



- **Lakeview Community Partners Limited**

Due Diligence Phase II Environmental Site Assessment

Type of Document
Final Report

Project Name
800 Hydro Road, Mississauga, Ontario

Project Number
MRK-00243747-A0

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Date Submitted
December 22, 2017
Reissued March 2, 2018

Version Control

| Version | Date | Revised Description | Submitted By | Reviewed By |
|---------|-------------------|---|----------------|----------------|
| 1.0 | December 22, 2017 | Initial report issued | Travis Tan | Carla Reynolds |
| 2.0 | March 2, 2018 | Title changed and reissued to Lakeview Community Partners Limited. Text added to Executive Summary and Conclusions. | Leah Whittaker | Carla Reynolds |

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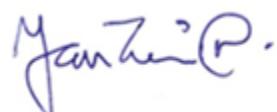
Project Name:
Subsurface Environmental Assessment
800 Hydro Road, Mississauga, Ontario

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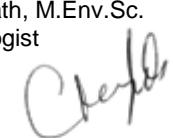
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Date Submitted:
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*Client: Lakeview Community Partners Limited
Project Name: Subsurface Environmental Assessment
800 Hydro Road, Mississauga, Ontario
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Legal Notification

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SUMMARY SHEET

800 Hydro Road, Mississauga, Ontario

1. Site and Adjacent Land Conditions

| | |
|--------------------------------------|--|
| Land Use | Industrial |
| Date of Soil Sampling | November 6 to 10, 13 and 14, 2017 |
| Date of Ground Water Sampling | November 7, 8, 10, and 13 to 15, 2017 |
| Number of Test Holes Drilled | 12 |
| Number of Monitoring Wells Installed | 9 |
| Type of OVM Meter | RKI Eagle 2 |
| Adjacent Land Use (current) | North - Commercial/Industrial South - Lake Ontario East - Commercial/Industrial West - Commercial/Industrial/Parkland |
| Aquifer Usage in 100 metre Radius | No |

2. Site Soil Conditions

| Stratigraphy | Maximum Depths (m) | Comments |
|--------------------------|--------------------|--|
| Sand and gravel fill | 2.57 | 10 to 30 cm of topsoil underlain by brown sand and gravel fill, trace brick, moist, no odour, no staining. |
| Clayey silt fill | 3.95 | Brown clayey silt fill, trace brick, moist, no odour, no staining. |
| Silt to clayey silt till | 15.2 | Brown to grey silt to clayey silt till, moist, no odour, no staining. |
| Shale bedrock | >15.2 | Grey shale bedrock, no odour, no staining. |

3. Ground Water

| | |
|--|--|
| Depth (mbgs) | 1.25 to 7.77 |
| Screened Interval of Monitoring Well(s) (mbgs) | 6.09 to 7.62 at TH101, 14.33 to 15.24 at TH102, 5.48 to 8.53 at TH104 and TH105, 1.52 to 4.57 at TH108, 0.91 to 3.96 at TH109 and TH111, 1.52 to 4.72 at TH110 and 1.21 to 4.27 at TH112 |
| Ground Water Flow Direction | Inferred to be southerly to southeasterly |
| Liquid Petroleum Detected | No |

4. Selected Soil and Ground Water Standards

The Ministry of Environment and Climate Change (MOECC) Table 3 Standards for a residential/parkland/institutional property use with medium to fine textured soils, referenced by Ontario Regulation (O. Reg.) 153/04, are appropriate for this site, except for 1) the portion of the site where the depth to bedrock is less than 2 metres (former Powerhouse area), the MOECC Table 7 Standards for a residential/parkland/institutional property use with medium to fine textured soils applies; and 2) the portion of the site within 30 metres of surface water body, where the MOECC Table 9 Standards for a residential/parkland/ institutional property use applies.

5. Analytical Results (Samples exceeding MOECC Table 3, 7 or Table 9 Standards)

| Location | Medium | Depth (mbgs) | Parameters |
|-----------|--------------|--------------|--|
| TH108-SS1 | Soil | 0.0 to 0.60 | Lead |
| TH110-SS1 | Soil | 0.0 to 0.60 | Selenium |
| TH111-SS2 | Soil | 0.76 to 1.37 | PHC fraction F2 |
| TP12-2m | Soil | 1.0 to 2.0 | PHC fractions F2 and F3 (Table 9 only) |
| TP13-2.5m | Soil | 2.5 to 3.0 | PHC fractions F1, F2 and F3 (Table 9 only) |
| TP14-2m | Soil | 2.0 to 3.0 | PHC fraction F2 |
| MW1-16 | Ground water | 1.06 to 4.11 | PHC fraction F2 |
| TH110 | Ground water | 1.06 to 4.11 | PHC fractions F2 and F3 |
| TMW301 | Ground water | 1.06 to 4.11 | PHC fraction F2 |
| MW5-05 | Ground water | 2.29 to 5.33 | PHC fraction F2 |

Executive Summary

The executive summary is a brief synopsis of the report and should not be read in lieu of reading the report in its entirety. EXP was retained by Lakeview Community Partners Limited to conduct a Due Diligence Phase II Environmental Site Assessment for the property municipally addressed as 800 Hydro Road, Mississauga, Ontario (the “site”).

The approximately 71.6 hectares (177 acres) site was developed as the former Ontario Power Generation (OPG) Lakeview Coal Generating Plant in the late 1950s; the coal-fired power plant ceased operations in 2005, and was decommissioned and demolished between 2006 and 2008.

The objective of the environmental assessment was to evaluate the potential environmental risks associated with the soil and ground water conditions at the site. The work was done in support of a potential real estate transaction. The soil and ground water investigation included the advancement of 12 test holes (TH101 to TH112), of which nine were completed as ground water monitors (TH101, TH102, TH104, TH105, TH108 to TH112) on November 6 to 10 and November 13, 2017. Eighteen test pits were also advanced to evaluate the subsurface conditions on November 14, 2017. Ground water sampling at the nine newly installed wells and twenty-six existing wells installed previously by various consultants were completed on November 7 to 10 and November 13 to 15, 2017. In addition, three surface water samples were obtained from the former intake channel to assess the quality of surface water within the southern portion of the site.

Soil samples were collected from the 12 test holes and 4 of the 18 test pits (TP11 to TP14) and submitted to the laboratory for analysis of benzene, toluene, ethylbenzene and xylenes (BTEX), petroleum hydrocarbon (PHC) fractions F1 to F4, polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs) and/or metals and inorganics. Thirty-five ground water samples were collected for the analysis of PAHs, PHC fractions F1 to F4, volatile organic compounds (VOCs) including BTEX and/or metals and inorganics.

The Ministry of Environmental and Climate Change (MOECC) Table 3 Standards for a residential/parkland/institutional property use with medium to fine textured soils were deemed appropriate for evaluating soil and ground water conditions across most of the site. In areas where the depth to the bedrock is less than 2 metres (former Powerhouse area), the MOECC Table 7 Standards for shallow soils in a non-potable ground water condition were deemed appropriate. In areas within 30 metres of Lake Ontario, the MOECC Table 9 Standards for use within 30 metres of a water body in a non-potable ground water condition were deemed appropriate.

1. Soil and ground water results outside 30 metres of Lake Ontario

The soil samples collected from test holes TH101 to TH112 and TP11 and TP13 were within the MOECC Table 3 Standards for all parameters analyzed with the following exceptions:

- One soil sample (TH108-SS1), collected from the sand and gravel fill at 0 to 0.60 mbgs, exhibited a concentration of lead that exceeded the Table 3 Standards;
- One soil sample (TH110-SS1), collected from the sand and gravel fill at 0 to 0.60 mbgs, exhibited a concentration of selenium that exceeded the Table 3 Standards;
- One soil sample (TH111-SS2), collected from the sand and gravel fill at 0.76 to 1.37 mbgs, exhibited a concentration of PHC fraction F2 that exceeded the Table 3 Standards;
- One soil sample (TP14-2m), collected from the sand and gravel fill at 2.0 to 3.0 mbgs, exhibited a concentration of PHC fraction F2 that exceeded the Table 3 Standards.

The ground water samples were within the MOECC Table 3 Standards for all property uses with medium to fine textured soil for all parameters analyzed, with the following exceptions:

- One ground water sample (MW1-16, screened from 1.06 to 4.11 mbgs), exhibited a concentration of PHC fraction F2 that exceeded the Table 3 Standards; and
- One ground water sample (TH110, screened from 1.06 to 4.11 mbgs), exhibited concentrations of PHC fractions F2 and F3 that exceeded the Table 3 Standards.

Exceedances of the MOECC generic Standards do not necessarily mean there is an unacceptable risk to human health or the environment. There are no concerns associated with the current site status.

2. Soil and ground water results in areas of shallow bedrock

Soil samples were obtained from one location (TH112) at depths ranging from 1.52 to 2.13 mbgs, in the area where the former transformers were located, and petroleum impacted soil was identified. Soil samples were analyzed for PHC fraction F1 to F4, BTEX and PCBs. The soil samples were within the MOECC Table 7 Standards for all parameters analyzed.

Ground water samples were obtained from five locations (MW219, MW215, MW232, MW233 and TH112) located within and immediately surrounding the footprint of the Powerhouse. Ground water samples were analyzed for PHC fractions F1 to F4 and VOCs. The ground water samples were within the MOECC Table 7 Standards for all property uses with medium to fine textured soil for all parameters analyzed.

3. Soil and ground water results within 30 metres of Lake Ontario

The soil samples collected from test pits TP10 and TP12 were within the MOECC Table 9 Standards for all parameters analyzed with the following exceptions:

- One soil sample (TP12-2m), collected from the sand and gravel fill at 1.0 to 2.0 mbgs, exhibited concentrations of PHC fractions F2 and F3 that exceeded the Table 9 Standards; and
- One soil sample (TP13-2.5m), collected from the sand and gravel fill at 2.5 to 3.0 mbgs, exhibited concentrations of PHC fractions F1, F2 and F3 that exceeded the Table 9 Standards.

The ground water samples were within the MOECC Table 9 Standards for all property uses with medium to fine textured soil for all parameters analyzed with the following exception:

- One ground water sample (TMW301, screened from 1.06 to 4.11 mbgs), exhibited concentrations of PHC fraction F2 that exceeded the Table 9 Standards; and
- One ground water sample (MW5-05, screened from 2.29 to 5.33 mbgs), exhibited concentrations of PHC fraction F2 that exceeded the Table 9 Standards.

Exceedances of the MOECC generic Standards do not necessarily mean there is an unacceptable risk to human health or the environment. There are no concerns associated with the current site status, however additional environmental assessment work will be required to support a change to a more sensitive land use in accordance with O. Reg. 153/04.

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1. Introduction

EXP Services Inc. (EXP) was retained by Lakeview Community Partners Limited to conduct a Due Diligence Phase II Environmental Site Assessment for the property located at 800 Hydro Road, Mississauga, Ontario (herein referred to as "site" or "subject property").

The objective of the investigation was to evaluate the potential environmental risks associated with soil and ground water quality at the site. The work was done in support of a potential real estate transaction. At the time of the investigation, the site was owned by Ontario Power Generation Inc. (OPG).

EXP was retained to conduct the environmental assessment by Mr. John Dill of Lakeview Community Partners Limited.

The environmental assessment Standards for the subject property were determined using Ontario Regulation (O. Reg.) 153/04 under Part XV.1 of the *Environmental Protection Act*. Soil and ground water samples were submitted to AGAT Laboratories Inc., an accredited laboratory.

The environmental assessment for the subject property was conducted in accordance with Canadian Standards Association (CSA) "CSA Z769-00 (R2013), *Phase II Environmental Site Assessment*" Standards, and generally accepted professional practices. In addition, it is understood that a transition to a more sensitive land use is intended, and that a Record of Site Condition (RSC) filing is required in the future. Therefore, the sampling work for the assessment was done per O. Reg. 153/04. The data collected may be used to supplement any future work in support of the RSC filings.

Subject to this standard of care, EXP makes no express or implied warranties regarding its services and no third party beneficiaries are intended. Figures and tables referenced throughout the report are provided at the beginning of the Appendices. EXP's limitations are outlined in Appendix A.

EXP personnel who conducted assessment work for this project included Ms. Carla Reynolds (QP_{ESA}), Mr. Travis Tan (QP_{ESA}) and Mr. Ajay Jayalath. An outline of their qualifications is provided in Appendix B.

1.1 Property Information

The site is situated south of Lakeshore Road East, adjacent to the Lakefront Promenade Park and Lakeview Water Treatment Plant in Mississauga. The site was first developed as the former OPG Lakeview Coal Generating Plant in the late 1950s; the coal-fired power plant ceased operations in 2005, and was decommissioned and demolished between 2006 and 2008. The site is comprised of approximately 71.6 hectares (177 acres), intended to be redeveloped as follows:

- 27.1 hectares (67 acres), including the adjacent water lots, along the north shore of Lake Ontario, will be developed as "Municipal Lands"; and,

- 44.5 hectares (110 acres) north of the Municipal Lands to be developed for mixed use purposes, the “Development Lands”.

The approximate Universal Transverse Mercator (UTM) coordinates for the site centroid are NAD83 17-4825552N 616987E. The UTM coordinates were based on Global Positioning System (GPS) measurements obtained from Google Earth (2017).

A Locality Plan is attached as Figure 1.

2. Background Information

2.1 Physical Setting

The site is located in the physiographic region identified as the Iroquois Plain. The native surficial soils in this region are predominantly composed of older glacial ice deposits, typically silty clay to silt till (*Physiography of Southern Ontario*, Chapman and Putnam, 1984). According to the Geological Survey of Canada map of the area (*Southern Ontario, 1:1,000,000 Scale, Sheet 30S, Map 1355A*), the underlying bedrock geology comprises shale, limestone, dolomite, and siltstone of the Queenston Formation of the Upper Ordovician period.

According to the Geological Survey of Canada map of Southern Ontario (Bedrock Topography of the Greater Toronto and Oak Ridges Moraine Areas, Southern Ontario, Brennand et al., 1998), the bedrock elevation of the subject property is approximately 75 metres above sea level (masl), and is approximately even with the surface water level of Lake Ontario, located directly south of the site.

The topography in the vicinity of the subject property is relatively flat. Topographic maps of Mississauga (*Ontario Ministry of Natural Resources, Sheet 10 17 6150 48200, Ontario Base Map Series 1:10,000:1984; CanVec Series, Map 30 M/12, Edition 1.1, 1:25,000 Scale, Government of Canada, Natural Resources Canada, Earth Sciences Sector, Centre for Topographic Information, 2009*) were reviewed. The topographic contours indicate ground water is expected to flow southeast towards Lake Ontario.

Lake Ontario is located directly south of the site; the site includes an approximately 14.4 hectare (35.6 acre) water lot. Local and regional ground water flow is anticipated to be in the southerly to southeasterly direction towards Lake Ontario.

Based on the Ministry of Natural Resources and Forestry’s “Make a Map: Natural Heritage Areas” the site is not located within 30 metres of any of the following:

- An area reserved or set apart as a provincial park or conservation reserve under the Provincial Parks and Conservation Reserves Act, 2006;
- An area of natural and scientific interest (life science or earth science) identified by the Ministry of Natural Resources as having provincial significance;
- A wetland identified by the Ministry of Natural Resources as having provincial significance;

- An area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act;
- An area identified by the Ministry of Natural Resources as significant habitat of a threatened or endangered species;
- An area which is habitat of a species that is classified under section 7 of the Endangered Species Act, 2007 as a threatened or endangered species;
- Property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies; and,
- An area set apart as a wilderness area under the Wilderness Areas Act.

Information available on the Ministry of Natural Resources (MNR) website indicated that the site is not located on or within 30 metres of any ANSIs including provincial parks, conservation reserves, wilderness areas, or wetlands.

The subject property is not located in the Niagara Escarpment Planning Area as designated under the Niagara Escarpment Planning and Development Act (2009) nor in the Oak Ridges Moraine Area as designated under the Oak Ridges Moraine Conservation Act (2001).

Table 1 summarizes the environmental setting and site characteristics. Well response tests (rising head) were completed by Golder at two locations (BH3 and BH7) in 1998 and at three locations (MW13-02, MW13-14 and MW13-19) in 2013. A review of the single well response tests indicates a horizontal hydraulic conductivity range of 1.0×10^{-4} cm/s to 2.0×10^{-3} cm/s within the overburden fill. An average of the hydraulic conductivities, a value of 1.05×10^{-3} cm/s, was used to calculate ground water flow velocity. Based on a hydraulic gradient of 0.001 m/m and an effective porosity of 15% (McWhorter and Sunada, 1977), Darcy's Law was used to calculate the ground water flow velocity through the overburden fill. The ground water flow velocity was calculated to be approximately 2.21 metres per year. The Darcy's Law calculation is provided in Table 2.

2.2 Past Investigations

Extensive environmental assessments were carried out in the past to characterize both soil and ground water in areas where potentially contaminating activities (PCAs) may have taken place. The laboratory analytical results indicate that concentrations of polycyclic aromatic hydrocarbons (PAHs), and metal and inorganic parameters exceed the applicable MOECC Standards in soil at sporadic locations across the site. The impacts are likely sourced from poor quality industrial fill material that may have been imported onto the site, and the extensive use of coal for power generation. Petroleum-related contaminants were encountered in soil and ground water; the most extensive impacts were found in the southern portion of the site, between the former Powerhouse building to the north and the Lake Ontario intake channel to the south. These impacts resulted from historical site activities, such as the operation of the combustion turbine units (CTUs), and leakage from underground tanks used for storing ignition oil. Liquid petroleum was encountered in the ground in this area. Other contaminants of concern (COCs) include polychlorinated biphenyls (PCBs) from transformer oil.

A number of remediation programs were carried out on the site. In 2007, O' Connor Associates completed a remedial excavation of the former Switchyard (north of the former Powerhouse). The soil in this area was remediated to the 2004 Table 3 Standards for an industrial land use. The same year, Conestoga Rover Associates (CRA), also completed a remediation of the former Coal Yard (eastern half of the site) to the 2004 Table 3 Standards for an industrial land use, and an RSC was filed and acknowledged by the MOECC. A vacuum extraction system operated between 2011 and 2014 to remove the liquid petroleum encountered in the subsurface in the area of the former pumphouses #1 and #2 (south of the Powerhouse). Reportedly, liquid petroleum has not been encountered since 2012.

Site Plans showing the former site configuration are attached as Figures 2A and 2B.

3. Soil and Ground Water Investigation

3.1 Site Condition Standards

This site is not considered to be potentially sensitive. There are no areas of natural or scientific interest on or immediately adjacent to the site. Based on previous environmental assessment work by GHD (GHD, 2015), pH levels measured in soil were within the range of 5 to 9, the acceptable range for non-sensitive site under O. Reg. 153/04, with the exception of 3 samples that had pH ranging from 10.3 to 11.5. The 3 samples were taken from the former Powerhouse area, where there was widespread concrete material, which could have caused the increase in pH. Therefore, it is assumed for the purpose of this due diligence assessment, that soil pH across the site is within 5 to 9. For the future RSC filing, re-sampling of soil pH, or spot remediation, at the locations where the elevated pH levels were measured, will be required.

Bedrock across much of the site is present at a depth greater than 2.0 metres below ground surface (mbgs). Around the Powerhouse, bedrock was encountered at shallower, at depths of about 0.6 to 2 mbgs. South of the Powerhouse, the depth to bedrock increases as a result of the historical infilling of the lake; the depth to bedrock ranges from about 4 to 5 mbgs.

Given the above information, and considering the proposed residential/commercial land use, it is determined that the applicable Site Condition Standards (SCS) for the site are as follows:

- Table 3 Standards for residential/commercial property use with medium to fine textured soils for the portion of the site greater than 30 metres from a water body;
- Table 7 Standards for residential/commercial property use with medium to fine textured soils for the portion of the site with shallow bedrock (Powerhouse area); and
- Table 9 Standards for residential/commercial property use for properties within 30 metres of a water body with medium to fine textured soils.

The Powerhouse area, where the Table 7 Standards apply, and the area within 30 metres of a water body (Lake Ontario), where the Table 9 Standards apply, is shown on Figures 2A and 2B.

3.2 Subsurface Investigation Methodology

EXP performed the environmental assessment following the requirements of CSA Z769-00 Standards and in accordance with generally accepted professional practices. In addition, it is understood that a transition to a more sensitive land use is intended, and that RSC filings will be required in the near future. Therefore, the sampling work for the Subsurface Assessment was done per O. Reg. 153/04. The data collected may be used to supplement any future work in support of the RSC filings.

The drilling investigation was conducted on November 6 to 10 and 13, 2017. Pontil Drilling Ltd. was contracted by EXP to advance twelve test holes (TH101 to TH112) in the areas of potential environmental concern to characterize the quality of soil and ground water. Additional test holes were advanced as part of a separate geotechnical investigation on the site, also performed by EXP and summarized in a separate report. The geotechnical test holes were advanced to a maximum depth of 15.25 mbgs using a track-mounted CME-75 conventional drill rig, equipped with a split spoon sampling system.

The test pitting investigation was conducted on November 14, 2017. Clarkway Construction was contracted by EXP to advance 18 test pits (TP1 to TP18) at the subject property. The test pits were advanced to a maximum depth of 3.5 mbgs using a track-mounted excavator. A minimum of one representative soil sample was collected from each soil strata observed in each test pit for field screening purposes. Test pits, which were advanced below the ground water table, were left open for a few hours to allow ground water to accumulate in the test pits; no free floating petroleum was observed on the ground water in the test pits.

Test holes and test pit logs are provided in Appendix C.

Worst-case soil samples were selected from each of the test holes and 4 test pits advanced in the CTU area (TP11 to TP14) for laboratory analysis. A deeper delineation soil sample was also retained for potential analysis, if required. The soil samples selected for laboratory analysis were immediately placed into laboratory prepared glass jars, labelled, and stored in a cooler with ice at less than 10°C. Soil samples were analysed for potential COCs: PHC fractions F1 to F4, volatile organic compounds (VOCs) including benzene, toluene ethylbenzene and xylenes (BTEX), PCBs, PAHs and metals and inorganic parameters.

Nine of the newly advanced test holes were completed as ground water monitors (TH101, TH102, TH104, TH105, TH108, TH109, TH110, TH111 and TH112). Screen intervals were selected to straddle the ground water table to intercept floating liquid petroleum, if any. TH101 and TH102 were advanced to a greater depth to evaluate any potential dense non-aqueous phase liquid migrating from upgradient properties located north of the site. Monitor construction details are included in the test hole logs (Appendix C).

Prior to collecting the ground water samples, the monitors were developed by removing a minimum of three well volume equivalents of ground water or purging to dryness using a dedicated bailer.

Ground water sampling was conducted on November 7, 8, 10, and 13 to 15, 2017 at twenty-five existing monitors MW1-06, MW23-07, MW5-05, MW5-06, MW250, MW215, MW219, MW232, MW233, MW240, MW3-16, MW225, TMW301, MW255, MW13-13, MW13-15, MW1-16, MW211, TRW-12, TMW303, TRW-4, TMW306, MW2-14, MW3-14 and MW5-14; and the nine newly installed monitors (TH101, TH102, TH104, TH105, TH108, TH109, TH110, TH111 and TH112). The ground water samples selected for laboratory analysis were immediately placed into laboratory prepared glass bottles and vials, labelled, and transported to the laboratory stored in a cooler with ice at less than 10°C. Samples were analyzed for PHC fractions F1 to F4, PAHs, VOCs including BTEX and metals.

All laboratory analyses were completed by AGAT Laboratories, an accredited laboratory located in Mississauga, Ontario.

3.3 Field Screening Measurements

Readings of the petroleum vapour concentrations in the soil samples collected during the drilling and test pitting investigation were measured using a RKI Instruments Eagle 2, where there was sufficient recovery. This instrument is designed to detect and measure concentrations of combustible gas in the atmosphere. It is equipped with two ranges of measurement, reading concentrations in parts per million by volume (ppmv) or in percentage lower explosive limit (LEL). The RKI Eagle 2 instrument can determine combustible vapour concentrations in the range equivalent to 0 to 11,000 ppmv of hexane. The instrument was configured to eliminate any response from methane for all sampling conducted at the site. Instrument calibration is checked on a daily basis in the LEL range using standard gases comprised of a known concentration of hexane in air. If the instrument readings are within $\pm 10\%$ of the standard gas value, then the instrument is deemed to be calibrated, however if the readings are greater than $\pm 10\%$ of the standard gas value then the instrument is re-calibrated prior to use. The vapour concentrations are accurate to within $\pm 5\%$ of reading or $\pm 2\%$ LEL (whichever is greater) in the 0-100% LEL range and to within ± 50 ppm or $\pm 10\%$ of reading (whichever is greater) in the 0-50,000 ppm range.

Measured petroleum vapours ranged from non-detectable (<25 ppm) to 325 ppm in samples taken from TH101 to TH112 and TP1 to TP18 where there was sufficient recovery to perform vapour measurements. Sample selection for laboratory analysis was determined based on visual observation, odour, and petroleum vapour readings from the RKI Eagle 2.

All measurements of ground water and liquid petroleum (if any) depth were made with a Solinst Model 122 oil/water interface probe. Both the probe and the measuring tape that came into contact with liquids within the monitor are cleaned with Alconox detergent, and then rinsed with distilled water and methanol and allowed to air dry after each measurement. A bailer is also used to check the monitor for the presence of phase-separated liquid petroleum.

No liquid petroleum was observed or measured in any of the monitors.

3.4 Soil and Ground Water Chemical Analysis

During the drilling and test pitting, conducted on November 6 to 10 and 13 to 14, 2017, worst-case soil samples were selected from each of the test holes and 4 test pits advanced in the CTU area (TP11 to TP14) for laboratory analysis of potential COCs, including PHC fractions F1 to F4, PCBs, VOCs (including BTEX), PAHs and metals and inorganics.

Ground water sampling was conducted on November 7, November 8, November 10, November 13 to 15, 2017 at the twenty-five existing monitors and nine newly installed monitors. The ground water samples selected for laboratory analysis were immediately placed into laboratory prepared glass bottles and vials, labelled, and transported to the laboratory stored in a cooler with ice at less than 10°C. Samples were analyzed for PHC fractions F1 to F4, PAHs, VOCs (including BTEX) and metals.

The results of the chemical analyses are discussed below, by area. The approximate boundaries of the areas are shown on Figure 2B. The Laboratory Certificates of Analysis are attached as Appendix D.

Recreational and Transmission Line Area

Soil samples were obtained from one location (TH102) at depths ranging from 0.0 to 4.20 mbgs. A field duplicate (TH102-SS101) was obtained for one of the samples (TH102-SS1) and analyzed for the same parameters. Samples were analyzed for PAHs and metals to evaluate the potential impact related to fill of unknown quality in the ball diamond area, at the northwest portion of the recreational area.

The soil samples collected from TH102 were within the MOECC Table 3 Standards for all parameters analyzed. The results of the soil chemical analyses and the MOECC Table 3 Standards are provided in Table 3a.

Ground water samples were obtained from six monitors (TH101, TH102, MW2-14, MW3-14, MW5-14 and MW250) screened at depths ranging from 2.13 to 15.24 mbgs. Ground water samples were analyzed for PHC fractions F1 to F4 and VOCs to evaluate the potential of on-coming ground water impacts upgradient off-site properties. TH101 and TH102 were screened at a greater depth to evaluate any potential liquid phase solvent migrating from upgradient properties located north of the site. TH101 was screened from 6.1 to 7.6 mbgs in the bedrock and TH102 was screened from 14.3 to 15.2 mbgs.

The ground water samples were within the MOECC Table 3 Standards for all property uses with medium to fine textured soil for all parameters analyzed. The results of the ground water chemical analyses and the MOECC Table 3 Standards are provided in Table 3b.

Switchyard Area

Soil samples were obtained from three locations (TH103, TH104 and TH105) at depths ranging from 0.0 to 6.71 mbgs, in the areas where soil impacts related to transformer fluid were historically found and remediated. Soil samples were analyzed for PHC fractions F1-F4, BTEX and PCBs to evaluate the potential impacts related to transformer fluids.

The soil samples were within the MOECC Table 3 Standards for all parameters analyzed. The results of the soil chemical analyses and the MOECC Table 3 Standards are provided in Table 4a.

Ground water samples were obtained from two monitors (TH104 and TH105) screened at depths ranging from 5.49 to 8.53 mbgs. Ground water samples were analyzed for PHC fractions F1 to F4 and BTEX. Due to their limited solubility in water, and absence in the soil, ground water is not likely to be impacted by PCBs, and PCBs were therefore not analysed.

The ground water samples were within the MOECC Table 3 Standards for all property uses with medium to fine textured soil for all parameters analyzed. The results of the ground water chemical analyses and the MOECC Table 3 Standards are provided in Table 4b.

Powerhouse Area

Soil samples were obtained from one location (TH112) at depths ranging from 1.52 to 2.13 mbgs, in the area where the former transformers were located, and petroleum impacted soil was identified. Soil samples were analyzed for PHC fraction F1 to F4, BTEX and PCBs.

The soil samples were within the MOECC Table 7 Standards for all parameters analyzed. The results of the soil chemical analyses and the MOECC Table 7 Standards are provided in Table 5a. Copies of the Laboratory Certificates of Analysis are provided in Appendix D.

Ground water samples were obtained from five locations (MW219, MW215, MW232, MW233 and TH112) located within and immediately surrounding the footprint of the powerhouse. The monitors were screened from depths ranging from 0.91 to 4.27 mbgs. Ground water samples were analyzed for PHC fractions F1 to F4 and VOCs.

The ground water samples were within the MOECC Table 7 Standards for all property uses with medium to fine textured soil for all parameters analyzed. The results of the ground water chemical analyses and the MOECC Table 3 Standards are provided in Table 5b.

South of Powerhouse Area

Soil samples were obtained from 8 locations (TH106, TH108, TH109, TH110, TH111, TH112, TP11 and TP14), where the former induction fans, ignition oil USTs and CTU were located. The samples were collected at depths ranging from 0.0 to 3.66 mbgs. Soil samples were analyzed for PHC fractions F1 to F4 including BTEX, PAHs and metals and inorganics.

The soil samples collected were within the MOECC Table 3 Standards for all parameters analyzed with the following exceptions:

- One soil sample (TH108-SS1), collected from the sand and gravel fill at 0 to 0.60 mbgs, exhibited a concentration of lead that exceeded the Table 3 Standards;
- One soil sample (TH110-SS1), collected from the sand and gravel fill at 0 to 0.60 mbgs, exhibited a concentration of selenium that exceeded the Table 3 Standards;
- One soil sample (TH111-SS2), collected from the sand and gravel fill at 0.76 to 1.37 mbgs, exhibited a concentration of PHC fraction F2 that exceeded the Table 3 Standards; and
- One soil sample (TP14-2m), collected from the sand and gravel fill at 2.0 to 3.0 mbgs, exhibited a concentration of PHC fraction F2 that exceeded the Table 3 Standards.

The results of the soil chemical analyses and the MOECC Table 3 Standards are provided in Table 6a.

Ground water samples were obtained from eleven locations (MW3-16, MW13-15, TH108, MW255, MW225, MW240, MW211, MW1-16, TH109, TH110 and TH111) screened at depths ranging from 1.07 to 4.57 mbgs. Two field duplicates (TH1000, MW2559) were obtained and analyzed for the same parameters as the original samples (TH109 and MW255). Ground water samples were analyzed for PHC fractions F1 to F4, VOCs and metals and inorganic parameters.

The ground water samples were within the MOECC Table 3 Standards for all property uses with medium to fine textured soil for all parameters analyzed with the following exceptions:

- One ground water sample (MW1-16, screened from 1.06 to 4.11 mbgs), exhibited a concentration of PHC fraction F2 that exceeded the Table 3 Standards; and
- One ground water sample (TH110, screened from 1.06 to 4.11 mbgs), exhibited concentrations of PHC fractions F2 and F3 that exceeded the Table 3 Standards.

The results of the ground water chemical analyses and the MOECC Table 3 Standards are provided in Table 6b.

Area Within 30 metres of a Water Body

Two test pits were advanced south of the powerhouse, in close proximity to the Intake Channel, to evaluate the soil conditions in the area of the former oil pumphouse. The soil samples were collected at depths ranging from 1.0 to 3.0 mbgs, and were analyzed for PHC fractions F1 to F4 including BTEX. Both test pit samples had concentrations of petroleum-related parameters exceeding the Table 9 Standards:

- One soil sample (TP12-2m), collected from the sand and gravel fill at 1.0 to 2.0 mbgs, exhibited concentrations of PHC fractions F2 and F3 that exceeded the Table 9 Standards; and
- One soil sample (TP13-2.5m), collected from the sand and gravel fill at 2.5 to 3.0 mbgs, exhibited concentrations of PHC fraction F1, F2 and F3 that exceeded the Table 9 Standards.

The results of the soil chemical analyses and the MOECC Table 9 Standards are provided in Table 7a.

Ground water samples were obtained from six monitors (TRW4, TRW12, TMW301, TMW303, TMW306, and MW13-13) located south of the powerhouse along the intake channel, and one monitor (MW05-05) located south of the former coal pile effluent pond. The monitors were screened at depths ranging from 1.07 to 4.11 mbgs. Two field duplicates (TR43 and TRW129) were obtained and analyzed for the same parameters as the original samples (TR4 and TRW12, respectively). Ground water samples were analyzed for PHC fractions F1 to F4, VOCs, PAHs and/or metals and inorganic parameters.

The ground water samples were within the MOECC Table 9 Standards for all property uses with medium to fine textured soil for all parameters analyzed with the following exceptions:

- One ground water sample (TMW301, screened from 1.06 to 4.11 mbgs), exhibited a concentration of PHC fraction F2 that exceeded the Table 9 Standards; and
- One ground water sample (MW5-05 screened from 2.29 to 5.33 mbgs), exhibited a concentration of PHC fraction F2 that exceeded the Table 9 Standards.

The results of the ground water chemical analyses and the MOECC Table 9 Standards are provided in Table 7b.

Former Coal Yard Area

There were no data gaps for soil in the former Coal Yard area, thus, soil samples were not collected.

Ground water samples were obtained from three monitors (MW1-06, MW5-06 and MW23-07) from depths ranging from 0.76 to 4.42 mbgs. MW5-06 is located in the former maintenance garage area, where petroleum-related impacts were remediated. Ground water samples were analyzed for PAHs, PHC fractions F1 to F4, VOCs and metals and inorganics.

The ground water samples were within the MOECC Table 3 Standards for all property uses with medium to fine textured soil for all parameters analyzed. The results of the ground water chemical analyses and the MOECC Table 3 Standards are provided in Table 8.

Intake Channel

Surface water samples were obtained from three locations (GR1, GR2 and GR3) from the surface of the intake channel.

The results were compared to the Aquatic Protection Values (APVs) published in the *Rationale For The Development Of Soil And Ground Water Standard For Use At Contaminated Sites in Ontario* Document by the MOECC in 2011. All parameters analysed were below the laboratory detection limits, however, the following parameters had detection limits that exceeded the APV:



acenaphthylene, benzo(a)anthracene, benzo(g,h,i)perylene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene and silver. The concentrations of all PAHs and metals are below the laboratory detection limits. Furthermore, PAHs and metals are within the Table 9 Standards in all the ground water samples collected in monitors located in close proximity of the intake channel. Therefore, it is unlikely that the exceedances (of the detection limits) are indicative of actual presence of COCs in the surface water.

The results of the surface water chemical analyses and the corresponding APVs are provided in Table 9.

The above noted soil and ground water exceedances of the generic Standards do not necessarily mean that there is unacceptable risk to human health or the environment, however additional environmental assessment work will be required to support an RSC.

Copies of the Laboratory Certificates of Analysis are provided in Appendix D.

4. Review and Evaluation

4.1 Geology

Site stratigraphy was generally observed to consist of sand and gravel fill to a maximum depth of about 2.57 mbgs, underlain by a clayey silt fill to a maximum depth of about 4 mbgs, underlain by silt to clayey silt till, which extends to the shale bedrock. The bedrock is found at varying depths across the site. The depth to bedrock in the northern portion of the site ranges from about 3.5 mbgs to beyond 15.3 mbgs, with the greatest depths found at the northwest portions (at TH102). Around the powerhouse, bedrock is shallower, at depths of about 0.6 to 2 mbgs. South of the powerhouse, the depth to bedrock increases as a result of the historical infilling of the lake. The depth to bedrock ranges from about 4 to 5 mbgs south of the powerhouse.

It is to be noted that EXP did not advance any test holes in the Coal Yard area. Based on a historical drilling investigation by CRA in 2008, the site stratigraphy was generally observed to consist of fill consisting of topsoil, gravel, and trace coal to a maximum depth of about 0.6 mbgs, underlain by sandy silt with cobbles to a maximum depth of about 3.7 mbgs, underlain by clayey silt till to a maximum depth of about 3.81 mbgs, which extends to the shale bedrock. Bedrock is found at various depths across the site, ranging from 3.81 mbgs to 5.33 mbgs.

It is also to be noted that concrete slabs were encountered at surficial depths in several test hole/test pit locations (TH107, TP3, TP15, TP16 and TP17) advanced in areas immediately around the Powerhouse and to the south of the powerhouse. Crushed concrete, brick and gravel fill were encountered at TP8 and TP18 up to the maximum depth investigated of 3 mbgs.

4.2 Ground Water: Depths and Flow Direction

The screened intervals of the monitoring wells were: 6.09 to 7.62 mbgs at TH101, 14.33 to 15.24 mbgs at TH102, 5.48 to 8.53 mbgs at TH104 and TH105, 1.52 to 4.57 mbgs at TH108, 0.91 to 3.96 mbgs at TH109 and TH111, 1.52 to 4.72 mbgs at TH110 and 1.21 to 4.27 mbgs at TH112. The intervals were chosen based on field observations during drilling in order to straddle the ground water table to intercept floating liquid petroleum, if any, with the exception of TH101 and TH102. TH101 and TH102 were screened deeper to evaluate the potential presence of liquid phase solvents and deep ground water impact migrating from the upgradient industrial/commercial properties onto the site.

The ground water depth was calculated based on the static water level measurement documented during the subsurface investigation using a Solinst Model 122 oil/water interface probe. The depth to ground water was measured to be between 1.25 mbgs (TH109) and 7.77 mbgs (TH105). No liquid petroleum was observed or detected in any of the monitors.

Taking into consideration the local topography and surface water features in the surrounding area, the regional ground water flow direction is inferred to be southerly to southeasterly towards Lake Ontario.

Table 1 summarizes the environmental setting and site characteristics. Well response tests (rising head) were completed by Golder at two locations (BH3 and BH7) in 1998 and at three locations (MW13-02, MW13-14 and MW13-19) in 2013. A review of the single well response tests indicates a horizontal hydraulic conductivity range of 1.0×10^{-4} cm/s to 2.0×10^{-3} cm/s within the overburden fill. An average of the hydraulic conductivities, a value of 1.05×10^{-3} cm/s, was used to calculate ground water flow velocity. Based on a hydraulic gradient of 0.001 m/m and an effective porosity of 15% (McWhorter and Sunada, 1977), Darcy's Law was used to calculate the ground water flow velocity through the overburden fill. The ground water flow velocity was calculated to be approximately 2.21 metres per year. The Darcy's Law calculation is provided in Table 2.

5. Conclusions

Based on the results of the soil analyses, the following conclusions are made:

- The soil sample taken from the ball diamond area, where imported fill material of unknown quality was suspected, exhibited no evidence of fill-related impacts. No putrescible materials or debris was encountered. Concentrations of metals and PAHs, the potential contaminants of concern typically associated with impacted fill, were within the MOECC Table 3 Standards for residential/parkland/institutional land uses, indicating the absence of fill-related impact.
- Soil samples taken from the former Switchyard area, where PCB contamination was historically identified and remediated, exhibited no evidence of PCB-related impacts; concentrations of PCBs, as well as PHC fractions F1 to F4, were within the Table 3 Standards.

- Two soil samples taken from the area south of the former Powerhouse had concentrations of metal parameters (lead and selenium) in exceedance of the Table 3 Standards. Lead and selenium were also identified as fill-related contaminants in previous environmental assessments and can be expected in fill across the site.
- Three soil samples taken from the area of the former CTUs (also south of the former powerhouse) had concentrations of PHC fractions F2 and F3 in exceedance of the Table 3 or 9 Standards. However, the concentrations were several times lower than the highest concentrations historically found in this area, indicating natural attenuation is ongoing. All other soil samples collected across the site had concentrations of PHCs within the Table 3, 7 or 9 Standards.

Based on the results of the ground water analyses, the following conclusions are made:

- The ground water samples taken along the northern property boundary exhibited no evidence of impact coming from upgradient industrial properties. Concentrations of all parameters analysed, including VOCs, were within the Table 3 Standards. This indicates it is unlikely that there are any on-coming ground water impacts.
- In the area south of the former powerhouse, where PHC impacts were historically widespread, 4 of the 17 sampling locations had exceedances of petroleum-related parameters (PHC fractions F2 and/or F3). Further, concentrations of PHCs were generally lower than historical maximums, indicating natural attenuation is ongoing.
- Ground water samples taken from the other 17 monitors across the site had concentrations of all parameters analysed within the Table 3, 7 or 9 Standards.
- Ground water samples taken from 7 monitors located close to Lake Ontario had concentrations of all parameters analysed within the Table 3, or 9 Standards.
- All of the parameters analysed in the 3 surface water samples taken from the intake channel were non-detectable for all parameters indicating that surface water in the intake channel is not impacted by on-site contaminations.

Exceedances of the MOECC generic Standards do not necessarily mean there is an unacceptable risk to human health or the environment. There are no concerns associated with the current site status, however additional environmental assessment work will be required to support a change to a more sensitive land use in accordance with O. Reg. 153/04. Remediation and/or risk assessment may be required to support the filing of any RSCs.

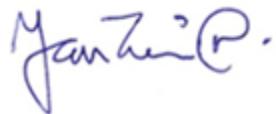
Client: Lakeview Community Partners Limited
Project Name: Subsurface Environmental Assessment
800 Hydro Road, Mississauga, Ontario
Project Number: MRK-00243747-A0
Date: December 22, 2017, Reissued March 2, 2018

Signatures

Respectfully submitted,
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6. References

1. Canadian Standards Association, *Z769-00 (R2013) Phase II Environmental Site Assessment*, 2000.
2. Chapman, L.J. and D.F. Putnam, *The Physiography of Southern Ontario*, Third Edition, Ontario Ministry of Natural Resources, 1984.
3. Conestoga- Rovers & Associates, *Phase Two Environmental Site Assessment, Former Powerhouse Area, Former Lakeview Generating Station, 800 Hydro Road, Mississauga, Ontario*, dated, June 2015.
4. GHD Limited., *Summary of Environmental Conditions- Future Municipal Park Lands, Former Lakeview Generating Station, 800 Hydro Road, Mississauga, Ontario*, dated, June 2016.
5. Golder Associates Ltd., Site Characterization Report Task 1 of the Phase II Environmental Site Assessment Lakeview Generating Station, 800 Hydro Road, Mississauga, Ontario, dated, December 1998.
6. Golder Associates Ltd., *Phase II Environmental Site Assessment – Pier Access*, 800 Hydro Road, Mississauga, Ontario, dated, February 2014.
7. Freeze, R.A. and J.A. Cherry, *Groundwater*, Prentice-Hall of Canada Ltd., 1979.
8. McWhorter and Sunada, *Groundwater Hydrology and Hydraulics*, 1977.
9. Ontario Geological Survey, *Bedrock Geology of Ontario*, Southern Sheet, Ontario Geological Survey Map 2544, Scale 1:1,000,000, 1991.
10. Ontario Regulation 153/04, Record of Site Condition, Part XV.1 of the *Environmental Protection Act*, July 1, 2011.
11. Ontario Ministry of the Environment, *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*, April 15, 2011.
12. Ontario Ministry of the Environment, *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*, December 1996.
13. Sharpe, D.R., *Quaternary Geology of Toronto and Surrounding Area*, Ontario Geological Survey Preliminary Map P. 2204, Geological Series, scale 1:100,000, 1980.

