno(1,2,3-cd)pyrene	GCM0090-AUG25	mg/L	0.0002	< 0.0002	NSS	30	93	50	140	NSS	50	140
Perylene	GCM0090-AUG25	mg/L	0.0005	< 0.0005	NSS	30	90	50	140	NSS	50	140
Phenanthrene	GCM0090-AUG25	mg/L	0.0001	< 0.0001	NSS	30	88	50	140	NSS	50	140
Pyrene	GCM0090-AUG25	mg/L	0.0001	< 0.0001	NSS	30	91	50	140	NSS	50	140

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QC SUMMARY

Suspended Solids

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

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		м	atrix Spike / Re	f.
	Reference			Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery		ery Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Total Suspended Solids	EWL0074-AUG25	mg/L	2	< 2	2	10	100	90	110	NA		

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QC SUMMARY

Volatile Organics

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

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		Ma	atrix Spike / Ref	ī.
	Reference			Blank	RPD	AC	Spike	Recove	•	Spike Recovery		ory Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
1,1,1,2-Tetrachloroethane	GCM0059-AUG25	mg/L	0.0005	<0.0005	ND	30	91	60	130	94	50	140
1,1,2,2-Tetrachloroethane	GCM0059-AUG25	mg/L	0.0005	<0.0005	ND	30	90	60	130	106	50	140
1,2-Dichlorobenzene	GCM0059-AUG25	mg/L	0.0005	<0.0005	ND	30	92	60	130	97	50	140
1,4-Dichlorobenzene	GCM0059-AUG25	mg/L	0.0005	<0.0005	ND	30	93	60	130	94	50	140
Benzene	GCM0059-AUG25	mg/L	0.0005	<0.0005	ND	30	95	60	130	95	50	140
Dichloromethane	GCM0059-AUG25	mg/L	0.0005	<0.0005	ND	30	93	60	130	95	50	140
Ethylbenzene	GCM0059-AUG25	mg/L	0.0005	<0.0005	ND	30	93	60	130	96	50	140
m-p-xylene	GCM0059-AUG25	mg/L	0.0005	<0.0005	ND	30	94	60	130	96	50	140
o-xylene	GCM0059-AUG25	mg/L	0.0005	<0.0005	ND	30	93	60	130	96	50	140
Tetrachloroethylene	GCM0059-AUG25	mg/L	0.0005	<0.0005	ND	30	97	60	130	98	50	140
(perchloroethylene)												
Toluene	GCM0059-AUG25	mg/L	0.0005	<0.0005	ND	30	96	60	130	96	50	140
Trichloroethylene	GCM0059-AUG25	mg/L	0.0005	<0.0005	ND	30	97	60	130	92	50	140

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QC SUMMARY

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.

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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. Solid samples expressed on a dry weight basis.

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

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act and Excess Soil Quality" published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated.

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

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This report supersedes all previous versions

-- End of Analytical Report --

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Appendix D: MECP Water Wells Records

Project: 24-300-100 – Hydrogeological Investigation

1470 Williamsport Holdings Inc.- 1470 Williamsport Drive, Mississauga, ON

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MISSISSAU	17	613399	4830353	2009-09 73	2	FR 0045		МТ	0039 10	7138890	(M02099)	BLCK 0000 BRWN SILT SAND 0005 BRWN SAND GRVL 0048 GREY SHLE HARD 0049
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MISSISSAU		613586		2015-10 72	2			MT	0020 10			BRWN SAND SILT 0020 GREY SAND SILT 0030
MISSISSAU		613461		2016-01 72	2			OT			(Z209944)	
MISSISSAU		613458		2016-0172	2			OT			(Z209945)	
MISSISSAU		613460		2016-01 72	1.5			OT			(Z209943)	
MISSISSAU		613528		2016-01 72 2015-10 72	2			OT	001510		(Z209946)	BRWN SAND SILT 0017 GREY SAND SILT 0025
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