*Client: Lakeview Community Partners Limited
Project Name: Subsurface Environmental Assessment
800 Hydro Road, Mississauga, Ontario
Project Number: MRK-00243747-A0
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Appendices



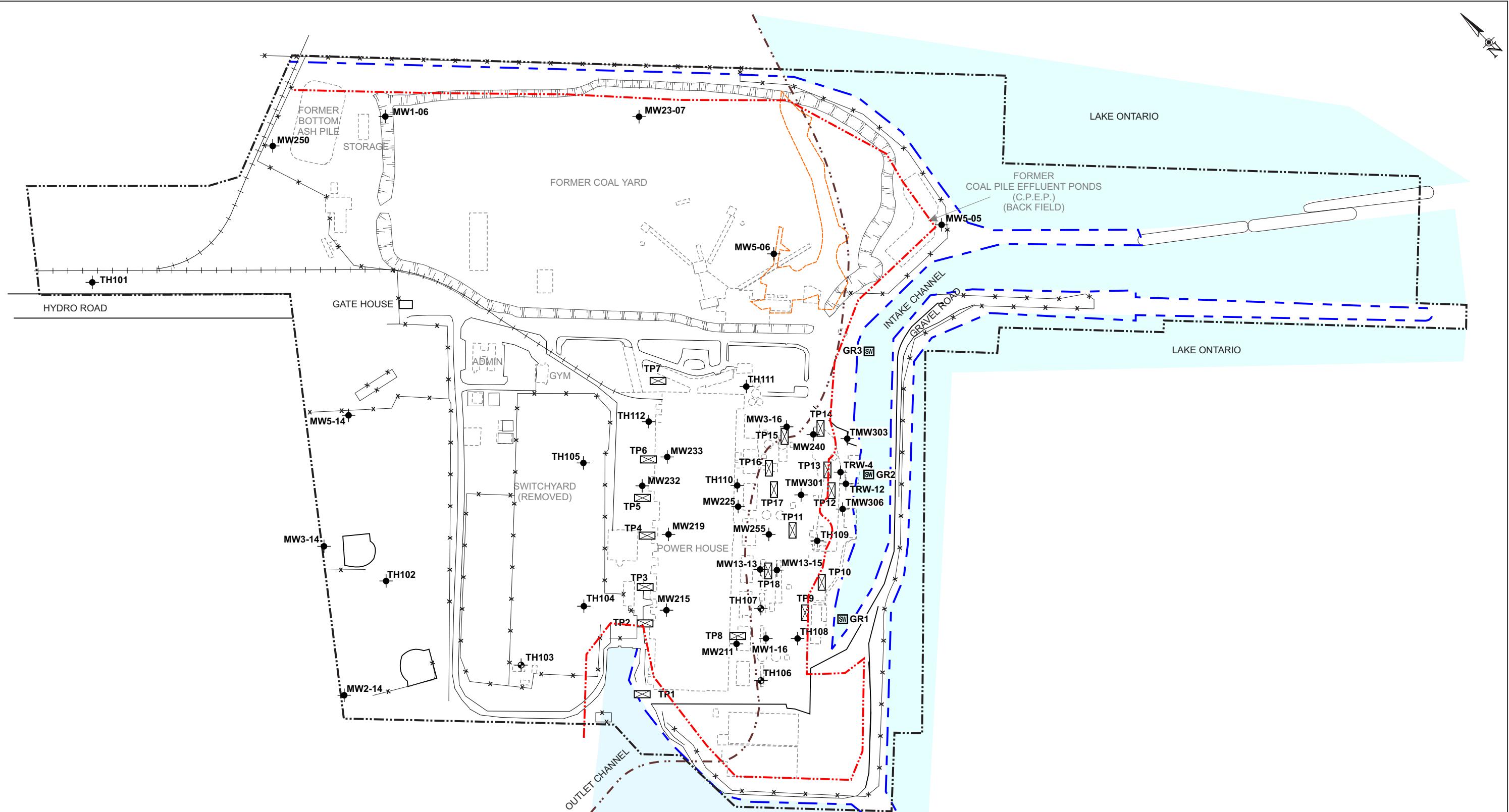
*Client: Lakeview Community Partners Limited
Project Name: Subsurface Environmental Assessment
800 Hydro Road, Mississauga, Ontario
Project Number: MRK-00243747-A0
Date: December 22, 2017, Reissued March 2, 2018*

Figures





| SCALE: | SOURCE: | LOCALITY PLAN | | FIGURE 1 |
|---|-------------|---------------|--|---------------------|
| 0 400 800m | GOOGLE MAPS | | | |
|  | DRAWN BY | CHECKED BY | 800 HYDRO ROAD MISSISSAUGA, ONTARIO | |
| | K.G. | T.T. | PROJECT NUMBER: 243747 | DATE: DECEMBER 2017 |



| | |
|--|-----------------------------|
| SCALE: | 0 100 200m (APPROXIMATE) |
| SOURCE: BASED ON PHASE TWO ENVIRONMENTAL ASSESSMENT (CRA, 2015), AND FIELD OBSERVATIONS BY EXP STAFF | |
| DRAWN BY | K.G. |
| CHECKED BY | T.T. |
| exp. | |

LEGEND:

- PROPERTY BOUNDARY
- FENCE LINE
- RAIL LINE
- CURRENT SHORE LINE
- SHORE LINE (PRIOR TO 1958)
- 30m DISTANCE FROM WATER BODIES
- APPROXIMATE LIMIT OF REMEDIAL EXCAVATION (2007)
- FORMER FEATURES
- WATER BODY

TEST HOLE WITH MONITOR
MW*-06 SERIES (CRA, 2006)
MW*-07 SERIES (CRA, 2007)
MW200 AND TMW SERIES (CRA, 2008)
MW13 SERIES (GOLDER, 2013)
TH SERIES (EXP, 2017)

TEST PIT (EXP, 2017)

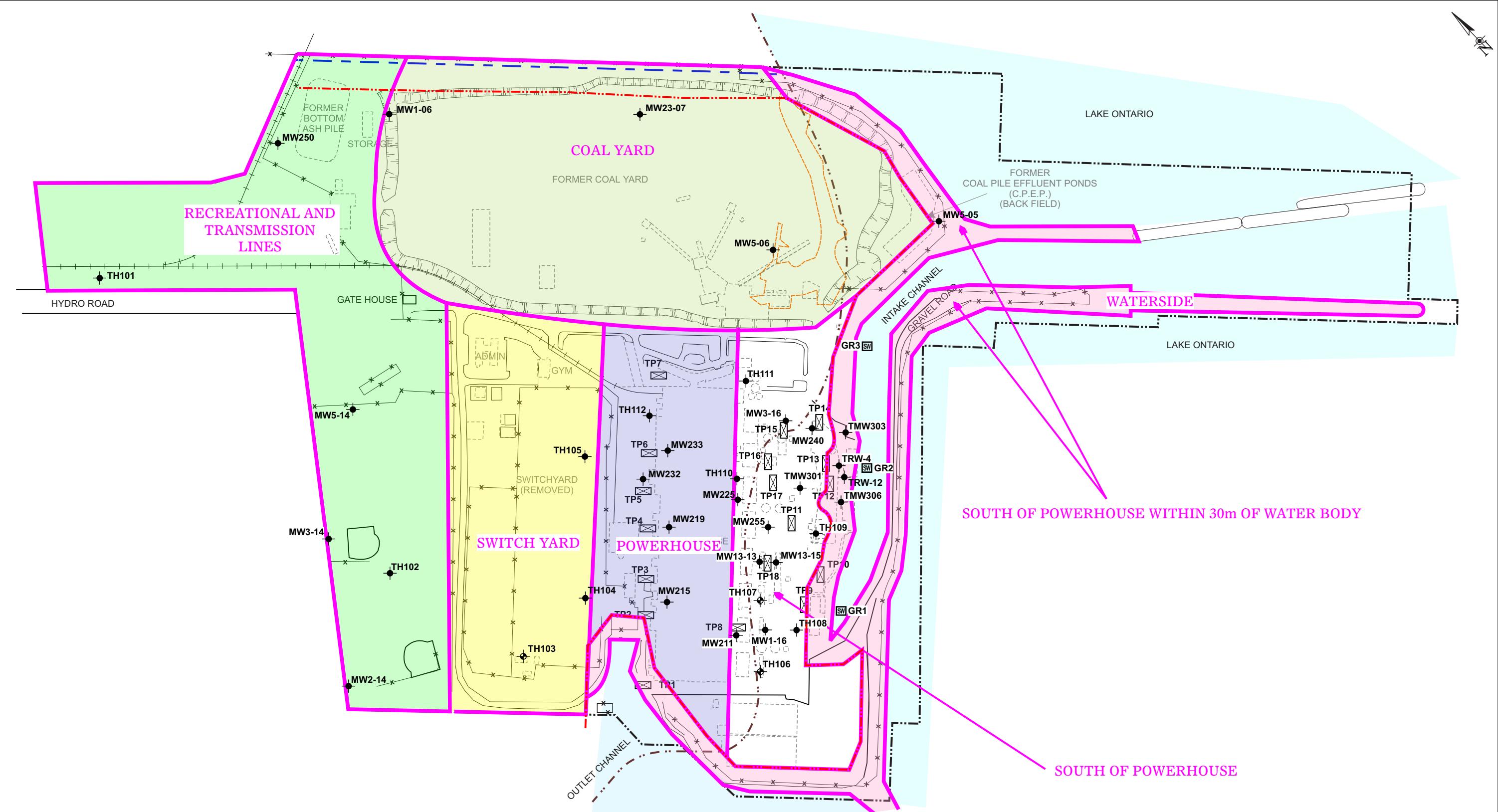
SURFACE WATER SAMPLE LOCATION (EXP, 2017)

SITE PLAN

FIGURE
2A

800 HYDRO ROAD
MISSISSAUGA, ONTARIO

PROJECT NUMBER: 243747 | DATE: DECEMBER 2017



| | |
|------------|--|
| SCALE: | 0 100 200m (APPROXIMATE) |
| SOURCE: | BASED ON PHASE TWO ENVIRONMENTAL ASSESSMENT (CRA, 2015), AND FIELD OBSERVATIONS BY EXP STAFF |
| DRAWN BY | K.G. |
| CHECKED BY | T.T. |

LEGEND:

- PROPERTY BOUNDARY
- FENCE LINE
- RAIL LINE
- CURRENT SHORE LINE
- SHORE LINE (PRIOR TO 1958)
- 30m DISTANCE FROM WATER BODIES

APPROXIMATE LIMIT OF REMEDIAL EXCAVATION (2007)
 FORMER FEATURES
 WATER BODY
 OPG BORDER

TEST HOLE WITH MONITOR
 MW*-06 SERIES (CRA, 2006)
 MW*-07 SERIES (CRA, 2007)
 MW200 AND TMW SERIES (CRA, 2008)
 MW13 SERIES (GOLDER, 2013)
 TH SERIES (EXP, 2017)

TEST PIT
 (EXP, 2017)

SW SURFACE WATER SAMPLE LOCATION
 (EXP, 2017)

SITE PLAN WITH AREAS

FIGURE 2B

800 HYDRO ROAD
 MISSISSAUGA, ONTARIO

PROJECT NUMBER: 243747 | DATE: DECEMBER 2017

*Client: Lakeview Community Partners Limited
Project Name: Subsurface Environmental Assessment
800 Hydro Road, Mississauga, Ontario
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Tables



Table 1: SITE ENVIRONMENTAL SETTING DATA

Page 1 of 1

800 Hydro Road, Mississauga, Ontario
December 2017

NATIVE SOIL

Type: Overburden Fill
Hydraulic Conductivity (select range)
 $> 10^{-3}$ cm/s:
 $< 10^{-3}$ to $> 10^{-6}$ cm/s: 1.05×10^{-3}
 $< 10^{-6}$ cm/s:
Soil Texture: Medium to fine
Estimated or Measured: Measured (Golder, 2008 and 2014)

GROUND WATER

Depth to Water Table: 1.25 to 7.77
Estimated or Measured: Measured (EXP, 2017)
Direction of Flow: Southerly to southeasterly
Estimated or Measured: Measured (GHD, 2017)

MUNICIPAL SERVICES

Piped Water: N/A
Ground Water Source: No
Distance to Well: N/A
Surface Water Source: Yes - Lake Ontario
Sanitary Sewer: Yes
Storm Sewer: Yes

PRIVATE SERVICES

Distance to Nearest Well: N/A
Approximate Depth of Well: N/A
Private Sanitary Sewage: No

SURFACE WATER

Name of water body: Lake Ontario
Distance from site: Immediately south of the site
Elevation drop from site: N/A
Direct Drainage from site: Yes

Table 2: DARCY'S LAW CALCULATIONS

Page 1 of 1

800 Hydro Road, Mississauga, Ontario
December 2017

$$Q = kia \quad v = ki/n \quad t = T/v$$

Permeability k (m/sec) = 1.05E-05
(cm/sec) = 1.05E-03

Gradient i (m/m) = 0.001

Effective Porosity n = 0.15

Thickness T (m) = NA

| | |
|------------------------|----------|
| Velocity v (m/sec) = | 7.00E-08 |
| (feet/sec) = | 2.30E-07 |
| (feet/day) = | 1.98E-02 |
| (feet/year) = | 7.24E+00 |
| (metres/year) = | 2.21E+00 |

- Hydraulic conductivity is an average of hydraulic conductivities measured by in 2008 and 2014.
- Permeability for silty sand based on published values (Freeze and Cherry, 1979).
- Effective porosity based on published values (McWhorter and Sunada, 1977).
- Gradient estimated based on slope of land.

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Table 3a: SOIL CHEMICAL ANALYSIS - Polycyclic Aromatic Hydrocarbons - Recreational and Transmission Line Area

800 Hydro Road, Mississauga, Ontario
December 2017

Page 1 of 2

| Sample I.D. | Units | RDL* | Test Hole TH102-SS2 | Test Hole TH102-SS6 | Ontario Regulation 153/04 Table 3 Soil Standards** |
|--------------------------------|-------|------|------------------------|------------------------|---|
| Depth (m) | | | 0.76 to 1.37 | 3.81 to 4.42 | |
| Soil Type | | | Clayey Silt Fill | Clayey Silt Till | |
| Date of Sample Collection | | | 8-Nov-17 | 8-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 20-Nov-17 | |
| Certificate of Analysis Number | | | 17T283430 | 17T283430 | |
| Laboratory I.D. | | | 8903255 | 8903257 | |
| 2-and 1-methyl Naphthalene | µg/g | 0.05 | <0.05 | <0.05 | 3.4 |
| Acenaphthene | µg/g | 0.05 | <0.05 | <0.05 | 58 |
| Acenaphthylene | µg/g | 0.05 | <0.05 | <0.05 | 0.17 |
| Anthracene | µg/g | 0.05 | <0.05 | <0.05 | 0.74 |
| Benzo(a)anthracene | µg/g | 0.05 | <0.05 | <0.05 | 0.63 |
| Benzo(a)pyrene | µg/g | 0.05 | <0.05 | <0.05 | 0.3 |
| Benzo(b)fluoranthene | µg/g | 0.05 | <0.05 | <0.05 | 0.78 |
| Benzo(g,h,i)perylene | µg/g | 0.05 | <0.05 | <0.05 | 7.8 |
| Benzo(k)fluoranthene | µg/g | 0.05 | <0.05 | <0.05 | 0.78 |
| Chrysene | µg/g | 0.05 | <0.05 | <0.05 | 7.8 |
| Dibenzo(a,h)anthracene | µg/g | 0.05 | <0.05 | <0.05 | 0.1 |
| Fluoranthene | µg/g | 0.05 | <0.05 | <0.05 | 0.69 |
| Fluorene | µg/g | 0.05 | <0.05 | <0.05 | 69 |
| Indeno(1,2,3-cd)pyrene | µg/g | 0.05 | <0.05 | <0.05 | 0.48 |
| Naphthalene | µg/g | 0.05 | <0.05 | <0.05 | 0.75 |
| Phenanthrene | µg/g | 0.05 | <0.05 | <0.05 | 7.8 |
| Pyrene | µg/g | 0.05 | <0.05 | <0.05 | 78 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppm (µg/g) and based on dry weight basis.

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for a residential/parkland/institutional property use with medium to fine textured soil.

*** The sum of 1- and 2-Methylnaphthalene concentrations must not exceed the soil Standard if both are detected.

Exceedances of Table 3 Standards are shown in **bold**.



243747

**Table 3a: SOIL CHEMICAL ANALYSIS - Metals and Inorganic Parameters -
Recreational and Transmission Line Area**

800 Hydro Road, Mississauga, Ontario

December 2017

Page 2 of 2

| Sample I.D. | Units | RDL * | Test Hole TH102-SS1 | Duplicate of TH102-SS1 TH102-SS101 | Ontario Regulation 153/04 Table 3 Soil Standards** |
|--------------------------------|------------------|-----------|------------------------|---------------------------------------|---|
| Depth (m) | | | 0.0 to 0.61 | 0.0 to 0.61 | |
| Soil Type | Clayey Silt Fill | 8-Nov-17 | Clayey Silt Fill | Clayey Silt Fill | |
| Date of Sample Collection | | | 8-Nov-17 | 8-Nov-17 | |
| Date of Sample Analysis | | 20-Nov-17 | 20-Nov-17 | 20-Nov-17 | |
| Certificate of Analysis Number | | | 17T283430 | 17T283430 | |
| Laboratory I.D. | | 8903249 | 8903249 | 8903254 | |
| Antimony | µg/g | 0.8 | <0.8 | <0.8 | 7.5 |
| Arsenic | µg/g | 1 | 6 | 5.0 | 18 |
| Barium | µg/g | 2 | 80 | 85.0 | 390 |
| Beryllium | µg/g | 0.5 | 0.8 | 0.8 | 4 |
| Boron | µg/g | 5 | 11 | 12.0 | 120 |
| Cadmium | µg/g | 0.5 | <0.5 | <0.5 | 1.2 |
| Chromium | µg/g | 2 | 27 | 29.0 | 160 |
| Cobalt | µg/g | 0.5 | 15.0 | 15.5 | 22 |
| Copper | µg/g | 1 | 35 | 31.0 | 140 |
| Lead | µg/g | 1 | 17 | 23.0 | 120 |
| Molybdenum | µg/g | 0.5 | <0.5 | <0.5 | 6.9 |
| Nickel | µg/g | 1 | 32 | 32.0 | 100 |
| Selenium | µg/g | 0.4 | 0.4 | <0.4 | 2.4 |
| Silver | µg/g | 0.2 | <0.2 | <0.2 | 20 |
| Thallium | µg/g | 0.4 | <0.4 | <0.4 | 1 |
| Uranium | µg/g | 0.5 | 0.6 | 0.6 | 23 |
| Vanadium | µg/g | 1 | 30 | 31.0 | 86 |
| Zinc | µg/g | 5 | 72 | 71.0 | 340 |

NOTES:

Analysis by AGAT Laboratories.

NV mean "no value". N/A means "not applicable". NA means "not analyzed".

All results in ppm (µg/g) and based on dry weight basis.

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for a residential/parkland/institutional property use with medium to fine textured soil.

Exceedances of Table 3 Standards are shown in **bold**.

Table 3b: GROUND WATER CHEMICAL ANALYSIS - Petroleum Hydrocarbon Parameters- Recreational and Transmission Line Area

800 Hydro Road, Mississauga, Ontario
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| Sample I.D. | Units | RDL* | Monitor MW5-14 | Monitor MW3-14 | Monitor MW2-14 | Monitor TH101 | Monitor TH102 | Ontario Regulation 153/04 Table 3 Ground Water Standards** |
|--------------------------------|-------|------|----------------|----------------|----------------|---------------|----------------|--|
| Screen Interval (m) | | | 2.13 to 5.18 | 3.35 to 4.88 | 2.44 to 3.96 | 6.10 to 7.62 | 14.33 to 15.24 | |
| Date of Sample Collection | | | 8-Nov-17 | 8-Nov-17 | 8-Nov-17 | 15-Nov-17 | 15-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 20-Nov-17 | 20-Nov-17 | 23-Nov-17 | 23-Nov-17 | |
| Certificate of Analysis Number | | | 17T282567 | 17T282567 | 17T282567 | 17T285277 | 17T285277 | |
| Laboratory I.D. | | | 8899319 | 8899322 | 8899323 | 8913972 | 8913976 | |
| Benzene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 430 |
| Toluene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 18,000 |
| Ethylbenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 2,300 |
| Xylene Mixture (Total) | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 4,200 |
| PHC F1 (C6 to C10) - BTEX | µg/L | 25 | <25 | <25 | <25 | <25 | <25 | 750 |
| PHC F2 (C10 to C16) | µg/L | 100 | <100 | <100 | <100 | <100 | <100 | 150 |
| PHC F3 (C16 to C34) | µg/L | 100 | <100 | <100 | <100 | <100 | <100 | 500 |
| PHC F4 (C34 to C50) | µg/L | 100 | <100 | <100 | <100 | <100 | <100 | 500 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

Exceedances of Table 3 Standards are shown in **bold**.



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Table 3b: GROUND WATER CHEMICAL ANALYSIS - Volatile Organic Compounds- Recreational and Transmission Line Area

800 Hydro Road, Mississauga, Ontario

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| Sample I.D. | Units | RDL* | Monitor MW5-14 | Monitor MW3-14 | Monitor MW2-14 | Monitor TH101 | Monitor TH102 | Monitor MW250 | Ontario Regulation 153/04 Table 3 Ground Water Standards** |
|--------------------------------|-------|------|----------------|----------------|----------------|---------------|----------------|---------------|--|
| Screen Interval (m) | | | 2.13 to 5.18 | 3.35 to 4.88 | 2.44 to 3.96 | 6.10 to 7.62 | 14.33 to 15.24 | 4.27 to 4.72 | |
| Date of Sample Collection | | | 8-Nov-17 | 8-Nov-17 | 8-Nov-17 | 15-Nov-17 | 15-Nov-17 | 15-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 20-Nov-17 | 20-Nov-17 | 23-Nov-17 | 23-Nov-17 | 23-Nov-17 | |
| Certificate of Analysis Number | | | 177282567 | 177282567 | 177282567 | 177285277 | 177285277 | 177285277 | |
| Laboratory I.D. | | | 8899319 | 8899322 | 8899323 | 8913972 | 8913976 | 8914367 | |
| 1,1,1,2-Tetrachloroethane | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 28 |
| 1,1,1-Trichloroethane | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 6,700 |
| 1,1,2,2-Tetrachloroethane | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 15 |
| 1,1,2-Trichloroethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 30 |
| 1,1-Dichloroethane | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 3,100 |
| 1,1-Dichloroethylene | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 17 |
| 1,2-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 9,600 |
| 1,2-Dichloroethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 12 |
| 1,2-Dichloropropane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 140 |
| 1,3-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 9,600 |
| 1,3-Dichloropropene | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 45 |
| 1,4-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 67 |
| Acetone | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 130,000 |
| Benzene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 430 |
| Bromodichloromethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 85,000 |
| Bromoform | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 770 |
| Bromomethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 56 |
| Carbon Tetrachloride | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 8.4 |
| Chlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 630 |
| Chloroform | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 22 |
| cis- 1,2-Dichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 17 |
| Dibromochloromethane | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 82,000 |
| Dichlorodifluoromethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 4,400 |
| Ethylbenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 2,300 |
| Ethylene Dibromide | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.83 |
| Methyl Ethyl Ketone | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1,500,000 |
| Methyl Isobutyl Ketone | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 580,000 |
| Methyl tert-butyl ether | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 1,400 |
| Methylene Chloride | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 5,500 |
| n-Hexane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 520 |
| Styrene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 9,100 |
| Tetrachloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 17 |
| Toluene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 18,000 |
| trans- 1,2-Dichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 17 |
| Trichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 17 |
| Trichlorofluoromethane | µg/L | 0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 2,500 |
| Vinyl Chloride | µg/L | 0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | 1.7 |
| Xylene Mixture | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 4,200 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

Exceedances of Table 3 Standards are shown in **bold**.



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Table 4a: SOIL CHEMICAL ANALYSIS - Petroleum Hydrocarbon Parameters - Switchyard Area

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| Sample I.D. | Units | RDL* | Test Hole TH103-SS9 | Test Hole TH104-SS6 | Test Hole TH105-SS5 | Ontario Regulation 153/04 Table 3 Soil Standards** |
|--------------------------------|-------|------|------------------------|------------------------|------------------------|---|
| Depth (m) | | | 6.10 to 6.71 | 3.81 to 3.97 | 3.05 to 3.31 | |
| Soil Type | | | Clayey Silt Till | Silt | Silt | |
| Date of Sample Collection | | | 6-Nov-17 | 6-Nov-17 | 6-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 20-Nov-17 | 20-Nov-17 | |
| Certificate of Analysis Number | | | 17T283430 | 17T283430 | 17T283430 | |
| Laboratory I.D. | | | 8903278 | 8903297 | 8903312 | |
| Field Vapour Reading | | | ND | ND | ND | |
| Benzene | | | <0.02 | <0.02 | <0.02 | 0.17 |
| Toluene | | | <0.08 | <0.08 | <0.08 | 6 |
| Ethylbenzene | | | <0.05 | <0.05 | <0.05 | 15 |
| Xylene Mixture (Total) | | | <0.05 | <0.05 | <0.05 | 25 |
| PHC F1 (C6 to C10) - BTEX | | | <5 | <5 | <5 | 65 |
| PHC F2 (C10 to C16) | | | <10 | <10 | <10 | 150 |
| PHC F3 (C16 to C34) | | | 57 | <50 | <50 | 1,300 |
| PHC F4 (C34 to C50) | | | <50 | <50 | <50 | 5,600 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppm ($\mu\text{g/g}$) and based on dry weight basis. NA means "not analysed". NM means "not measured". ND means "not detected".

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for a residential/parkland/institutional property use with medium to fine textured soil.

Exceedances of Table 3 Standards are shown in **bold**.



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Table 4a: SOIL CHEMICAL ANALYSIS - Polychlorinated Biphenyls - Switchyard Area

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| Sample I.D. | Units | RDL* | Test Hole TH104-SS1 | Duplicate of TH104-SS1 TH104-SS101 | Test Hole TH105-SS1 | Ontario Regulation 153/04 Table 3 Soil Standards** |
|--------------------------------|-------|------|------------------------|---------------------------------------|------------------------|---|
| Depth (m) | | | 0.0 to 0.61 | 0.0 to 0.61 | 0.0 to 0.61 | |
| Soil Type | | | Sand and Gravel Fill | Sand and Gravel Fill | Sand and Gravel Fill | |
| Date of Sample Collection | | | 9-Nov-17 | 9-Nov-17 | 9-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 20-Nov-17 | 20-Nov-17 | |
| Certificate of Analysis Number | | | 17T283430 | 17T283430 | 17T283430 | |
| Laboratory I.D. | | | 8903293 | 8903296 | 8903308 | |
| Aroclor 1242 | µg/g | 0.1 | <0.1 | <0.1 | <0.1 | |
| Aroclor 1248 | µg/g | 0.1 | <0.1 | <0.1 | <0.1 | |
| Aroclor 1254 | µg/g | 0.1 | <0.1 | <0.1 | <0.1 | |
| Aroclor 1260 | µg/g | 0.1 | <0.1 | <0.1 | <0.1 | |
| Polychlorinated Biphenyls | µg/g | 0.1 | <0.1 | <0.1 | <0.1 | |

NOTES:

Analysis by AGAT Laboratories.

All results in ppm (µg/g) and based on dry weight basis. NV means "no value".

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for a residential/parkland/institutional property use with medium to fine textured soil.

Exceedances of Table 3 Standards are shown in **bold**.



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Table 4b: GROUND WATER CHEMICAL ANALYSIS - Petroleum Hydrocarbon Parameters- Switchyard Area

800 Hydro Road, Mississauga, Ontario

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| Sample I.D. | Units | MDL* | Monitor TH104 | Monitor TH105 | Ontario Regulation 153/04 Table 3 Ground Water Standards** |
|---|-------|-------|------------------|------------------|---|
| Screen Interval (m) | | | 5.49 to 8.53 | 5.49 to 8.53 | |
| Date of Sample Collection | | | 15-Nov-17 | 15-Nov-17 | |
| Date of Sample Analysis | | | 23-Nov-17 | 23-Nov-17 | |
| Certificate of Analysis Number | | | 17T285277 | 17T285277 | |
| Laboratory I.D. | | | 8913977 | 8913978 | |
| Benzene | µg/L | <0.20 | <0.20 | <0.20 | 430 |
| Toluene | µg/L | <0.20 | <0.20 | <0.20 | 18,000 |
| Ethylbenzene | µg/L | <0.10 | <0.10 | <0.10 | 2,300 |
| Xylene Mixture (Total) | µg/L | <0.20 | <0.20 | <0.20 | 4,200 |
| PHC F1 (C6 to C10) - BTEX | µg/L | 25 | <25 | <25 | 750 |
| PHC F2 (C10 to C16) | µg/L | 100 | <100 | <100 | 150 |
| PHC F3 (C16 to C34) | µg/L | 100 | <100 | <100 | 500 |
| PHC F4 (C34 to C50) | µg/L | 100 | <100 | <100 | 500 |
| NOTES: | | | | | |
| Analysis by AGAT Laboratories. | | | | | |
| All results in ppb (µg/L). | | | | | |
| * Reporting Detection Limit (RDL) value is listed. | | | | | |
| ** Standards shown are for all types of property use with medium to fine textured soil. | | | | | |
| Exceedances of Table 3 Standards are shown in bold . | | | | | |



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Table 5a: SOIL CHEMICAL ANALYSIS - Petroleum Hydrocarbon Parameters - Powerhouse Area

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| | | | | |
|--------------------------------|------|------|------------------------|-------|
| Sample I.D. | | | Test Hole TH112-SS3 | |
| Depth (m) | | | 1.52 to 1.68 | |
| Soil Type | | | Silt Fill | |
| Date of Sample Collection | | | 13-Nov-17 | |
| Date of Sample Analysis | | | 27-Nov-17 | |
| Certificate of Analysis Number | | | 17T286217 | |
| Laboratory I.D. | | | 8921995 | |
| Field Vapour Reading | | | ND | |
| Benzene | µg/g | 0.02 | <0.02 | 0.17 |
| Toluene | µg/g | 0.08 | <0.08 | 6 |
| Ethylbenzene | µg/g | 0.05 | <0.05 | 15 |
| Xylene Mixture (Total) | µg/g | 0.05 | <0.05 | 25 |
| PHC F1 (C6 to C10) - BTEX | µg/g | 5 | <5 | 65 |
| PHC F2 (C10 to C16) | µg/g | 10 | <10 | 150 |
| PHC F3 (C16 to C34) | µg/g | 50 | <50 | 1,300 |
| PHC F4 (C34 to C50) | µg/g | 50 | <50 | 5,600 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppm (µg/g) and based on dry weight basis. NA means "not analysed". NM means "not measured". ND means "not detected".

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for a residential/parkland/institutional property use with medium to fine textured soil.

Exceedances of Table 7 Standards are shown in **bold**.

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Table 5a: SOIL CHEMICAL ANALYSIS - Polychlorinated Biphenyls - Powerhouse Area

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| | | | | |
|--------------------------------|------|-----|------------------------|------|
| Sample I.D. | | | Test Hole TH112-SS1 | |
| Depth (m) | | | 0.0 to 0.61 | |
| Soil Type | | | Silt Fill | |
| Date of Sample Collection | | | 13-Nov-17 | |
| Date of Sample Analysis | | | 27-Nov-17 | |
| Certificate of Analysis Number | | | 17T286217 | |
| Laboratory I.D. | | | 8921991 | |
| Aroclor 1242 | µg/g | 0.1 | <0.1 | NV |
| Aroclor 1248 | µg/g | 0.1 | <0.1 | NV |
| Aroclor 1254 | µg/g | 0.1 | <0.1 | NV |
| Aroclor 1260 | µg/g | 0.1 | <0.1 | NV |
| Polychlorinated Biphenyls | µg/g | 0.1 | <0.1 | 0.35 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppm (µg/g) and based on dry weight basis. NV means "no value".

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for a residential/parkland/institutional property use with medium to fine textured soil.

Exceedances of Table 7 Standards are shown in **bold**.



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Table 5b: GROUND WATER CHEMICAL ANALYSIS - Petroleum Hydrocarbon Parameters- Powerhouse Area

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| Sample I.D. | Units | RDL* | Monitor MW 219 | Monitor MW 215 | Monitor MW 232 | Monitor MW 233 | Monitor TH112 | Ontario Regulation 153/04 Table 7 Ground Water Standards** |
|--------------------------------|-------|-------|----------------|----------------|----------------|----------------|---------------|--|
| Screen Interval (m) | | | 0.91 to 3.05 | 0.91 to 2.74 | 1.22 to 2.74 | 0.91 to 3.05 | 1.22 to 4.27 | |
| Date of Sample Collection | | | 13-Nov-17 | 10-Nov-17 | 13-Nov-17 | 13-Nov-17 | 14-Nov-17 | |
| Date of Sample Analysis | | | 21-Nov-17 | 21-Nov-17 | 21-Nov-17 | 21-Nov-17 | 23-Nov-17 | |
| Certificate of Analysis Number | | | 17T283734 | 17T283734 | 17T283734 | 17T283734 | 17T285277 | |
| Laboratory I.D. | | | 8904869 | 8904876 | 8904885 | 8904891 | 8915524 | |
| Benzene | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.5 |
| Toluene | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 320 |
| Ethylbenzene | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 54 |
| Xylene Mixture (Total) | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 72 |
| PHC F1 (C6 to C10) - BTEX | µg/L | 25 | <25 | <25 | <25 | <25 | <25 | 420 |
| PHC F2 (C10 to C16) | µg/L | 100 | <100 | <100 | <100 | <100 | <100 | 150 |
| PHC F3 (C16 to C34) | µg/L | 100 | <100 | <100 | <100 | <100 | <100 | 500 |
| PHC F4 (C34 to C50) | µg/L | 100 | <100 | <100 | <100 | <100 | <100 | 500 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

Exceedances of Table 7 Standards are shown in **bold**.



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Table 5b: GROUND WATER CHEMICAL ANALYSIS - Volatile Organic Compounds- Powerhouse Area

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| Sample I.D. | Units | RDL* | Monitor MW 219 | Monitor MW 215 | Monitor MW 232 | Monitor MW 233 | Monitor TH112 | Ontario Regulation 153/04 Table 7 Ground Water Standards** |
|--------------------------------|-------|------|----------------|----------------|----------------|----------------|---------------|--|
| Screen Interval (m) | | | 0.91 to 3.05 | 0.91 to 2.74 | 1.22 to 2.74 | 0.91 to 3.05 | 1.22 to 4.27 | |
| Date of Sample Collection | | | 13-Nov-17 | 10-Nov-17 | 13-Nov-17 | 13-Nov-17 | 14-Nov-17 | |
| Date of Sample Analysis | | | 21-Nov-17 | 21-Nov-17 | 21-Nov-17 | 21-Nov-17 | 23-Nov-17 | |
| Certificate of Analysis Number | | | 17T283734 | 17T283734 | 17T283734 | 17T283734 | 17T285277 | |
| Laboratory I.D. | | | 8904869 | 8904876 | 8904885 | 8904891 | 8915524 | |
| 1,1,1,2-Tetrachloroethane | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 1.1 |
| 1,1,1-Trichloroethane | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 23 |
| 1,1,2,2-Tetrachloroethane | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.5 |
| 1,1,2-Trichloroethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.5 |
| 1,1-Dichloroethane | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 11 |
| 1,1-Dichloroethylene | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 0.5 |
| 1,2-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 150 |
| 1,2-Dichloroethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.5 |
| 1,2-Dichloropropane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.58 |
| 1,3-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 7,600 |
| 1,3-Dichloropropene | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 0.5 |
| 1,4-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.5 |
| Acetone | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 100,000 |
| Benzene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.5 |
| Bromodichloromethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 67,000 |
| Bromoform | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 5 |
| Bromomethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.89 |
| Carbon Tetrachloride | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.2 |
| Chlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 140 |
| Chloroform | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 2 |
| cis- 1,2-Dichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 1.6 |
| Dibromochloromethane | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 65,000 |
| Dichlorodifluoromethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 3,500 |
| Ethylbenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 54 |
| Ethylene Dibromide | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.2 |
| Methyl Ethyl Ketone | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 21,000 |
| Methyl Isobutyl Ketone | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 5,200 |
| Methyl tert-butyl ether | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 15 |
| Methylene Chloride | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 26 |
| n-Hexane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 5 |
| Styrene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 43 |
| Tetrachloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.5 |
| Toluene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 320 |
| trans- 1,2-Dichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 1.6 |
| Trichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.5 |
| Trichlorofluoromethane | µg/L | 0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 2,000 |
| Vinyl Chloride | µg/L | 0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | 0.5 |
| Xylene Mixture | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 72 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

Exceedances of Table 7 Standards are shown in **bold**.

Table 6a: SOIL CHEMICAL ANALYSIS - Petroleum Hydrocarbon Parameters- South of Powerhouse

800 Hydro Road, Mississauga, Ontario
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| Sample I.D. | Units | RDL* | Test Hole TH106-SS5 | Test Hole TH108-SS2 | Test Hole TH109-SS2 | Test Hole TH110- SS3 | Test Hole TH111-SS2 | Test Pit TP11-GR3 | Test Pit TP14-2m | Ontario Regulation 153/04 Table 3 Soil Standards** |
|--------------------------------|-------|------|---------------------|---------------------|---------------------|----------------------|----------------------|-------------------|------------------|---|
| Depth (m) | | | 3.05 to 3.66 | 0.76 to 1.37 | 0.76 to 1.37 | 1.52 to 2.13 | 0.76 to 1.37 | 1.22 to 1.83 | 2.0 to 3.0 | |
| Soil Type | | | Silt Fill | Silt Fill | Sandy Silt Fill | Sand Fill | Sand and Gravel Fill | Clayey Silt Fill | Clayey Silt | |
| Date of Sample Collection | | | 6-Nov-17 | 6-Nov-17 | 13-Nov-17 | 13-Nov-17 | 6-Nov-17 | 14-Nov-17 | 14-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 20-Nov-17 | 27-Nov-17 | 27-Nov-17 | 20-Nov-17 | 27-Nov-17 | 27-Nov-17 | |
| Certificate of Analysis Number | | | 17T283430 | 17T283430 | 17T286217 | 17T286217 | 17T283430 | 17T286217 | 17T286217 | |
| Laboratory I.D. | | | 8903313 | 8903375 | 8921971 | 8921988 | 8903380 | 8921998 | 8922006 | |
| Field Vapour Reading | | | ND | ND | 10 ppm | 60 ppm | ND | 250 ppm | 260 ppm | |
| Benzene | µg/g | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| Toluene | µg/g | 0.08 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | |
| Ethylbenzene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | |
| Xylene Mixture (Total) | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | |
| PHC F1 (C6 to C10) - BTEX | µg/g | 5 | <5 | <5 | <5 | <5 | 7 | <5 | 26 | |
| PHC F2 (C10 to C16) | µg/g | 10 | <10 | <10 | <10 | 16 | 350 | 110 | 910 | |
| PHC F3 (C16 to C34) | µg/g | 50 | <50 | <50 | <50 | <50 | 330 | 110 | 280 | |
| PHC F4 (C34 to C50) | µg/g | 50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | |

NOTES:

Analysis by AGAT Laboratories.

All results in ppm (µg/g) and based on dry weight basis. NA means "not analysed". NM means "not measured". ND means "not detected".

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for a residential/parkland/institutional property use with medium to fine textured soil.

Exceedances of Table 3 Standards are shown in **bold**.



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Table 6a: SOIL CHEMICAL ANALYSIS - Metals and Inorganic Parameters- South of Powerhouse

800 Hydro Road, Mississauga, Ontario
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| Sample I.D. | Units | RDL* | Test Hole TH108-SS1 | Test Hole TH109-SS2 | Test Hole TH110-SS1 | Ontario Regulation 153/04 Table 3 Soil Standards** |
|--------------------------------|-------|------|------------------------|------------------------|------------------------|---|
| Depth (m) | | | 0.0 to 0.61 | 0.76 to 1.37 | 0.0 to 0.61 | |
| Soil Type | | | Sand and Gravel Fill | Sandy Silt Fill | Sand and Gravel Fill | |
| Date of Sample Collection | | | 9-Nov-17 | 13-Nov-17 | 13-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 17-Nov-17 | 17-Nov-17 | |
| Certificate of Analysis Number | | | 17T283430 | 17T286217 | 17T286217 | |
| Laboratory I.D. | | | 8903316 | 8921971 | 8921985 | |
| Antimony | µg/g | 0.8 | <0.8 | <0.8 | <0.8 | |
| Arsenic | µg/g | 1 | 12 | 3.0 | 4 | 18 |
| Barium | µg/g | 2 | 80 | 6.0 | 6 | 390 |
| Beryllium | µg/g | 0.5 | 0.8 | 25.0 | 52 | 5 |
| Boron | µg/g | 5 | 18 | <0.5 | <0.5 | 120 |
| Cadmium | µg/g | 0.5 | <0.5 | <0.5 | <0.5 | 1.2 |
| Chromium | µg/g | 2 | 44 | 9.0 | 12 | 160 |
| Cobalt | µg/g | 0.5 | 9.3 | 4.7 | 5.6 | 22 |
| Copper | µg/g | 1 | 36 | 11.0 | 37 | 180 |
| Lead | µg/g | 1 | 1,020 | 5.0 | 36 | 120 |
| Molybdenum | µg/g | 0.5 | 2.2 | <0.5 | 1.2 | 6.9 |
| Nickel | µg/g | 1 | 22 | 8.0 | 10 | 130 |
| Selenium | µg/g | 0.4 | 2.0 | <0.4 | 4.9 | 2.4 |
| Silver | µg/g | 0.2 | <0.2 | <0.2 | <0.2 | 25 |
| Thallium | µg/g | 0.4 | <0.4 | <0.4 | <0.4 | 1 |
| Uranium | µg/g | 0.5 | 0.6 | <0.5 | <0.5 | 23 |
| Vanadium | µg/g | 1 | 27 | 12.0 | 13 | 86 |
| Zinc | µg/g | 5 | 215 | 24.0 | 48 | 340 |

NOTES:

Analysis by AGAT Laboratories.

NV mean "no value". N/A means "not applicable". NA means "not analyzed".

All results in ppm (µg/g) and based on dry weight basis.

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for a residential/parkland/institutional property use with medium to fine textured soil.

Exceedances of Table 3 Standards are shown in **bold**.

Table 6a: SOIL CHEMICAL ANALYSIS - Polycyclic Aromatic Hydrocarbons- South of Powerhouse

800 Hydro Road, Mississauga, Ontario
December 2017

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| Sample I.D. | Units | RDL* | Test Hole TH108-SS1 | Test Hole TH109-SS1 | Test Hole TH110-SS1 | Ontario Regulation 153/04 Table 3 Soil Standards** |
|--------------------------------|-------|------|------------------------|------------------------|------------------------|---|
| Depth (m) | | | 0.0 to 0.61 | 0.0 to 0.61 | 0.0 to 0.61 | |
| Soil Type | | | Sand and Gravel Fill | Sand and Gravel Fill | Sand and Gravel Fill | |
| Date of Sample Collection | | | 9-Nov-17 | 13-Nov-17 | 13-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 27-Nov-17 | 27-Nov-17 | |
| Certificate of Analysis Number | | | 17T283430 | 17T286217 | 17T286217 | |
| Laboratory I.D. | | | 8903316 | 8921957 | 8921985 | |
| 2-and 1-methyl Naphthalene | µg/g | 0.05 | 0.08 | <0.05 | <0.05 | 3.4 |
| Acenaphthene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 58 |
| Acenaphthylene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 0.17 |
| Anthracene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 0.74 |
| Benzo(a)anthracene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 0.63 |
| Benzo(a)pyrene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 0.3 |
| Benzo(b)fluoranthene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 0.78 |
| Benzo(g,h,i)perylene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 7.8 |
| Benzo(k)fluoranthene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 0.78 |
| Chrysene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 7.8 |
| Dibenzo(a,h)anthracene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 0.1 |
| Fluoranthene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 0.69 |
| Fluorene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 69 |
| Indeno(1,2,3-cd)pyrene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 0.48 |
| Naphthalene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 0.75 |
| Phenanthrene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 7.8 |
| Pyrene | µg/g | 0.05 | <0.05 | <0.05 | <0.05 | 78 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppm (µg/g) and based on dry weight basis.

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for a residential/parkland/institutional property use with medium to fine textured soil.

*** The sum of 1- and 2-Methylnaphthalene concentrations must not exceed the soil Standard if both are detected.

Exceedances of Table 3 Standards are shown in **bold**.

Table 6b: GROUND WATER CHEMICAL ANALYSIS - Polycyclic Aromatic Hydrocarbons- South of Powerhouse Area

800 Hydro Road, Mississauga, Ontario
December 2017

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| Sample I.D. | Units | RDL* | Monitor MW3-16 | Monitor MW13-15 | Monitor TH108 | Ontario Regulation 153/04 Table 3 Ground Water Standards** |
|--------------------------------|-------|------|-------------------|--------------------|------------------|--|
| Screen Interval (m) | | | 1.53 to 3.66 | 1.07 to 4.11 | 1.52 to 4.57 | |
| Date of Sample Collection | | | 7-Nov-17 | 7-Nov-17 | 15-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 20-Nov-17 | 23-Nov-17 | |
| Certificate of Analysis Number | | | 17T282567 | 17T282567 | 17T285277 | |
| Laboratory I.D. | | | 8899317 | 8899325 | 8913980 | |
| 2-and 1-methyl Naphthalene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 1,800 |
| Acenaphthene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 1,700 |
| Acenaphthylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 1.8 |
| Anthracene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | 2.4 |
| Benz(a)anthracene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 4.7 |
| Benzo(a)pyrene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | 0.81 |
| Benzo(b)fluoranthene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | 0.75 |
| Benzo(g,h,i)perylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 0.2 |
| Benzo(k)fluoranthene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | 0.4 |
| Chrysene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | 1 |
| Dibenz(a,h)anthracene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 0.52 |
| Fluoranthene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 130 |
| Fluorene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 400 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 0.2 |
| Naphthalene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 6,400 |
| Phenanthrene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | 580 |
| Pyrene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 68 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

*** The sum of 1- and 2-Methylnaphthalene concentrations must not exceed the soil Standard if both are detected.

Exceedances of Table 3 Standards are shown in **bold**.

Table 6b: GROUND WATER CHEMICAL ANALYSIS - Petroleum Hydrocarbon Parameters- South of Powerhouse Area
 800 Hydro Road, Mississauga, Ontario
 December 2017

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| Sample I.D. | Units | RDL* | Monitor MW255 | Duplicate of MW255 | Monitor MW225 | Monitor MW240 | Duplicate of MW240 | Monitor MW3-16 | Monitor MW 211 | Monitor MW13-15 | Ontario Regulation 153/04 Table 3 Ground Water Standards** |
|--------------------------------|-------|------|---------------|--------------------|---------------|---------------|--------------------|----------------|----------------|-----------------|--|
| Screen Interval (m) | | | 1.22 to 4.11 | 1.22 to 4.11 | 1.22 to 4.11 | 1.07 to 4.11 | 0.91 to 3.96 | 1.53 to 3.66 | 1.22 to 2.74 | 1.07 to 4.11 | |
| Date of Sample Collection | | | 8-Nov-17 | 8-Nov-17 | 8-Nov-17 | 7-Nov-17 | 7-Nov-17 | 7-Nov-17 | 10-Nov-17 | 8-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 20-Nov-17 | 20-Nov-17 | 20-Nov-17 | 20-Nov-17 | 20-Nov-17 | 21-Nov-17 | 20-Nov-17 | |
| Certificate of Analysis Number | | | 17T282567 | 17T282567 | 17T282567 | 17T282567 | 17T282567 | 17T282567 | 17T283734 | 17T282567 | |
| Laboratory I.D. | | | 8899331 | 8899332 | 8899333 | 8899271 | 8899286 | 8899317 | 8904880 | 8899325 | |
| Benzene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 430 |
| Toluene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 18,000 |
| Ethylbenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 2,300 |
| Xylene Mixture (Total) | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 4,200 |
| PHC F1 (C6 to C10) - BTEX | µg/L | 25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | 750 |
| PHC F2 (C10 to C16) | µg/L | 100 | <100 | <100 | <100 | 140 | 130 | <100 | <100 | <100 | 150 |
| PHC F3 (C16 to C34) | µg/L | 100 | 3800 | 2,500 | <100 | <100 | <100 | <100 | <100 | <100 | 500 |
| PHC F4 (C34 to C50) | µg/L | 100 | 510 | 330 | <100 | <100 | <100 | <100 | <100 | <100 | 500 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

Exceedances of Table 3 Standards are shown in **bold**.



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Table 6b: GROUND WATER CHEMICAL ANALYSIS - Petroleum Hydrocarbon Parameters- South of Powerhouse Area
 800 Hydro Road, Mississauga, Ontario
 December 2017

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| Sample I.D. | Units | RDL* | Monitor MW 1-16 | Monitor TH108 | Monitor TH109 | Duplicate of TH109 TH1000 | Monitor TH110 | Monitor TH111 | Monitor TMW301 | Monitor MW13-13 | Ontario Regulation 153/04 Table 3 Ground Water Standards** |
|--------------------------------|-------|------|-----------------|---------------|---------------|---------------------------|---------------|---------------|--------------------|-----------------|--|
| Screen Interval (m) | | | 1.06 to 4.11 | 1.52 to 4.57 | 0.91 to 3.96 | 0.91 to 3.96 | 1.52 to 4.73 | 0.91 to 3.96 | Unknown to 3.20*** | 1.07 to 4.11 | |
| Date of Sample Collection | | | 10-Nov-17 | 15-Nov-17 | 14-Nov-17 | 14-Nov-17 | 15-Nov-17 | 15-Nov-17 | 7-Nov-17 | 8-Nov-17 | |
| Date of Sample Analysis | | | 21-Nov-17 | 23-Nov-17 | 23-Nov-17 | 22-Nov-17 | 23-Nov-17 | 23-Nov-17 | 15-Nov-17 | 15-Nov-17 | |
| Certificate of Analysis Number | | | 17T283734 | 17T285277 | 17T285277 | 17T285277 | 17T285277 | 17T285277 | 17T282567 | 17T282567 | |
| Laboratory I.D. | | | 8904895 | 8913980 | 8914342 | 8914368 | 8914347 | 8914348 | 8899313 | 8899328 | |
| Benzene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 4.9 | <0.20 | <0.20 | <0.20 | 430 |
| Toluene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 0.33 | <0.20 | 0.38 | <0.20 | <0.20 | 18,000 |
| Ethylbenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.89 | 0.16 | <0.10 | <0.10 | 2,300 |
| Xylene Mixture (Total) | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.74 | <0.20 | <0.20 | 4,200 |
| PHC F1 (C6 to C10) - BTEX | µg/L | 25 | 34 | <25 | <25 | <25 | 390 | <25 | 51 | <25 | 750 |
| PHC F2 (C10 to C16) | µg/L | 100 | 370 | <100 | <100 | <100 | 2,000 | <100 | 360 | <100 | 150 |
| PHC F3 (C16 to C34) | µg/L | 100 | 180 | <100 | <100 | <100 | 830 | <100 | 160 | <100 | 500 |
| PHC F4 (C34 to C50) | µg/L | 100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | 500 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

*** Depth of screen interval unknown. Depth to bottom of monitor shown.

Exceedances of Table 3 Standards are shown in **bold**.



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Table 6b: GROUND WATER CHEMICAL ANALYSIS - Volatile Organic Compounds- South of Powerhouse Area

800 Hydro Road, Mississauga, Ontario
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| Sample I.D. | Units | RDL* | Monitor MW255 | Duplicate of MW255 MW2559 | Monitor MW225 | Monitor MW 211 | Monitor TH108 | Monitor TH110 | Ontario Regulation 153/04 Table 3 Ground Water Standards** |
|--------------------------------|-------|------|---------------|---------------------------|---------------|----------------|---------------|---------------|--|
| Screen Interval (m) | | | 1.22 to 4.11 | 1.22 to 4.11 | 1.52 to 4.57 | 1.22 to 2.74 | 1.52 to 4.57 | 1.52 to 4.73 | |
| Date of Sample Collection | | | 8-Nov-17 | 8-Nov-17 | 8-Nov-17 | 10-Nov-17 | 15-Nov-17 | 15-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 20-Nov-17 | 20-Nov-17 | 21-Nov-17 | 23-Nov-17 | 23-Nov-17 | |
| Certificate of Analysis Number | | | 17T282567 | 17T282567 | 17T283734 | 17T285277 | 17T285277 | 17T285277 | |
| Laboratory I.D. | | | 8899331 | 8899332 | 8899333 | 8904880 | 8913980 | 8914347 | |
| 1,1,1,2-Tetrachloroethane | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 28 |
| 1,1,1-Trichloroethane | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 6,700 |
| 1,1,2,2-Tetrachloroethane | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 15 |
| 1,1,2-Trichloroethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 30 |
| 1,1-Dichloroethane | µg/L | 0.30 | 1.8 | 1.4 | <0.30 | <0.30 | <0.30 | <0.30 | 3,100 |
| 1,1-Dichloroethylene | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 17 |
| 1,2-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 9,600 |
| 1,2-Dichloroethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 12 |
| 1,2-Dichloropropane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 140 |
| 1,3-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 9,600 |
| 1,3-Dichloropropene | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 45 |
| 1,4-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 67 |
| Acetone | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 130,000 |
| Benzene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 4.9 |
| Bromodichloromethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 85,000 |
| Bromoform | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 770 |
| Bromomethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 56 |
| Carbon Tetrachloride | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 8.4 |
| Chlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 630 |
| Chloroform | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 22 |
| cis- 1,2-Dichloroethylene | µg/L | 0.20 | 3.4 | 2.5 | <0.20 | <0.20 | <0.20 | <0.20 | 17 |
| Dibromochloromethane | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 82,000 |
| Dichlorodifluoromethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 4,400 |
| Ethylbenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 2,300 |
| Ethylene Dibromide | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.83 |
| Methyl Ethyl Ketone | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1,500,000 |
| Methyl Isobutyl Ketone | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 580,000 |
| Methyl tert-butyl ether | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 1,400 |
| Methylene Chloride | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 5,500 |
| n-Hexane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 520 |
| Styrene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 9,100 |
| Tetrachloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 17 |
| Toluene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 18,000 |
| trans- 1,2-Dichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 17 |
| Trichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 17 |
| Trichlorofluoromethane | µg/L | 0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 2,500 |
| Vinyl Chloride | µg/L | 0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | 1.7 |
| Xylene Mixture | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 4,200 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

Exceedances of Table 3 Standards are shown in **bold**.



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Table 6b: GROUND WATER CHEMICAL ANALYSIS - Metals and Inorganic Parameters-- South of Powerhouse Area

800 Hydro Road, Mississauga, Ontario
December 2017

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| Sample I.D. | Units | RDL* | Monitor MW3-16 | Monitor MW13-15 | Monitor TH108 | Ontario Regulation 153/04 Table 3 Ground Water Standards** |
|--------------------------------|-------|------|-------------------|--------------------|------------------|---|
| Screen Interval (m) | | | 1.53 to 3.66 | 1.07 to 4.11 | 1.52 to 4.57 | |
| Date of Sample Collection | | | 7-Nov-17 | 8-Nov-17 | 15-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 20-Nov-17 | 21-Nov-17 | |
| Certificate of Analysis Number | | | 17T282567 | 17T282567 | 17T285277 | |
| Laboratory I.D. | | | 8899317 | 8899325 | 8913980 | |
| Antimony | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | 20,000 |
| Arsenic | µg/L | 1.0 | <1.0 | <1.0 | 2.7 | 1,900 |
| Barium | µg/L | 2.0 | 38 | 38 | 51.7 | 29,000 |
| Beryllium | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | 67 |
| Boron | µg/L | 10.0 | 882 | 466 | 908 | 45,000 |
| Cadmium | µg/L | 0.2 | <0.2 | <0.2 | <0.2 | 2.7 |
| Chromium | µg/L | 2.0 | <2.0 | <2.0 | <2.0 | 810 |
| Cobalt | µg/L | 0.5 | <0.5 | <0.5 | 0.8 | 66 |
| Copper | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | 87 |
| Lead | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | 25 |
| Molybdenum | µg/L | 0.5 | 10.1 | 12.9 | 6.8 | 9,200 |
| Nickel | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | 490 |
| Selenium | µg/L | 1.0 | <1.0 | <1.0 | 1.5 | 63 |
| Silver | µg/L | 0.2 | <0.2 | <0.2 | <0.2 | 1.5 |
| Thallium | µg/L | 0.3 | <0.3 | <0.3 | <0.3 | 510 |
| Uranium | µg/L | 0.5 | 1 | 1.3 | 1.8 | 420 |
| Vanadium | µg/L | 0.4 | <0.4 | 1.2 | 0.8 | 250 |
| Zinc | µg/L | 5.0 | <5.0 | 39.9 | <5.0 | 1,100 |

NOTES:

Analysis by AGAT Laboratories.

NV mean "no value". N/A means "not applicable".

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

Exceedances of Table 3 Standards are shown in **bold**.

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Table 7a: SOIL CHEMICAL ANALYSIS - Petroleum Hydrocarbon Parameters - Area Within 30m of a Waterbody

800 Hydro Road, Mississauga, Ontario
December 2017

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| Sample I.D. | Units | RDL* | Test Pit TP12-2m | Test Pit TP13-2.5m | Ontario Regulation 153/04 Table 9 Soil Standards** |
|--------------------------------|-------|------|----------------------|-----------------------|---|
| Depth (m) | | | 1.0 to 2.0 | 2.5 to 3.0 | |
| Soil Type | | | Sand and Gravel Fill | Clayey Silt Fill | |
| Date of Sample Collection | | | 14-Nov-17 | 14-Nov-17 | |
| Date of Sample Analysis | | | 27-Nov-17 | 27-Nov-17 | |
| Certificate of Analysis Number | | | 17T286217 | 17T286217 | |
| Laboratory I.D. | | | 8921999 | 8922001 | |
| Field Vapour Reading | | | 325 ppm | 175 ppm | |
| Benzene | µg/g | 0.02 | <0.02 | <0.02 | 0.02 |
| Toluene | µg/g | 0.08 | <0.08 | <0.08 | 0.2 |
| Ethylbenzene | µg/g | 0.05 | <0.05 | <0.05 | 0.05 |
| Xylene Mixture (Total) | µg/g | 0.05 | <0.05 | <0.05 | 0.05 |
| PHC F1 (C6 to C10) - BTEX | µg/g | 5 | <5 | 48 | 25 |
| PHC F2 (C10 to C16) | µg/g | 10 | 660 | 3,900 | 10 |
| PHC F3 (C16 to C34) | µg/g | 50 | 640 | 2,400 | 240 |
| PHC F4 (C34 to C50) | µg/g | 50 | <50 | <50 | 120 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppm (µg/g) and based on dry weight basis. NA means "not analysed". NM means "not measured".

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for a residential/parkland/institutional property use with medium to fine textured soil.

Exceedances of Table 9 Standards are shown in **bold**.

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**Table 7b: GROUND WATER CHEMICAL ANALYSIS - Polycyclic Aromatic Hydrocarbons -
Area Within 30m of a Waterbody**

800 Hydro Road, Mississauga, Ontario

December 2017

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| Sample I.D. | Units | RDL* | Monitor TRW12 | Duplicate of TRW12 TRW129 | Monitor MW5-05 | Ontario Regulation 153/04 Table 9 Ground Water Standards** |
|--------------------------------|-------|------|---------------------|------------------------------|-------------------|--|
| Screen Interval (m) | | | Unknown to 3.98**** | Unknown to 3.98**** | 2.29 to 5.33 | |
| Date of Sample Collection | | | 7-Nov-17 | 7-Nov-17 | 13-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 20-Nov-17 | 21-Nov-17 | |
| Certificate of Analysis Number | | | 17T282567 | 17T282567 | 17T283734 | |
| Laboratory I.D. | | | 8899299 | 8899309 | 8904972 | |
| 2-and 1-methyl Naphthalene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | |
| Acenaphthene | µg/L | 0.20 | 0.55 | 0.58 | <0.20 | 600 |
| Acenaphthylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 1.4 |
| Anthracene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | 1 |
| Benz(a)anthracene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 1.8 |
| Benzo(a)pyrene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | 0.81 |
| Benzo(b)fluoranthene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | 0.75 |
| Benzo(g,h,i)perylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 0.2 |
| Benzo(k)fluoranthene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | 0.4 |
| Chrysene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | 0.7 |
| Dibenz(a,h)anthracene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 0.4 |
| Fluoranthene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 73 |
| Fluorene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 290 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 0.2 |
| Naphthalene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 1,400 |
| Phenanthrene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | 380 |
| Pyrene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 5.7 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

*** The sum of 1- and 2-Methylnaphthalene concentrations must not exceed the soil Standard if both are detected.

**** Depth of screen interval unknown. Depth to bottom of monitor shown.

Exceedances of Table 9 Standards are shown in **bold**.



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Table 7b: GROUND WATER CHEMICAL ANALYSIS - South of Powerhouse -Area Within 30m of a Waterbody

800 Hydro Road, Mississauga, Ontario
December 2017

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| Sample I.D. | Units | MDL* | Monitor TRW-4 | Monitor TRW12 | Monitor TMW301 | Monitor TMW303 | Monitor TMW306 | Monitor MW5-05 | Monitor MW13-13 | Ontario Regulation 153/04 Table 9 Ground Water Standards** |
|--------------------------------|-------|------|--------------------|--------------------|--------------------|--------------------|---------------------|----------------|-----------------|--|
| Screen Interval (m) | | | Unknown to 4.40*** | Unknown to 3.98*** | Unknown to 3.20*** | Unknown to 3.77*** | Unknown to 3.741*** | 2.29 to 5.33 | 1.07 to 4.11 | |
| Date of Sample Collection | | | 7-Nov-17 | 7-Nov-17 | 7-Nov-17 | 7-Nov-17 | 7-Nov-17 | 13-Nov-17 | 8-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 20-Nov-17 | 20-Nov-17 | 20-Nov-17 | 20-Nov-17 | 21-Nov-17 | 20-Nov-17 | |
| Certificate of Analysis Number | | | 171282567 | 171282567 | 171282567 | 171282567 | 171282567 | 171283734 | 171282567 | |
| Laboratory I.D. | | | 8899289 | 8899299 | 8899313 | 8899287 | 8899312 | 8904972 | 8899328 | |
| Benzene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 44 |
| Toluene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 14,000 |
| Ethylbenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 1,800 |
| Xylene Mixture (Total) | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 3,300 |
| PHC F1 (C6 to C10) - BTEX | µg/L | 25 | <25 | <25 | 51 | <25 | <25 | <25 | <25 | 420 |
| PHC F2 (C10 to C16) | µg/L | 100 | <100 | <100 | 360 | <100 | 110 | <100 | <100 | 150 |
| PHC F3 (C16 to C34) | µg/L | 100 | <100 | 150 | 160 | <100 | <100 | <100 | <100 | 500 |
| PHC F4 (C34 to C50) | µg/L | 100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | 500 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

*** Depth of screen interval unknown. Depth to bottom of monitor shown.

Exceedances of Table 9 Standards are shown in **bold**.



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Table 7b: GROUND WATER CHEMICAL ANALYSIS - Volatile Organic Compounds -
Area Within 30m of a Waterbody

800 Hydro Road, Mississauga, Ontario
 December 2017

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| Sample I.D. | Units | MDL* | Monitor TRW4 | Duplicate of TRW4 TRW43 | Ontario Regulation 153/04 Table 9 Ground Water Standards** |
|--------------------------------|-------|------|--------------------|----------------------------|--|
| Screen Interval (m) | | | Unknown to 4.40*** | Unknown to 4.40*** | |
| Date of Sample Collection | | | 7-Nov-17 | 7-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 20-Nov-17 | |
| Certificate of Analysis Number | | | 17T282567 | 17T282567 | |
| Laboratory I.D. | | | 8899289 | 8899294 | |
| 1,1,1,2-Tetrachloroethane | µg/L | 0.10 | <0.10 | <0.10 | 3.3 |
| 1,1,1-Trichloroethane | µg/L | 0.30 | <0.30 | <0.30 | 640 |
| 1,1,2,2-Tetrachloroethane | µg/L | 0.10 | <0.10 | <0.10 | 3.2 |
| 1,1,2-Trichloroethane | µg/L | 0.20 | <0.20 | <0.20 | 4.7 |
| 1,1-Dichloroethane | µg/L | 0.30 | <0.30 | <0.30 | 320 |
| 1,1-Dichloroethylene | µg/L | 0.30 | <0.30 | <0.30 | 1.6 |
| 1,2-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | 4,600 |
| 1,2-Dichloroethane | µg/L | 0.20 | <0.20 | <0.20 | 1.6 |
| 1,2-Dichloropropane | µg/L | 0.20 | <0.20 | <0.20 | 16 |
| 1,3-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | 7,600 |
| 1,3-Dichloropropene | µg/L | 0.30 | <0.30 | <0.30 | 5.2 |
| 1,4-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | 8 |
| Acetone | µg/L | 1.0 | <1.0 | <1.0 | 100,000 |
| Benzene | µg/L | 0.20 | <0.20 | <0.20 | 44 |
| Bromodichloromethane | µg/L | 0.20 | <0.20 | <0.20 | 67,000 |
| Bromoform | µg/L | 0.10 | <0.10 | <0.10 | 380 |
| Bromomethane | µg/L | 0.20 | <0.20 | <0.20 | 5.6 |
| Carbon Tetrachloride | µg/L | 0.20 | <0.20 | <0.20 | 0.79 |
| Chlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | 500 |
| Chloroform | µg/L | 0.20 | <0.20 | <0.20 | 2.4 |
| cis- 1,2-Dichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | 1.6 |
| Dibromochloromethane | µg/L | 0.10 | <0.10 | <0.10 | 65,000 |
| Dichlorodifluoromethane | µg/L | 0.20 | <0.20 | <0.20 | 3,500 |
| Ethylbenzene | µg/L | 0.10 | <0.10 | <0.10 | 1,800 |
| Ethylene Dibromide | µg/L | 0.10 | <0.10 | <0.10 | 0.25 |
| Methyl Ethyl Ketone | µg/L | 1.0 | <1.0 | <1.0 | 470,000 |
| Methyl Isobutyl Ketone | µg/L | 1.0 | <1.0 | <1.0 | 140,000 |
| Methyl tert-butyl ether | µg/L | 0.20 | <0.20 | <0.20 | 190 |
| Methylene Chloride | µg/L | 0.30 | <0.30 | <0.30 | 610 |
| n-Hexane | µg/L | 0.20 | <0.20 | <0.20 | 51 |
| Styrene | µg/L | 0.10 | <0.10 | <0.10 | 1,300 |
| Tetrachloroethylene | µg/L | 0.20 | <0.20 | <0.20 | 1.6 |
| Toluene | µg/L | 0.20 | <0.20 | <0.20 | 14,000 |
| trans- 1,2-Dichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | 1.6 |
| Trichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | 1.6 |
| Trichlorofluoromethane | µg/L | 0.40 | <0.40 | <0.40 | 2,000 |
| Vinyl Chloride | µg/L | 0.17 | <0.17 | <0.17 | 0.5 |
| Xylene Mixture | µg/L | 0.20 | <0.20 | <0.20 | 3,300 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

*** Depth of screen interval unknown. Depth to bottom of monitor shown.

Exceedances of Table 9 Standards are shown in **bold**.

**Table 7b: GROUND WATER CHEMICAL ANALYSIS - Metals and Inorganic Parameters -
Area Within 30m of a Waterbody**

800 Hydro Road, Mississauga, Ontario

December 2017

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| Sample I.D. | Units | MDL* | Monitor TRW12 | Duplicate of TRW12 TRW129 | Monitor MW 5-05 | Ontario Regulation 153/04 Table 9 Ground Water Standards** |
|--------------------------------|-------|------|---------------------|------------------------------|--------------------|--|
| Screen Interval (m) | | | Unknown to 3.98**** | Unknown to 3.98**** | 2.29 to 5.33 | |
| Date of Sample Collection | | | 7-Nov-17 | 7-Nov-17 | 13-Nov-17 | |
| Date of Sample Analysis | | | 20-Nov-17 | 20-Nov-17 | 21-Nov-17 | |
| Certificate of Analysis Number | | | 17T282567 | 17T282567 | 17T283734 | |
| Laboratory I.D. | | | 8899299 | 8899309 | 8904972 | |
| Antimony | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | |
| Arsenic | µg/L | 1.0 | 1.5 | 1.4 | 2 | 1,500 |
| Barium | µg/L | 2.0 | 409 | 382 | 36.7 | 23,000 |
| Beryllium | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | 53 |
| Boron | µg/L | 10.0 | 537 | 497 | 441 | 36,000 |
| Cadmium | µg/L | 0.2 | <0.2 | <0.2 | <0.2 | 2.1 |
| Chromium | µg/L | 2.0 | 5.1 | 2.9 | <2.0 | 640 |
| Cobalt | µg/L | 1.0 | 1 | 0.7 | 1.4 | 52 |
| Copper | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | 69 |
| Lead | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | 20 |
| Molybdenum | µg/L | 0.5 | 1.1 | 0.8 | <0.5 | 7,300 |
| Nickel | µg/L | 1.0 | <1.0 | <1.0 | 3 | 390 |
| Selenium | µg/L | 1.0 | <1.0 | 1.5 | 2 | 50 |
| Silver | µg/L | 0.2 | <0.2 | <0.2 | <0.2 | 1.2 |
| Thallium | µg/L | 0.3 | <0.3 | <0.3 | <0.3 | 400 |
| Uranium | µg/L | 0.5 | 0.6 | 0.6 | 1.3 | 330 |
| Vanadium | µg/L | 0.4 | <0.4 | <0.4 | <0.4 | 200 |
| Zinc | µg/L | 5.0 | <5.0 | <5.0 | 6.4 | 890 |

NOTES:

Analysis by AGAT Laboratories.

NV mean "no value". N/A means "not applicable".

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

*** Depth of screen interval unknown. Depth to bottom of monitor shown.

Exceedances of Table 9 Standards are shown in **bold**.



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Table 8: GROUND WATER CHEMICAL ANALYSIS - Polycyclic Aromatic Hydrocarbons - Coal Yard Area

800 Hydro Road, Mississauga, Ontario
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| Sample I.D. | Units | RDL* | Monitor MW5-06 | Monitor MW23-07 | Monitor MW1-06 | Ontario Regulation 153/04 Table 3 Ground Water Standards** |
|--------------------------------|-------|------|-------------------|--------------------|-------------------|--|
| Screen Interval (m) | | | 1.37 to 4.42 | 0.76 to 2.90 | 2.29 to 5.33 | |
| Date of Sample Collection | | | 13-Nov-17 | 13-Nov-17 | 15-Nov-17 | |
| Date of Sample Analysis | | | 21-Nov-17 | 21-Nov-17 | 23-Nov-17 | |
| Certificate of Analysis Number | | | 17T283734 | 17T283734 | 17T285277 | |
| Laboratory I.D. | | | 8904899 | 8904938 | 8914354 | |
| 2-and 1-methyl Naphthalene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | |
| Acenaphthene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 1,700 |
| Acenaphthylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 1.8 |
| Anthracene | µg/L | 0.10 | <0.10 | <0.10 | <0.20 | 2.4 |
| Benz(a)anthracene | µg/L | 0.20 | <0.20 | <0.20 | <0.10 | 4.7 |
| Benzo(a)pyrene | µg/L | 0.01 | <0.01 | <0.01 | <0.10 | 0.81 |
| Benzo(b)fluoranthene | µg/L | 0.10 | <0.10 | <0.10 | <0.20 | 0.75 |
| Benzo(g,h,i)perylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 0.2 |
| Benzo(k)fluoranthene | µg/L | 0.10 | <0.10 | <0.10 | <0.20 | 0.4 |
| Chrysene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | 1 |
| Dibenz(a,h)anthracene | µg/L | 0.20 | <0.20 | <0.20 | <0.10 | 0.52 |
| Fluoranthene | µg/L | 0.20 | <0.20 | <0.20 | <0.10 | 130 |
| Fluorene | µg/L | 0.20 | <0.20 | <0.20 | <0.01 | 400 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 0.2 |
| Naphthalene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 6,400 |
| Phenanthrene | µg/L | 0.10 | <0.10 | <0.10 | <0.20 | 580 |
| Pyrene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 68 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

*** The sum of 1- and 2-Methylnaphthalene concentrations must not exceed the soil Standard if both are detected.

Exceedances of Table 3 Standards are shown in **bold**.



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Table 8: GROUND WATER CHEMICAL ANALYSIS - Petroleum Hydrocarbon Parameters - Coal Yard Area

800 Hydro Road, Mississauga, Ontario
December 2017

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| Sample I.D. | Units | RDL* | Monitor MW 23-07 | Monitor MW 5-06 | Monitor MW1-06 | Ontario Regulation 153/04 Table 3 Ground Water Standards** |
|--------------------------------|-------|------|---------------------|--------------------|-------------------|--|
| Screen Interval (m) | | | 0.76 to 2.90 | 1.37 to 4.42 | 2.29 to 5.33 | |
| Date of Sample Collection | | | 13-Nov-17 | 13-Nov-17 | 15-Nov-17 | |
| Date of Sample Analysis | | | 21-Nov-17 | 21-Nov-17 | 23-Nov-17 | |
| Certificate of Analysis Number | | | 17T283734 | 17T283734 | 17T285277 | |
| Laboratory I.D. | | | 8904938 | 8904899 | 8914354 | |
| Benzene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 430 |
| Toluene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 18,000 |
| Ethylbenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | 2,300 |
| Xylene Mixture (Total) | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | 4,200 |
| PHC F1 (C6 to C10) - BTEX | µg/L | 25 | <25 | <25 | <25 | 750 |
| PHC F2 (C10 to C16) | µg/L | 100 | <100 | <100 | <150 | 150 |
| PHC F3 (C16 to C34) | µg/L | 100 | <100 | <100 | <200 | 500 |
| PHC F4 (C34 to C50) | µg/L | 100 | <100 | <100 | <200 | 500 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

Exceedances of Table 3 Standards are shown in **bold**.



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Table 8: GROUND WATER CHEMICAL ANALYSIS - Volatile Organic Compounds - Coal Yard Area

800 Hydro Road, Mississauga, Ontario
December 2017

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| Sample I.D. | Units | RDL* | Monitor MW5-06 | Monitor MW1-06 | Ontario Regulation 153/04 Table 3 Ground Water Standards** |
|--------------------------------|-------|------|----------------|----------------|---|
| Screen Interval (m) | | | 1.37 to 4.42 | 2.29 to 5.33 | |
| Date of Sample Collection | | | 13-Nov-17 | 15-Nov-17 | |
| Date of Sample Analysis | | | 21-Nov-17 | 23-Nov-17 | |
| Certificate of Analysis Number | | | 17T283734 | 17T285277 | |
| Laboratory I.D. | | | 8904899 | 8914354 | |
| 1,1,1,2-Tetrachloroethane | µg/L | 0.10 | <0.10 | <0.10 | 28 |
| 1,1,1-Trichloroethane | µg/L | 0.30 | <0.30 | <0.30 | 6,700 |
| 1,1,2,2-Tetrachloroethane | µg/L | 0.10 | <0.10 | <0.10 | 15 |
| 1,1,2-Trichloroethane | µg/L | 0.20 | <0.20 | <0.20 | 30 |
| 1,1-Dichloroethane | µg/L | 0.30 | <0.30 | <0.30 | 3,100 |
| 1,1-Dichloroethylene | µg/L | 0.30 | <0.30 | <0.30 | 17 |
| 1,2-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | 9,600 |
| 1,2-Dichloroethane | µg/L | 0.20 | <0.20 | <0.20 | 12 |
| 1,2-Dichloropropane | µg/L | 0.20 | <0.20 | <0.20 | 140 |
| 1,3-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | 9,600 |
| 1,3-Dichloropropene | µg/L | 0.30 | <0.30 | <0.30 | 45 |
| 1,4-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | 67 |
| Acetone | µg/L | 1.0 | <1.0 | <1.0 | 130,000 |
| Benzene | µg/L | 0.2 | <0.20 | <0.20 | 430 |
| Bromodichloromethane | µg/L | 0.20 | <0.20 | <0.20 | 85,000 |
| Bromoform | µg/L | 0.10 | <0.10 | <0.10 | 770 |
| Bromomethane | µg/L | 0.20 | <0.20 | <0.20 | 56 |
| Carbon Tetrachloride | µg/L | 0.20 | <0.20 | <0.20 | 8.4 |
| Chlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | 630 |
| Chloroform | µg/L | 0.20 | <0.20 | <0.20 | 22 |
| cis- 1,2-Dichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | 17 |
| Dibromochloromethane | µg/L | 0.10 | <0.10 | <0.10 | 82,000 |
| Dichlorodifluoromethane | µg/L | 0.20 | <0.20 | <0.20 | 4,400 |
| Ethylbenzene | µg/L | 0.10 | <0.10 | <0.10 | 2,300 |
| Ethylene Dibromide | µg/L | 0.10 | <0.10 | <0.10 | 0.83 |
| Methyl Ethyl Ketone | µg/L | 1.0 | <1.0 | <1.0 | 1,500,000 |
| Methyl Isobutyl Ketone | µg/L | 1.0 | <1.0 | <1.0 | 580,000 |
| Methyl tert-butyl ether | µg/L | 0.20 | <0.20 | <0.20 | 1,400 |
| Methylene Chloride | µg/L | 0.30 | <0.30 | <0.30 | 5,500 |
| n-Hexane | µg/L | 0.20 | <0.20 | <0.20 | 520 |
| Styrene | µg/L | 0.10 | <0.10 | <0.10 | 9,100 |
| Tetrachloroethylene | µg/L | 0.20 | <0.20 | <0.20 | 17 |
| Toluene | µg/L | 0.20 | <0.20 | <0.20 | 18,000 |
| trans- 1,2-Dichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | 17 |
| Trichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | 17 |
| Trichlorofluoromethane | µg/L | 0.40 | <0.40 | <0.40 | 2,500 |
| Vinyl Chloride | µg/L | 0.17 | <0.17 | <0.17 | 1.7 |
| Xylene Mixture | µg/L | 0.20 | <0.20 | <0.20 | 4,200 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

Exceedances of Table 3 Standards are shown in **bold**.

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Table 8: GROUND WATER CHEMICAL ANALYSIS - Metals and Inorganic Parameters - Coal Yard Area

800 Hydro Road, Mississauga, Ontario

December 2017

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| Sample I.D. | Units | RDL* | Monitor MW 5-06 | Monitor MW 23-07 | Ontario Regulation 153/04 Table 3 Ground Water Standards** |
|--------------------------------|-------|------|--------------------|---------------------|---|
| Screen Interval (m) | | | 1.37 to 4.42 | 0.76 to 2.90 | |
| Date of Sample Collection | | | 13-Nov-17 | 13-Nov-17 | |
| Date of Sample Analysis | | | 21-Nov-17 | 21-Nov-17 | |
| Certificate of Analysis Number | | | 17T283734 | 17T283734 | |
| Laboratory I.D. | | | 8904899 | 8904938 | |
| Antimony | µg/L | 1.0 | <1.0 | <1.0 | 20,000 |
| Arsenic | µg/L | 1.0 | 1.6 | 1.2 | 1,900 |
| Barium | µg/L | 2.0 | 50 | 27.6 | 29,000 |
| Beryllium | µg/L | 0.5 | <0.5 | <0.5 | 67 |
| Boron | µg/L | 10.0 | 186 | 248 | 45,000 |
| Cadmium | µg/L | 0.2 | <0.2 | <0.2 | 2.7 |
| Chromium | µg/L | 2.0 | 2.2 | <2.0 | 810 |
| Cobalt | µg/L | 1.0 | 3 | 0.7 | 66 |
| Copper | µg/L | 1.0 | 2.2 | 1.3 | 87 |
| Lead | µg/L | 0.5 | <0.5 | <0.5 | 25 |
| Molybdenum | µg/L | 0.5 | 0.8 | 1 | 9,200 |
| Nickel | µg/L | 1.0 | <1.0 | <1.0 | 490 |
| Selenium | µg/L | 1.0 | 2 | <1.0 | 63 |
| Silver | µg/L | 0.2 | <0.2 | <0.2 | 1.5 |
| Thallium | µg/L | 0.3 | <0.3 | <0.3 | 510 |
| Uranium | µg/L | 0.5 | 2.4 | 2.7 | 420 |
| Vanadium | µg/L | 0.4 | <0.4 | <0.4 | 250 |
| Zinc | µg/L | 5.0 | 127 | 6 | 1100 |

NOTES:

Analysis by AGAT Laboratories.

NV mean "no value". N/A means "not applicable".

All results in ppb (µg/L).

* Reporting Detection Limit (RDL) value is listed.

** Standards shown are for all types of property use with medium to fine textured soil.

Exceedances of Table 3 Standards are shown in **bold**.

Table 9: GROUND WATER CHEMICAL ANALYSIS - Petroleum Hydrocarbon Parameters - Intake Channel

800 Hydro Road, Mississauga, Ontario
December 2017

Page 1 of 4

| Sample I.D. | Units | RDL* | Monitor GR1 | Monitor GR2 | Duplicate of GR2 GR23 | Monitor GR3 | Aquatic Protection Value |
|--------------------------------|-------|------|-------------|-------------|-----------------------|-------------|--------------------------|
| Date of Sample Collection | | | 14-Nov-17 | 14-Nov-17 | 14-Nov-17 | 14-Nov-17 | |
| Date of Sample Analysis | | | 22-Nov-17 | 22-Nov-17 | 22-Nov-17 | 22-Nov-17 | |
| Certificate of Analysis Number | | | 17T285277 | 17T285277 | 17T285277 | 17T285277 | |
| Laboratory I.D. | | | 8914373 | 8914378 | 8914380 | 8914379 | |
| Benzene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 460 |
| Toluene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 1,400 |
| Ethylbenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 181 |
| Xylene Mixture (Total) | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 330 |
| PHC F1 (C6 to C10) - BTEX | µg/L | 25 | <25 | <25 | <25 | <25 | 75.09 |
| PHC F2 (C10 to C16) | µg/L | 100 | <100 | <100 | <100 | <100 | 78.47 |
| PHC F3 (C16 to C34) | µg/L | 100 | <100 | <100 | <100 | <100 | NV |
| PHC F4 (C34 to C50) | µg/L | 100 | <100 | <100 | <100 | <100 | NV |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

NV means 'no value'.

* Reporting Detection Limit (RDL) value is listed.

Exceedances of the Ontario Ministry of the Environment (MOE), 2011C. *Rationale for the Development of Soil and Ground Water Standards for Use at Contaminated Sites in Ontario* (April 15, 2011) are shown in **bold**.

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Table 9: GROUND WATER CHEMICAL ANALYSIS - Volatile Organic Compounds - Intake Channel

800 Hydro Road, Mississauga, Ontario
December 2017

Page 2 of 4

| Sample I.D. | Units | RDL* | Monitor GR1 | Monitor GR2 | Duplicate of GR2 GR23 | Monitor GR3 | Aquatic Protection Value |
|--------------------------------|-------|------|----------------|----------------|--------------------------|----------------|--------------------------|
| Date of Sample Collection | | | 14-Nov-17 | 14-Nov-17 | 14-Nov-17 | 14-Nov-17 | |
| Date of Sample Analysis | | | 22-Nov-17 | 22-Nov-17 | 22-Nov-17 | 22-Nov-17 | |
| Certificate of Analysis Number | | | 17T285277 | 17T285277 | 17T285277 | 17T285277 | |
| Laboratory I.D. | | | 8914373 | 8914378 | 8914380 | 8914379 | |
| 1,1,1,2-Tetrachloroethane | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 2,000 |
| 1,1,1-Trichloroethane | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 900 |
| 1,1,2,2-Tetrachloroethane | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 2,400 |
| 1,1,2-Trichloroethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 9,400 |
| 1,1-Dichloroethane | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 202,000 |
| 1,1-Dichloroethylene | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 1,200 |
| 1,2-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 763 |
| 1,2-Dichloroethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 20,000 |
| 1,2-Dichloropropane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 5,700 |
| 1,3-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 763 |
| 1,3-Dichloropropene | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 244 |
| 1,4-Dichlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 763 |
| Acetone | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 10,000 |
| Benzene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 460 |
| Bromodichloromethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 6,700 |
| Bromoform | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 2,900 |
| Bromomethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 320 |
| Carbon Tetrachloride | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 200 |
| Chlorobenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 50 |
| Chloroform | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 1,240 |
| cis- 1,2-Dichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 14,000 |
| Dibromochloromethane | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 6,500 |
| Dichlorodifluoromethane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 350 |
| Ethylbenzene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 181 |
| Ethylene Dibromide | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 9,600 |
| Methyl Ethyl Ketone | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 120,000 |
| Methyl Isobutyl Ketone | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 46,000 |
| Methyl tert-butyl ether | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 100,000 |
| Methylene Chloride | µg/L | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 1,320 |
| n-Hexane | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 250 |
| Styrene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 720 |
| Tetrachloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 840 |
| Toluene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 1,400 |
| trans- 1,2-Dichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 22,000 |
| Trichloroethylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 21,900 |
| Trichlorofluoromethane | µg/L | 0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 200 |
| Vinyl Chloride | µg/L | 0.17 | <0.17 | <0.17 | <0.17 | <0.17 | 35,600 |
| Xylene Mixture | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 330 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

NV means 'no value'.

* Reporting Detection Limit (RDL) value is listed.

Exceedances of the Ontario Ministry of the Environment (MOE), 2011C, *Rationale for the Development of Soil and Ground Water Standards for Use at Contaminated Sites in Ontario* (April 15, 2011) are shown in **bold**.

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Table 9: GROUND WATER CHEMICAL ANALYSIS - Polycyclic Aromatic Hydrocarbons - Intake Channel

800 Hydro Road, Mississauga, Ontario

December 2017

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| Sample I.D. | Units | RDL* | Monitor GR1 | Monitor GR2 | Duplicate of (GR2) GR23 | Monitor GR3 | Aquatic Protection Value |
|--------------------------------|-------|------|-----------------|-----------------|----------------------------|-----------------|--------------------------|
| Date of Sample Collection | | | 14-Nov-17 | 14-Nov-17 | 14-Nov-17 | 14-Nov-17 | |
| Date of Sample Analysis | | | 22-Nov-17 | 22-Nov-17 | 22-Nov-17 | 22-Nov-17 | |
| Certificate of Analysis Number | | | 17T285277 | 17T285277 | 17T285277 | 17T285277 | |
| Laboratory I.D. | | | 8914373 | 8914378 | 8914379 | 8914380 | |
| 2-and 1-methyl Naphthalene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 146 |
| Acenaphthene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 520 |
| Acenaphthylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.14 |
| Anthracene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 |
| Benz(a)anthracene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.18 |
| Benzo(a)pyrene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.21 |
| Benzo(b)fluoranthene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.42 |
| Benzo(g,h,i)perylene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.02 |
| Benzo(k)fluoranthene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.14 |
| Chrysene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.07 |
| Dibenz(a,h)anthracene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.04 |
| Fluoranthene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 7.3 |
| Fluorene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 29 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.14 |
| Naphthalene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 620 |
| Phenanthrene | µg/L | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 38 |
| Pyrene | µg/L | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.57 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

NV means 'no value'.

* Reporting Detection Limit (RDL) value is listed.

** The sum of 1- and 2-Methylnaphthalene concentrations must not exceed the soil Standard if both are detected.

Exceedances of the Ontario Ministry of the Environment (MOE), 2011C. *Rationale for the Development of Soil and Ground Water Standards for Use at Contaminated Sites in Ontario* (April 15, 2011) are shown in bold.



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Table 9: GROUND WATER CHEMICAL ANALYSIS - Metals and Inorganic Parameters - Intake Channel

800 Hydro Road, Mississauga, Ontario
December 2017

Page 4 of 4

| Sample I.D. | Units | RDL* | Monitor GR1 | Monitor GR2 | Duplicate of GR2 GR23 | Monitor GR3 | Aquatic Protection Value |
|--------------------------------|-------|------|----------------|----------------|--------------------------|----------------|--------------------------|
| Date of Sample Collection | | | 14-Nov-17 | 14-Nov-17 | 14-Nov-17 | 14-Nov-17 | |
| Date of Sample Analysis | | | 21-Nov-17 | 21-Nov-17 | 21-Nov-17 | 21-Nov-17 | |
| Certificate of Analysis Number | | | 17T285277 | 17T285277 | 17T285277 | 17T285277 | |
| Laboratory I.D. | | | 8914373 | 8914378 | 8914380 | 8914379 | |
| Antimony | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1,600 |
| Arsenic | µg/L | 1.0 | 1.1 | 1.1 | 1.1 | <1.0 | 150 |
| Barium | µg/L | 2.0 | 23.7 | 23.6 | 23.7 | 23.0 | 2,300 |
| Beryllium | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5.3 |
| Boron | µg/L | 10.0 | 35.2 | 32.1 | 30.9 | 31.0 | 3,550 |
| Cadmium | µg/L | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.21 |
| Chromium | µg/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 64 |
| Cobalt | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5.2 |
| Copper | µg/L | 1.0 | 1.2 | <1.0 | 1.1 | 1.4 | 6.9 |
| Lead | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.0 |
| Molybdenum | µg/L | 0.5 | 1.4 | 1.5 | 1.5 | 1.4 | 730 |
| Nickel | µg/L | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 39 |
| Selenium | µg/L | 1.0 | 1.1 | 2.1 | <1.0 | <1.0 | 5 |
| Silver | µg/L | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.12 |
| Thallium | µg/L | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | 40 |
| Uranium | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 33 |
| Vanadium | µg/L | 0.4 | 0.8 | 0.7 | 0.6 | 0.7 | 20 |
| Zinc | µg/L | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 89 |

NOTES:

Analysis by AGAT Laboratories.

All results in ppb (µg/L).

NV means 'no value'.

* Reporting Detection Limit (RDL) value is listed.

Exceedances of the Ontario Ministry of the Environment (MOE), 2011C. *Rationale for the Development of Soil and Ground Water Standards for Use at Contaminated Sites in Ontario* (April 15, 2011) are shown in **bold**.



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*Client: Lakeview Community Partners Limited
Project Name: Subsurface Environmental Assessment
800 Hydro Road, Mississauga, Ontario
Project Number: MRK-00243747-A0
Date: December 22, 2017, Reissued March 2, 2018*

Appendix A: Limitations and Use of Report



LIMITATIONS AND USE OF REPORT

BASIS OF REPORT

The Report is based on site conditions known or inferred by the investigation undertaken as of the date of the Report. Should changes occur which potentially impact the condition of the site the recommendations of EXP may require re-evaluation. Where special concerns exist, or the Client has special considerations or requirements, these should be disclosed to EXP to allow for additional or special investigations to be undertaken not otherwise within the scope of investigation conducted for the purpose of the Report.

Where applicable, recommended field services are the minimum necessary to ascertain that construction is being carried out in general conformity with building code guidelines, generally accepted practices and EXP's recommendations. Any reduction in the level of services recommended will result in EXP providing qualified opinions regarding the adequacy of the work. EXP can assist design professionals or contractors retained by the Client to review applicable plans, drawings, and specifications as they relate to the Report or to conduct field reviews during construction.

RELIANCE ON INFORMATION PROVIDED

The evaluation and conclusions contained in the Report are based on conditions in evidence at the time of site inspections and information provided to EXP by the Client and others. The Report has been prepared for the specific site, development, building, design or building assessment objectives and purpose as communicated by the Client. EXP has relied in good faith upon such representations, information and instructions and accepts no responsibility for any deficiency, misstatement or inaccuracy contained in the Report as a result of any misstatements, omissions, misrepresentation or fraudulent acts of persons providing information. Unless specifically stated otherwise, the applicability and reliability of the findings, recommendations, suggestions or opinions expressed in the Report are only valid to the extent that there has been no material alteration to or variation from any of the information provided to EXP.

STANDARD OF CARE

This report ("Report") has been prepared in a manner consistent with the degree of care and skill exercised by engineering consultants currently practicing under similar circumstances and locale. No other warranty, expressed or implied, is made. Unless specifically stated otherwise, the Report does not contain environmental consulting advice.



COMPLETE REPORT

All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment form part of the Report. This material includes, but is not limited to, the terms of reference given to EXP by the Client, communications between EXP and the Client, other reports, proposals or documents prepared by EXP for the Client in connection with the site described in the Report. In order to properly understand the suggestions, recommendations and opinions expressed in the Report, reference must be made to the Report in its entirety. EXP is not responsible for use by any party of portions of the Report.

USE OF REPORT

The information and opinions expressed in the Report, or any document forming part of the Report, are for the sole benefit of the Client. No other party may use or rely upon the Report in whole or in part without the written consent of EXP. Any use of the Report, or any portion of the Report, by a third party are the sole responsibility of such third party. EXP is not responsible for damages suffered by any third party resulting from unauthorised use of the Report.

REPORT FORMAT

Where EXP has submitted both electronic file and a hard copy of the Report, or any document forming part of the Report, only the signed and sealed hard copy shall be the original documents for record and working purposes. In the event of a dispute or discrepancy, the hard copy shall govern. Electronic files transmitted by EXP utilize specific software and hardware systems. EXP makes no representation about the compatibility of these files with the Client's current or future software and hardware systems. Regardless of format, the documents described herein are EXP's instruments of professional service and shall not be altered without the written consent of EXP.



*Client: Lakeview Community Partners Limited
Project Name: Subsurface Environmental Assessment
800 Hydro Road, Mississauga, Ontario
Project Number: MRK-00243747-A0
Date: December 22, 2017, Reissued March 2, 2018*

Appendix B: Qualifications of Assessors



Carla Reynolds, P.Biol., P.Geo. (Limited), QP_{ESA} (Manager, Environmental Services)

Carla Reynolds obtained an Honours degree in Biology from Queen's University in 1991 and a diploma in Terrain and Water Resources from Fleming College in 1994. Ms. Reynolds became a Professional Biologist with the Alberta Society of Professional Biologists in 2009. She is also registered as a Professional Geoscientist with the Association of Professional Geoscientists of Ontario and is a Qualified Person (QP) for both environmental assessments and risk assessments under Ontario Regulation 153/04.

Ms. Reynolds has over 23 years experience in environmental assessment and remediation. To date, she has completed over 2,000 environmental assessment or remediation projects for various clients across Canada. This work has included consultation during purchase, sale, leasing and development of land, consultation for brownfield site re-development and peer review of remedial design and reports.

T.C. (Travis) Tan, M.A.Sc., P.Eng., QP_{ESA} (Team Lead, Remediation)

Travis Tan graduated from the University of Toronto with a Master of Applied Science degree in Chemical Engineering, having previously completed his Bachelor of Engineering degree in Environmental Engineering at the National University of Singapore.

Mr. Tan has more than 10 years of consulting experience in the environmental field. His areas of expertise include Phase I and II environmental assessments, risk assessments, soil and ground water remediation, modeling and interpretation of contaminant fate and transport and providing technical analysis on environmental legal proceedings.

Mr. Tan manages and directs projects involving Risk Assessment and environmental remediation of complex sites with soil and groundwater contamination, for the purposes of property re-development, mortgage financing, due diligence, legislative compliance and right-of-way conveyance. Projects involve brownfield sites in Ontario, Alberta, Saskatchewan and Texas, including a 90-acre former wood treatment plant in Edmonton; a refrigerator manufacturing facility and a former tannery in the Greater Toronto Area (GTA); and a waterfront property and a former landfill site in the City of Toronto.

Mr. Tan is a Qualified Person for Risk Assessment (QP_{RA}) and Environmental Site Assessment (QP_{ESA}) under Ontario Regulation 153/04. Mr. Tan is a registered Professional Engineer (P. Eng.) in Ontario and Alberta.

Ajay Jayalath, M.Env.Sc. (Hydrogeologist)

Mr. Jayalath graduated from the University of Toronto in 2012 with a Bachelor of Science degree in Environmental Geoscience, specializing in Urban Geoscience and Hydrogeology. He completed his Master of Environmental Science Degree at the University of Toronto in 2014.

Mr. Jayalath has over 5 years' experience in geotechnical and environmental investigations. Since joining EXP in 2013, Mr. Jayalath has worked on numerous Phase One and Two ESAs, from conducting field work to the reporting phases. He has also been involved in the design and application of several remediation projects.

*Client: Lakeview Community Partners Limited
Project Name: Subsurface Environmental Assessment
800 Hydro Road, Mississauga, Ontario
Project Number: MRK-00243747-A0
Date: December 22, 2017, Reissued March 2, 2018*

Appendix C: Test Hole Logs



Log of Borehole TH101

Project No. MRK-00243747-A0

Drawing No. 1

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

North Recreational and Transmission Line Area

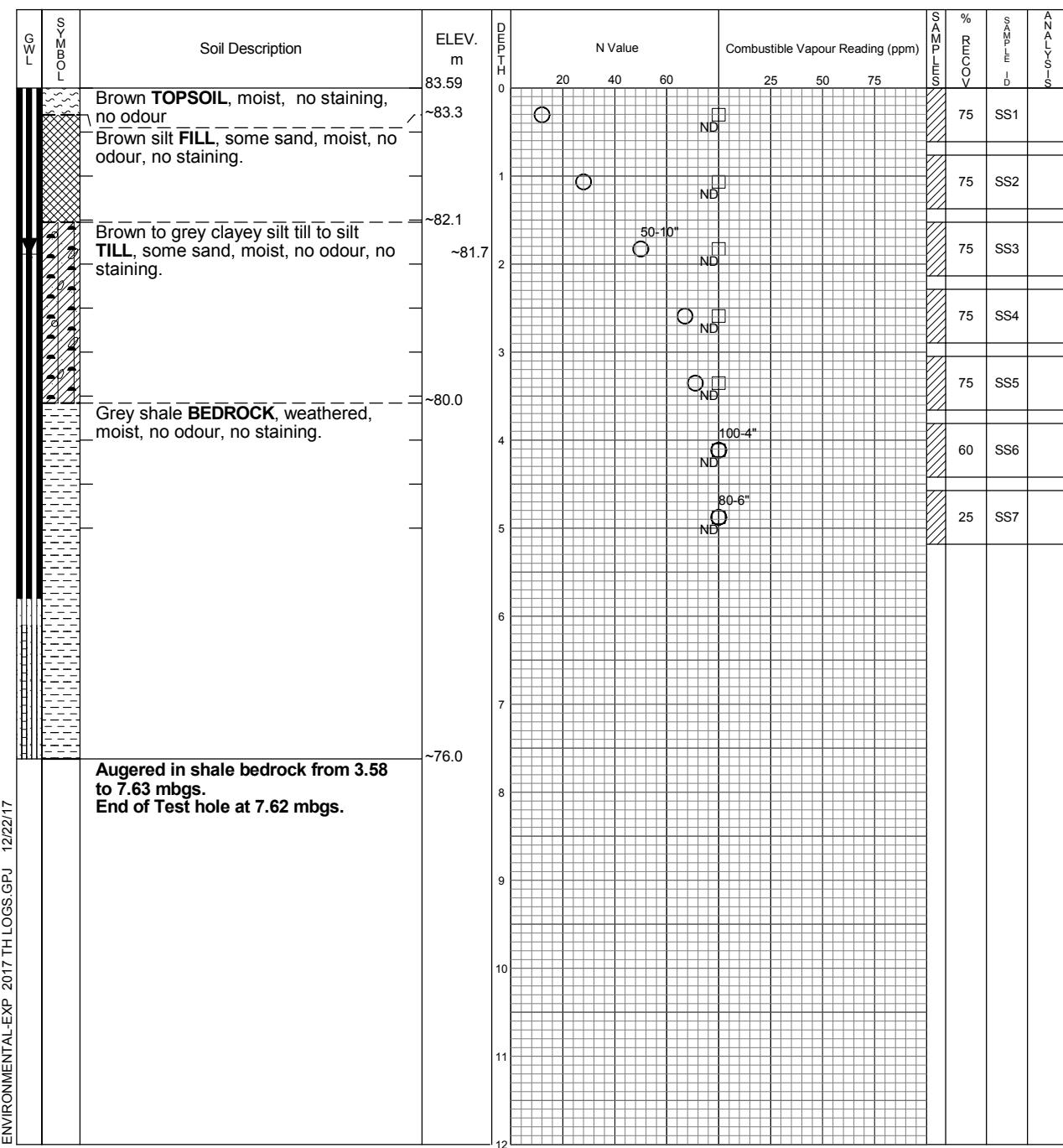
Date Drilled: November 10, 2017

Chemical Analysis

| | | | |
|------|--|-----|--------------------------------|
| BTEX | Benzene, Toluene, Ethylbenzene and Xylenes | * | Duplicate Sample |
| ING | Metals and Inorganics | PCB | Polychlorinated Biphenyls |
| MET | Metals | PHC | Petroleum Hydrocarbons (F1-F4) |
| PAH | Polycyclic Aromatic Hydrocarbons | VOC | Volatile Organic Compounds |
| PEST | Organochlorine Pesticides | | |

Drill Type: CME-75 Track

Datum: Trimble TC3 Controller



| Time | Water Level (m) | Depth to Cave (m) |
|-------------------|-----------------|-------------------|
| November 14, 2017 | 1.925 | |

Log of Borehole TH102

Project No. MRK-00243747-A0

Drawing No. 2

Project: Subsurface Assessment

Sheet No. 1 of 2

Location: 800 Hydro Road, Mississauga, Ontario

North Recreational and Transmission Line Area

Date Drilled: November 8, 2017

Chemical Analysis

Drill Type: CME-75 Track

BTEX Benzene, Toluene, Ethylbenzene and Xylenes

* Duplicate Sample

Datum: Trimble TC3 Controller

ING Metals and Inorganics

PCB Polychlorinated Biphenyls

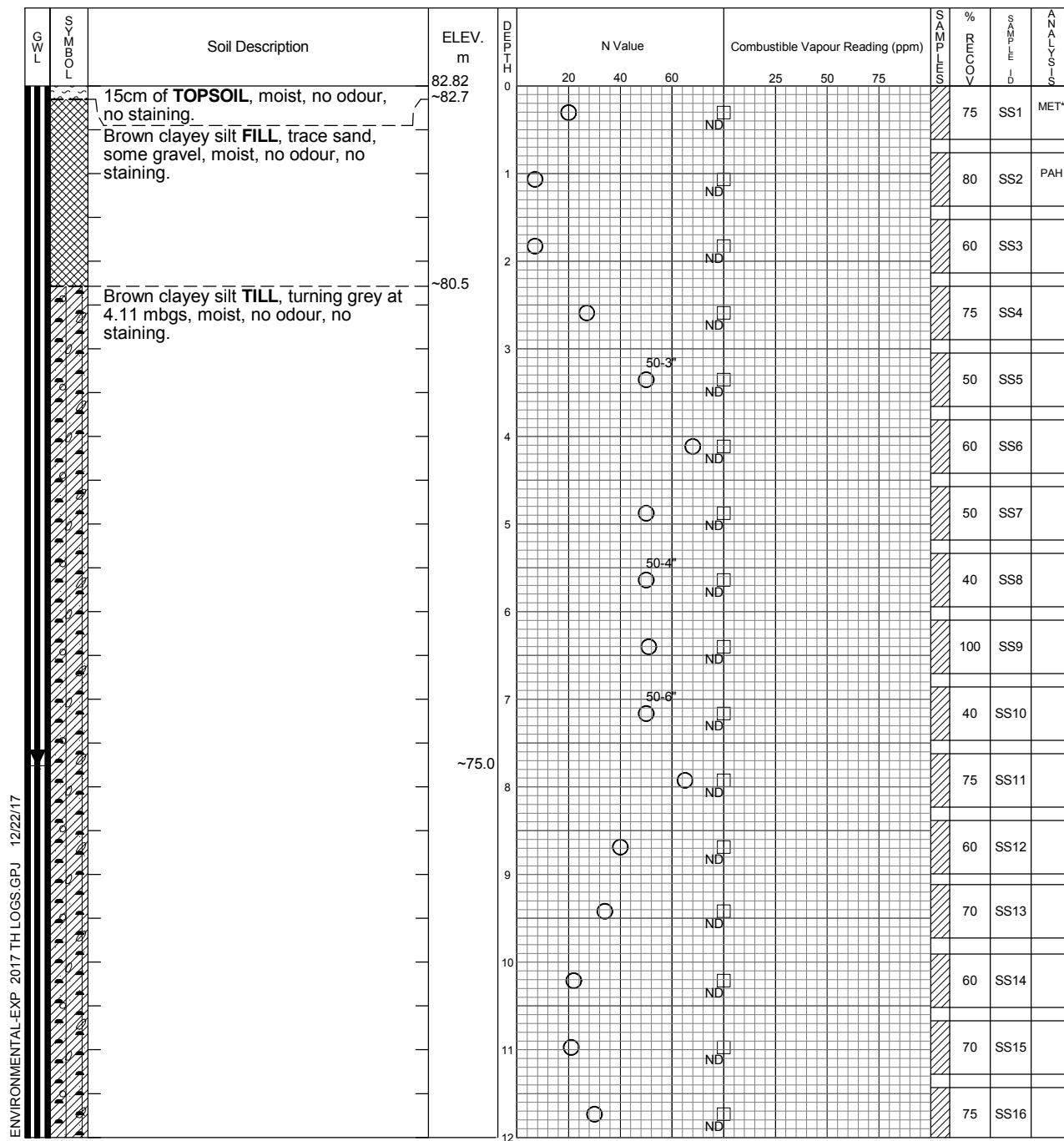
MET Metals

PHC Petroleum Hydrocarbons (F1-F4)

PAH Polycyclic Aromatic Hydrocarbons

VOC Volatile Organic Compounds

PEST Organochlorine Pesticides



Continued Next Page



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|-------------------|-----------------|-------------------|
| November 14, 2017 | 7.794 | |

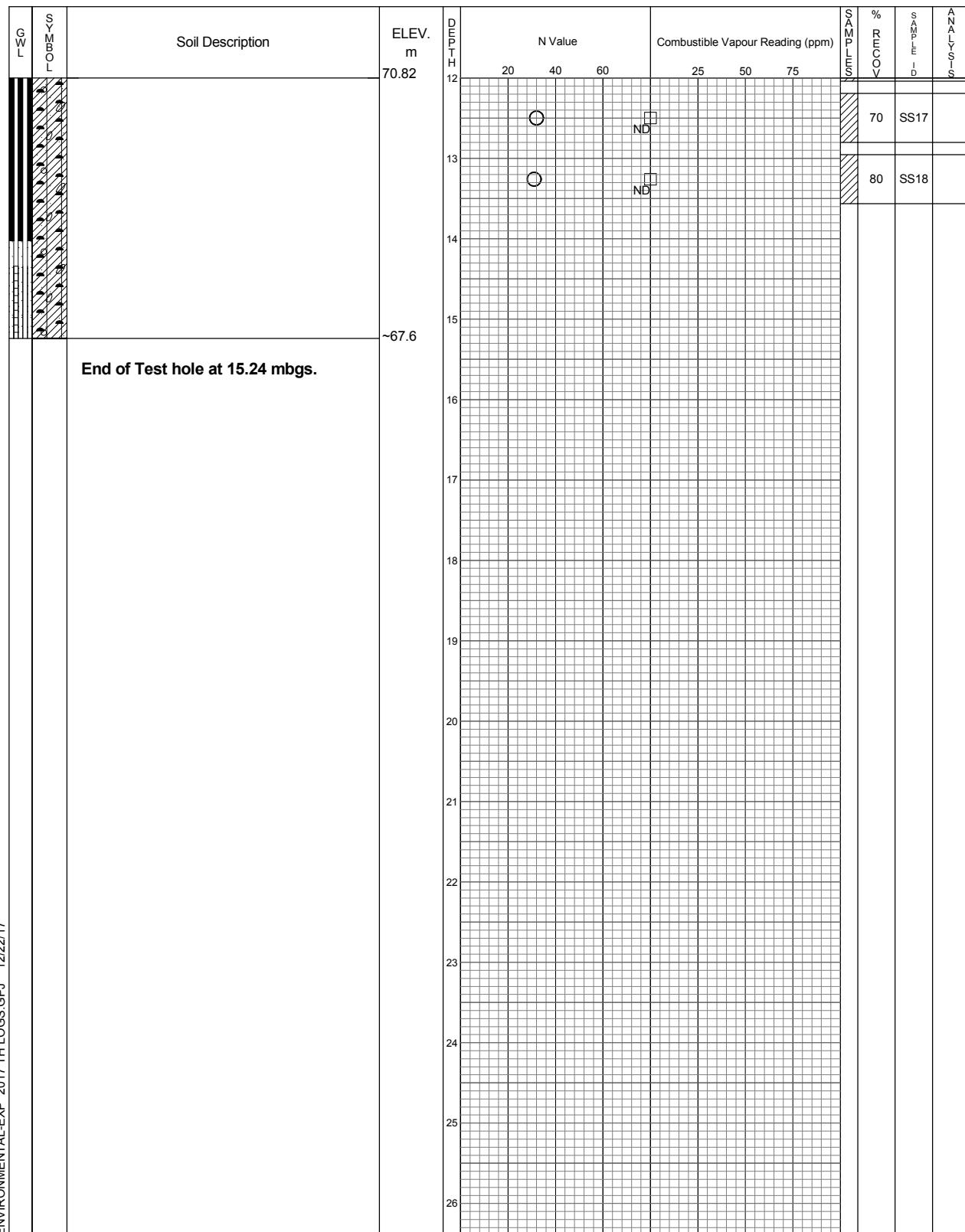
Log of Borehole TH102

Project No. MRK-00243747-A0

Drawing No. 2

Project: Subsurface Assessment

Sheet No. 2 of 2



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|-------------------|-----------------|-------------------|
| November 14, 2017 | 7.794 | |
| | | |

Log of Borehole TH103

Project No. MRK-00243747-A0

Drawing No. 3

Project: Subsurface Assessment

Sheet No. 1 of 2

Location: 800 Hydro Road, Mississauga, Ontario

Switchyard Area

Date Drilled: November 6, 2017

Chemical Analysis

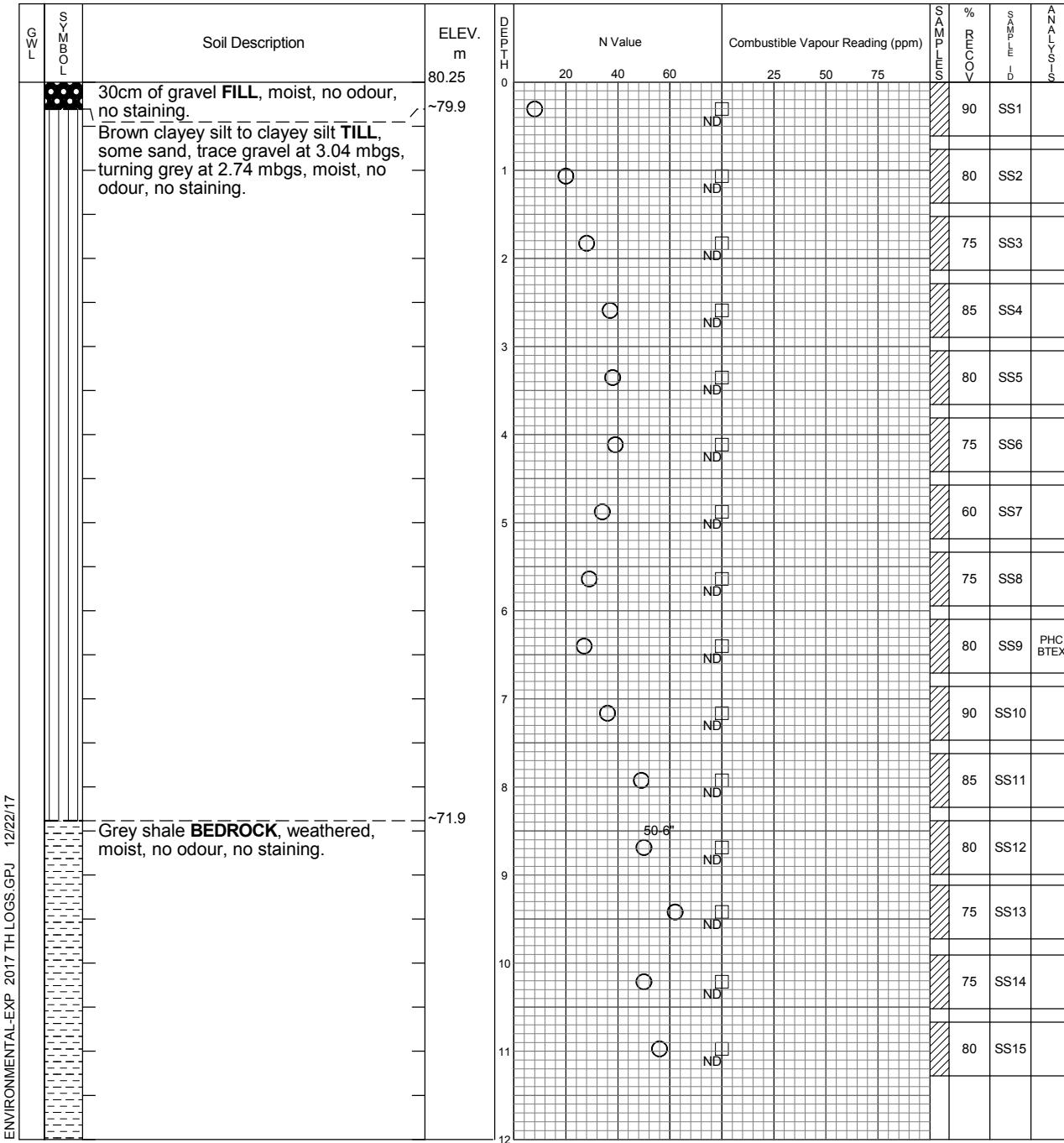
* Duplicate Sample

Drill Type: CME-75 Track

PCB Polychlorinated Biphenyls

Datum: Trimble TC3 Controller

PHC Petroleum Hydrocarbons



Continued Next Page



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

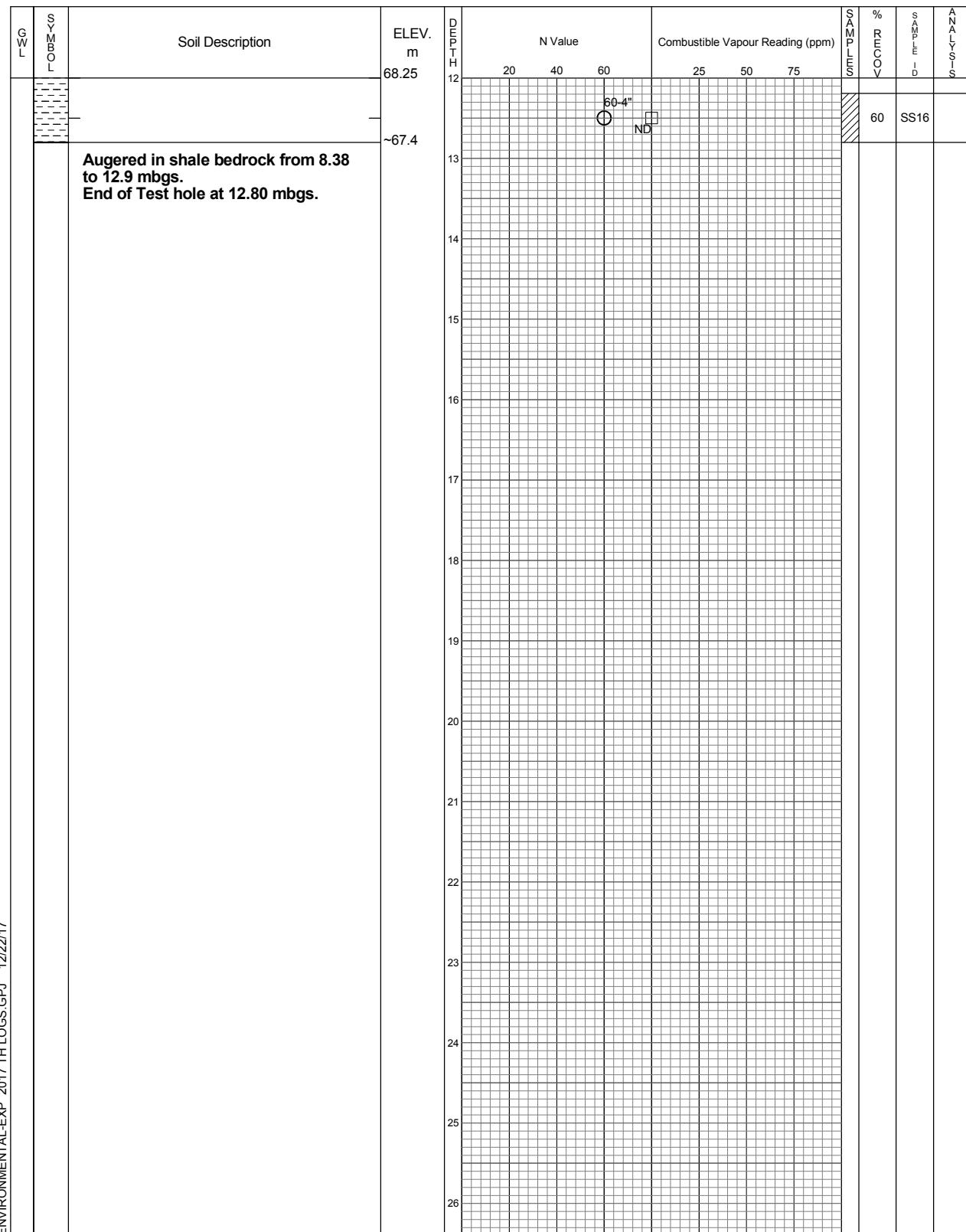
Log of Borehole TH103

Project No. MRK-00243747-A0

Drawing No. 3

Project: Subsurface Assessment

Sheet No. 2 of 2



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TH104

Project No. MRK-00243747-A0

Drawing No. 4

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

Switchyard Area

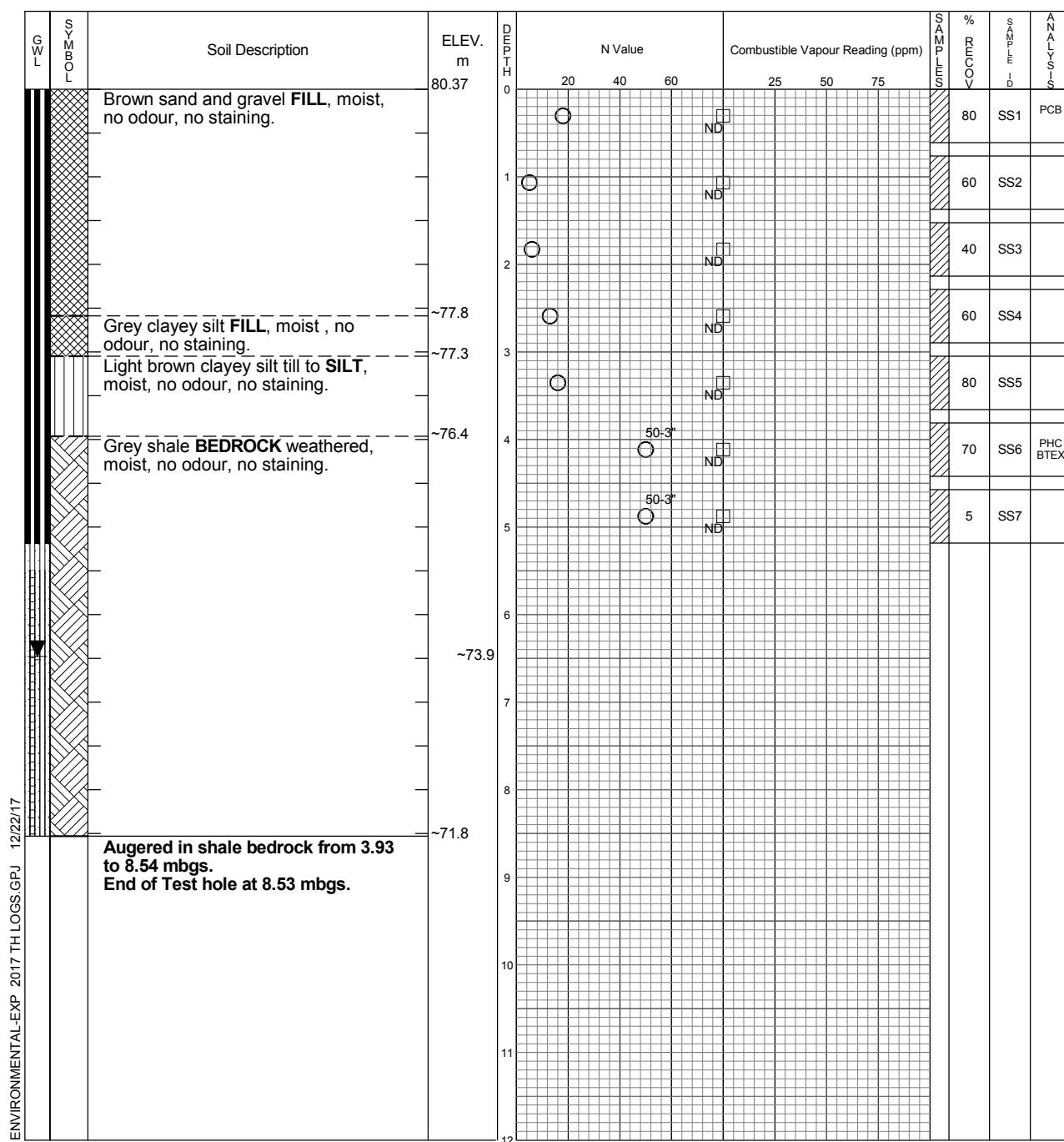
Date Drilled: November 9, 2017

Chemical Analysis

| | | | |
|------|--|-----|--------------------------------|
| BTEX | Benzene, Toluene, Ethylbenzene and Xylenes | * | Duplicate Sample |
| ING | Metals and Inorganics | PCB | Polychlorinated Biphenyls |
| MET | Metals | PHC | Petroleum Hydrocarbons (F1-F4) |
| PAH | Polycyclic Aromatic Hydrocarbons | VOC | Volatile Organic Compounds |
| PEST | Organochlorine Pesticides | | |

Drill Type: CME-75 Track

Datum: Trimble TC3 Controller



ENVIRONMENTAL-EXP 2017 TH LOGS GPJ 12/22/17

| Time | Water Level (m) | Depth to Cave (m) |
|-------------------|-----------------|-------------------|
| November 14, 2017 | 6.514 | |

Log of Borehole TH105

Project No. MRK-00243747-A0

Drawing No. 5

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

Switchyard Area

Date Drilled: November 10, 2017

Chemical Analysis

Drill Type: CME-75 Track

BTEX Benzene, Toluene, Ethylbenzene and Xylenes

* Duplicate Sample

Datum: Trimble TC3 Controller

ING Metals and Inorganics

PCB Polychlorinated Biphenyls

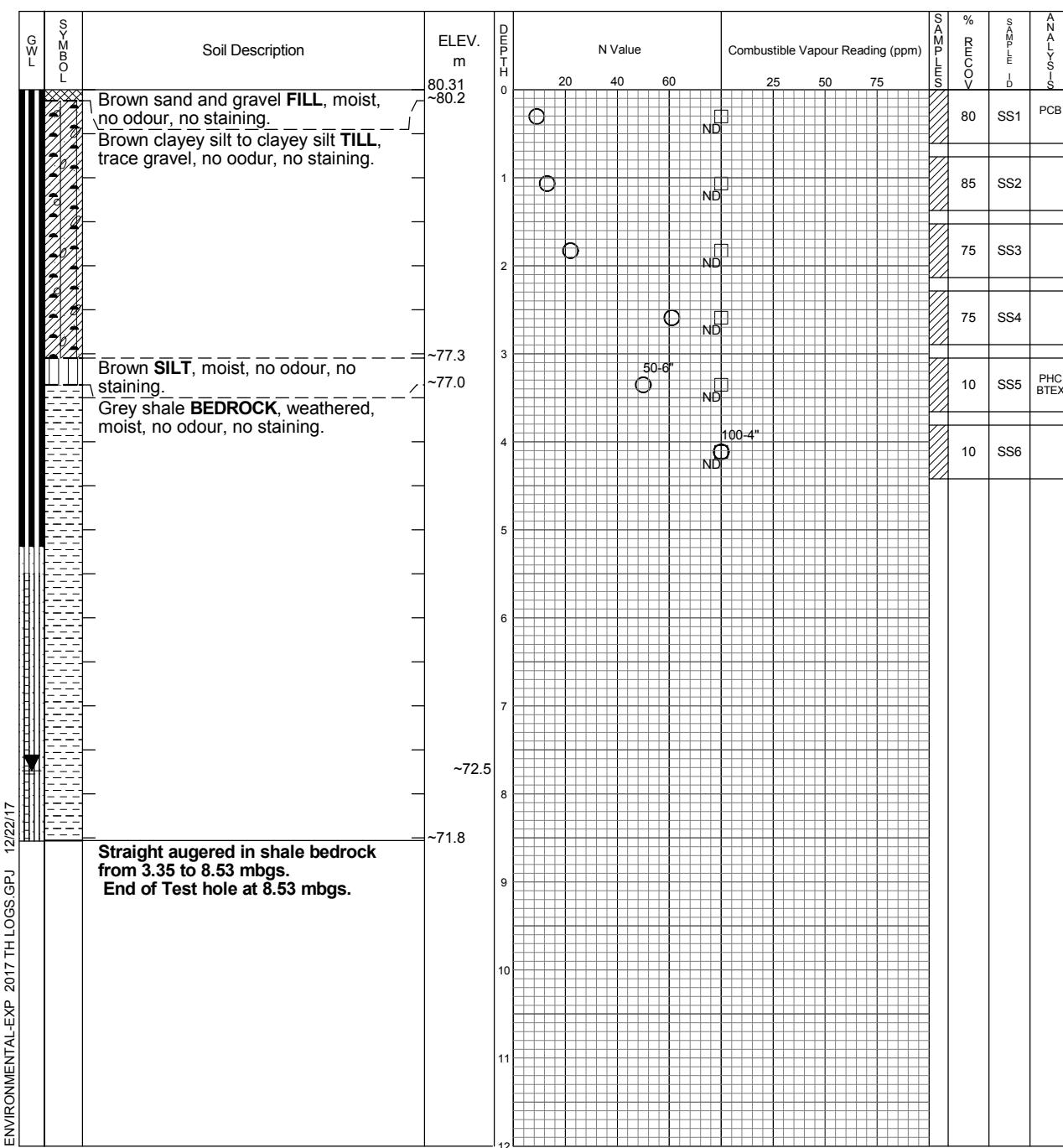
MET Metals

PHC Petroleum Hydrocarbons (F1-F4)

PAH Polycyclic Aromatic Hydrocarbons

VOC Volatile Organic Compounds

PEST Organochlorine Pesticides



| Time | Water Level (m) | Depth to Cave (m) |
|-------------------|-----------------|-------------------|
| November 15, 2017 | 7.773 | |

Log of Borehole TH106

Project No. MRK-00243747-A0

Drawing No. 6

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

South of Powerhouse

Date Drilled: November 6, 2017

Chemical Analysis

Drill Type: CME-75 Track

BTEX Benzene, Toluene, Ethylbenzene and Xylenes

* Duplicate Sample

Datum: Trimble TC3 Controller

ING Metals and Inorganics

PCB Polychlorinated Biphenyls

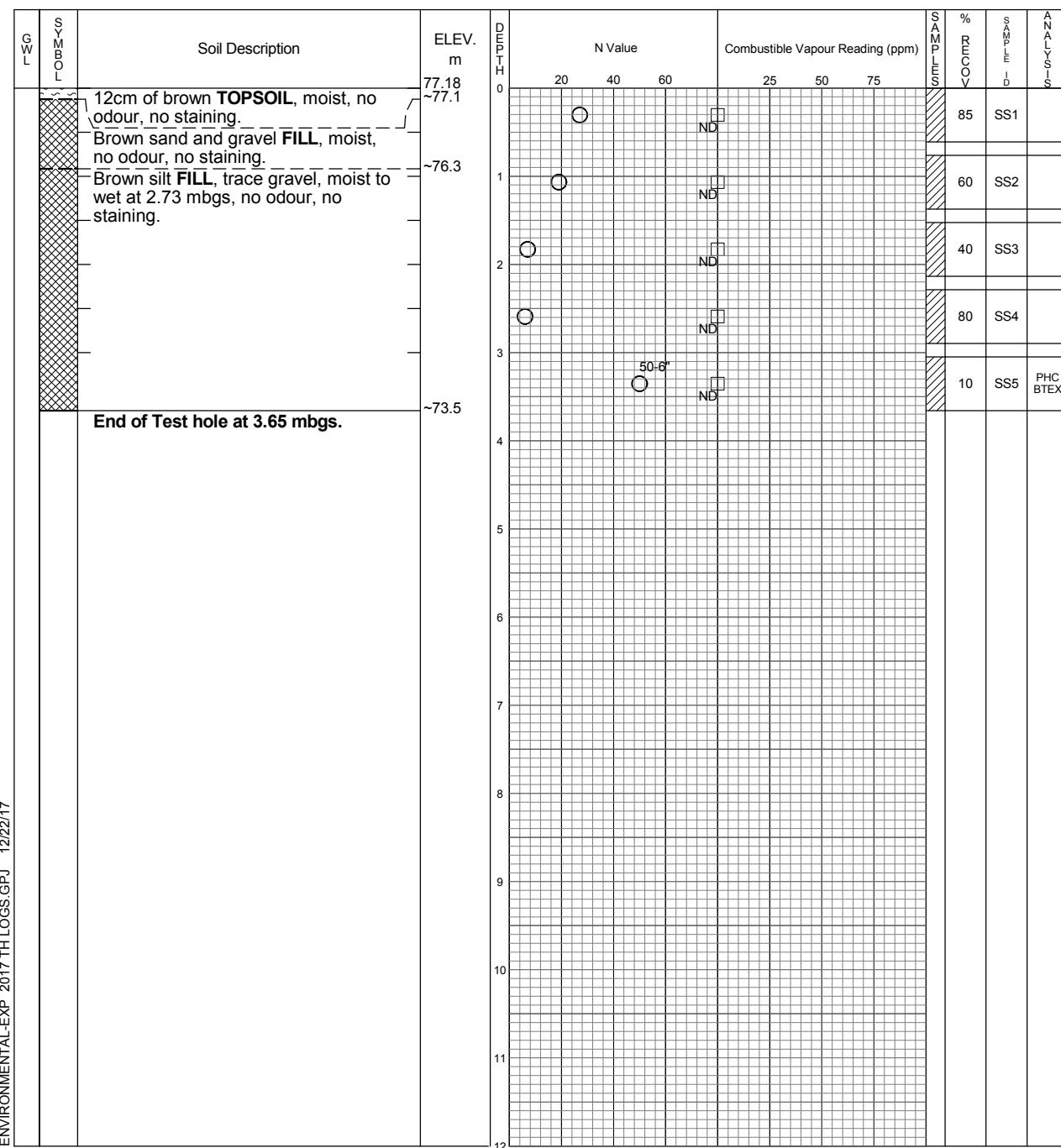
MET Metals

PHC Petroleum Hydrocarbons (F1-F4)

PAH Polycyclic Aromatic Hydrocarbons

VOC Volatile Organic Compounds

PEST Organochlorine Pesticides



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TH107

Project No. MRK-00243747-A0

Drawing No. 7

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

South of Powerhouse

Date Drilled: November 9, 2017

Chemical Analysis

Drill Type: CME-75 Track

BTEX Benzene, Toluene, Ethylbenzene and Xylenes

* Duplicate Sample

Datum: Trimble TC3 Controller

ING Metals and Inorganics

PCB Polychlorinated Biphenyls

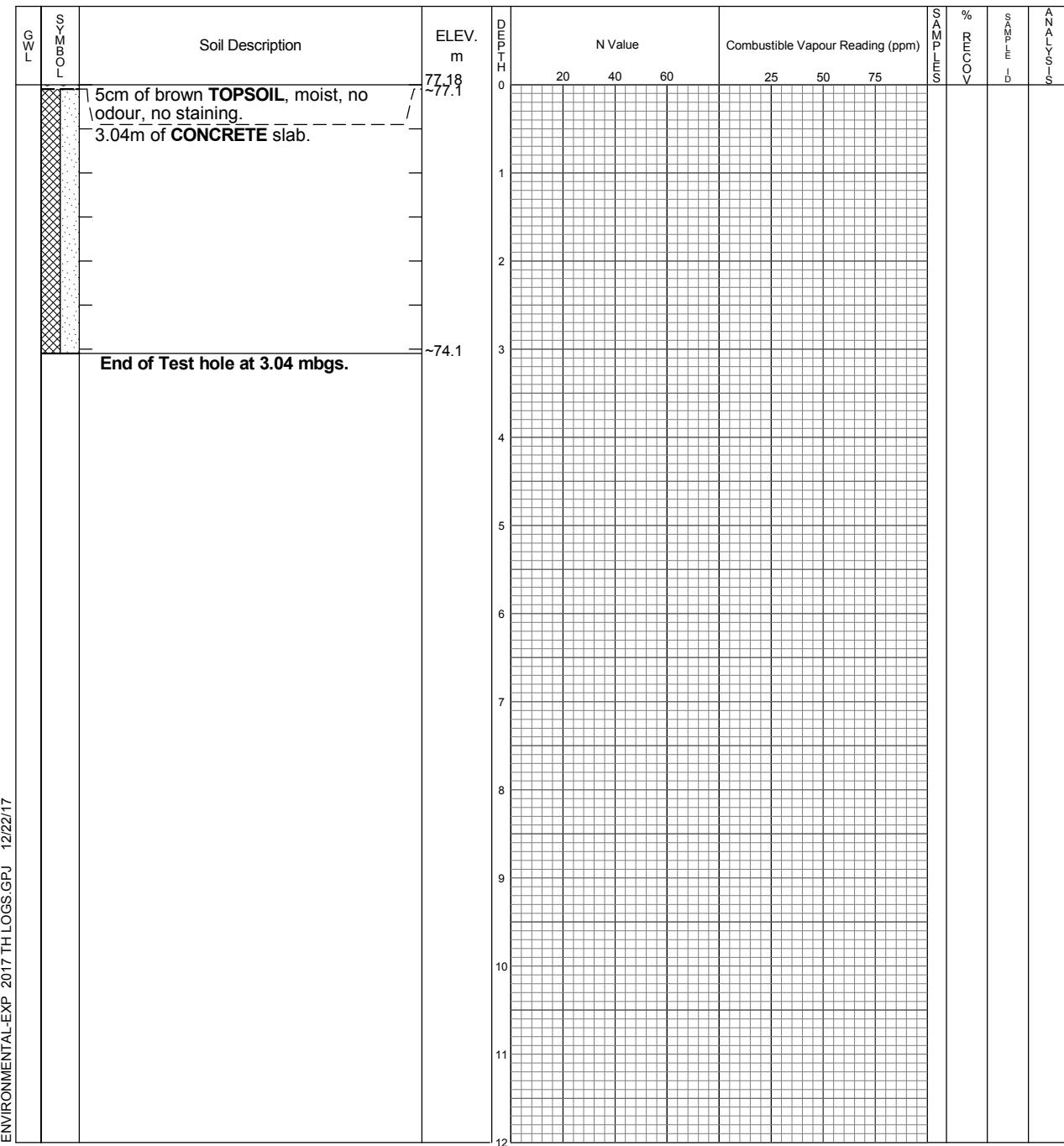
MET Metals

PHC Petroleum Hydrocarbons (F1-F4)

PAH Polycyclic Aromatic Hydrocarbons

VOC Volatile Organic Compounds

PEST Organochlorine Pesticides



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TH108

Project No. MRK-00243747-A0

Drawing No. 8

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

South of Powerhouse

Date Drilled: November 9, 2017

Chemical Analysis

Drill Type: CME-75 Track

BTEX Benzene, Toluene, Ethylbenzene and Xylenes

* Duplicate Sample

Datum: Trimble TC3 Controller

ING Metals and Inorganics

PCB Polychlorinated Biphenyls

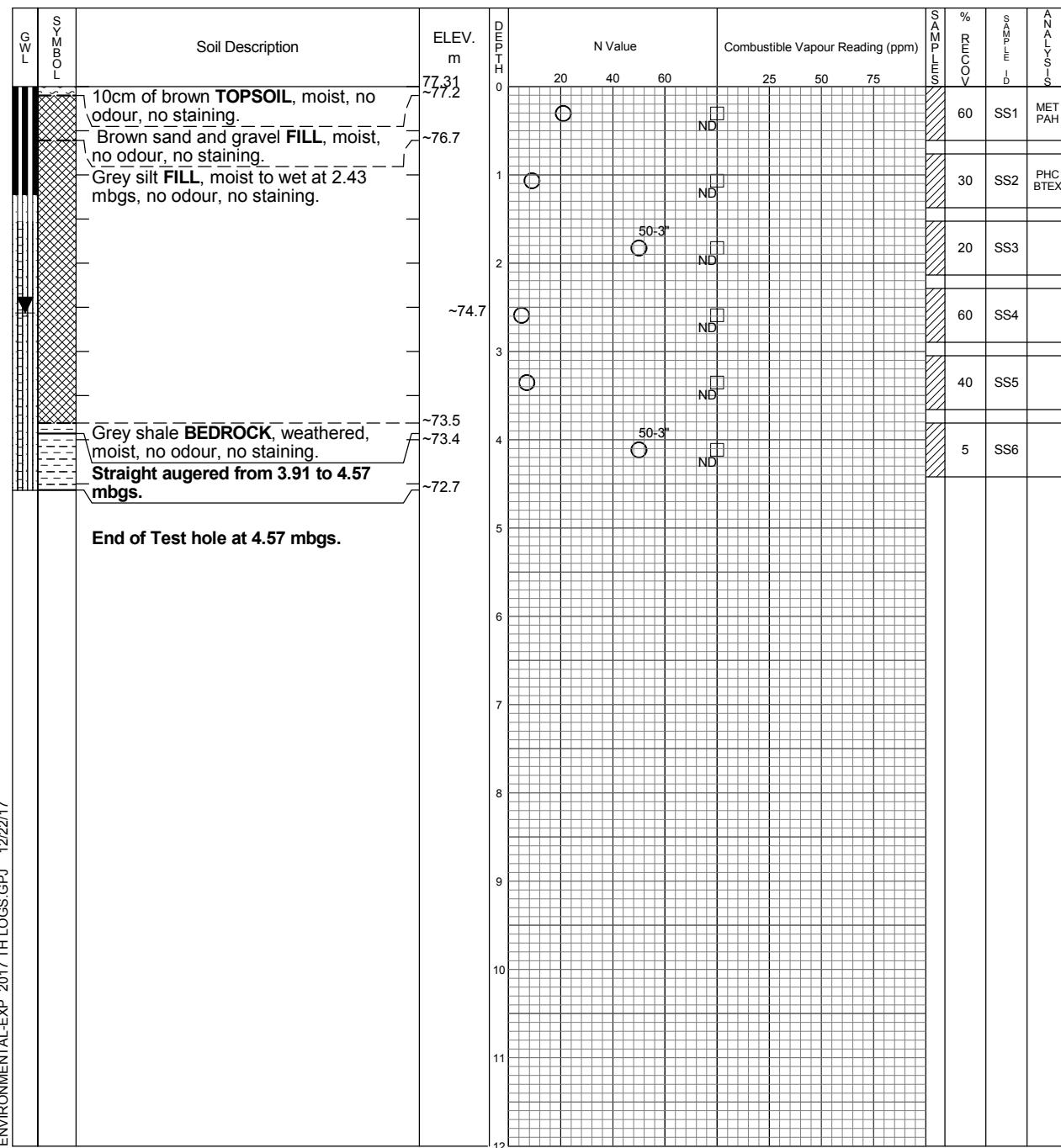
MET Metals

PHC Petroleum Hydrocarbons (F1-F4)

PAH Polycyclic Aromatic Hydrocarbons

VOC Volatile Organic Compounds

PEST Organochlorine Pesticides



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17

| Time | Water Level (m) | Depth to Cave (m) |
|-------------------|-----------------|-------------------|
| November 14, 2017 | 2.601 | |

Log of Borehole TH109

Project No. MRK-00243747-A0

Drawing No. 9

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

South of Powerhouse

Date Drilled: November 13, 2017

Chemical Analysis

Drill Type: CME-75 Track

BTEX Benzene, Toluene, Ethylbenzene and Xylenes

* Duplicate Sample

Datum: Trimble TC3 Controller

ING Metals and Inorganics

PCB Polychlorinated Biphenyls

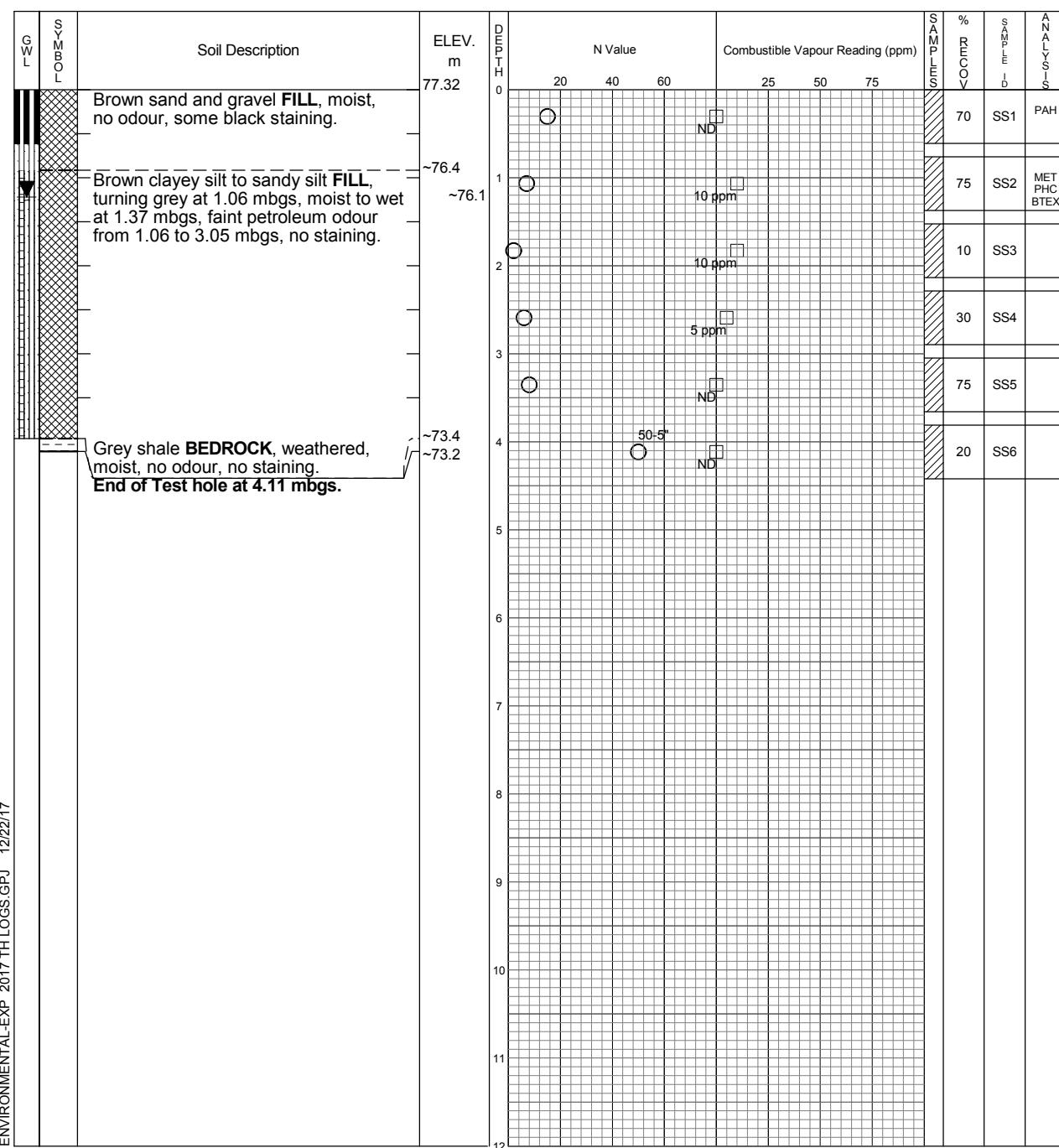
MET Metals

PHC Petroleum Hydrocarbons (F1-F4)

PAH Polycyclic Aromatic Hydrocarbons

VOC Volatile Organic Compounds

PEST Organochlorine Pesticides



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17

| Time | Water Level (m) | Depth to Cave (m) |
|-------------------|-----------------|-------------------|
| November 14, 2017 | 1.257 | |

Log of Borehole TH110

Project No. MRK-00243747-A0

Drawing No. 10

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

South of Powerhouse

Date Drilled: November 13, 2017

Chemical Analysis

Drill Type: CME-75 Track

BTEX Benzene, Toluene, Ethylbenzene and Xylenes

* Duplicate Sample

Datum: Trimble TC3 Controller

ING Metals and Inorganics

PCB Polychlorinated Biphenyls

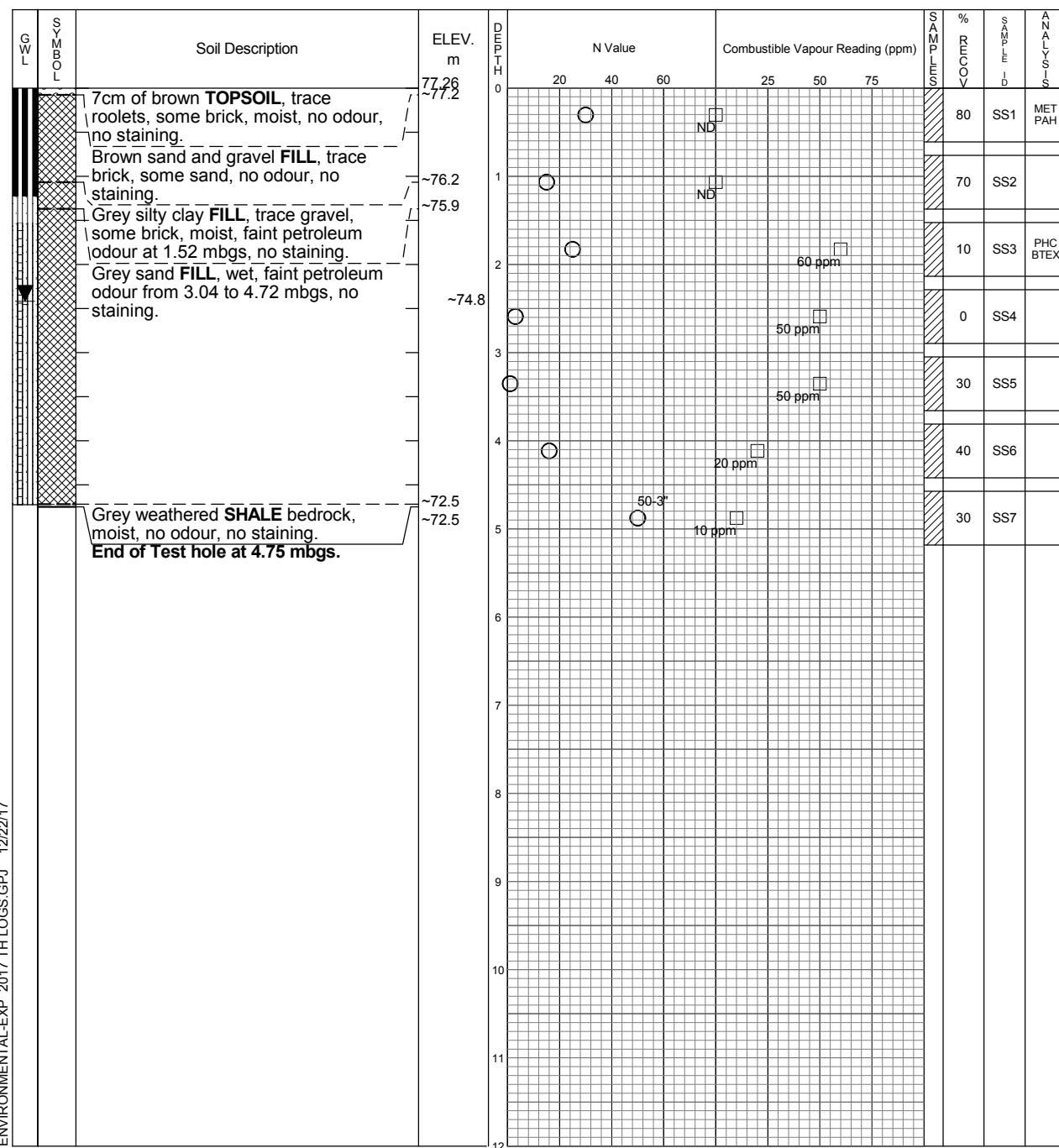
MET Metals

PHC Petroleum Hydrocarbons (F1-F4)

PAH Polycyclic Aromatic Hydrocarbons

VOC Volatile Organic Compounds

PEST Organochlorine Pesticides



| Time | Water Level (m) | Depth to Cave (m) |
|-------------------|-----------------|-------------------|
| November 14, 2017 | 2.455 | |

Log of Borehole TH111

Project No. MRK-00243747-A0

Drawing No. 11

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

South of Powerhouse

Date Drilled: November 6, 2017

Chemical Analysis

Drill Type: CME-75 Track

BTEX Benzene, Toluene, Ethylbenzene and Xylenes

* Duplicate Sample

Datum: Trimble TC3 Controller

ING Metals and Inorganics

PCB Polychlorinated Biphenyls

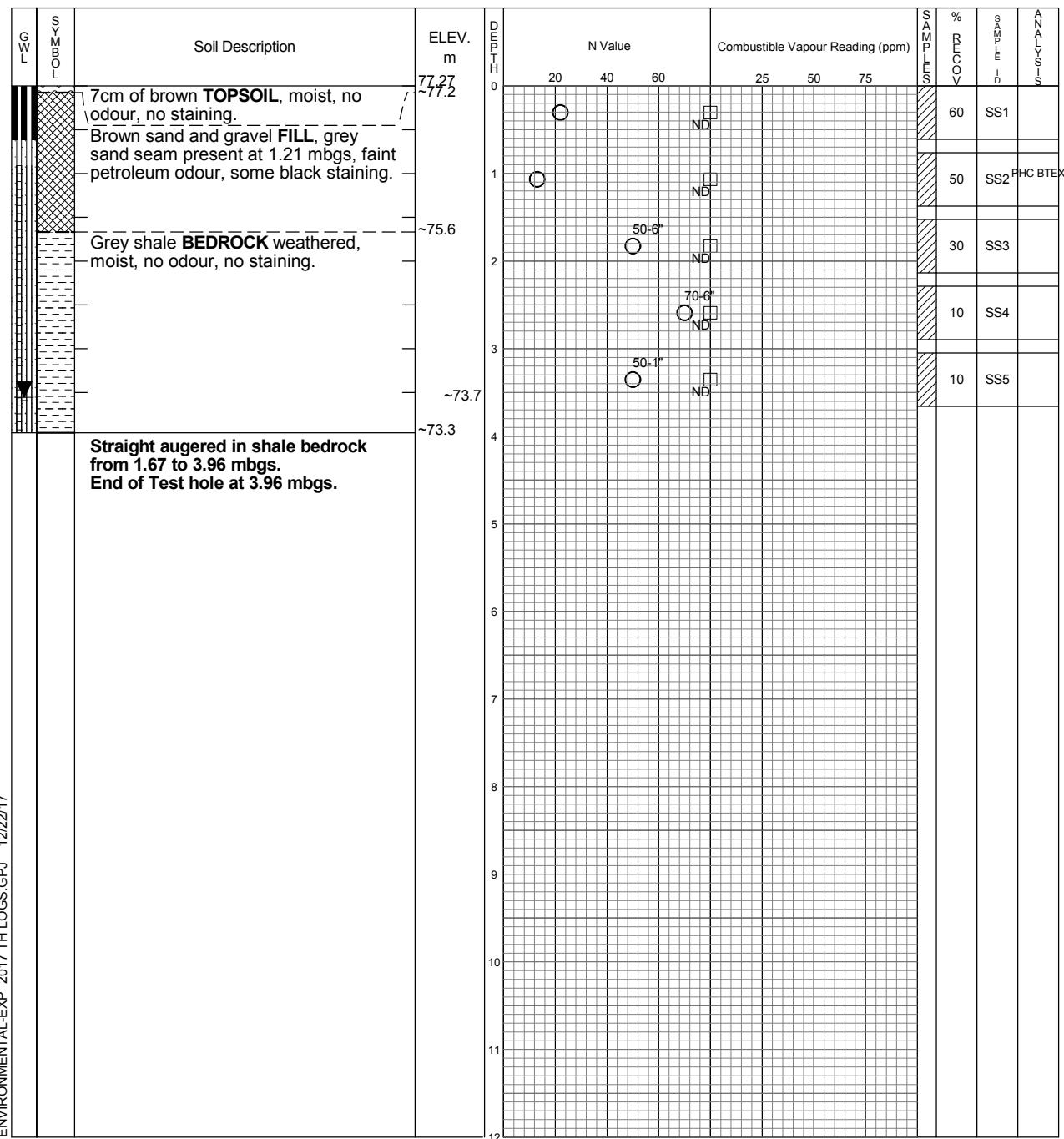
MET Metals

PHC Petroleum Hydrocarbons (F1-F4)

PAH Polycyclic Aromatic Hydrocarbons

VOC Volatile Organic Compounds

PEST Organochlorine Pesticides



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17

| Time | Water Level (m) | Depth to Cave (m) |
|-------------------|-----------------|-------------------|
| November 14, 2017 | 3.592 | |

Log of Borehole TH112

Project No. MRK-00243747-A0

Drawing No. 12

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

Powerhouse Area

Date Drilled: November 13, 2017

Chemical Analysis

Drill Type: CME-75 Track

BTEX Benzene, Toluene, Ethylbenzene and Xylenes

* Duplicate Sample

Datum: Trimble TC3 Controller

ING Metals and Inorganics

PCB Polychlorinated Biphenyls

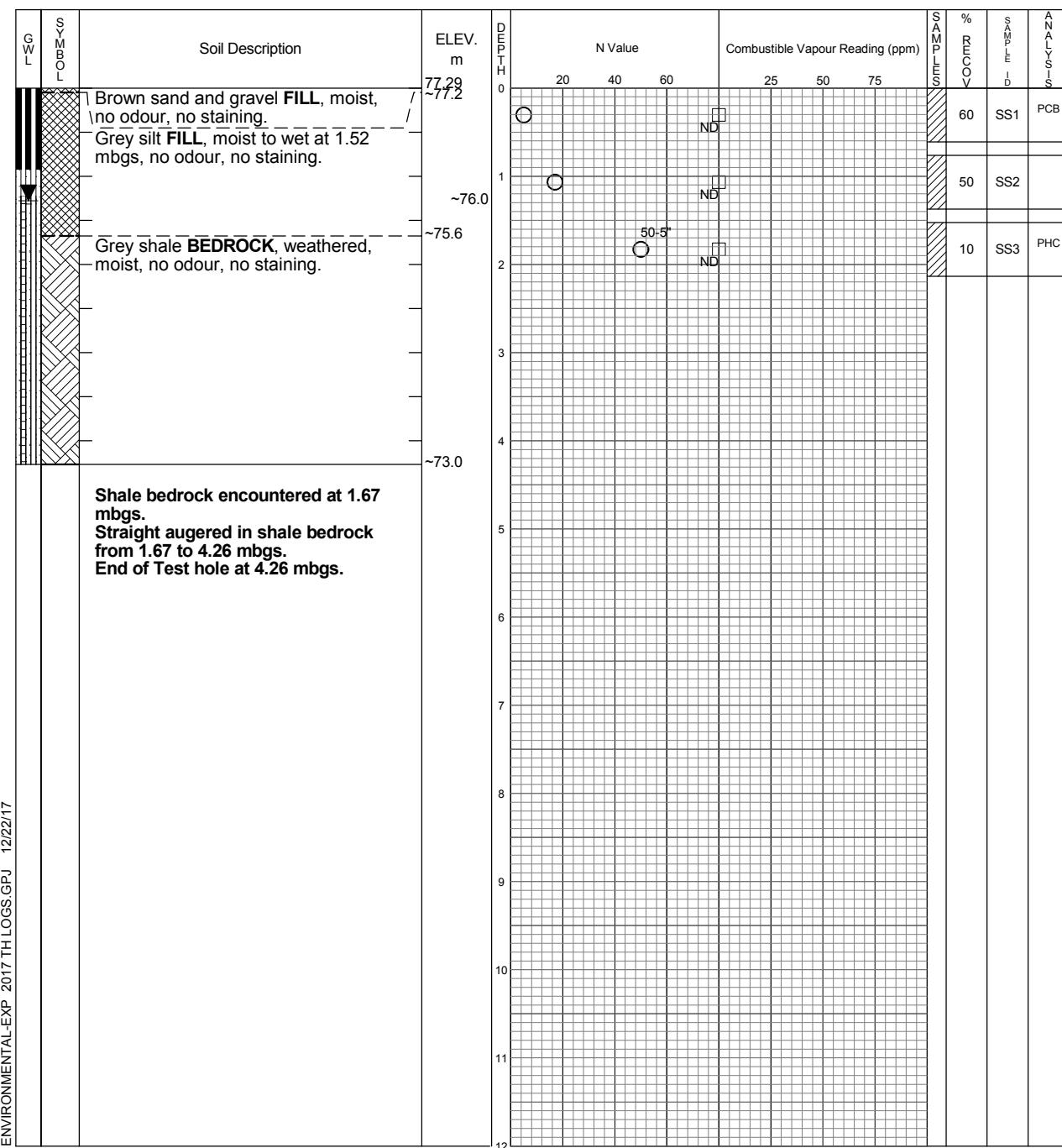
MET Metals

PHC Petroleum Hydrocarbons (F1-F4)

PAH Polycyclic Aromatic Hydrocarbons

VOC Volatile Organic Compounds

PEST Organochlorine Pesticides



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17

| Time | Water Level (m) | Depth to Cave (m) |
|-------------------|-----------------|-------------------|
| November 14, 2017 | 1.315 | |

Log of Borehole TP1

Project No. MRK-00243747-A0

Drawing No. 13

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

Powerhouse Area

Date Drilled: November 14, 2017

Chemical Analysis

Drill Type: Excavator

BTEX Benzene, Toluene, Ethylbenzene and Xylenes

* Duplicate Sample

Datum: Trimble TC3 Controller

ING Metals and Inorganics

PCB Polychlorinated Biphenyls

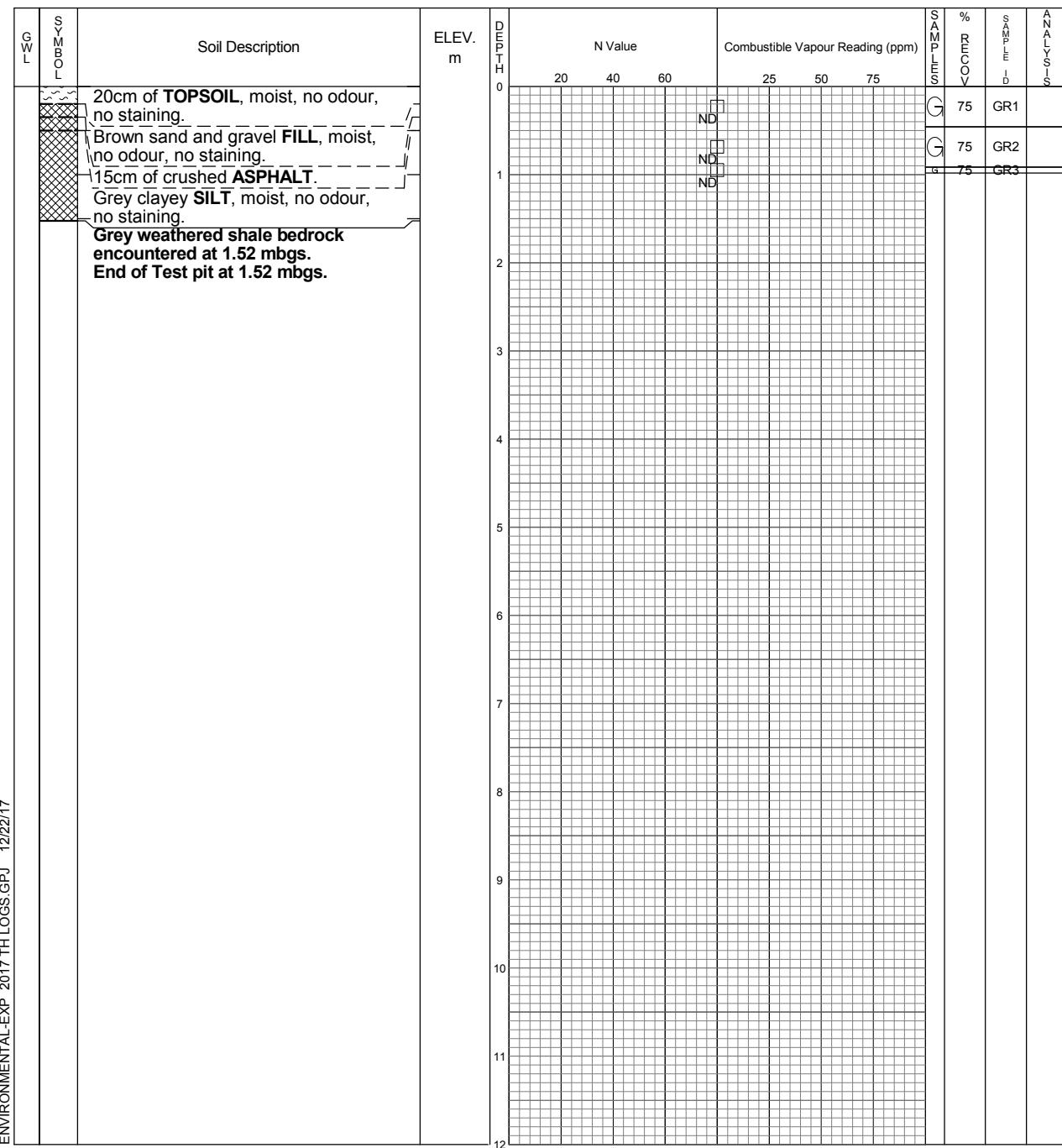
MET Metals

PHC Petroleum Hydrocarbons (F1-F4)

PAH Polycyclic Aromatic Hydrocarbons

VOC Volatile Organic Compounds

PEST Organochlorine Pesticides



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP2

Project No. MRK-00243747-A0

Drawing No. 14

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

Powerhouse Area

Date Drilled: November 14, 2017

Chemical Analysis

* Duplicate Sample

Drill Type: Excavator

PCB Polychlorinated Biphenyls

Datum: Trimble TC3 Controller

PHC Petroleum Hydrocarbons (

| GW L | S Y M B O L | Soil Description | ELEV. m | D E P T H | N Value | Combustible Vapour Reading (ppm) | S A M P L E S | % R E C O V | S A M P L E I D | A N A L Y S I S |
|------|-------------|--|---------|-----------|----------|----------------------------------|---------------|-------------|-----------------|-----------------|
| | | 20cm of TOPSOIL , moist, no odour, no staining. | / | 0 | 20 40 60 | 25 50 75 | G | 75 | GR1 | |
| | | Brown sand and gravel FILL , cinder blocks present at 1.0 to 1.25mbgs, moist, no odour, no staining. | - | 1 | ND | ND | G | 75 | GR2 | |
| | | Grey weathered shale bedrock encountered at 1.82 mbgs. End of Test pit at 1.82 mbgs. Note: 20cm pipe exposed during the advancement of test pit. | 1.82 | 2 | ND | ND | G | 75 | GR3 | |
| | | | | 3 | | | | | | |
| | | | | 4 | | | | | | |
| | | | | 5 | | | | | | |
| | | | | 6 | | | | | | |
| | | | | 7 | | | | | | |
| | | | | 8 | | | | | | |
| | | | | 9 | | | | | | |
| | | | | 10 | | | | | | |
| | | | | 11 | | | | | | |
| | | | | 12 | | | | | | |

ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP3

Project No. MRK-00243747-A0

Drawing No. 15

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

Powerhouse Area

Date Drilled: November 14, 2017

Chemical Analysis

* Duplicate Sample

Drill Type: Excavator

PCB Polychlorinated Biphenyls

Datum: Trimble TC3 Controller

PHC Petroleum Hydrocarbons (

| GW L | S Y M B O L | Soil Description | ELEV. m | D E P T H | N Value | Combustible Vapour Reading (ppm) | S A M P L E S | % R E C O V | S A M P L E I D | A N A L Y S I S |
|------|-------------|---|---------|-----------|----------|----------------------------------|---------------|-------------|-----------------|-----------------|
| | | Grey gravel FILL , moist no odour, no staining. | | 0 | 20 40 60 | 25 50 75 | | | | |
| | | CONCRETE slab encountered at 0.61 mbgs. Excavator bucket refusal at 0.61 mbgs. | | 1 | | ND | G | 75 | GR1 | |

ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP4

Project No. MRK-00243747-A0

Drawing No. 16

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

Powerhouse Area

Date Drilled: November 14, 2017

Chemical Analysis

Drill Type: Excavator

BTEX Benzene, Toluene, Ethylbenzene and Xylenes

* Duplicate Sample

Datum: Trimble TC3 Controller

ING Metals and Inorganics

PCB Polychlorinated Biphenyls

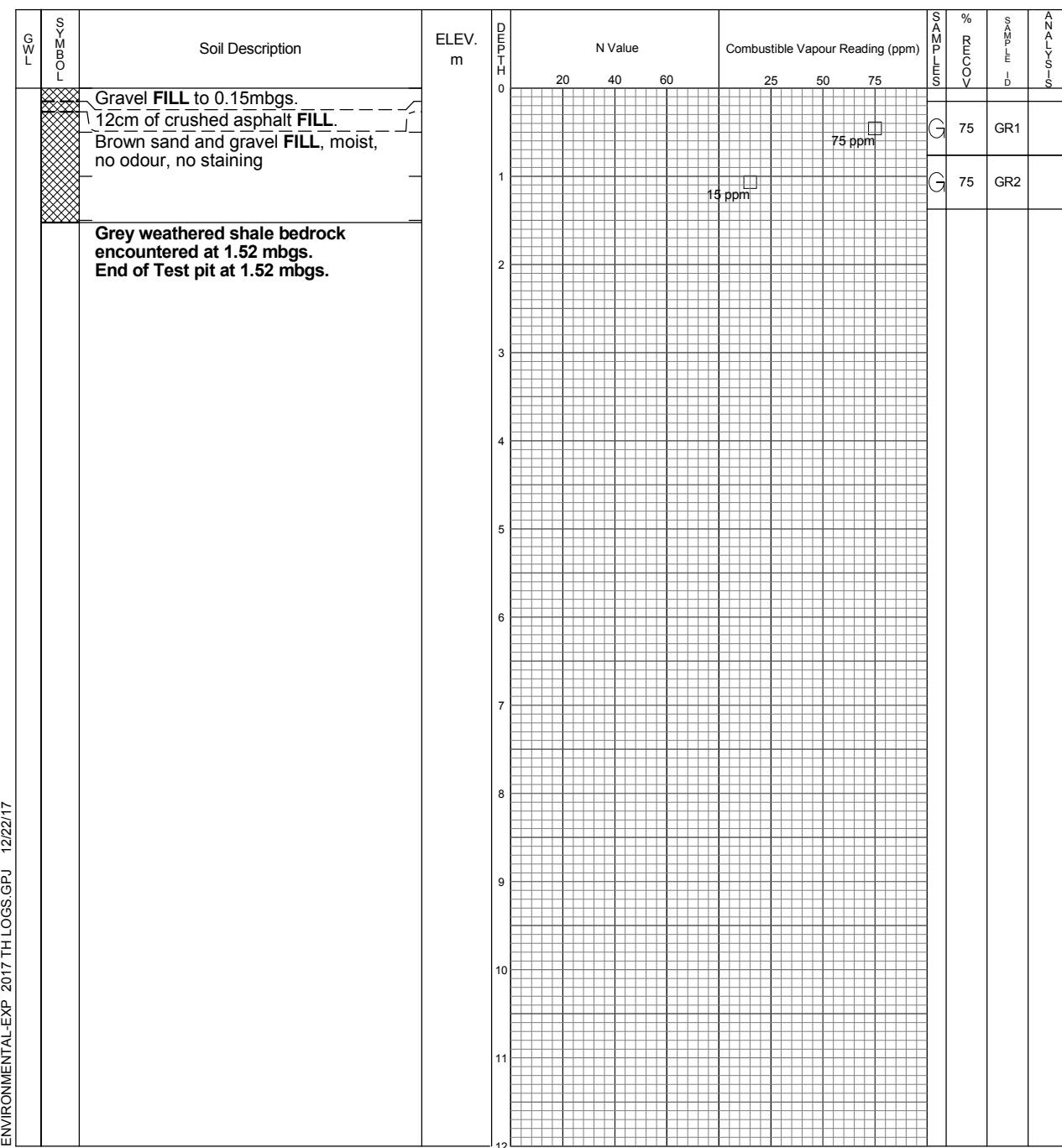
MET Metals

PHC Petroleum Hydrocarbons (F1-F4)

PAH Polycyclic Aromatic Hydrocarbons

VOC Volatile Organic Compounds

PEST Organochlorine Pesticides



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP5

Project No. MRK-00243747-A0

Drawing No. 17

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

Powerhouse Area

Date Drilled: November 14, 2017

Chemical Analysis

* Duplicate Sample

Drill Type: Excavator

PCB Polychlorinated Biphenyls

Datum: Trimble TC3 Controller

PHC Petroleum Hydrocarbons (

PAH Poly

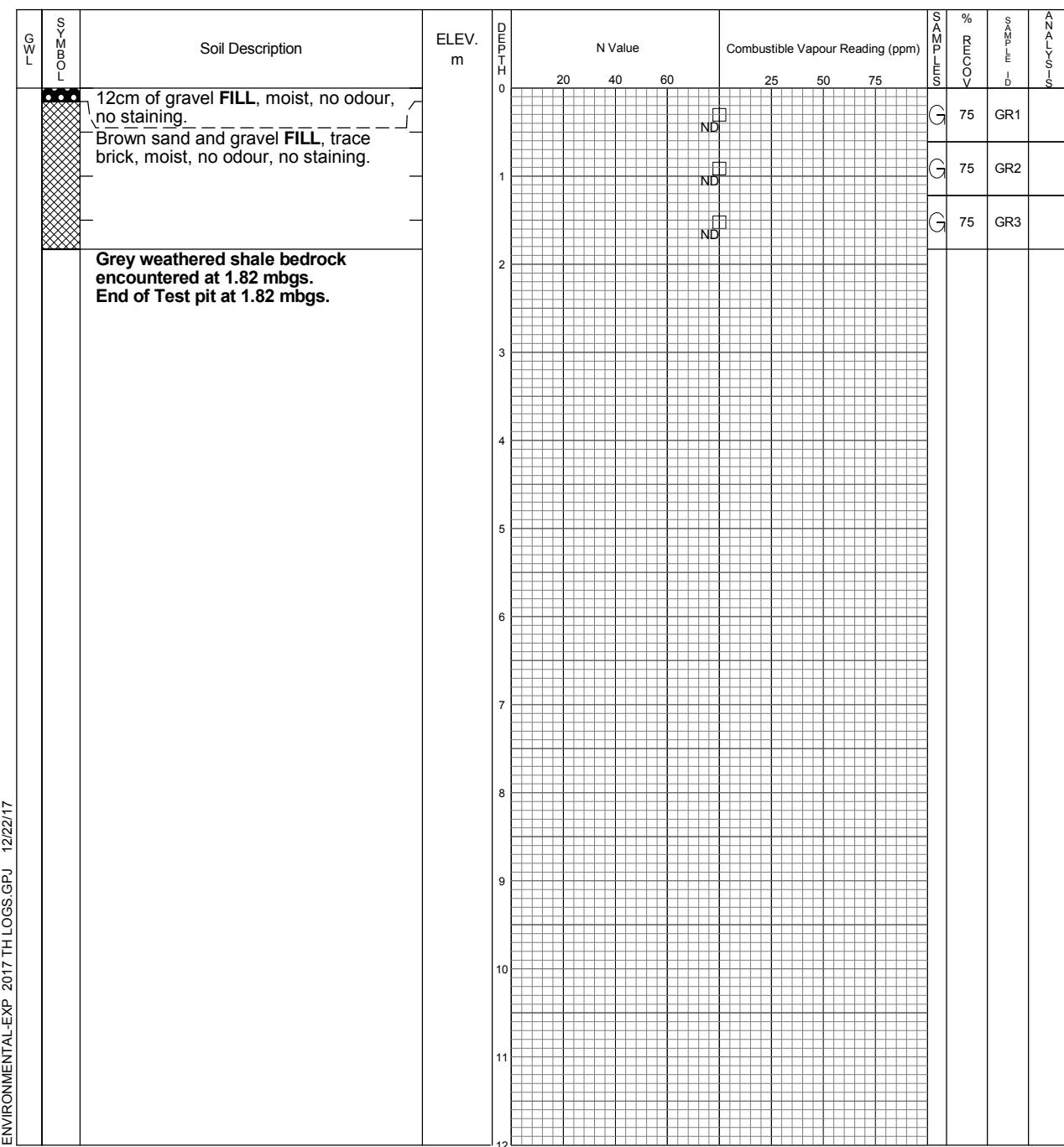
VOCs Volatile Organic Compounds

123 Organisational Costless

Digitized by srujanika@gmail.com

Table 1. Summary of the main characteristics of the four groups of patients.

S A % S A N



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP6

Project No. MRK-00243747-A0

Drawing No. 18

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

Powerhouse Area

Date Drilled: November 14, 2017

Chemical Analysis

* Duplicate Sample

Drill Type: Excavator

PCB Polychlorinated Biphenyls

Datum: Trimble TC3 Controller

PHC Petroleum Hydrocarbons (

| GW L | S Y M B O L | Soil Description | ELEV. m | D E P T H | N Value | Combustible Vapour Reading (ppm) | S A M P L E S | % R E C O V | S A M P L E I D | A N A L Y S I S |
|------|-------------|--|---------|-----------|----------|----------------------------------|---------------|-------------|-----------------|-----------------|
| | | 12cm of gravel FILL , moist, no odour, no staining. | | 0 | 20 40 60 | 25 50 75 | ND | 75 | GR1 | |
| | | Brown sand and gravel FILL , trace brick, moist, no odour, no staining. | | 1 | | | ND | 75 | GR2 | |
| | | Grey weathered shale bedrock encountered at 1.22 mbgs. End of Test pit at 1.22 mbgs. | | 2 | | | | | | |
| | | | | 3 | | | | | | |
| | | | | 4 | | | | | | |
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| | | | | 11 | | | | | | |
| | | | | 12 | | | | | | |

ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP7

Project No. MRK-00243747-A0

Drawing No. 19

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

Powerhouse Area

Date Drilled: November 14, 2017

Chemical Analysis

* Duplicate Sample

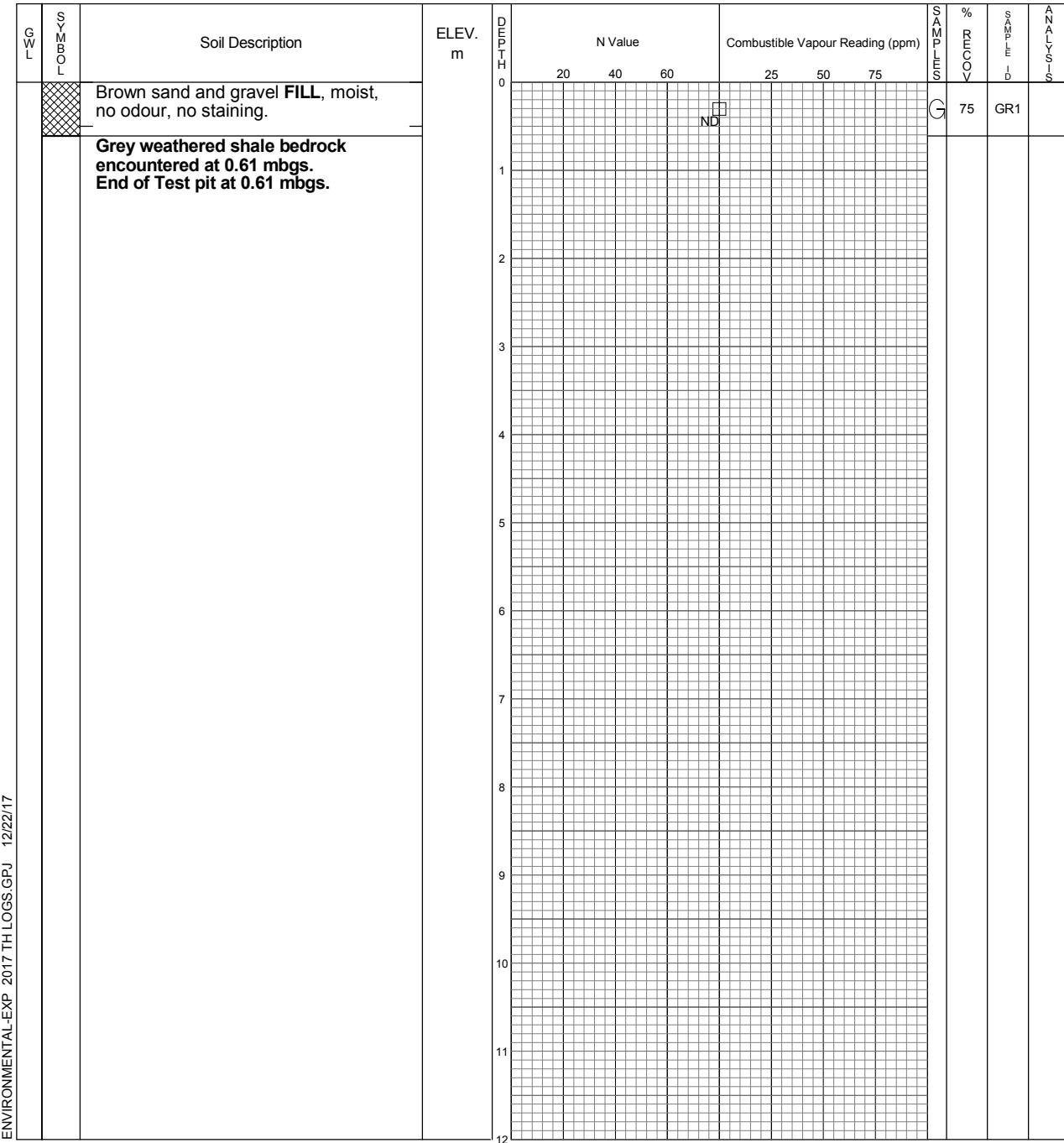
Drill Type: Excavator

PCB Polychlorinated Biphenyls

Datum: Trimble TC3 Controller

PHC Petroleum Hydrocarbons (

PEST Organochlorine Pesticides



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP8

Project No. MRK-00243747-A0

Drawing No. 20

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

South of Powerhouse

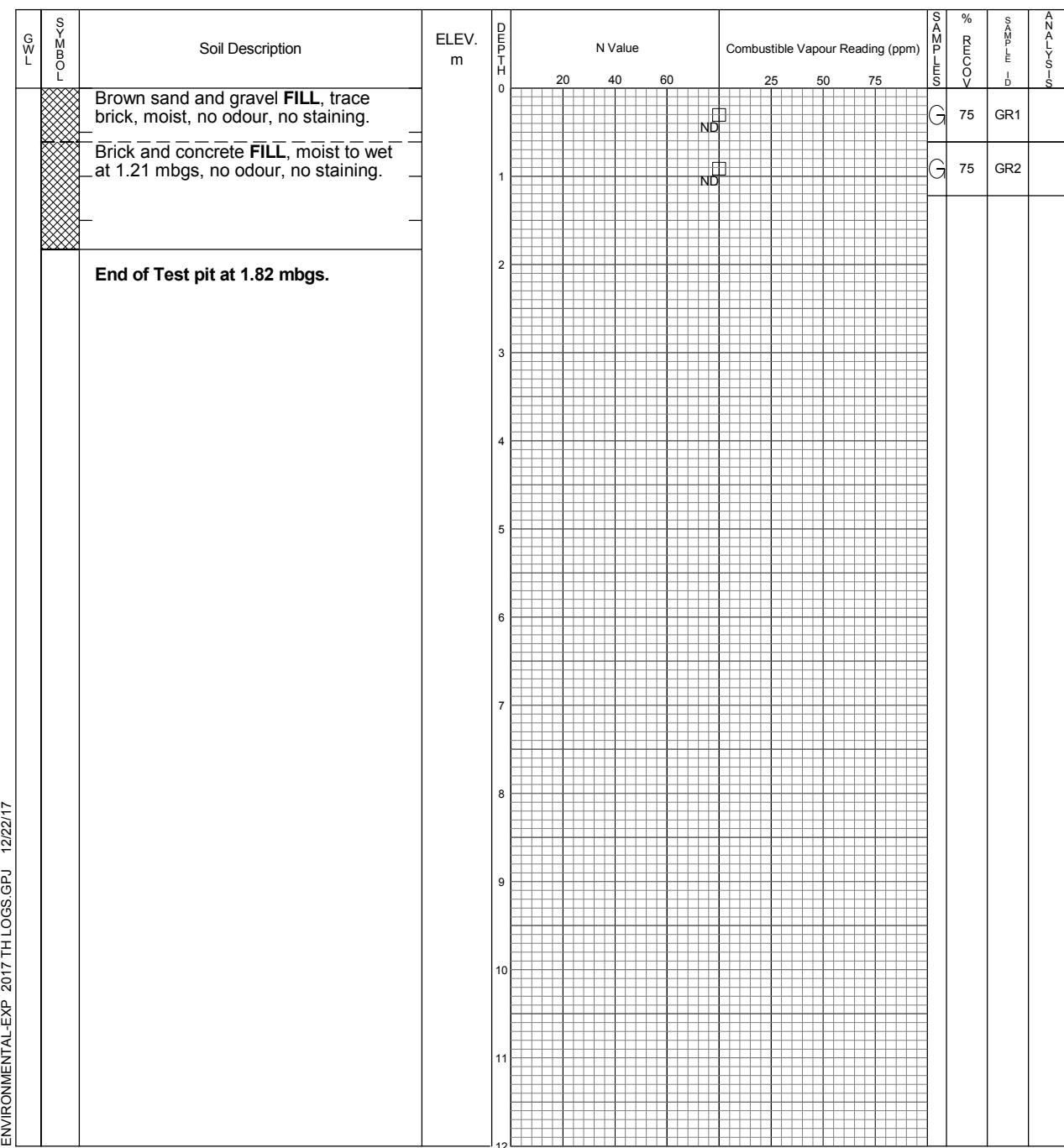
Date Drilled: November 14, 2017

Chemical Analysis

| | | | |
|------|--|-----|--------------------------------|
| BTEX | Benzene, Toluene, Ethylbenzene and Xylenes | * | Duplicate Sample |
| ING | Metals and Inorganics | PCB | Polychlorinated Biphenyls |
| MET | Metals | PHC | Petroleum Hydrocarbons (F1-F4) |
| PAH | Polycyclic Aromatic Hydrocarbons | VOC | Volatile Organic Compounds |
| PEST | Organochlorine Pesticides | | |

Drill Type: Excavator

Datum: Trimble TC3 Controller



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP9

Project No. MRK-00243747-A0

Drawing No. 21

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

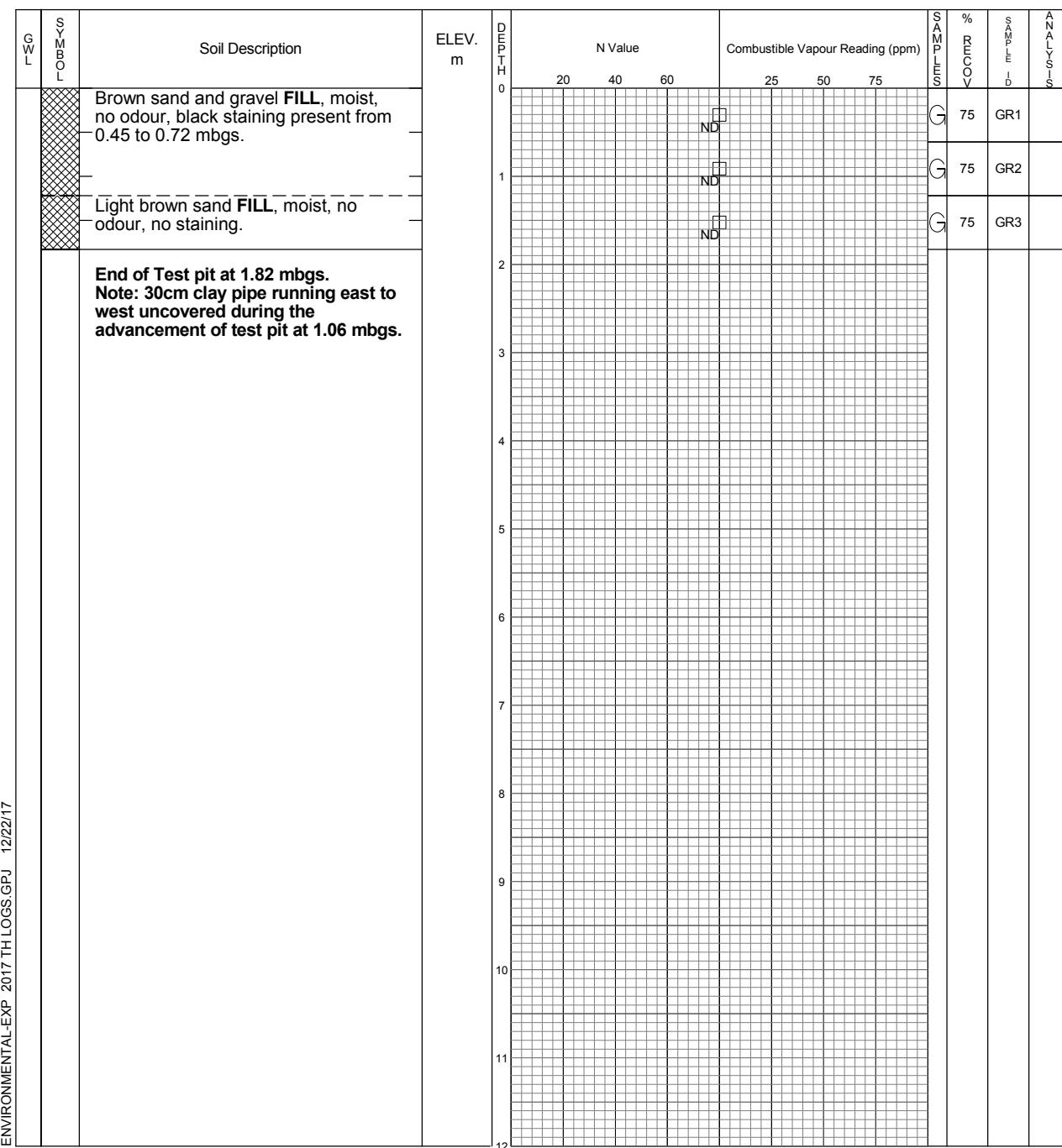
South of Powerhouse

Date Drilled: November 14, 2017

Drill Type: Excavator

Datum: Trimble TC3 Controller

| Chemical Analysis | | | |
|-------------------|--|-----|--------------------------------|
| BTEX | Benzene, Toluene, Ethylbenzene and Xylenes | * | Duplicate Sample |
| ING | Metals and Inorganics | PCB | Polychlorinated Biphenyls |
| MET | Metals | PHC | Petroleum Hydrocarbons (F1-F4) |
| PAH | Polycyclic Aromatic Hydrocarbons | VOC | Volatile Organic Compounds |
| PEST | Organochlorine Pesticides | | |



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP10

Project No. MRK-00243747-A0

Drawing No. 22

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

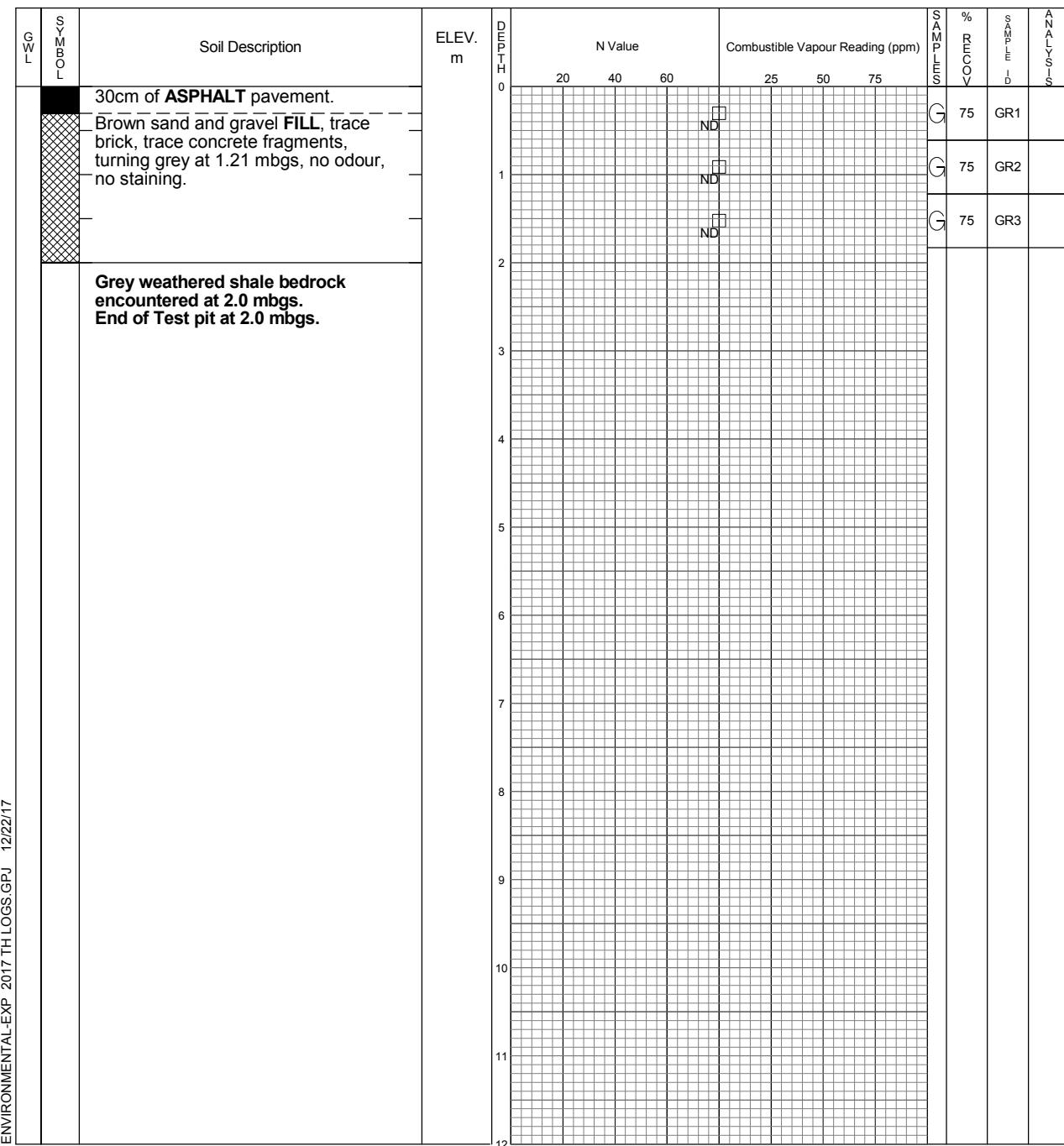
30m within Water Body

Date Drilled: November 14, 2017

Drill Type: Excavator

Datum: Trimble TC3 Controller

| Chemical Analysis | | | |
|-------------------|--|-----|--------------------------------|
| BTEX | Benzene, Toluene, Ethylbenzene and Xylenes | * | Duplicate Sample |
| ING | Metals and Inorganics | PCB | Polychlorinated Biphenyls |
| MET | Metals | PHC | Petroleum Hydrocarbons (F1-F4) |
| PAH | Polycyclic Aromatic Hydrocarbons | VOC | Volatile Organic Compounds |
| PEST | Organochlorine Pesticides | | |



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP11

Project No. MRK-00243747-A0

Drawing No. 22

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

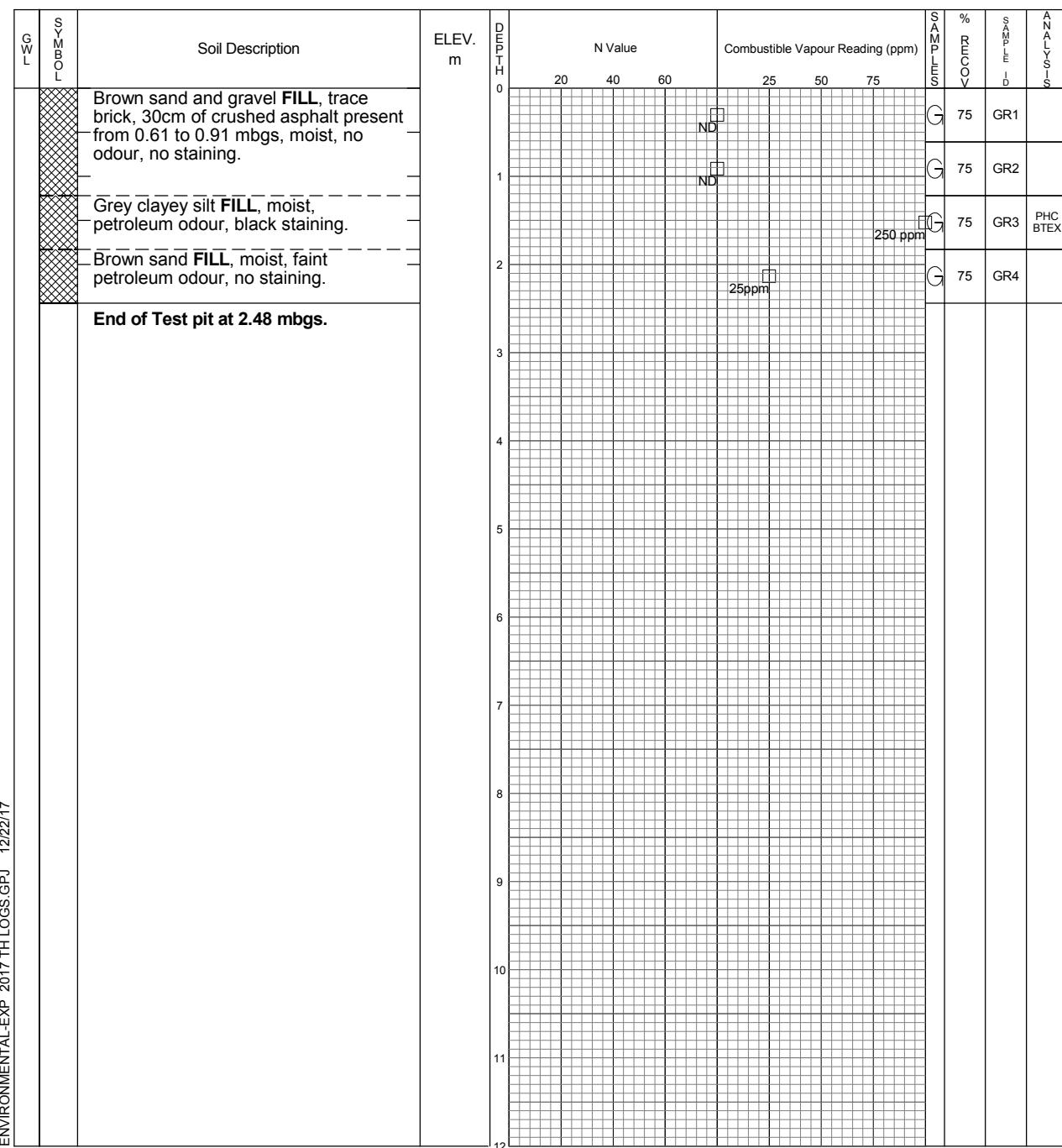
South of Powerhouse

Date Drilled: November 14, 2017

Drill Type: Excavator

Datum: Trimble TC3 Controller

| Chemical Analysis | | | |
|-------------------|--|-----|--------------------------------|
| BTEX | Benzene, Toluene, Ethylbenzene and Xylenes | * | Duplicate Sample |
| ING | Metals and Inorganics | PCB | Polychlorinated Biphenyls |
| MET | Metals | PHC | Petroleum Hydrocarbons (F1-F4) |
| PAH | Polycyclic Aromatic Hydrocarbons | VOC | Volatile Organic Compounds |
| PEST | Organochlorine Pesticides | | |



| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP12

Project No. MRK-00243747-A0

Drawing No. 24

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

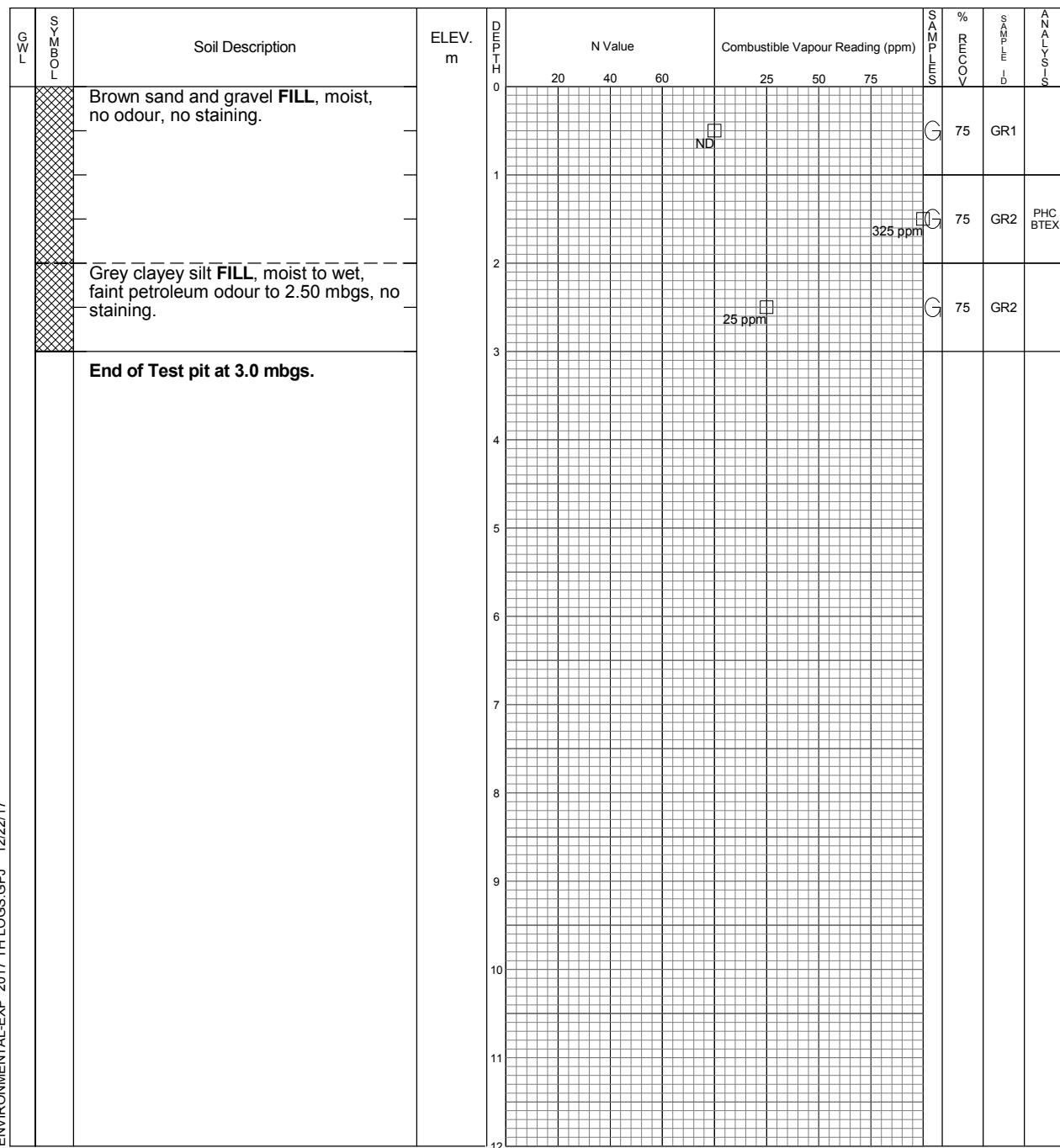
South of Powerhouse

Date Drilled: November 14, 2017

Drill Type: Excavator

Datum: Trimble TC3 Controller

| Chemical Analysis | | | |
|-------------------|--|-----|--------------------------------|
| BTEX | Benzene, Toluene, Ethylbenzene and Xylenes | * | Duplicate Sample |
| ING | Metals and Inorganics | PCB | Polychlorinated Biphenyls |
| MET | Metals | PHC | Petroleum Hydrocarbons (F1-F4) |
| PAH | Polycyclic Aromatic Hydrocarbons | VOC | Volatile Organic Compounds |
| PEST | Organochlorine Pesticides | | |



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP13

Project No. MRK-00243747-A0

Drawing No. 25

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

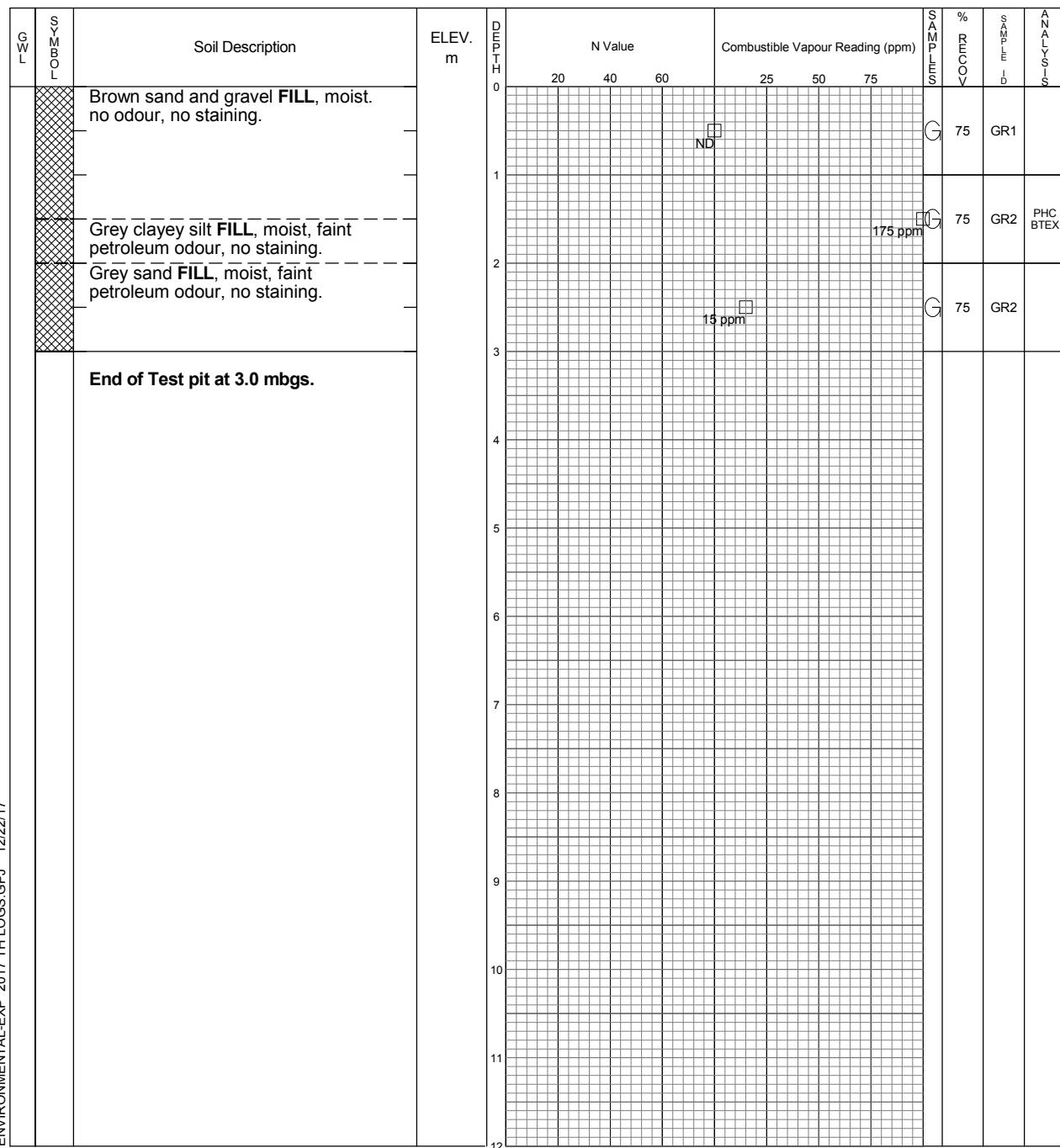
South of Powerhouse

Date Drilled: November 14, 2017

Drill Type: Excavator

Datum: Trimble TC3 Controller

| Chemical Analysis | | | |
|-------------------|--|-----|--------------------------------|
| BTEX | Benzene, Toluene, Ethylbenzene and Xylenes | * | Duplicate Sample |
| ING | Metals and Inorganics | PCB | Polychlorinated Biphenyls |
| MET | Metals | PHC | Petroleum Hydrocarbons (F1-F4) |
| PAH | Polycyclic Aromatic Hydrocarbons | VOC | Volatile Organic Compounds |
| PEST | Organochlorine Pesticides | | |



| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP14

Project No. MRK-00243747-A0

Drawing No. 26

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

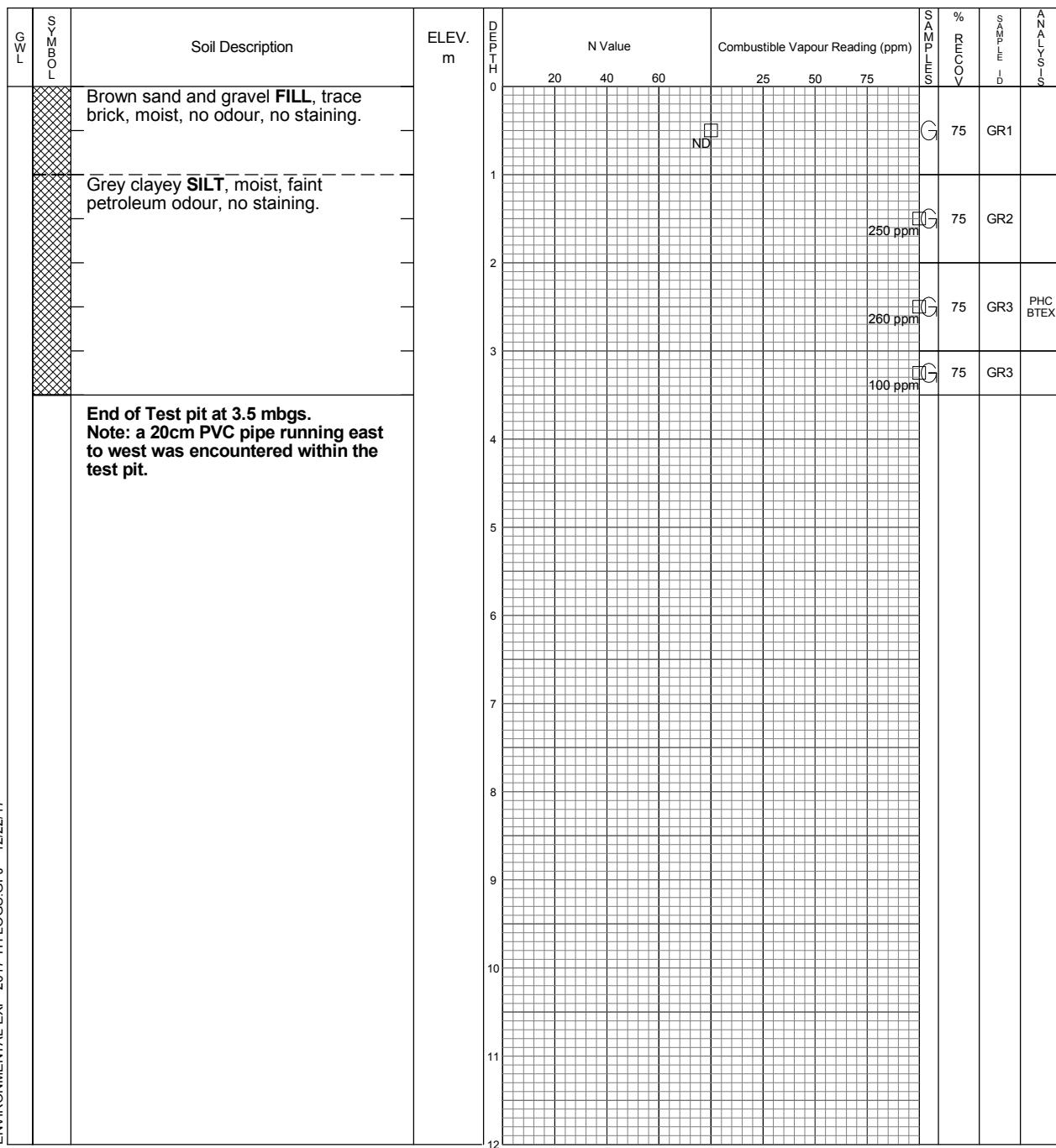
South of Powerhouse

Date Drilled: November 14, 2017

Drill Type: Excavator

Datum: Trimble TC3 Controller

| Chemical Analysis | | | |
|-------------------|--|-----|--------------------------------|
| BTEX | Benzene, Toluene, Ethylbenzene and Xylenes | * | Duplicate Sample |
| ING | Metals and Inorganics | PCB | Polychlorinated Biphenyls |
| MET | Metals | PHC | Petroleum Hydrocarbons (F1-F4) |
| PAH | Polycyclic Aromatic Hydrocarbons | VOC | Volatile Organic Compounds |
| PEST | Organochlorine Pesticides | | |



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |
| | | |

Log of Borehole TP15

Project No. MRK-00243747-A0

Drawing No. 28

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

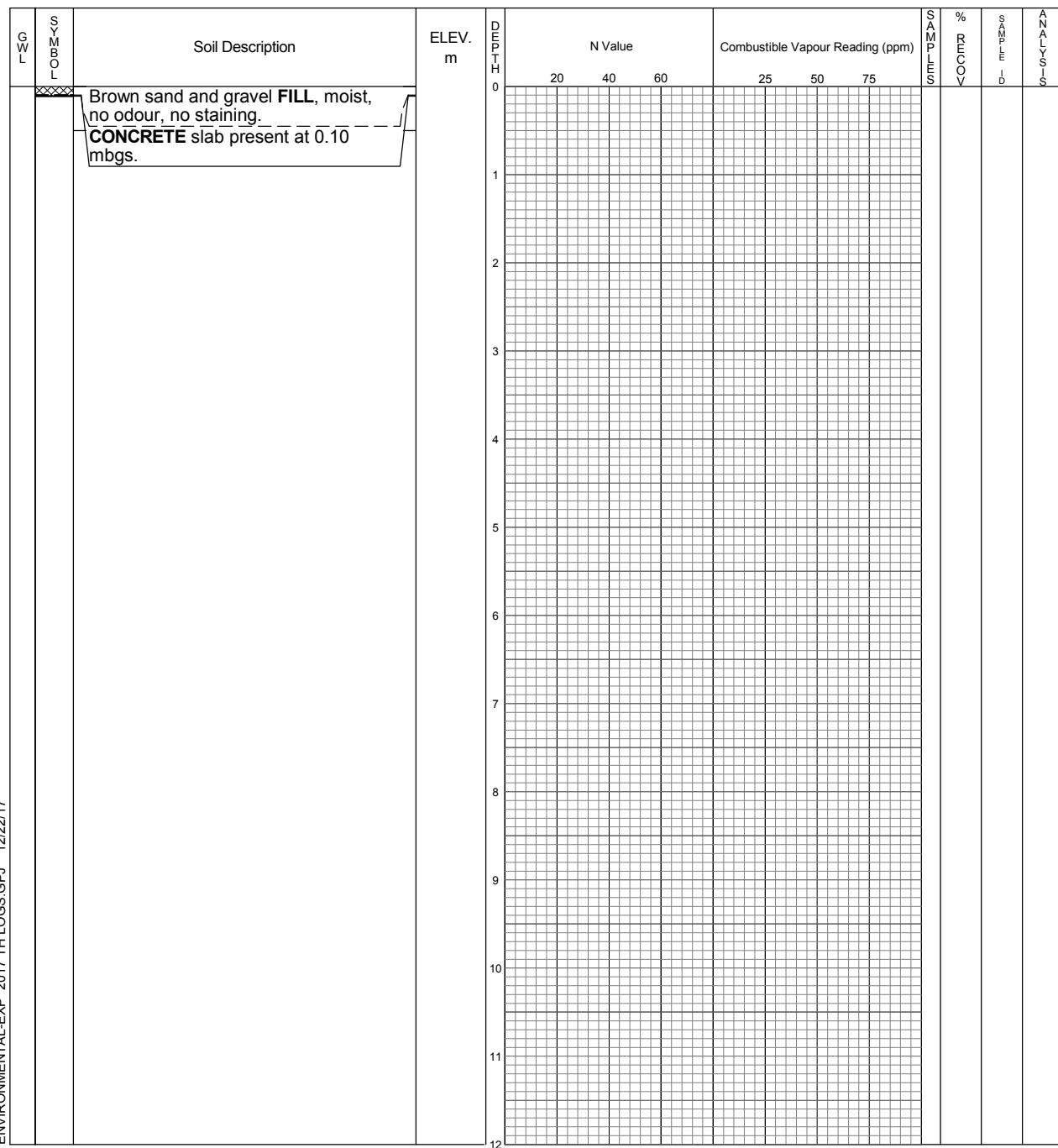
South of Powerhouse

Date Drilled: November 14, 2017

Drill Type: Excavator

Datum: Trimble TC3 Controller

| Chemical Analysis | | | |
|-------------------|--|-----|--------------------------------|
| BTEX | Benzene, Toluene, Ethylbenzene and Xylenes | * | Duplicate Sample |
| ING | Metals and Inorganics | PCB | Polychlorinated Biphenyls |
| MET | Metals | PHC | Petroleum Hydrocarbons (F1-F4) |
| PAH | Polycyclic Aromatic Hydrocarbons | VOC | Volatile Organic Compounds |
| PEST | Organochlorine Pesticides | | |



| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP16

Project No. MRK-00243747-A0

Drawing No. 27

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

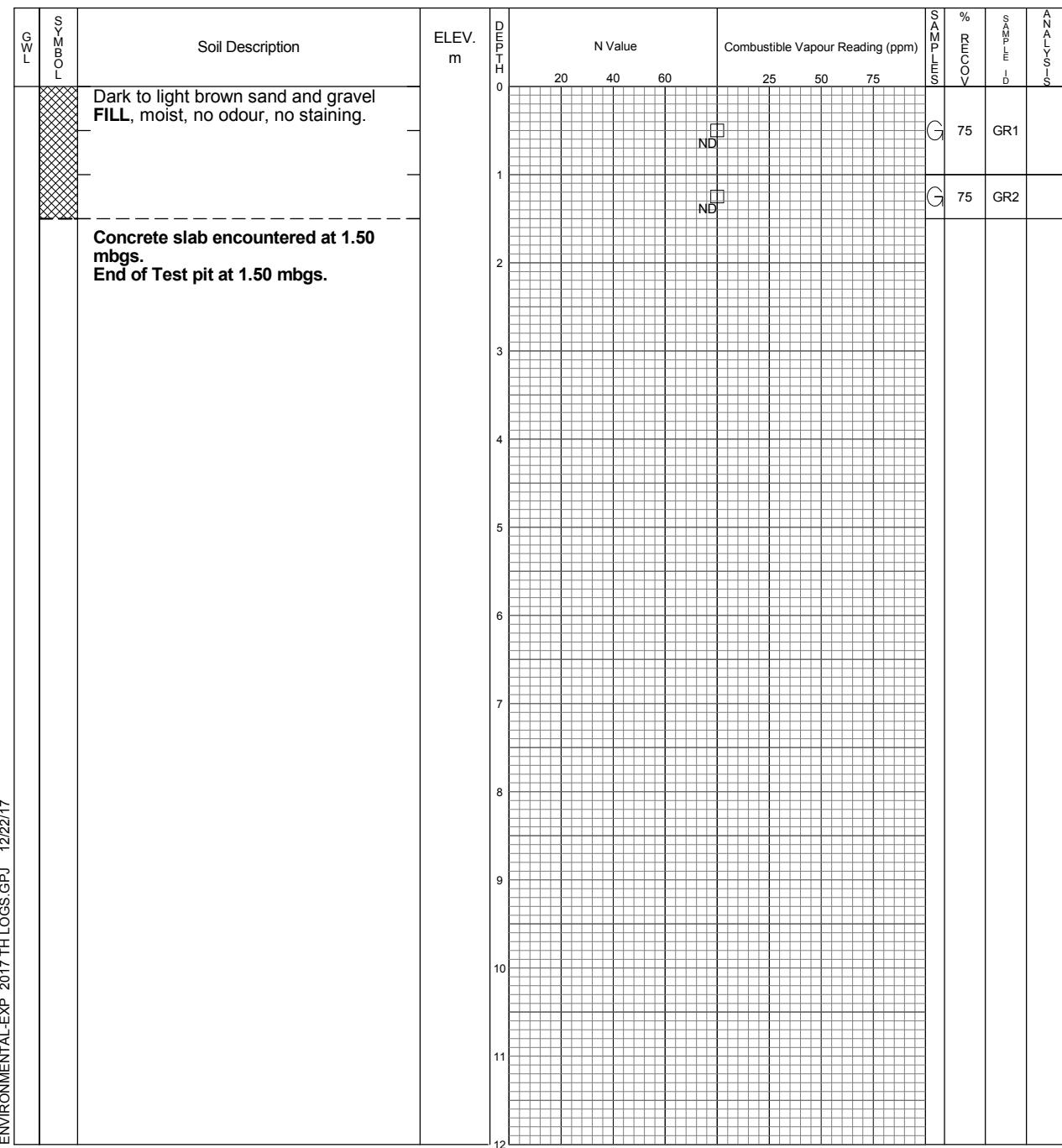
South of Powerhouse

Date Drilled: November 14, 2017

Drill Type: Excavator

Datum: Trimble TC3 Controller

| Chemical Analysis | | | |
|-------------------|--|-----|--------------------------------|
| BTEX | Benzene, Toluene, Ethylbenzene and Xylenes | * | Duplicate Sample |
| ING | Metals and Inorganics | PCB | Polychlorinated Biphenyls |
| MET | Metals | PHC | Petroleum Hydrocarbons (F1-F4) |
| PAH | Polycyclic Aromatic Hydrocarbons | VOC | Volatile Organic Compounds |
| PEST | Organochlorine Pesticides | | |



| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP17

Project No. MRK-00243747-A0

Drawing No. 29

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

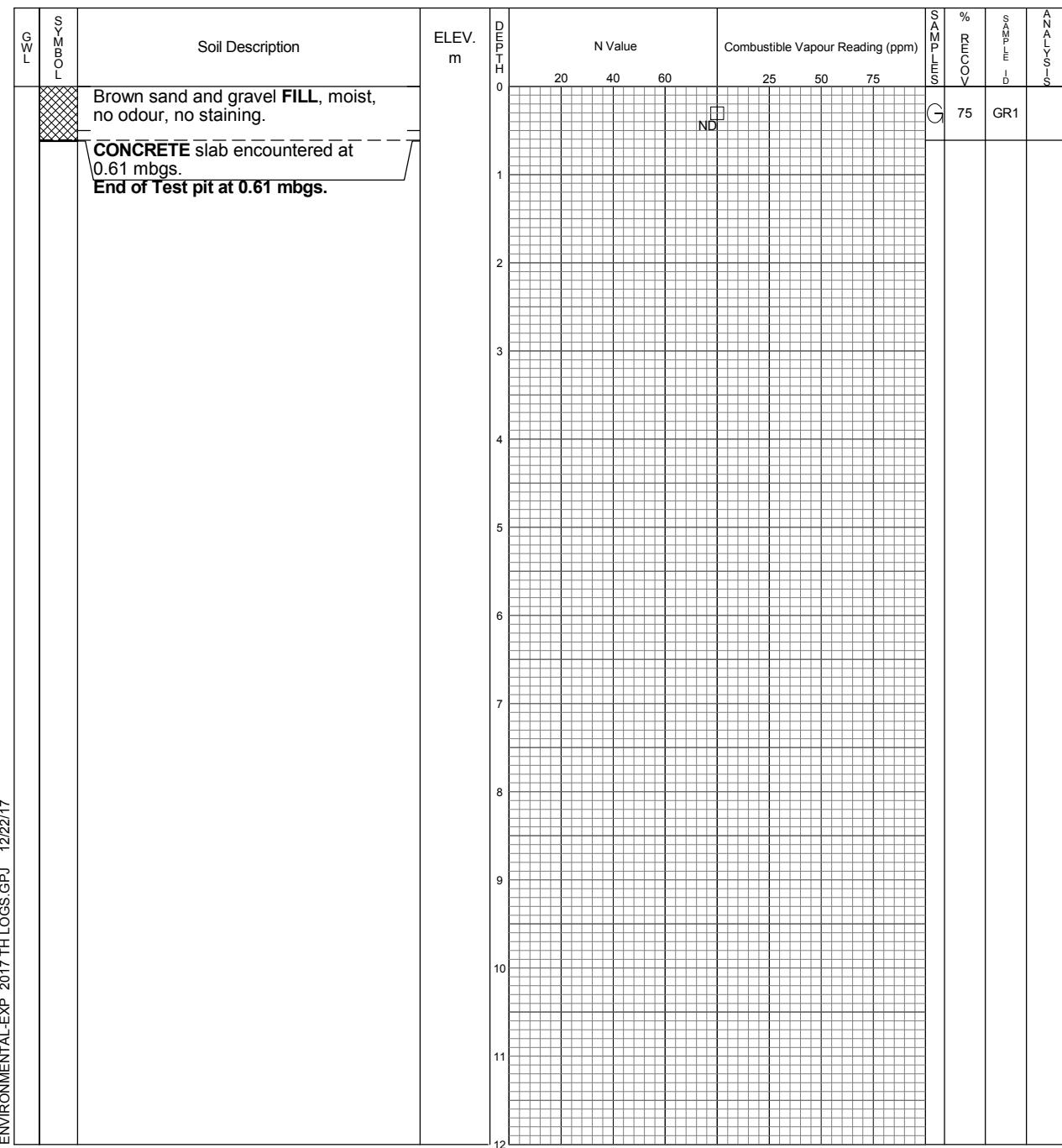
South of Powerhouse

Date Drilled: November 14, 2017

Drill Type: Excavator

Datum: Trimble TC3 Controller

| Chemical Analysis | | | |
|-------------------|--|-----|--------------------------------|
| BTEX | Benzene, Toluene, Ethylbenzene and Xylenes | * | Duplicate Sample |
| ING | Metals and Inorganics | PCB | Polychlorinated Biphenyls |
| MET | Metals | PHC | Petroleum Hydrocarbons (F1-F4) |
| PAH | Polycyclic Aromatic Hydrocarbons | VOC | Volatile Organic Compounds |
| PEST | Organochlorine Pesticides | | |



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Log of Borehole TP18

Project No. MRK-00243747-A0

Drawing No. 30

Project: Subsurface Assessment

Sheet No. 1 of 1

Location: 800 Hydro Road, Mississauga, Ontario

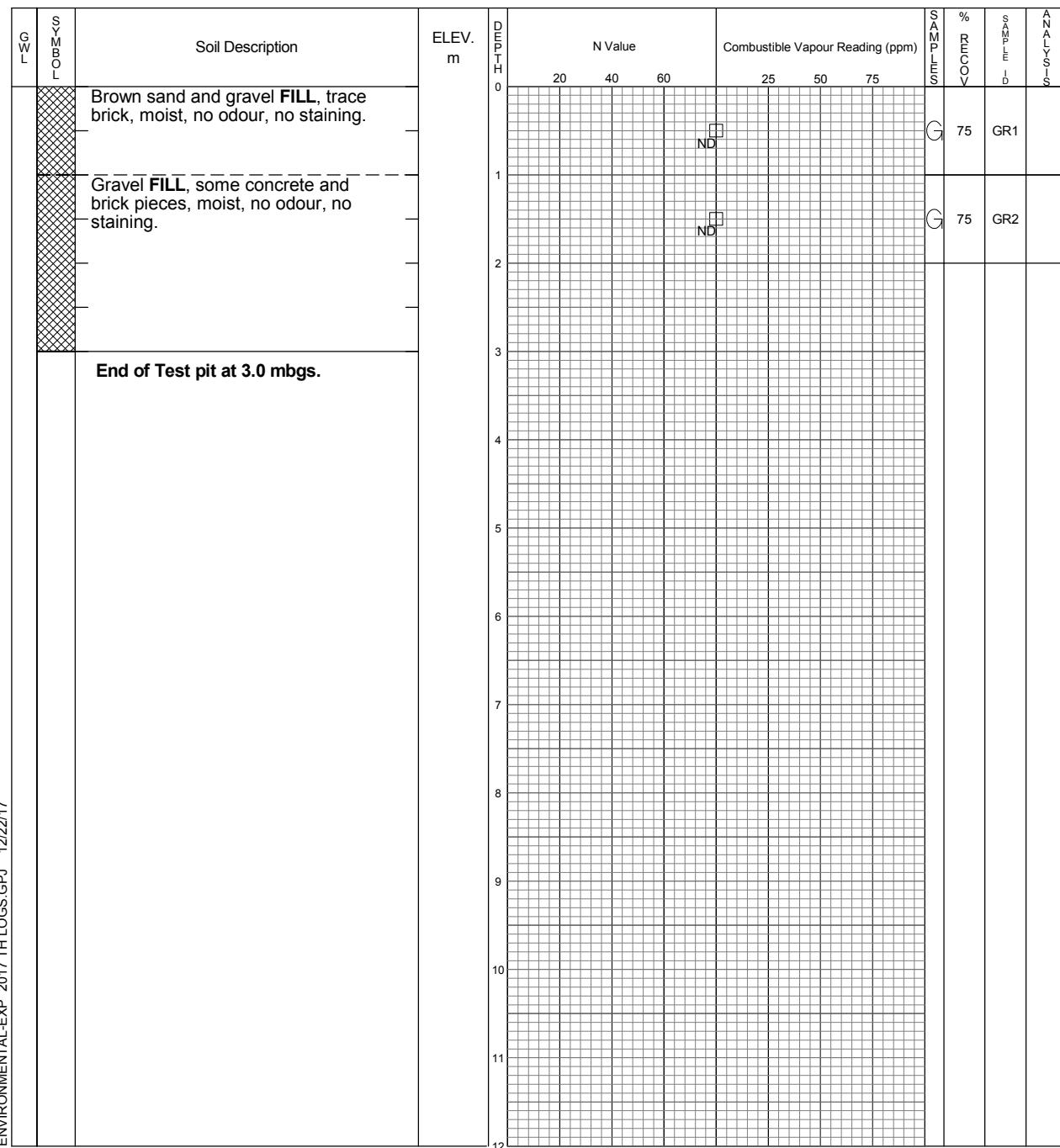
South of Powerhouse

Date Drilled: November 14, 2017

Drill Type: Excavator

Datum: Trimble TC3 Controller

| Chemical Analysis | | | |
|-------------------|--|-----|--------------------------------|
| BTEX | Benzene, Toluene, Ethylbenzene and Xylenes | * | Duplicate Sample |
| ING | Metals and Inorganics | PCB | Polychlorinated Biphenyls |
| MET | Metals | PHC | Petroleum Hydrocarbons (F1-F4) |
| PAH | Polycyclic Aromatic Hydrocarbons | VOC | Volatile Organic Compounds |
| PEST | Organochlorine Pesticides | | |



ENVIRONMENTAL-EXP 2017 TH LOGS.GPJ 12/22/17



exp Services Inc.
Markham, Ontario
Telephone: 905.695.3217

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

*Client: Lakeview Community Partners Limited
Project Name: Subsurface Environmental Assessment
800 Hydro Road, Mississauga, Ontario
Project Number: MRK-00243747-A0
Date: December 22, 2017, Reissued March 2, 2018*

Appendix D: Laboratory Certificates of Analysis



CLIENT NAME: EXP Services Inc
220 Commerce Valley Drive West, Suite 500
Markham, ON, ON L3T0A8
(905) 695-3217

ATTENTION TO: Travis Tan

PROJECT: MRK-00243747

AGAT WORK ORDER: 17T283430

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Coordinator

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Nov 20, 2017

PAGES (INCLUDING COVER): 12

VERSION*: 3

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

***NOTES**

VERSION 3:Version 3 supersedes version 2. Version 3: revision to sample identifications, issued December 08, 2017

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T283430

PROJECT: MRK-00243747

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

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - Metals (Including Hydrides) (Soil)

DATE RECEIVED: 2017-11-13

DATE REPORTED: 2017-11-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | TH102-SS1 | TH102-SS101 | TH108-SS1 |
|------------|------|---------------------|-----|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Soil | Soil | Soil |
| | | G / S | RDL | 2017-11-08 8903249 | 2017-11-08 8903254 | 2017-11-09 8903316 |
| Antimony | µg/g | 7.5 | 0.8 | <0.8 | <0.8 | <0.8 |
| Arsenic | µg/g | 18 | 1 | 6 | 5 | 12 |
| Boron | µg/g | 120 | 5 | 11 | 12 | 18 |
| Barium | µg/g | 390 | 2 | 80 | 85 | 80 |
| Beryllium | µg/g | 5 | 0.5 | 0.8 | 0.8 | 0.8 |
| Cadmium | µg/g | 1.2 | 0.5 | <0.5 | <0.5 | <0.5 |
| Chromium | µg/g | 160 | 2 | 27 | 29 | 44 |
| Cobalt | µg/g | 22 | 0.5 | 15.0 | 15.5 | 9.3 |
| Copper | µg/g | 180 | 1 | 35 | 31 | 36 |
| Lead | µg/g | 120 | 1 | 17 | 23 | 1020 |
| Molybdenum | µg/g | 6.9 | 0.5 | <0.5 | <0.5 | 2.2 |
| Nickel | µg/g | 130 | 1 | 32 | 32 | 22 |
| Selenium | µg/g | 2.4 | 0.4 | 0.4 | <0.4 | 2.0 |
| Silver | µg/g | 25 | 0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | µg/g | 1 | 0.4 | <0.4 | <0.4 | <0.4 |
| Uranium | µg/g | 23 | 0.5 | 0.6 | 0.6 | 0.6 |
| Vanadium | µg/g | 86 | 1 | 30 | 31 | 27 |
| Zinc | µg/g | 340 | 5 | 72 | 71 | 215 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T283430

PROJECT: MRK-00243747

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

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2017-11-13

DATE REPORTED: 2017-11-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | TH102-SS2 | TH102-SS6 | TH108-SS1 |
|----------------------------|------|---------------------|------|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Soil | Soil | Soil |
| | | G / S | RDL | 2017-11-08 8903255 | 2017-11-08 8903257 | 2017-11-09 8903316 |
| Naphthalene | µg/g | 0.75 | 0.05 | <0.05 | <0.05 | <0.05 |
| Acenaphthylene | µg/g | 0.17 | 0.05 | <0.05 | <0.05 | <0.05 |
| Acenaphthene | µg/g | 58 | 0.05 | <0.05 | <0.05 | <0.05 |
| Fluorene | µg/g | 69 | 0.05 | <0.05 | <0.05 | <0.05 |
| Phenanthrene | µg/g | 7.8 | 0.05 | <0.05 | <0.05 | <0.05 |
| Anthracene | µg/g | 0.74 | 0.05 | <0.05 | <0.05 | <0.05 |
| Fluoranthene | µg/g | 0.69 | 0.05 | <0.05 | <0.05 | <0.05 |
| Pyrene | µg/g | 78 | 0.05 | <0.05 | <0.05 | <0.05 |
| Benz(a)anthracene | µg/g | 0.63 | 0.05 | <0.05 | <0.05 | <0.05 |
| Chrysene | µg/g | 7.8 | 0.05 | <0.05 | <0.05 | <0.05 |
| Benzo(b)fluoranthene | µg/g | 0.78 | 0.05 | <0.05 | <0.05 | <0.05 |
| Benzo(k)fluoranthene | µg/g | 0.78 | 0.05 | <0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene | µg/g | 0.3 | 0.05 | <0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-cd)pyrene | µg/g | 0.48 | 0.05 | <0.05 | <0.05 | <0.05 |
| Dibenz(a,h)anthracene | µg/g | 0.1 | 0.05 | <0.05 | <0.05 | <0.05 |
| Benzo(g,h,i)perylene | µg/g | 7.8 | 0.05 | <0.05 | <0.05 | <0.05 |
| 2-and 1-methyl Naphthalene | µg/g | 3.4 | 0.05 | <0.05 | <0.05 | 0.08 |
| Moisture Content | % | | 0.1 | 18.7 | 8.7 | 10.7 |
| Surrogate | Unit | Acceptable Limits | | | | |
| Chrysene-d12 | % | 50-140 | 94 | 96 | 55 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8903255-8903316 Results are based on the dry weight of the soil.

Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T283430

PROJECT: MRK-00243747

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

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - PCBs (Soil)

DATE RECEIVED: 2017-11-13

DATE REPORTED: 2017-11-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | TH104-SS1 | TH104-SS101 | TH105-SS1 |
|---------------------------|-------------|--------------------------|-----|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Soil | Soil | Soil |
| | | G / S | RDL | 2017-11-09 8903293 | 2017-11-09 8903296 | 2017-11-10 8903308 |
| Aroclor 1242 | µg/g | | 0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1248 | µg/g | | 0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1254 | µg/g | | 0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1260 | µg/g | | 0.1 | <0.1 | <0.1 | <0.1 |
| Polychlorinated Biphenyls | µg/g | 0.35 | 0.1 | <0.1 | <0.1 | <0.1 |
| Moisture Content | % | | 0.1 | 6.1 | 5.3 | 13.0 |
| Surrogate | Unit | Acceptable Limits | | | | |
| Decachlorobiphenyl | % | 60-140 | | 92 | 92 | 92 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8903293-8903308 Results are based on the dry weight of soil extracted.

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T283430

PROJECT: MRK-00243747

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

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

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

DATE RECEIVED: 2017-11-13

DATE REPORTED: 2017-11-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | TH103-SS9 | TH104-SS6 | TH105-SS5 | TH106-SS5 | TH108-SS2 | TH111-SS2 |
|--------------------------------|-------------|--------------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Soil | Soil | Soil | Soil | Soil | Soil |
| | | G / S | RDL | 2017-11-06 8903278 | 2017-11-09 8903297 | 2017-11-10 8903312 | 2017-11-06 8903313 | 2017-11-09 8903375 | 2017-11-06 8903380 |
| Benzene | µg/g | 0.17 | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Toluene | µg/g | 6 | 0.08 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 |
| Ethylbenzene | µg/g | 15 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Xylene Mixture | µg/g | 25 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| F1 (C6 to C10) | µg/g | 65 | 5 | <5 | <5 | <5 | <5 | <5 | 7 |
| F1 (C6 to C10) minus BTEX | µg/g | 65 | 5 | <5 | <5 | <5 | <5 | <5 | 7 |
| F2 (C10 to C16) | µg/g | 150 | 10 | <10 | <10 | <10 | <10 | <10 | 350 |
| F3 (C16 to C34) | µg/g | 1300 | 50 | 57 | <50 | <50 | <50 | <50 | 330 |
| F4 (C34 to C50) | µg/g | 5600 | 50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Gravimetric Heavy Hydrocarbons | µg/g | 5600 | 50 | NA | NA | NA | NA | NA | NA |
| Moisture Content | % | | 0.1 | 17.6 | 12.1 | 10.6 | 16.7 | 12.2 | 13.0 |
| Surrogate | Unit | Acceptable Limits | | | | | | | |
| Terphenyl | % | 60-140 | | 84 | 72 | 63 | 68 | 63 | 72 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8903278-8903380 Results are based on sample dry weight.

The C6-C10 fraction is calculated using Toluene response factor.

The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

The chromatogram has returned to baseline by the retention time of nC50.

Total C6 - C50 results are corrected for BTEX contributions.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

Extraction and holding times were met for this sample.

Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Quality Control Data is available upon request.

Certified By:

**AGAT**Labs
Laboratories

Guideline Violation

AGAT WORK ORDER: 17T283430

PROJECT: MRK-00243747

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

CLIENT NAME: EXP Services Inc

ATTENTION TO: Travis Tan

| SAMPLEID | SAMPLE TITLE | GUIDELINE | ANALYSIS PACKAGE | PARAMETER | UNIT | GUIDEVALUE | RESULT |
|----------|--------------|-----------------|---|-----------------|------|------------|--------|
| 8903316 | TH108-SS1 | ON T3 S RPI MFT | O. Reg. 153(511) - Metals (Including Hydrides) (Soil) | Lead | µg/g | 120 | 1020 |
| 8903380 | TH111-SS2 | ON T3 S RPI MFT | O. Reg. 153(511) - PHCs F1 - F4 (Soil) | F2 (C10 to C16) | µg/g | 150 | 350 |



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<http://www.agatlabs.com>

Quality Assurance

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T283430

PROJECT: MRK-00243747

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

| RPT Date: Nov 20, 2017 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|--------------------|----------|-------------------|--------------|----------|-------------------|-------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | | Lower | | Recovery | Lower | Upper |

O. Reg. 153(511) - Metals (Including Hydrides) (Soil)

| | | | | | | | | | | | | | | |
|------------|---------|------|------|-------|-------|------|-----|------|------|-----|------|------|-----|------|
| Antimony | 8903931 | <0.8 | <0.8 | NA | < 0.8 | 86% | 70% | 130% | 117% | 80% | 120% | 108% | 70% | 130% |
| Arsenic | 8903931 | 1 | 1 | NA | < 1 | 96% | 70% | 130% | 104% | 80% | 120% | 109% | 70% | 130% |
| Boron | 8903931 | <5 | <5 | NA | < 5 | 100% | 70% | 130% | 104% | 80% | 120% | 92% | 70% | 130% |
| Barium | 8903931 | 10 | 11 | 9.5% | < 2 | 99% | 70% | 130% | 97% | 80% | 120% | 95% | 70% | 130% |
| Beryllium | 8903931 | <0.5 | <0.5 | NA | < 0.5 | 86% | 70% | 130% | 97% | 80% | 120% | 82% | 70% | 130% |
| Cadmium | 8903931 | <0.5 | <0.5 | NA | < 0.5 | 102% | 70% | 130% | 96% | 80% | 120% | 98% | 70% | 130% |
| Chromium | 8903931 | 4 | 4 | NA | < 2 | 91% | 70% | 130% | 105% | 80% | 120% | 110% | 70% | 130% |
| Cobalt | 8903931 | 1.5 | 1.7 | NA | < 0.5 | 96% | 70% | 130% | 101% | 80% | 120% | 99% | 70% | 130% |
| Copper | 8903931 | 5 | 6 | 18.2% | < 1 | 95% | 70% | 130% | 109% | 80% | 120% | 101% | 70% | 130% |
| Lead | 8903931 | 4 | 5 | NA | < 1 | 100% | 70% | 130% | 102% | 80% | 120% | 102% | 70% | 130% |
| Molybdenum | 8903931 | <0.5 | <0.5 | NA | < 0.5 | 99% | 70% | 130% | 104% | 80% | 120% | 105% | 70% | 130% |
| Nickel | 8903931 | 1 | 1 | NA | < 1 | 96% | 70% | 130% | 100% | 80% | 120% | 96% | 70% | 130% |
| Selenium | 8903931 | <0.4 | <0.4 | NA | < 0.4 | 94% | 70% | 130% | 100% | 80% | 120% | 101% | 70% | 130% |
| Silver | 8903931 | <0.2 | <0.2 | NA | < 0.2 | 84% | 70% | 130% | 96% | 80% | 120% | 93% | 70% | 130% |
| Thallium | 8903931 | <0.4 | <0.4 | NA | < 0.4 | 91% | 70% | 130% | 95% | 80% | 120% | 95% | 70% | 130% |
| Uranium | 8903931 | <0.5 | <0.5 | NA | < 0.5 | 89% | 70% | 130% | 90% | 80% | 120% | 89% | 70% | 130% |
| Vanadium | 8903931 | 5 | 6 | 18.2% | < 1 | 87% | 70% | 130% | 100% | 80% | 120% | 98% | 70% | 130% |
| Zinc | 8903931 | 25 | 27 | 7.7% | < 5 | 93% | 70% | 130% | 100% | 80% | 120% | 93% | 70% | 130% |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: 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.

Certified By:



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<http://www.agatlabs.com>

Quality Assurance

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T283430

PROJECT: MRK-00243747

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

| RPT Date: Nov 20, 2017 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|--------------------|----------|-------------------|--------------|----------|-------------------|--|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | | Lower | | Upper | | |

O. Reg. 153(511) - PAHs (Soil)

| | | | | | | | | | | | | | | |
|----------------------------|---------|--------|--------|----|--------|------|-----|------|------|-----|------|------|-----|------|
| Naphthalene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 91% | 50% | 140% | 83% | 50% | 140% | 71% | 50% | 140% |
| Acenaphthylene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 101% | 50% | 140% | 86% | 50% | 140% | 62% | 50% | 140% |
| Acenaphthene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 101% | 50% | 140% | 85% | 50% | 140% | 63% | 50% | 140% |
| Fluorene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 106% | 50% | 140% | 90% | 50% | 140% | 67% | 50% | 140% |
| Phenanthrene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 101% | 50% | 140% | 89% | 50% | 140% | 69% | 50% | 140% |
| Anthracene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 102% | 50% | 140% | 93% | 50% | 140% | 76% | 50% | 140% |
| Fluoranthene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 110% | 50% | 140% | 74% | 50% | 140% | 77% | 50% | 140% |
| Pyrene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 118% | 50% | 140% | 79% | 50% | 140% | 82% | 50% | 140% |
| Benz(a)anthracene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 95% | 50% | 140% | 63% | 50% | 140% | 75% | 50% | 140% |
| Chrysene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 100% | 50% | 140% | 68% | 50% | 140% | 78% | 50% | 140% |
| Benzo(b)fluoranthene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 115% | 50% | 140% | 107% | 50% | 140% | 96% | 50% | 140% |
| Benzo(k)fluoranthene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 117% | 50% | 140% | 100% | 50% | 140% |
| Benzo(a)pyrene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 119% | 50% | 140% | 106% | 50% | 140% | 89% | 50% | 140% |
| Indeno(1,2,3-cd)pyrene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 85% | 50% | 140% | 74% | 50% | 140% | 67% | 50% | 140% |
| Dibenz(a,h)anthracene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 92% | 50% | 140% | 84% | 50% | 140% | 66% | 50% | 140% |
| Benzo(g,h,i)perylene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 78% | 50% | 140% | 71% | 50% | 140% | 66% | 50% | 140% |
| 2-and 1-methyl Naphthalene | 8906362 | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 91% | 50% | 140% | 65% | 50% | 140% |

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

| | | | | | | | | | | | | | | |
|-----------------|---------|--------|--------|------|--------|------|-----|------|------|-----|------|-----|-----|------|
| Benzene | 8903918 | < 0.02 | < 0.02 | 0.0% | < 0.02 | 77% | 60% | 130% | 75% | 60% | 130% | 73% | 60% | 130% |
| Toluene | 8903918 | < 0.08 | < 0.08 | 0.0% | < 0.08 | 76% | 60% | 130% | 84% | 60% | 130% | 78% | 60% | 130% |
| Ethylbenzene | 8903918 | < 0.05 | < 0.05 | 0.0% | < 0.05 | 74% | 60% | 130% | 90% | 60% | 130% | 83% | 60% | 130% |
| Xylene Mixture | 8903918 | < 0.05 | < 0.05 | 0.0% | < 0.05 | 77% | 60% | 130% | 88% | 60% | 130% | 85% | 60% | 130% |
| F1 (C6 to C10) | 8903918 | < 5 | < 5 | 0.0% | < 5 | 80% | 60% | 130% | 93% | 85% | 115% | 79% | 70% | 130% |
| F2 (C10 to C16) | 8894295 | < 10 | < 10 | NA | < 10 | 96% | 60% | 130% | 106% | 80% | 120% | 86% | 70% | 130% |
| F3 (C16 to C34) | 8894295 | < 50 | < 50 | NA | < 50 | 104% | 60% | 130% | 80% | 80% | 120% | 70% | 70% | 130% |
| F4 (C34 to C50) | 8894295 | < 50 | < 50 | NA | < 50 | 94% | 60% | 130% | 80% | 80% | 120% | 71% | 70% | 130% |

O. Reg. 153(511) - PCBs (Soil)

| | | | | | | | | | | | | | | |
|---------------------------|---------|-------|-------|----|-------|------|-----|------|------|-----|------|------|-----|------|
| Aroclor 1242 | 8903293 | < 0.1 | < 0.1 | NA | < 0.1 | NA | 60% | 140% | NA | 60% | 140% | NA | 60% | 140% |
| Aroclor 1248 | 8903293 | < 0.1 | < 0.1 | NA | < 0.1 | NA | 60% | 140% | NA | 60% | 140% | NA | 60% | 140% |
| Aroclor 1254 | 8903293 | < 0.1 | < 0.1 | NA | < 0.1 | NA | 60% | 140% | NA | 60% | 140% | NA | 60% | 140% |
| Aroclor 1260 | 8903293 | < 0.1 | < 0.1 | NA | < 0.1 | NA | 60% | 140% | NA | 60% | 140% | NA | 60% | 140% |
| Polychlorinated Biphenyls | 8903293 | < 0.1 | < 0.1 | NA | < 0.1 | 110% | 60% | 140% | 102% | 60% | 140% | 100% | 60% | 140% |

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

Certified By:



AGAT

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FAX (905)712-5122
<http://www.agatlabs.com>

Method Summary

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T283430

PROJECT: MRK-00243747

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|----------------------|-------------|--------------------------|----------------------|
| Soil Analysis | | | |
| Antimony | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Arsenic | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Barium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Cadmium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Selenium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Silver | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |



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Method Summary

CLIENT NAME: EXP Services Inc

PROJECT: MRK-00243747

SAMPLING SITE:

AGAT WORK ORDER: 17T283430

ATTENTION TO: Travis Tan

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|--------------------------------|-------------|------------------------------------|----------------------|
| Trace Organics Analysis | | | |
| Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Acenaphthylene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Acenaphthene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Fluorene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Phenanthrene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Anthracene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Pyrene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Benz(a)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Chrysene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Benzo(a)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Moisture Content | ORG-91-5106 | EPA SW-846 3541 & 8270 | BALANCE |
| Chrysene-d12 | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Aroclor 1242 | ORG-91-5113 | EPA SW-846 3541 & 8082 | GC/ECD |
| Aroclor 1248 | ORG-91-5113 | EPA SW-846 3541 & 8082 | GC/ECD |
| Aroclor 1254 | ORG-91-5113 | EPA SW-846 3541 & 8082 | GC/ECD |
| Aroclor 1260 | ORG-91-5113 | EPA SW-846 3541 & 8082 | GC/ECD |
| Polychlorinated Biphenyls | ORG-91-5113 | EPA SW-846 3541 & 8082 | GC/ECD |
| Decachlorobiphenyl | ORG-91-5113 | EPA SW-846 3541 & 8082 | GC/ECD |
| Moisture Content | | MOE E3139 | BALANCE |
| Benzene | VOL-91-5009 | EPA SW-846 5035 & 8260 | P & T GC/MS |
| Toluene | VOL-91-5009 | EPA SW-846 5035 & 8260 | P & T GC/MS |
| Ethylbenzene | VOL-91-5009 | EPA SW-846 5035 & 8260 | P & T GC/MS |
| Xylene Mixture | VOL-91-5009 | EPA SW-846 5035 & 8260 | P & T GC/MS |
| F1 (C6 to C10) | VOL-91-5009 | CCME Tier 1 Method | P & T GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5009 | CCME Tier 1 Method | P & T GC/FID |
| F2 (C10 to C16) | VOL-91-5009 | CCME Tier 1 Method, EPA SW846 8015 | GC / FID |
| F3 (C16 to C34) | VOL-91-5009 | CCME Tier 1 Method, EPA SW846 8015 | GC / FID |
| F4 (C34 to C50) | VOL-91-5009 | CCME Tier 1 Method, EPA SW846 8015 | GC / FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Moisture Content | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Terphenyl | VOL-91-5009 | | GC/FID |



AGAT Laboratories

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Report Information:

Company: *Exp Services Inc*
 Contact: *Travis Tan*
 Address: *220 Gommere Valley Dr.*
 Town: *Markham, ON*
 Phone: *916953217* Fax: *916953217*
 Reports to be sent to:
 1. Email: *travis.tan@exp.com*
 2. Email: *Ajay.Goyal@exp.com*

Project Information:

Project: *999-00055100-PP*
 Site Location:
 Sampled By:
 AGAT Quote #: PO:

Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes No

Company:
 Contact:
 Address:
 Email:

| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | Comments/ Special Instructions | Y / N | Field Filtered Metals, Hg, CrVI (Please Circle) | Metals and Inorganics | Metal Scan | Hydride Forming Metals | Client Custom Metals | (Check Applicable) | ORPs: <input type="checkbox"/> B-HW/S <input type="checkbox"/> Cl- <input type="checkbox"/> CN- <input type="checkbox"/> Cr ⁶⁺ <input type="checkbox"/> EC <input type="checkbox"/> FOC <input type="checkbox"/> NO ₃ /NO ₂ <input type="checkbox"/> SAR <input type="checkbox"/> Total N <input type="checkbox"/> Hg <input type="checkbox"/> pH <input type="checkbox"/> TMN <input type="checkbox"/> Nutrients: <input type="checkbox"/> TP <input type="checkbox"/> NH ₃ <input type="checkbox"/> THM <input type="checkbox"/> NO ₃ <input type="checkbox"/> NO ₂ <input checked="" type="checkbox"/> VOC <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> THM <input type="checkbox"/> Volatiles: <input type="checkbox"/> VOC <input type="checkbox"/> BTEX <input type="checkbox"/> PCBs | CCME Fractions 1 to 4 | ABNs | PAHs | Chlorophenols | Organochlorine Pesticides | TCLP Metals/Inorganics | Sewer Use | PCB |
|-----------------------|--------------|--------------|-----------------|---------------|-----------------------------------|-------|--|-----------------------|------------|------------------------|----------------------|--------------------|--|-----------------------|------|------|---------------|---------------------------|------------------------|-----------|-----|
| TH103-SS1 | 8/11/17 | | 1 | S | | | | | | | | | | | | | | | | | |
| TH103-SS101 | | | 1 | | | | | | | | | | | | | | | | | | |
| TH103-SS2 | | | 1 | | | | | | | | | | | | | | | | | | |
| TH103-SS201 | | | 2 | | | | | | | | | | | | | | | | | | |
| TH103-S36 | | | | | | | | | | | | | | | | | | | | | |
| TH104-SS9 | 6/11/17 | | 2 | | | | | | | | | | | | | | | | | | |
| TH105-SS1 | 9/11/17 | | 1 | | | | | | | | | | | | | | | | | | |
| TH105-SS101 | | | 1 | | | | | | | | | | | | | | | | | | |
| TH105-SS6 | | | 2 | | | | | | | | | | | | | | | | | | |
| TH106-SS1 | 10/11/17 | | 1 | | | | | | | | | | | | | | | | | | |
| TH106-SS5 | | | 2 | | | | | | | | | | | | | | | | | | |

Samples Relinquished By (Print Name and Sign):

Samples Relinquished By (Print Name and Sign):

Samples Relinquished By (Print Name and Sign):

Document ID: T-78-1011.011

Date: *Nov 12/17* Time: *11pm*

Date: *Nov 12/17* Time: *11pm*

Date: *Nov 13/17* Time: *3:30*

Samples Received By (Print Name and Sign):

Samples Received By (Print Name and Sign):

Samples Received By (Print Name and Sign):

Date: *Nov 12/17* Time: *11pm*

Date: *Nov 12/17* Time: *11pm*

Date: *Nov 13/17* Time: *3:30*

Date: *Nov 12/17* Time: *11pm*

Date: *Nov 12/17* Time: *11pm*

Date: *Nov 13/17* Time: *3:30*

No: **T 037719**

Laboratory Use Only

Work Order #: **17T283430**

Cooler Quantity: **3.3 3.0 2.9**

Arrival Temperatures: **20.8 20.9 21.0**

Custody Seal Intact: Yes No N/A

Notes:

Turnaround Time (TAT) Required:

Regular TAT

5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

3 Business Days 2 Business Days 1 Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
*TAT is exclusive of weekends and statutory holidays

CLIENT NAME: EXP Services Inc
220 Commerce Valley Drive West, Suite 500
Markham, ON, ON L3T0A8
(905) 695-3217

ATTENTION TO: Travis Tan

PROJECT: MRK-00242747

AGAT WORK ORDER: 17T286217

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Coordinator

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Nov 27, 2017

PAGES (INCLUDING COVER): 11

VERSION*: 2

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

***NOTES**

VERSION 2: Version 2 supersedes version 1. Version 2: revision to project number and sample identifications, issued December 01, 2017

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T286217

PROJECT: MRK-00242747

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

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - Metals (Including Hydrides) (Soil)

DATE RECEIVED: 2017-11-18

DATE REPORTED: 2017-11-27

| Parameter | Unit | SAMPLE DESCRIPTION: | | TH109-SS2 | TH110-SS1 |
|------------|------|---------------------|-----|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Soil | Soil |
| | | G / S | RDL | 2017-11-13 8921971 | 2017-11-13 8921985 |
| Antimony | µg/g | 7.5 | 0.8 | <0.8 | <0.8 |
| Arsenic | µg/g | 18 | 1 | 3 | 4 |
| Boron | µg/g | 120 | 5 | 6 | 6 |
| Barium | µg/g | 390 | 2 | 25 | 52 |
| Beryllium | µg/g | 5 | 0.5 | <0.5 | <0.5 |
| Cadmium | µg/g | 1.2 | 0.5 | <0.5 | <0.5 |
| Chromium | µg/g | 160 | 2 | 9 | 12 |
| Cobalt | µg/g | 22 | 0.5 | 4.7 | 5.6 |
| Copper | µg/g | 180 | 1 | 11 | 37 |
| Lead | µg/g | 120 | 1 | 5 | 36 |
| Molybdenum | µg/g | 6.9 | 0.5 | <0.5 | 1.2 |
| Nickel | µg/g | 130 | 1 | 8 | 10 |
| Selenium | µg/g | 2.4 | 0.4 | <0.4 | 4.9 |
| Silver | µg/g | 25 | 0.2 | <0.2 | <0.2 |
| Thallium | µg/g | 1 | 0.4 | <0.4 | <0.4 |
| Uranium | µg/g | 23 | 0.5 | <0.5 | <0.5 |
| Vanadium | µg/g | 86 | 1 | 12 | 13 |
| Zinc | µg/g | 340 | 5 | 24 | 48 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T286217

PROJECT: MRK-00242747

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CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2017-11-18

DATE REPORTED: 2017-11-27

| Parameter | Unit | SAMPLE DESCRIPTION: | | TH109-SS1 | TH110-SS1 |
|----------------------------|------|---------------------|------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Soil | Soil |
| | | G / S | RDL | 2017-11-13 8921957 | 2017-11-13 8921985 |
| Naphthalene | µg/g | 0.75 | 0.05 | <0.05 | <0.05 |
| Acenaphthylene | µg/g | 0.17 | 0.05 | <0.05 | <0.05 |
| Acenaphthene | µg/g | 58 | 0.05 | <0.05 | <0.05 |
| Fluorene | µg/g | 69 | 0.05 | <0.05 | <0.05 |
| Phenanthrene | µg/g | 7.8 | 0.05 | <0.05 | <0.05 |
| Anthracene | µg/g | 0.74 | 0.05 | <0.05 | <0.05 |
| Fluoranthene | µg/g | 0.69 | 0.05 | <0.05 | <0.05 |
| Pyrene | µg/g | 78 | 0.05 | <0.05 | <0.05 |
| Benz(a)anthracene | µg/g | 0.63 | 0.05 | <0.05 | <0.05 |
| Chrysene | µg/g | 7.8 | 0.05 | <0.05 | <0.05 |
| Benzo(b)fluoranthene | µg/g | 0.78 | 0.05 | <0.05 | <0.05 |
| Benzo(k)fluoranthene | µg/g | 0.78 | 0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene | µg/g | 0.3 | 0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-cd)pyrene | µg/g | 0.48 | 0.05 | <0.05 | <0.05 |
| Dibenz(a,h)anthracene | µg/g | 0.1 | 0.05 | <0.05 | <0.05 |
| Benzo(g,h,i)perylene | µg/g | 7.8 | 0.05 | <0.05 | <0.05 |
| 2-and 1-methyl Naphthalene | µg/g | 3.4 | 0.05 | <0.05 | <0.05 |
| Moisture Content | % | | 0.1 | 10.9 | 7.6 |
| Surrogate | Unit | Acceptable Limits | | | |
| Chrysene-d12 | % | 50-140 | 52 | 86 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8921957-8921985 Results are based on the dry weight of the soil.

Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.

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Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T286217

PROJECT: MRK-00242747

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<http://www.agatlabs.com>

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - PCBs (Soil)

DATE RECEIVED: 2017-11-18

DATE REPORTED: 2017-11-27

| SAMPLE DESCRIPTION: TH112-SS1 | | | |
|-------------------------------|-------------|--------------------------|------|
| SAMPLE TYPE: Soil | | | |
| DATE SAMPLED: 2017-11-13 | | | |
| Parameter | Unit | G / S | RDL |
| Aroclor 1242 | µg/g | 0.1 | <0.1 |
| Aroclor 1248 | µg/g | 0.1 | <0.1 |
| Aroclor 1254 | µg/g | 0.1 | <0.1 |
| Aroclor 1260 | µg/g | 0.1 | <0.1 |
| Polychlorinated Biphenyls | µg/g | 0.35 | 0.1 |
| Moisture Content | % | 0.1 | 10.5 |
| Surrogate | Unit | Acceptable Limits | |
| Decachlorobiphenyl | % | 60-140 | 68 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8921991 Results are based on the dry weight of soil extracted.

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Certificate of Analysis

AGAT WORK ORDER: 17T286217

PROJECT: MRK-00242747

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CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

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

DATE RECEIVED: 2017-11-18

DATE REPORTED: 2017-11-27

| Parameter | Unit | SAMPLE DESCRIPTION: | | TH109-SS2 | TH110- SS3 | TH112-SS3 | TP11-GR3 | TP12-2m | TP13-2.5m | TP14-2m |
|--------------------------------|------|---------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Soil |
| | | G / S | RDL | 2017-11-13 8921971 | 2017-11-13 8921988 | 2017-11-13 8921995 | 2017-11-14 8921998 | 2017-11-14 8921999 | 2017-11-14 8922001 | 2017-11-14 8922006 |
| Benzene | µg/g | 0.17 | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Toluene | µg/g | 6 | 0.08 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 |
| Ethylbenzene | µg/g | 15 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Xylene Mixture | µg/g | 25 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| F1 (C6 to C10) | µg/g | 65 | 5 | <5 | <5 | <5 | <5 | <5 | 48 | 26 |
| F1 (C6 to C10) minus BTEX | µg/g | 65 | 5 | <5 | <5 | <5 | <5 | <5 | 48 | 26 |
| F2 (C10 to C16) | µg/g | 150 | 10 | <10 | 16 | <10 | 110 | 660 | 3900 | 910 |
| F3 (C16 to C34) | µg/g | 1300 | 50 | <50 | <50 | <50 | 110 | 640 | 2400 | 280 |
| F4 (C34 to C50) | µg/g | 5600 | 50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Gravimetric Heavy Hydrocarbons | µg/g | 5600 | 50 | NA |
| Moisture Content | % | | 0.1 | 16.3 | 14.6 | 15.3 | 18.1 | 18.7 | 10.3 | 16.2 |
| Surrogate | Unit | Acceptable Limits | | | | | | | | |
| Terphenyl | % | 60-140 | | 93 | 91 | 85 | 96 | 67 | 77 | 80 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8921971-8922006 Results are based on sample dry weight.

The C6-C10 fraction is calculated using Toluene response factor.

The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

The chromatogram has returned to baseline by the retention time of nC50.

Total C6 - C50 results are corrected for BTEX contributions.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

Extraction and holding times were met for this sample.

Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Quality Control Data is available upon request.

Certified By:



Laboratories

Guideline Violation

AGAT WORK ORDER: 17T286217

PROJECT: MRK-00242747

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<http://www.agatlabs.com>

CLIENT NAME: EXP Services Inc

ATTENTION TO: Travis Tan

| SAMPLEID | SAMPLE TITLE | GUIDELINE | ANALYSIS PACKAGE | PARAMETER | UNIT | GUIDEVALUE | RESULT |
|----------|--------------|-----------------|---|-----------------|------|------------|--------|
| 8921985 | TH110-SS1 | ON T3 S RPI MFT | O. Reg. 153(511) - Metals (Including Hydrides) (Soil) | Selenium | µg/g | 2.4 | 4.9 |
| 8921999 | TP12-2m | ON T3 S RPI MFT | O. Reg. 153(511) - PHCs F1 - F4 (Soil) | F2 (C10 to C16) | µg/g | 150 | 660 |
| 8922001 | TP13-2.5m | ON T3 S RPI MFT | O. Reg. 153(511) - PHCs F1 - F4 (Soil) | F2 (C10 to C16) | µg/g | 150 | 3900 |
| 8922001 | TP13-2.5m | ON T3 S RPI MFT | O. Reg. 153(511) - PHCs F1 - F4 (Soil) | F3 (C16 to C34) | µg/g | 1300 | 2400 |
| 8922006 | TP14-2m | ON T3 S RPI MFT | O. Reg. 153(511) - PHCs F1 - F4 (Soil) | F2 (C10 to C16) | µg/g | 150 | 910 |



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Quality Assurance

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T286217

PROJECT: MRK-00242747

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

| RPT Date: Nov 27, 2017 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | | | |
|--|---------|-----------|-----------|--------|------|--------------|--------------------|-------------------|--------------------|----------|-------------------|--------------|----------|-------------------|-------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | | Lower | | Recovery | Lower | Upper |
| O. Reg. 153(511) - Metals (Including Hydrides) (Soil) | | | | | | | | | | | | | | | | |
| Antimony | 8925080 | | <0.8 | <0.8 | NA | < 0.8 | 88% | 70% | 130% | 95% | 80% | 120% | 97% | 70% | 130% | |
| Arsenic | 8925080 | | 4 | 4 | NA | < 1 | 110% | 70% | 130% | 87% | 80% | 120% | 86% | 70% | 130% | |
| Boron | 8925080 | | <5 | <5 | NA | < 5 | 91% | 70% | 130% | 93% | 80% | 120% | 71% | 70% | 130% | |
| Barium | 8925080 | | 75 | 74 | 1.3% | < 2 | 107% | 70% | 130% | 97% | 80% | 120% | 91% | 70% | 130% | |
| Beryllium | 8925080 | | 0.6 | 0.5 | NA | < 0.5 | 77% | 70% | 130% | 94% | 80% | 120% | 77% | 70% | 130% | |
| Cadmium | 8925080 | | <0.5 | <0.5 | NA | < 0.5 | 107% | 70% | 130% | 97% | 80% | 120% | 94% | 70% | 130% | |
| Chromium | 8925080 | | 26 | 25 | 3.9% | < 2 | 97% | 70% | 130% | 109% | 80% | 120% | 97% | 70% | 130% | |
| Cobalt | 8925080 | | 10.6 | 10.4 | 1.9% | < 0.5 | 100% | 70% | 130% | 100% | 80% | 120% | 95% | 70% | 130% | |
| Copper | 8925080 | | 24 | 24 | 0.0% | < 1 | 93% | 70% | 130% | 106% | 80% | 120% | 87% | 70% | 130% | |
| Lead | 8925080 | | 14 | 13 | 7.4% | < 1 | 110% | 70% | 130% | 103% | 80% | 120% | 97% | 70% | 130% | |
| Molybdenum | 8925080 | | <0.5 | <0.5 | NA | < 0.5 | 103% | 70% | 130% | 100% | 80% | 120% | 93% | 70% | 130% | |
| Nickel | 8925080 | | 22 | 22 | 0.0% | < 1 | 98% | 70% | 130% | 98% | 80% | 120% | 89% | 70% | 130% | |
| Selenium | 8925080 | | <0.4 | <0.4 | NA | < 0.4 | 115% | 70% | 130% | 96% | 80% | 120% | 95% | 70% | 130% | |
| Silver | 8925080 | | <0.2 | <0.2 | NA | < 0.2 | 95% | 70% | 130% | 97% | 80% | 120% | 88% | 70% | 130% | |
| Thallium | 8925080 | | <0.4 | <0.4 | NA | < 0.4 | 101% | 70% | 130% | 94% | 80% | 120% | 90% | 70% | 130% | |
| Uranium | 8925080 | | <0.5 | <0.5 | NA | < 0.5 | 99% | 70% | 130% | 96% | 80% | 120% | 94% | 70% | 130% | |
| Vanadium | 8925080 | | 28 | 27 | 3.6% | < 1 | 92% | 70% | 130% | 99% | 80% | 120% | 80% | 70% | 130% | |
| Zinc | 8925080 | | 53 | 52 | 1.9% | < 5 | 95% | 70% | 130% | 101% | 80% | 120% | 103% | 70% | 130% | |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: 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

Certified By:



AGAT

Laboratories

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Quality Assurance

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T286217

PROJECT: MRK-00242747

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

| RPT Date: Nov 27, 2017 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|--------------------|----------|-------------------|--------------|----------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

O. Reg. 153(511) - PAHs (Soil)

| | | | | | | | | | | | | | | |
|----------------------------|---------|--------|--------|----|--------|------|-----|------|-----|-----|------|------|-----|------|
| Naphthalene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 81% | 50% | 140% | 66% | 50% | 140% | 69% | 50% | 140% |
| Acenaphthylene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 88% | 50% | 140% | 67% | 50% | 140% | 66% | 50% | 140% |
| Acenaphthene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 87% | 50% | 140% | 65% | 50% | 140% | 65% | 50% | 140% |
| Fluorene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 95% | 50% | 140% | 72% | 50% | 140% | 69% | 50% | 140% |
| Phenanthrene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 100% | 50% | 140% | 74% | 50% | 140% | 73% | 50% | 140% |
| Anthracene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 100% | 50% | 140% | 84% | 50% | 140% | 84% | 50% | 140% |
| Fluoranthene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 103% | 50% | 140% | 77% | 50% | 140% | 76% | 50% | 140% |
| Pyrene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 109% | 50% | 140% | 83% | 50% | 140% | 81% | 50% | 140% |
| Benz(a)anthracene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 84% | 50% | 140% | 68% | 50% | 140% | 66% | 50% | 140% |
| Chrysene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 98% | 50% | 140% | 74% | 50% | 140% | 71% | 50% | 140% |
| Benzo(b)fluoranthene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 121% | 50% | 140% | 95% | 50% | 140% | 98% | 50% | 140% |
| Benzo(k)fluoranthene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 134% | 50% | 140% | 98% | 50% | 140% | 115% | 50% | 140% |
| Benzo(a)pyrene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 119% | 50% | 140% | 90% | 50% | 140% | 94% | 50% | 140% |
| Indeno(1,2,3-cd)pyrene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 65% | 50% | 140% | 76% | 50% | 140% | 63% | 50% | 140% |
| Dibenz(a,h)anthracene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 60% | 50% | 140% | 71% | 50% | 140% | 78% | 50% | 140% |
| Benzo(g,h,i)perylene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 67% | 50% | 140% | 84% | 50% | 140% | 73% | 50% | 140% |
| 2-and 1-methyl Naphthalene | 8919674 | < 0.05 | < 0.05 | NA | < 0.05 | 96% | 50% | 140% | 68% | 50% | 140% | 67% | 50% | 140% |

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

| | | | | | | | | | | | | | | | |
|-----------------|---------|---------|--------|--------|------|--------|------|-----|------|------|-----|------|-----|-----|------|
| Benzene | 8922006 | 8922006 | < 0.02 | < 0.02 | NA | < 0.02 | 74% | 60% | 130% | 73% | 60% | 130% | 75% | 60% | 130% |
| Toluene | 8922006 | 8922006 | < 0.08 | < 0.08 | NA | < 0.08 | 76% | 60% | 130% | 73% | 60% | 130% | 73% | 60% | 130% |
| Ethylbenzene | 8922006 | 8922006 | < 0.05 | < 0.05 | NA | < 0.05 | 76% | 60% | 130% | 75% | 60% | 130% | 79% | 60% | 130% |
| Xylene Mixture | 8922006 | 8922006 | < 0.05 | < 0.05 | NA | < 0.05 | 76% | 60% | 130% | 75% | 60% | 130% | 72% | 60% | 130% |
| F1 (C6 to C10) | 8922006 | 8922006 | 26 | 27 | 3.8% | < 5 | 90% | 60% | 130% | 96% | 85% | 115% | 80% | 70% | 130% |
| F2 (C10 to C16) | 8919530 | | < 10 | < 10 | NA | < 10 | 105% | 60% | 130% | 100% | 80% | 120% | 71% | 70% | 130% |
| F3 (C16 to C34) | 8919530 | | < 50 | < 50 | NA | < 50 | 102% | 60% | 130% | 93% | 80% | 120% | 82% | 70% | 130% |
| F4 (C34 to C50) | 8919530 | | < 50 | < 50 | NA | < 50 | 104% | 60% | 130% | 99% | 80% | 120% | 95% | 70% | 130% |

O. Reg. 153(511) - PCBs (Soil)

| | | | | | | | | | | | | | | |
|---------------------------|---------|-------|-------|----|-------|-----|-----|------|-----|-----|------|-----|-----|------|
| Aroclor 1242 | 8927134 | < 0.1 | < 0.1 | NA | < 0.1 | NA | 60% | 140% | NA | 60% | 140% | NA | 60% | 140% |
| Aroclor 1248 | 8927134 | < 0.1 | < 0.1 | NA | < 0.1 | NA | 60% | 140% | NA | 60% | 140% | NA | 60% | 140% |
| Aroclor 1254 | 8927134 | < 0.1 | < 0.1 | NA | < 0.1 | NA | 60% | 140% | NA | 60% | 140% | NA | 60% | 140% |
| Aroclor 1260 | 8927134 | < 0.1 | < 0.1 | NA | < 0.1 | NA | 60% | 140% | NA | 60% | 140% | NA | 60% | 140% |
| Polychlorinated Biphenyls | 8927134 | < 0.1 | < 0.1 | NA | < 0.1 | 97% | 60% | 140% | 95% | 60% | 140% | 95% | 60% | 140% |

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

Certified By:



AGAT

Laboratories

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

Method Summary

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T286217

PROJECT: MRK-00242747

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|----------------------|-------------|--------------------------|----------------------|
| Soil Analysis | | | |
| Antimony | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Arsenic | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Barium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Cadmium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Selenium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Silver | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |



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<http://www.agatlabs.com>

Method Summary

CLIENT NAME: EXP Services Inc

PROJECT: MRK-00242747

SAMPLING SITE:

AGAT WORK ORDER: 17T286217

ATTENTION TO: Travis Tan

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|--------------------------------|-------------|------------------------------------|----------------------|
| Trace Organics Analysis | | | |
| Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Acenaphthylene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Acenaphthene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Fluorene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Phenanthrene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Anthracene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Pyrene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Benz(a)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Chrysene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Benzo(a)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Moisture Content | ORG-91-5106 | EPA SW-846 3541 & 8270 | BALANCE |
| Chrysene-d12 | ORG-91-5106 | EPA SW846 3541 & 8270 | GC/MS |
| Aroclor 1242 | ORG-91-5113 | EPA SW-846 3541 & 8082 | GC/ECD |
| Aroclor 1248 | ORG-91-5113 | EPA SW-846 3541 & 8082 | GC/ECD |
| Aroclor 1254 | ORG-91-5113 | EPA SW-846 3541 & 8082 | GC/ECD |
| Aroclor 1260 | ORG-91-5113 | EPA SW-846 3541 & 8082 | GC/ECD |
| Polychlorinated Biphenyls | ORG-91-5113 | EPA SW-846 3541 & 8082 | GC/ECD |
| Decachlorobiphenyl | ORG-91-5113 | EPA SW-846 3541 & 8082 | GC/ECD |
| Moisture Content | | MOE E3139 | BALANCE |
| Benzene | VOL-91-5009 | EPA SW-846 5035 & 8260 | P & T GC/MS |
| Toluene | VOL-91-5009 | EPA SW-846 5035 & 8260 | P & T GC/MS |
| Ethylbenzene | VOL-91-5009 | EPA SW-846 5035 & 8260 | P & T GC/MS |
| Xylene Mixture | VOL-91-5009 | EPA SW-846 5035 & 8260 | P & T GC/MS |
| F1 (C6 to C10) | VOL-91-5009 | CCME Tier 1 Method | P & T GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5009 | CCME Tier 1 Method | P & T GC/FID |
| F2 (C10 to C16) | VOL-91-5009 | CCME Tier 1 Method, EPA SW846 8015 | GC / FID |
| F3 (C16 to C34) | VOL-91-5009 | CCME Tier 1 Method, EPA SW846 8015 | GC / FID |
| F4 (C34 to C50) | VOL-91-5009 | CCME Tier 1 Method, EPA SW846 8015 | GC / FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Moisture Content | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Terphenyl | VOL-91-5009 | | GC/FID |



AGAT Laboratories

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Report Information:

Company: *Ex Service Inc*
 Contact: *Travis.ten*
 Address: *220 Commerce Valley Dr.*
 Phone: *9/6953217* Fax: *9/6953217*
 Reports to be sent to:
 1. Email: *Travis.Ten@exservice.ca*
 2. Email: *Mary.Jayatoff@exservice.ca*

Project Information:

Project: *999-00055100-PA*
 Site Location: _____
 Sampled By: _____
 AGAT Quote #: _____ PO: _____

Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes No
 Company: _____
 Contact: _____
 Address: _____
 Email: _____

| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | Comments/ Special Instructions | Y / N | Field Filtered - Metals, Hg, CN (Please Circle) | Metals and Inorganics | Hydride Forming Metals | Client Custom Metals | ORPs: <input type="checkbox"/> B-HWS <input type="checkbox"/> Cl- <input type="checkbox"/> CN <input type="checkbox"/> Cr ⁶⁺ <input type="checkbox"/> FOC <input type="checkbox"/> NO ₃ /NO ₂ <input type="checkbox"/> Total N <input type="checkbox"/> Hg <input type="checkbox"/> SAR | Nutrients: <input type="checkbox"/> TP <input type="checkbox"/> NH ₃ <input type="checkbox"/> TKN <input type="checkbox"/> NO ₃ <input type="checkbox"/> NO ₂ <input type="checkbox"/> NO _x /NO ₂ | Volatiles: <input type="checkbox"/> VOC <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> THM <input type="checkbox"/> PCBs | CCME Fractions 1 to 4 | ABNs | PAHs | Chlorophenols | PCBs | Organochlorine Pesticides | TCLP Metals/Inorganics | Sewer Use |
|-----------------------|--------------|--------------|-----------------|---------------|-----------------------------------|-------|--|-----------------------|------------------------|----------------------|--|---|--|-----------------------|------|------|---------------|------|---------------------------|------------------------|-----------|
| TH110-SS1 | 13/11/17 | | 1 | S | | | | | | | | | | | | | | | | | |
| TH110-SS2 | | | 3 | | | | | | | | | | | | | | | | | | |
| TH111-SS1 | | | 2 | | | | | | | | | | | | | | | | | | |
| TH111-SS3 | | | 2 | | | | | | | | | | | | | | | | | | |
| TH113-SS1 | | | 1 | | | | | | | | | | | | | | | | | | |
| TH113-SS3 | | | 2 | | | | | | | | | | | | | | | | | | |
| TP11-GR3 | 14/11/17 | | 2 | | | | | | | | | | | | | | | | | | |
| TP12-2m | | | 2 | | | | | | | | | | | | | | | | | | |
| TD13-2.5m | | | 2 | | | | | | | | | | | | | | | | | | |
| TP14-2m | | | 2 | | | | | | | | | | | | | | | | | | |

Samples Relinquished By (Print Name and Sign):

Date: Nov

Time: 18/11/2017

Samples Received By (Print Name and Sign):

Date: Nov

Time: 18/11/2017

Page: 1 of 1
N°: T 037725

Samples Relinquished By (Print Name and Sign):

Date:

Time:

Samples Received By (Print Name and Sign):

Date:

Time:

Page: 1 of 1
N°: T 037725

Laboratory Use Only

Work Order #: 17T286217

Cooler Quantity: 1 Blk:

Arrival Temperatures: 3.0 2.4 2.8
(ice)

Custody Seal Intact: Yes No N/A
Notes: _____

Turnaround Time (TAT) Required:

Regular TAT

5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

3 Business Days 2 Business Days 1 Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
*TAT is exclusive of weekends and statutory holidays

CLIENT NAME: EXP Services Inc
220 Commerce Valley Drive West, Suite 500
Markham, ON, ON L3T0A8
(905) 695-3217

ATTENTION TO: Travis Tan

PROJECT: MRK-00243747

AGAT WORK ORDER: 17T282567

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer

DATE REPORTED: Nov 20, 2017

PAGES (INCLUDING COVER): 17

VERSION*: 2

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

***NOTES**

VERSION 2: Project number revision from 999-00055100-PP to MRK-00243747 as per client request, issued December 07, 2017

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T282567

PROJECT: MRK-00243747

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

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

O. Reg. 153(511) - PAHs (Water)

DATE RECEIVED: 2017-11-09

DATE REPORTED: 2017-11-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | TRW12 | TRW129 | MW3-16 | MW13-15 |
|----------------------------|------|---------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Water | Water | Water | Water |
| | | G / S | RDL | 2017-11-07 8899299 | 2017-11-07 8899309 | 2017-11-07 8899317 | 2017-11-08 8899325 |
| Naphthalene | µg/L | 6400 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Acenaphthylene | µg/L | 1.8 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Acenaphthene | µg/L | 1700 | 0.20 | 0.55 | 0.58 | <0.20 | <0.20 |
| Fluorene | µg/L | 400 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Phenanthrene | µg/L | 580 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Anthracene | µg/L | 2.4 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Fluoranthene | µg/L | 130 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Pyrene | µg/L | 68 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Benz(a)anthracene | µg/L | 4.7 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Chrysene | µg/L | 1 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Benzo(b)flouranthene | µg/L | 0.75 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Benzo(k)flouranthene | µg/L | 0.4 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Benzo(a)pyrene | µg/L | 0.81 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.2 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Dibenz(a,h)anthracene | µg/L | 0.52 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Benzo(g,h,i)perylene | µg/L | 0.2 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 2-and 1-methyl Naphthalene | µg/L | 1800 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Surrogate | Unit | Acceptable Limits | | | | | |
| Chrysene-d12 | % | 50-140 | | 133 | 116 | 101 | 90 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8899299-8899325 Note: The result for Benzo(b)Flouranthene is the total of the Benzo(b)&(j)Flouranthene isomers because the isomers co-elute on the GC column.

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T282567

PROJECT: MRK-00243747

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

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water)

DATE RECEIVED: 2017-11-09

DATE REPORTED: 2017-11-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | TRW4 | MW5-14 | MW3-14 | MW2-14 | MW255 | MW259 | MW225 |
|--------------------------------|------|---------------------|-----|------------|------------|------------|------------|------------|------------|------------|
| | | SAMPLE TYPE: | | Water |
| | | G / S | RDL | 2017-11-07 | 2017-11-08 | 2017-11-08 | 2017-11-08 | 2017-11-08 | 2017-11-08 | 2017-11-08 |
| F1 (C6 to C10) | µg/L | 750 | 25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 750 | 25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| F2 (C10 to C16) | µg/L | 150 | 100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 |
| F3 (C16 to C34) | µg/L | 500 | 100 | <100 | <100 | <100 | <100 | 3900 | 2500 | <100 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 | <100 | <100 | <100 | 510 | 330 | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA |
| Surrogate | Unit | Acceptable Limits | | | | | | | | |
| Terphenyl | % | 60-140 | | 83 | 91 | 98 | 93 | 90 | 98 | 98 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8899289-8899333 The C6-C10 fraction is calculated using Toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6-C50 results are corrected for BTEX contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T282567

PROJECT: MRK-00243747

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

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

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

DATE RECEIVED: 2017-11-09

DATE REPORTED: 2017-11-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW240 | MW249 | TMW303 | TMW306 | TMW301 | MW13-13 |
|--------------------------------|------|---------------------|------|------------|------------|------------|------------|------------|------------|
| | | SAMPLE TYPE: | | Water | Water | Water | Water | Water | Water |
| | | G / S | RDL | 2017-11-07 | 2017-11-07 | 2017-11-07 | 2017-11-07 | 2017-11-07 | 2017-11-08 |
| Benzene | µg/L | 430 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Toluene | µg/L | 18000 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Ethylbenzene | µg/L | 2300 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Xylene Mixture | µg/L | 4200 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| F1 (C6 to C10) | µg/L | 750 | 25 | <25 | <25 | <25 | <25 | 51 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 750 | 25 | <25 | <25 | <25 | <25 | 51 | <25 |
| F2 (C10 to C16) | µg/L | 150 | 100 | 140 | 130 | <100 | 110 | 360 | <100 |
| F3 (C16 to C34) | µg/L | 500 | 100 | <100 | <100 | <100 | <100 | 160 | <100 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 | <100 | <100 | <100 | <100 | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA | NA | NA | NA | NA | NA |
| Surrogate | Unit | Acceptable Limits | | | | | | | |
| Terphenyl | % | 60-140 | | 93 | 75 | 80 | 73 | 102 | 105 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8899271-8899328 The C6-C10 fraction is calculated using Toluene response factor.

The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.

Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.

The chromatogram has returned to baseline by the retention time of nC50.

Total C6-C50 results are corrected for BTEX contributions.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 nC34 average.

Linearity is within 15%.

Extraction and holding times were met for this sample.

Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153/04, results are considered valid without determining the PAH contribution if not requested by the client.

NA = Not Applicable

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T282567

PROJECT: MRK-00243747

5835 COOPERS AVENUE
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FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Water)

DATE RECEIVED: 2017-11-09

DATE REPORTED: 2017-11-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | TRW12 | MW3-16 | MW13-15 |
|-----------------------------------|-------------|--------------------------|------|------------|------------|------------|
| | | SAMPLE TYPE: | | Water | Water | Water |
| | | G / S | RDL | 2017-11-07 | 2017-11-07 | 2017-11-08 |
| Benzene | µg/L | 430 | 0.20 | <0.20 | <0.20 | <0.20 |
| Toluene | µg/L | 18000 | 0.20 | <0.20 | <0.20 | <0.20 |
| Ethylbenzene | µg/L | 2300 | 0.10 | <0.10 | <0.10 | <0.10 |
| Xylene Mixture | µg/L | 4200 | 0.20 | <0.20 | <0.20 | <0.20 |
| F1 (C6 to C10) | µg/L | 750 | 25 | <25 | <25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 750 | 25 | <25 | <25 | <25 |
| F2 (C10 to C16) | µg/L | 150 | 100 | <100 | <100 | <100 |
| F2 (C10 to C16) minus Naphthalene | µg/L | | 100 | <100 | <100 | <100 |
| F3 (C16 to C34) | µg/L | 500 | 100 | 150 | <100 | <100 |
| F3 (C16 to C34) minus PAHs | µg/L | | 100 | 150 | <100 | <100 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 | <100 | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA | NA | NA |
| Surrogate | Unit | Acceptable Limits | | | | |
| Terphenyl | % | 60-140 | | 83 | 84 | 94 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8899299-8899325 The C6-C10 fraction is calculated using Toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6-C50 results are corrected for BTEX and PAH contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T282567

PROJECT: MRK-00243747

5835 COOPERS AVENUE
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CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2017-11-09

DATE REPORTED: 2017-11-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | TRW4 | TRW43 | MW5-14 | MW3-14 | MW2-14 | MW255 | MW2559 | MW225 |
|-----------------------------|------|---------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Water |
| | | G / S | RDL | 2017-11-07 8899289 | 2017-11-07 8899294 | 2017-11-08 8899319 | 2017-11-08 8899322 | 2017-11-08 8899323 | 2017-11-08 8899331 | 2017-11-08 8899332 | 2017-11-08 8899333 |
| Dichlorodifluoromethane | µg/L | 4400 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Vinyl Chloride | µg/L | 1.7 | 0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 |
| Bromomethane | µg/L | 56 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Trichlorofluoromethane | µg/L | 2500 | 0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 |
| Acetone | µg/L | 130000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethylene | µg/L | 17 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Methylene Chloride | µg/L | 5500 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| trans- 1,2-Dichloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Methyl tert-butyl ether | µg/L | 1400 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1-Dichloroethane | µg/L | 3100 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 1.8 | 1.4 | <0.30 |
| Methyl Ethyl Ketone | µg/L | 1500000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis- 1,2-Dichloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 3.4 | 2.5 | <0.20 |
| Chloroform | µg/L | 22 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,2-Dichloroethane | µg/L | 12 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,1-Trichloroethane | µg/L | 6700 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Carbon Tetrachloride | µg/L | 8.4 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Benzene | µg/L | 430 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,2-Dichloropropane | µg/L | 140 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Trichloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Bromodichloromethane | µg/L | 85000 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Methyl Isobutyl Ketone | µg/L | 580000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | µg/L | 30 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Toluene | µg/L | 18000 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Dibromochloromethane | µg/L | 82000 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Ethylene Dibromide | µg/L | 0.83 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Tetrachloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,1,2-Tetrachloroethane | µg/L | 28 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Chlorobenzene | µg/L | 630 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Ethylbenzene | µg/L | 2300 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| m & p-Xylene | µg/L | | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T282567

PROJECT: MRK-00243747

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CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2017-11-09

DATE REPORTED: 2017-11-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | TRW4 | TRW43 | MW5-14 | MW3-14 | MW2-14 | MW255 | MW2559 | MW225 |
|---------------------------|------------|---------------------|------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | SAMPLE TYPE: | | Water |
| | | G / S | RDL | 2017-11-07 | 2017-11-07 | 2017-11-08 | 2017-11-08 | 2017-11-08 | 2017-11-08 | 2017-11-08 | 2017-11-08 |
| Bromoform | µg/L | 770 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Styrene | µg/L | 9100 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,1,2,2-Tetrachloroethane | µg/L | 15 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| o-Xylene | µg/L | | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,3-Dichlorobenzene | µg/L | 9600 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,4-Dichlorobenzene | µg/L | 67 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,2-Dichlorobenzene | µg/L | 9600 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,3-Dichloropropene | µg/L | 45 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Xylene Mixture | µg/L | 4200 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| n-Hexane | µg/L | 520 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Surrogate | Unit | Acceptable Limits | | | | | | | | | |
| Toluene-d8 | % Recovery | 50-140 | 93 | 96 | 93 | 96 | 99 | 95 | 96 | 93 | |
| 4-Bromofluorobenzene | % Recovery | 50-140 | 80 | 84 | 86 | 82 | 83 | 85 | 84 | 88 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T282567

PROJECT: MRK-00243747

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CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

DATE RECEIVED: 2017-11-09

DATE REPORTED: 2017-11-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | TRW12 | TRW129 | MW3-16 | MW13-15 |
|------------|------|---------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Water | Water | Water | Water |
| | | G / S | RDL | 2017-11-07 8899299 | 2017-11-07 8899309 | 2017-11-07 8899317 | 2017-11-08 8899325 |
| Antimony | µg/L | 20000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Arsenic | µg/L | 1900 | 1.0 | 1.5 | 1.4 | <1.0 | <1.0 |
| Barium | µg/L | 29000 | 2.0 | 409 | 382 | 38.0 | 38.0 |
| Beryllium | µg/L | 67 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Boron | µg/L | 45000 | 10.0 | 537 | 497 | 882 | 466 |
| Cadmium | µg/L | 2.7 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chromium | µg/L | 810 | 2.0 | 5.1 | 2.9 | <2.0 | <2.0 |
| Cobalt | µg/L | 66 | 0.5 | 0.8 | 0.7 | <0.5 | <0.5 |
| Copper | µg/L | 87 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Lead | µg/L | 25 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Molybdenum | µg/L | 9200 | 0.5 | 1.1 | 0.8 | 10.1 | 12.9 |
| Nickel | µg/L | 490 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Selenium | µg/L | 63 | 1.0 | <1.0 | 1.5 | <1.0 | <1.0 |
| Silver | µg/L | 1.5 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | µg/L | 510 | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Uranium | µg/L | 420 | 0.5 | 0.6 | 0.6 | 1.0 | 1.3 |
| Vanadium | µg/L | 250 | 0.4 | <0.4 | <0.4 | <0.4 | 1.2 |
| Zinc | µg/L | 1100 | 5.0 | <5.0 | <5.0 | <5.0 | 39.9 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Certified By:

Divine Basily
X



Laboratories

Guideline Violation

AGAT WORK ORDER: 17T282567

PROJECT: MRK-00243747

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CLIENT NAME: EXP Services Inc

ATTENTION TO: Travis Tan

| SAMPLEID | SAMPLE TITLE | GUIDELINE | ANALYSIS PACKAGE | PARAMETER | UNIT | GUIDEVALUE | RESULT |
|----------|--------------|----------------|---|-----------------|------|------------|--------|
| 8899313 | TMW301 | ON T3 NPGW MFT | O. Reg. 153(511) - PHCs F1 - F4 (Water) | F2 (C10 to C16) | µg/L | 150 | 360 |
| 8899331 | MW255 | ON T3 NPGW MFT | O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water) | F3 (C16 to C34) | µg/L | 500 | 3900 |
| 8899331 | MW255 | ON T3 NPGW MFT | O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water) | F4 (C34 to C50) | µg/L | 500 | 510 |
| 8899332 | MW2559 | ON T3 NPGW MFT | O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water) | F3 (C16 to C34) | µg/L | 500 | 2500 |

Quality Assurance

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T282567

PROJECT: MRK-00243747

ATTENTION TO: Travis Tan

SAMPLING SITE:
SAMPLED BY: AF, AJ

| Trace Organics Analysis | | | | | | | | | | | | | | | | |
|---|---------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|--|
| RPT Date: Nov 20, 2017 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | Lower | Upper | Lower | | Upper | Lower | | Upper | Lower | |
| O. Reg. 153(511) - PHCs F1 - F4 (Water) | | | | | | | | | | | | | | | | |
| Benzene | 8900556 | | < 0.20 | < 0.20 | NA | < 0.20 | 96% | 50% | 140% | 103% | 60% | 130% | 103% | 50% | 140% | |
| Toluene | 8900556 | | < 0.20 | < 0.20 | NA | < 0.20 | 103% | 50% | 140% | 113% | 60% | 130% | 111% | 50% | 140% | |
| Ethylbenzene | 8900556 | | < 0.10 | < 0.10 | NA | < 0.10 | 98% | 50% | 140% | 104% | 60% | 130% | 108% | 50% | 140% | |
| Xylene Mixture | 8900556 | | < 0.20 | < 0.20 | NA | < 0.20 | 102% | 50% | 140% | 93% | 60% | 130% | 108% | 50% | 140% | |
| F1 (C6 to C10) | 8900556 | | < 25 | < 25 | NA | < 25 | 89% | 60% | 140% | 85% | 60% | 140% | 83% | 60% | 140% | |
| F2 (C10 to C16) | | TW | < 100 | < 100 | NA | < 100 | 107% | 60% | 140% | 75% | 60% | 140% | 68% | 60% | 140% | |
| F3 (C16 to C34) | | TW | < 100 | < 100 | NA | < 100 | 112% | 60% | 140% | 110% | 60% | 140% | 69% | 60% | 140% | |
| F4 (C34 to C50) | | TW | < 100 | < 100 | NA | < 100 | 89% | 60% | 140% | 101% | 60% | 140% | 74% | 60% | 140% | |
| Comments: Tap water analysis has been performed as QC sample testing for duplicate and matrix spike due to insufficient sample volume. When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA). | | | | | | | | | | | | | | | | |
| O. Reg. 153(511) - VOCs (Water) | | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 95% | 50% | 140% | 71% | 50% | 140% | 77% | 50% | 140% | |
| Vinyl Chloride | 8888478 | | < 0.17 | < 0.17 | NA | < 0.17 | 117% | 50% | 140% | 80% | 50% | 140% | 112% | 50% | 140% | |
| Bromomethane | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 77% | 50% | 140% | 74% | 50% | 140% | 95% | 50% | 140% | |
| Trichlorofluoromethane | 8888478 | | < 0.40 | < 0.40 | NA | < 0.40 | 88% | 50% | 140% | 109% | 50% | 140% | 75% | 50% | 140% | |
| Acetone | 8888478 | | < 1.0 | < 1.0 | NA | < 1.0 | 110% | 50% | 140% | 98% | 50% | 140% | 93% | 50% | 140% | |
| 1,1-Dichloroethylene | 8888478 | | < 0.30 | < 0.30 | NA | < 0.30 | 79% | 50% | 140% | 102% | 60% | 130% | 90% | 50% | 140% | |
| Methylene Chloride | 8888478 | | < 0.30 | < 0.30 | NA | < 0.30 | 90% | 50% | 140% | 92% | 60% | 130% | 105% | 50% | 140% | |
| trans- 1,2-Dichloroethylene | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 100% | 50% | 140% | 74% | 60% | 130% | 73% | 50% | 140% | |
| Methyl tert-butyl ether | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 122% | 50% | 140% | 87% | 60% | 130% | 101% | 50% | 140% | |
| 1,1-Dichloroethane | 8888478 | | < 0.30 | < 0.30 | NA | < 0.30 | 86% | 50% | 140% | 80% | 60% | 130% | 84% | 50% | 140% | |
| Methyl Ethyl Ketone | 8888478 | | < 1.0 | < 1.0 | NA | < 1.0 | 102% | 50% | 140% | 72% | 50% | 140% | 88% | 50% | 140% | |
| cis- 1,2-Dichloroethylene | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 79% | 50% | 140% | 82% | 60% | 130% | 88% | 50% | 140% | |
| Chloroform | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 94% | 50% | 140% | 87% | 60% | 130% | 86% | 50% | 140% | |
| 1,2-Dichloroethane | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 95% | 50% | 140% | 90% | 60% | 130% | 111% | 50% | 140% | |
| 1,1,1-Trichloroethane | 8888478 | | < 0.30 | < 0.30 | NA | < 0.30 | 72% | 50% | 140% | 75% | 60% | 130% | 105% | 50% | 140% | |
| Carbon Tetrachloride | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 70% | 50% | 140% | 82% | 60% | 130% | 72% | 50% | 140% | |
| Benzene | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 74% | 50% | 140% | 75% | 60% | 130% | 84% | 50% | 140% | |
| 1,2-Dichloropropane | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 89% | 50% | 140% | 75% | 60% | 130% | 87% | 50% | 140% | |
| Trichloroethylene | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 72% | 50% | 140% | 70% | 60% | 130% | 76% | 50% | 140% | |
| Bromodichloromethane | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 98% | 50% | 140% | 78% | 60% | 130% | 88% | 50% | 140% | |
| Methyl Isobutyl Ketone | 8888478 | | < 1.0 | < 1.0 | NA | < 1.0 | 91% | 50% | 140% | 119% | 50% | 140% | 120% | 50% | 140% | |
| 1,1,2-Trichloroethane | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 86% | 50% | 140% | 113% | 60% | 130% | 117% | 50% | 140% | |
| Toluene | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 97% | 50% | 140% | 97% | 60% | 130% | 93% | 50% | 140% | |
| Dibromochloromethane | 8888478 | | < 0.10 | < 0.10 | NA | < 0.10 | 90% | 50% | 140% | 120% | 60% | 130% | 110% | 50% | 140% | |
| Ethylene Dibromide | 8888478 | | < 0.10 | < 0.10 | NA | < 0.10 | 86% | 50% | 140% | 108% | 60% | 130% | 106% | 50% | 140% | |
| Tetrachloroethylene | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 96% | 50% | 140% | 93% | 60% | 130% | 83% | 50% | 140% | |
| 1,1,1,2-Tetrachloroethane | 8888478 | | < 0.10 | < 0.10 | NA | < 0.10 | 90% | 50% | 140% | 108% | 60% | 130% | 103% | 50% | 140% | |



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Quality Assurance

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T282567

PROJECT: MRK-00243747

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:AF, AJ

Trace Organics Analysis (Continued)

| RPT Date: Nov 20, 2017 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | | | |
|--|---------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|--------------------|----------|-------------------|--------------|----------|-------------------|-------|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |
| Chlorobenzene | 8888478 | | < 0.10 | < 0.10 | NA | < 0.10 | 117% | 50% | 140% | 100% | 60% | 130% | 96% | 50% | 140% | |
| Ethylbenzene | 8888478 | | < 0.10 | < 0.10 | NA | < 0.10 | 110% | 50% | 140% | 94% | 60% | 130% | 87% | 50% | 140% | |
| m & p-Xylene | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 115% | 50% | 140% | 99% | 60% | 130% | 89% | 50% | 140% | |
| Bromoform | 8888478 | | < 0.10 | < 0.10 | NA | < 0.10 | 94% | 50% | 140% | 118% | 60% | 130% | 114% | 50% | 140% | |
| Styrene | 8888478 | | < 0.10 | < 0.10 | NA | < 0.10 | 103% | 50% | 140% | 96% | 60% | 130% | 79% | 50% | 140% | |
| 1,1,2,2-Tetrachloroethane | 8888478 | | < 0.10 | < 0.10 | NA | < 0.10 | 92% | 50% | 140% | 83% | 60% | 130% | 81% | 50% | 140% | |
| o-Xylene | 8888478 | | < 0.10 | < 0.10 | NA | < 0.10 | 120% | 50% | 140% | 103% | 60% | 130% | 97% | 50% | 140% | |
| 1,3-Dichlorobenzene | 8888478 | | < 0.10 | < 0.10 | NA | < 0.10 | 90% | 50% | 140% | 100% | 60% | 130% | 87% | 50% | 140% | |
| 1,4-Dichlorobenzene | 8888478 | | < 0.10 | < 0.10 | NA | < 0.10 | 98% | 50% | 140% | 105% | 60% | 130% | 95% | 50% | 140% | |
| 1,2-Dichlorobenzene | 8888478 | | < 0.10 | < 0.10 | NA | < 0.10 | 102% | 50% | 140% | 104% | 60% | 130% | 97% | 50% | 140% | |
| 1,3-Dichloropropene | 8888478 | | < 0.30 | < 0.30 | NA | < 0.30 | 100% | 50% | 140% | 82% | 60% | 130% | 98% | 50% | 140% | |
| n-Hexane | 8888478 | | < 0.20 | < 0.20 | NA | < 0.20 | 93% | 50% | 140% | 103% | 60% | 130% | 110% | 50% | 140% | |
| O. Reg. 153(511) - PAHs (Water) | | | | | | | | | | | | | | | | |
| Naphthalene | TW | | < 0.20 | < 0.20 | NA | < 0.20 | 112% | 50% | 140% | 110% | 50% | 140% | 104% | 50% | 140% | |
| Acenaphthylene | TW | | < 0.20 | < 0.20 | NA | < 0.20 | 129% | 50% | 140% | 95% | 50% | 140% | 113% | 50% | 140% | |
| Acenaphthene | TW | | < 0.20 | < 0.20 | NA | < 0.20 | 105% | 50% | 140% | 98% | 50% | 140% | 99% | 50% | 140% | |
| Fluorene | TW | | < 0.20 | < 0.20 | NA | < 0.20 | 112% | 50% | 140% | 111% | 50% | 140% | 105% | 50% | 140% | |
| Phenanthrene | TW | | < 0.10 | < 0.10 | NA | < 0.10 | 103% | 50% | 140% | 103% | 50% | 140% | 96% | 50% | 140% | |
| Anthracene | TW | | < 0.10 | < 0.10 | NA | < 0.10 | 105% | 50% | 140% | 109% | 50% | 140% | 111% | 50% | 140% | |
| Fluoranthene | TW | | < 0.20 | < 0.20 | NA | < 0.20 | 127% | 50% | 140% | 122% | 50% | 140% | 118% | 50% | 140% | |
| Pyrene | TW | | < 0.20 | < 0.20 | NA | < 0.20 | 108% | 50% | 140% | 112% | 50% | 140% | 114% | 50% | 140% | |
| Benz(a)anthracene | TW | | < 0.20 | < 0.20 | NA | < 0.20 | 76% | 50% | 140% | 65% | 50% | 140% | 76% | 50% | 140% | |
| Chrysene | TW | | < 0.10 | < 0.10 | NA | < 0.10 | 73% | 50% | 140% | 111% | 50% | 140% | 84% | 50% | 140% | |
| Benzo(b)fluoranthene | TW | | < 0.10 | < 0.10 | NA | < 0.10 | 88% | 50% | 140% | 65% | 50% | 140% | 61% | 50% | 140% | |
| Benzo(k)fluoranthene | TW | | < 0.10 | < 0.10 | NA | < 0.10 | 119% | 50% | 140% | 117% | 50% | 140% | 105% | 50% | 140% | |
| Benzo(a)pyrene | TW | | < 0.01 | < 0.01 | NA | < 0.01 | 109% | 50% | 140% | 94% | 50% | 140% | 105% | 50% | 140% | |
| Indeno(1,2,3-cd)pyrene | TW | | < 0.20 | < 0.20 | NA | < 0.20 | 123% | 50% | 140% | 83% | 50% | 140% | 75% | 50% | 140% | |
| Dibenz(a,h)anthracene | TW | | < 0.20 | < 0.20 | NA | < 0.20 | 121% | 50% | 140% | 66% | 50% | 140% | 58% | 50% | 140% | |
| Benzo(g,h,i)perylene | TW | | < 0.20 | < 0.20 | NA | < 0.20 | 119% | 50% | 140% | 110% | 50% | 140% | 106% | 50% | 140% | |
| 2-and 1-methyl Naphthalene | TW | | < 0.20 | < 0.20 | NA | < 0.20 | 122% | 50% | 140% | 106% | 50% | 140% | 104% | 50% | 140% | |

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Quality Assurance

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T282567

PROJECT: MRK-00243747

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:AF, AJ

Water Analysis

| RPT Date: Nov 20, 2017 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

| | | | | | | | | | | | | | | |
|------------|---------|-------|-------|------|--------|------|-----|------|------|-----|------|------|-----|------|
| Antimony | 8901554 | <1.0 | <1.0 | NA | < 1.0 | 97% | 70% | 130% | 99% | 80% | 120% | 90% | 70% | 130% |
| Arsenic | 8901554 | <1.0 | <1.0 | NA | < 1.0 | 98% | 70% | 130% | 98% | 80% | 120% | 125% | 70% | 130% |
| Barium | 8901554 | 37.1 | 37.7 | 1.6% | < 2.0 | 101% | 70% | 130% | 99% | 80% | 120% | 96% | 70% | 130% |
| Beryllium | 8901554 | <0.5 | <0.5 | NA | < 0.5 | 98% | 70% | 130% | 105% | 80% | 120% | 121% | 70% | 130% |
| Boron | 8901554 | <10.0 | <10.0 | NA | < 10.0 | 102% | 70% | 130% | 102% | 80% | 120% | 99% | 70% | 130% |
| Cadmium | 8901554 | <0.2 | <0.2 | NA | < 0.2 | 100% | 70% | 130% | 101% | 80% | 120% | 116% | 70% | 130% |
| Chromium | 8901554 | 3.1 | 3.0 | NA | < 2.0 | 100% | 70% | 130% | 101% | 80% | 120% | 92% | 70% | 130% |
| Cobalt | 8901554 | <0.5 | <0.5 | NA | < 0.5 | 97% | 70% | 130% | 99% | 80% | 120% | 98% | 70% | 130% |
| Copper | 8901554 | 10.7 | 10.6 | 0.9% | < 1.0 | 105% | 70% | 130% | 104% | 80% | 120% | 84% | 70% | 130% |
| Lead | 8901554 | 0.9 | 0.9 | NA | < 0.5 | 100% | 70% | 130% | 102% | 80% | 120% | 95% | 70% | 130% |
| Molybdenum | 8901554 | <0.5 | <0.5 | NA | < 0.5 | 101% | 70% | 130% | 100% | 80% | 120% | 98% | 70% | 130% |
| Nickel | 8901554 | <1.0 | <1.0 | NA | < 1.0 | 100% | 70% | 130% | 100% | 80% | 120% | 96% | 70% | 130% |
| Selenium | 8901554 | <1.0 | <1.0 | NA | < 1.0 | 98% | 70% | 130% | 99% | 80% | 120% | 102% | 70% | 130% |
| Silver | 8901554 | <0.2 | <0.2 | NA | < 0.2 | 96% | 70% | 130% | 106% | 80% | 120% | 98% | 70% | 130% |
| Thallium | 8901554 | <0.3 | <0.3 | NA | < 0.3 | 98% | 70% | 130% | 100% | 80% | 120% | 95% | 70% | 130% |
| Uranium | 8901554 | <0.5 | <0.5 | NA | < 0.5 | 99% | 70% | 130% | 102% | 80% | 120% | 97% | 70% | 130% |
| Vanadium | 8901554 | <0.4 | <0.4 | NA | < 0.4 | 101% | 70% | 130% | 101% | 80% | 120% | 99% | 70% | 130% |
| Zinc | 8901554 | 229 | 229 | 0.1% | < 5.0 | 100% | 70% | 130% | 103% | 80% | 120% | 118% | 70% | 130% |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: 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.

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Divine Basily



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FAX (905)712-5122
<http://www.agatlabs.com>

Method Summary

CLIENT NAME: EXP Services Inc

PROJECT: MRK-00243747

SAMPLING SITE:

AGAT WORK ORDER: 17T282567

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------------|---------------|------------------------|----------------------|
| Trace Organics Analysis | | | |
| Naphthalene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Acenaphthylene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Acenaphthene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Fluorene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Phenanthrene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benz(a)anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Chrysene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benzo(a)pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Chrysene-d12 | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| F1 (C6 to C10) | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/FID |
| F2 (C10 to C16) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| F3 (C16 to C34) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| F4 (C34 to C50) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5010 | MOE PHC E3421 | BALANCE |
| Terphenyl | VOL-91-5010 | | GC/FID |
| Benzene | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| Toluene | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| Ethylbenzene | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| Xylene Mixture | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| F1 (C6 to C10) | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| F2 (C10 to C16) | VOL-91-5010 | MOE PHC-E3421 | GC/FID |
| F3 (C16 to C34) | VOL-91-5010 | MOE PHC-E3421 | GC/FID |
| F4 (C34 to C50) | VOL-91-5010 | MOE PHC-E3421 | GC/FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5010 | MOE PHC-E3421 | BALANCE |
| Benzene | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/MS |
| Toluene | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/MS |
| Ethylbenzene | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/MS |
| Xylene Mixture | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/MS |
| F2 (C10 to C16) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F2 (C10 to C16) minus Naphthalene | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F3 (C16 to C34) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F3 (C16 to C34) minus PAHs | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F4 (C34 to C50) | VOL -91- 5010 | MOE PHC- E3421 | GC/FID |
| Dichlorodifluoromethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Vinyl Chloride | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Bromomethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Trichlorofluoromethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Acetone | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |



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<http://www.agatlabs.com>

Method Summary

CLIENT NAME: EXP Services Inc

PROJECT: MRK-00243747

SAMPLING SITE:

AGAT WORK ORDER: 17T282567

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------|-------------|------------------------|----------------------|
| 1,1-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Methylene Chloride | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| trans- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Methyl tert-butyl ether | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1-Dichloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Methyl Ethyl Ketone | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| cis- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Chloroform | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,2-Dichloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1,1-Trichloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Carbon Tetrachloride | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Benzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,2-Dichloropropane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Trichloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Bromodichloromethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Methyl Isobutyl Ketone | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1,2-Trichloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Toluene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Dibromochloromethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Ethylene Dibromide | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Tetrachloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1,1,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Chlorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Ethylbenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| m & p-Xylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Bromoform | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Styrene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1,2,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| o-Xylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,3-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,4-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,2-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,3-Dichloropropene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Xylene Mixture | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| n-Hexane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Toluene-d8 | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |



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Method Summary

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T282567

PROJECT: MRK-00243747

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:AF, AJ

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------|-------------|--------------------------|----------------------|
| Water Analysis | | | |
| Antimony | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Arsenic | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Barium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Cadmium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Selenium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Silver | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |



AGAT Laboratories

2 large blank

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Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Report Information:

Company: EXP Services Inc.
Contact: Travis Tan
Address: 220 Commerce Valley Dr W
Suite 110, Markham
Phone: 905 695 3217 Fax:
Reports to be sent to:
1. Email: travis.tan@exp.com
2. Email: ajay.jayalath@exp.com

Project Information:

Project: 999-000 55100-PP
Site Location:
Sampled By: A Fernandes & A Jayalath
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes No

Company:
Contact:
Address:
Email:

| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | Comments/ Special Instructions | Y / N | Field Filtered - Metals, Hg, Cr VI (Please Circle) | Metals and Inorganics | Metal Scan | Hydride Forming Metals | Client Custom Metals | (Check Applicable) | ABNs | PAHs | Chlorophenols | PCBs | Organochlorine Pesticides | TCLP Metals/Inorganics | Sewer Use | VOC | metals |
|-----------------------|--------------|--------------|-----------------|---------------|-----------------------------------|-------|---|--------------------------|------------|------------------------|----------------------|--------------------------|-------------------------------------|--------------------------|---------------|------|---------------------------|------------------------|-----------|-----|--------|
| MW 240 | Nov 7/17 | AM | 4 | GW | | | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | |
| MW 249 | | | 4 | GW | | | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | |
| TMW 303 | | | 4 | | | | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | |
| TRW 4 | | | 4 | | | | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | |
| TRW 43 | | | 3 | | | | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | |
| TRW 12 | | PM | 6 | | | | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | |
| TRW 129 | | | 2 | | | | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | |
| TMW 306 | | | 4 | | | | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | |
| TMW 301 | | | 4 | | | | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | |
| MW 3-16 | Nov 8/17 | AM | 6 | | | | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | |
| MW 5-14 | | | 4 | | | | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | |

Samples Relinquished By (Print Name and Sign):

A Fernandes *[Signature]*

Date Nov 9/17 Time 12:30pm

Samples Received By (Print Name and Sign):

Poonchi Putel

Date Nov 11/17 Time 12:30

Date Nov 11/17 Time 12:30

Page 1 of 2

Samples Relinquished By (Print Name and Sign):

Date Nov 9/17 Time

Samples Received By (Print Name and Sign):

Date Nov 11/17 Time

Date Nov 11/17 Time

Samples Relinquished By (Print Name and Sign):

Date Nov 9/17 Time

Samples Received By (Print Name and Sign):

Date Nov 11/17 Time

Date Nov 11/17 Time

No: T 037649

Laboratory Use Only

Work Order #: 17T2 82567

Cooler Quantity:

Arrival Temperatures: 5.1 5.5 5.3
7.1 6.8 6.9

Custody Seal Intact: Yes No N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT

5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

3 Business Days 2 Business Days 1 Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

*TAT is exclusive of weekends and statutory holidays



AGAT Laboratories

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Chain of Custody Record

Report Information:

Company: EXP Services Inc.
 Contact: Travis Tan
 Address: 220 Commerce Valley Dr W
 Suite 110, Markham
 Phone: 905 695 3217 Fax:
 Reports to be sent to:
 1. Email: travistan@exp.com
 2. Email: ajay.jayalath@exp.com

Project Information:

Project: 999-000 55100 - PP

Site Location:

Sampled By: AF + AJ

AGAT Quote #:

PO: Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes No

Company:
 Contact:
 Address:
 Email:

| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | Comments/ Special Instructions | Y / N | Field Filtered Metals, Hg, CrVI | O. Reg 153 | Metals and Inorganics | Regulation/Custom Metals | VOCs | PCBs | TCPs | Sewer Use |
|-----------------------|--------------|--------------|-----------------|---------------|-----------------------------------|-------|---------------------------------|------------|--|---|---|---|------|-----------|
| MW 3-14 | Nov 8/17 | AM | 4 | GW | | Y | | | All Metals <input type="checkbox"/> 153 Metals (excl. Hydrides) <input type="checkbox"/> Hydride Metals <input type="checkbox"/> ORPs: <input type="checkbox"/> B-HWS <input type="checkbox"/> Cl <input type="checkbox"/> CN <input type="checkbox"/> C ⁶⁺ <input type="checkbox"/> EC <input type="checkbox"/> FOC <input type="checkbox"/> Hg <input type="checkbox"/> pH <input type="checkbox"/> SAR | Nutrients: <input type="checkbox"/> TP <input type="checkbox"/> NH ₃ <input type="checkbox"/> TKN <input type="checkbox"/> NO ₃ <input type="checkbox"/> NO ₂ <input type="checkbox"/> NO _x NO ₂ <input type="checkbox"/> PCBs: <input type="checkbox"/> Total <input type="checkbox"/> Aroclors <input type="checkbox"/> Organochlorine Pesticides <input type="checkbox"/> TCPs: <input type="checkbox"/> M&I <input type="checkbox"/> VOCs <input type="checkbox"/> ABns <input type="checkbox"/> BaP <input type="checkbox"/> PCPs | CCME Fractions 1 to 4 <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> THM <input type="checkbox"/> ABNS <input type="checkbox"/> PAHs | <input checked="" type="checkbox"/> VDC <input type="checkbox"/> Metals | | |
| MW 2-14 | | | 4 | | | X | | | | | | | | |
| MW 13-15 | | PM | 6 | | | X | | | | | | | | |
| MW 13-13 | | | 4 | | | X | | | | | | | | |
| MW 255 | | | 4 | | | X | | | | | | | | |
| MW 2559 | | | 4 | | | X | | | | | | | | |
| MW 225 | | | 4 | | | X | | | | | | | | |

Samples Relinquished By (Print Name and Sign):

A Fernandes

Date Nov 9/17 Time 12:30pm

Samples Received By (Print Name and Sign):

Praveen Patel

Date 9/11/17 Time 12:30

Page 2 of 2

Samples Relinquished By (Print Name and Sign):

Date Time

Samples Received By (Print Name and Sign):

Date Time

No: T 045669

Laboratory Use Only

Work Order #: _____

Cooler Quantity: _____

Arrival Temperatures: _____

Custody Seal Intact: Yes No N/A

Notes: _____

Turnaround Time (TAT) Required:

Regular TAT

5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

3 Business Days 2 Business Days Next Business Day

OR Date Required (Rush Surcharges May Apply): _____

Please provide prior notification for rush TAT

*TAT is exclusive of weekends and statutory holidays

For 'Same Day' analysis, please contact your AGAT CPM



CLIENT NAME: EXP Services Inc
220 Commerce Valley Drive West, Suite 500
Markham, ON, ON L3T0A8
(905) 695-3217

ATTENTION TO: Travis Tan

PROJECT: MRK-00243747

AGAT WORK ORDER: 17T283734

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Coordinator

DATE REPORTED: Nov 21, 2017

PAGES (INCLUDING COVER): 17

VERSION*: 2

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

***NOTES**

VERSION 2: Project number revision from 999-00055100-PP to MRK-00243747 as per client request, issued December 07, 2017

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T283734

PROJECT: MRK-00243747

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

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

O. Reg. 153(511) - PAHs (Water)

DATE RECEIVED: 2017-11-14

DATE REPORTED: 2017-11-21

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW 5-06 | MW 23-07 | MW 5-05 |
|----------------------------|------|---------------------|------|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Water | Water | Water |
| | | G / S | RDL | 2017-11-13 8904899 | 2017-11-13 8904938 | 2017-11-13 8904972 |
| Naphthalene | µg/L | 6400 | 0.20 | <0.20 | <0.20 | <0.20 |
| Acenaphthylene | µg/L | 1.8 | 0.20 | <0.20 | <0.20 | <0.20 |
| Acenaphthene | µg/L | 1700 | 0.20 | <0.20 | <0.20 | <0.20 |
| Fluorene | µg/L | 400 | 0.20 | <0.20 | <0.20 | <0.20 |
| Phenanthrene | µg/L | 580 | 0.10 | <0.10 | <0.10 | <0.10 |
| Anthracene | µg/L | 2.4 | 0.10 | <0.10 | <0.10 | <0.10 |
| Fluoranthene | µg/L | 130 | 0.20 | <0.20 | <0.20 | <0.20 |
| Pyrene | µg/L | 68 | 0.20 | <0.20 | <0.20 | <0.20 |
| Benz(a)anthracene | µg/L | 4.7 | 0.20 | <0.20 | <0.20 | <0.20 |
| Chrysene | µg/L | 1 | 0.10 | <0.10 | <0.10 | <0.10 |
| Benzo(b)flouranthene | µg/L | 0.75 | 0.10 | <0.10 | <0.10 | <0.10 |
| Benzo(k)flouranthene | µg/L | 0.4 | 0.10 | <0.10 | <0.10 | <0.10 |
| Benzo(a)pyrene | µg/L | 0.81 | 0.01 | <0.01 | <0.01 | <0.01 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.2 | 0.20 | <0.20 | <0.20 | <0.20 |
| Dibenz(a,h)anthracene | µg/L | 0.52 | 0.20 | <0.20 | <0.20 | <0.20 |
| Benzo(g,h,i)perylene | µg/L | 0.2 | 0.20 | <0.20 | <0.20 | <0.20 |
| 2-and 1-methyl Naphthalene | µg/L | 1800 | 0.20 | <0.20 | <0.20 | <0.20 |
| Surrogate | Unit | Acceptable Limits | | | | |
| Chrysene-d12 | % | 50-140 | 70 | 72 | 62 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8904899-8904972 Note: The result for Benzo(b)Flouranthene is the total of the Benzo(b)&(j)Flouranthene isomers because the isomers co-elute on the GC column.

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T283734

PROJECT: MRK-00243747

5835 COOPERS AVENUE
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<http://www.agatlabs.com>

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water)

DATE RECEIVED: 2017-11-14

DATE REPORTED: 2017-11-21

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW 219 | MW 215 | MW 211 | MW 232 | MW 233 |
|--------------------------------|------|---------------------|-----|------------|------------|------------|------------|------------|
| | | SAMPLE TYPE: | | Water | Water | Water | Water | Water |
| | | G / S | RDL | 2017-11-13 | 2017-11-10 | 2017-11-10 | 2017-11-13 | 2017-11-13 |
| F1 (C6 to C10) | µg/L | 750 | 25 | <25 | <25 | <25 | <25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 750 | 25 | <25 | <25 | <25 | <25 | <25 |
| F2 (C10 to C16) | µg/L | 150 | 100 | <100 | <100 | <100 | <100 | <100 |
| F3 (C16 to C34) | µg/L | 500 | 100 | <100 | <100 | <100 | <100 | <100 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 | <100 | <100 | <100 | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA | NA | NA | NA | NA |
| Surrogate | Unit | Acceptable Limits | | | | | | |
| Terphenyl | % | 60-140 | | 85 | 96 | 86 | 64 | 77 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8904869-8904891 The C6-C10 fraction is calculated using Toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6-C50 results are corrected for BTEX contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T283734

PROJECT: MRK-00243747

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

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

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

DATE RECEIVED: 2017-11-14

DATE REPORTED: 2017-11-21

| | | SAMPLE DESCRIPTION: | | MW 1-16 |
|--------------------------------|-------------|--------------------------|------|------------|
| | | SAMPLE TYPE: | | Water |
| | | DATE SAMPLED: | | 2017-11-10 |
| Parameter | Unit | G / S | RDL | 8904895 |
| Benzene | µg/L | 430 | 0.20 | <0.20 |
| Toluene | µg/L | 18000 | 0.20 | <0.20 |
| Ethylbenzene | µg/L | 2300 | 0.10 | <0.10 |
| Xylene Mixture | µg/L | 4200 | 0.20 | <0.20 |
| F1 (C6 to C10) | µg/L | 750 | 25 | 34 |
| F1 (C6 to C10) minus BTEX | µg/L | 750 | 25 | 34 |
| F2 (C10 to C16) | µg/L | 150 | 100 | 370 |
| F3 (C16 to C34) | µg/L | 500 | 100 | 180 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA |
| Surrogate | Unit | Acceptable Limits | | |
| Terphenyl | % | 60-140 | 90 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8904895

The C6-C10 fraction is calculated using Toluene response factor.

The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.

Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.

The chromatogram has returned to baseline by the retention time of nC50.

Total C6-C50 results are corrected for BTEX contributions.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 nC34 average.

Linearity is within 15%.

Extraction and holding times were met for this sample.

Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153/04, results are considered valid without determining the PAH contribution if not requested by the client.

NA = Not Applicable

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T283734

PROJECT: MRK-00243747

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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<http://www.agatlabs.com>

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Water)

DATE RECEIVED: 2017-11-14

DATE REPORTED: 2017-11-21

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW 23-07 | MW 5-05 |
|-----------------------------------|-------------|--------------------------|------|------------|------------|
| | | SAMPLE TYPE: | | Water | Water |
| | | G / S | RDL | 2017-11-13 | 2017-11-13 |
| Benzene | µg/L | 430 | 0.20 | <0.20 | <0.20 |
| Toluene | µg/L | 18000 | 0.20 | <0.20 | <0.20 |
| Ethylbenzene | µg/L | 2300 | 0.10 | <0.10 | <0.10 |
| Xylene Mixture | µg/L | 4200 | 0.20 | <0.20 | <0.20 |
| F1 (C6 to C10) | µg/L | 750 | 25 | <25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 750 | 25 | <25 | <25 |
| F2 (C10 to C16) | µg/L | 150 | 100 | <100 | <100 |
| F2 (C10 to C16) minus Naphthalene | µg/L | | 100 | <100 | <100 |
| F3 (C16 to C34) | µg/L | 500 | 100 | <100 | <100 |
| F3 (C16 to C34) minus PAHs | µg/L | | 100 | <100 | <100 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA | NA |
| Surrogate | Unit | Acceptable Limits | | | |
| Terphenyl | % | 60-140 | 106 | 96 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8904938-8904972 The C6-C10 fraction is calculated using Toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6-C50 results are corrected for BTEX and PAH contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Certified By:



CLIENT NAME: EXP Services Inc

SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 17T283734

PROJECT: MRK-00243747

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

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Water)

DATE RECEIVED: 2017-11-14

DATE REPORTED: 2017-11-21

| | | SAMPLE DESCRIPTION: | | MW 5-06 |
|-----------------------------------|-------------|--------------------------|-----|------------|
| | | SAMPLE TYPE: | | Water |
| | | DATE SAMPLED: | | 2017-11-13 |
| Parameter | Unit | G / S | RDL | 8904899 |
| F1 (C6 to C10) | µg/L | 750 | 25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 750 | 25 | <25 |
| F2 (C10 to C16) | µg/L | 150 | 100 | <100 |
| F2 (C10 to C16) minus Naphthalene | µg/L | | 100 | <100 |
| F3 (C16 to C34) | µg/L | 500 | 100 | <100 |
| F3 (C16 to C34) minus PAHs | µg/L | | 100 | <100 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA |
| Surrogate | Unit | Acceptable Limits | | |
| Terphenyl | % | 60-140 | 88 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8904899
The C6-C10 fraction is calculated using Toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6-C50 results are corrected for BTEX and PAH contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T283734

PROJECT: MRK-00243747

5835 COOPERS AVENUE
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CANADA L4Z 1Y2
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<http://www.agatlabs.com>

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2017-11-14

DATE REPORTED: 2017-11-21

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW 219 | MW 215 | MW 211 | MW 232 | MW 233 | MW 5-06 | Trip Blank |
|-----------------------------|------|---------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Water |
| | | G / S | RDL | 2017-11-13 8904869 | 2017-11-10 8904876 | 2017-11-10 8904880 | 2017-11-13 8904885 | 2017-11-13 8904891 | 2017-11-13 8904899 | 2017-11-13 8904978 |
| Dichlorodifluoromethane | µg/L | 4400 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Vinyl Chloride | µg/L | 1.7 | 0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 |
| Bromomethane | µg/L | 56 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Trichlorofluoromethane | µg/L | 2500 | 0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 |
| Acetone | µg/L | 130000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethylene | µg/L | 17 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Methylene Chloride | µg/L | 5500 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| trans- 1,2-Dichloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Methyl tert-butyl ether | µg/L | 1400 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1-Dichloroethane | µg/L | 3100 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Methyl Ethyl Ketone | µg/L | 1500000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis- 1,2-Dichloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Chloroform | µg/L | 22 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,2-Dichloroethane | µg/L | 12 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,1-Trichloroethane | µg/L | 6700 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Carbon Tetrachloride | µg/L | 8.4 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Benzene | µg/L | 430 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,2-Dichloropropane | µg/L | 140 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Trichloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Bromodichloromethane | µg/L | 85000 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Methyl Isobutyl Ketone | µg/L | 580000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | µg/L | 30 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Toluene | µg/L | 18000 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Dibromochloromethane | µg/L | 82000 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Ethylene Dibromide | µg/L | 0.83 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Tetrachloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,2-Tetrachloroethane | µg/L | 28 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Chlorobenzene | µg/L | 630 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Ethylbenzene | µg/L | 2300 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| m & p-Xylene | µg/L | | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |

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AGAT WORK ORDER: 17T283734

PROJECT: MRK-00243747

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CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2017-11-14

DATE REPORTED: 2017-11-21

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW 219 | MW 215 | MW 211 | MW 232 | MW 233 | MW 5-06 | Trip Blank |
|---------------------------|------------|---------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Water |
| | | G / S | RDL | 2017-11-13 8904869 | 2017-11-10 8904876 | 2017-11-10 8904880 | 2017-11-13 8904885 | 2017-11-13 8904891 | 2017-11-13 8904899 | 2017-11-13 8904978 |
| Bromoform | µg/L | 770 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Styrene | µg/L | 9100 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,1,2,2-Tetrachloroethane | µg/L | 15 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| o-Xylene | µg/L | | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,3-Dichlorobenzene | µg/L | 9600 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,4-Dichlorobenzene | µg/L | 67 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,2-Dichlorobenzene | µg/L | 9600 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,3-Dichloropropene | µg/L | 45 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Xylene Mixture | µg/L | 4200 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| n-Hexane | µg/L | 520 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Surrogate | Unit | Acceptable Limits | | | | | | | | |
| Toluene-d8 | % Recovery | 50-140 | | 111 | 105 | 72 | 78 | 92 | 84 | 102 |
| 4-Bromofluorobenzene | % Recovery | 50-140 | | 109 | 94 | 91 | 97 | 96 | 120 | 101 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

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AGAT WORK ORDER: 17T283734

PROJECT: MRK-00243747

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CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

DATE RECEIVED: 2017-11-14

DATE REPORTED: 2017-11-21

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW 5-06 | MW 23-07 | MW 5-05 |
|------------|------|---------------------|------|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Water | Water | Water |
| | | G / S | RDL | 2017-11-13 8904899 | 2017-11-13 8904938 | 2017-11-13 8904972 |
| Antimony | µg/L | 20000 | 1.0 | <1.0 | <1.0 | <1.0 |
| Arsenic | µg/L | 1900 | 1.0 | 1.6 | 1.2 | 2.0 |
| Barium | µg/L | 29000 | 2.0 | 50.3 | 27.6 | 36.7 |
| Beryllium | µg/L | 67 | 0.5 | <0.5 | <0.5 | <0.5 |
| Boron | µg/L | 45000 | 10.0 | 186 | 248 | 441 |
| Cadmium | µg/L | 2.7 | 0.2 | <0.2 | <0.2 | <0.2 |
| Chromium | µg/L | 810 | 2.0 | 2.2 | <2.0 | <2.0 |
| Cobalt | µg/L | 66 | 0.5 | 2.9 | 0.7 | 1.4 |
| Copper | µg/L | 87 | 1.0 | 2.2 | 1.3 | <1.0 |
| Lead | µg/L | 25 | 0.5 | <0.5 | <0.5 | <0.5 |
| Molybdenum | µg/L | 9200 | 0.5 | 0.8 | 1.0 | <0.5 |
| Nickel | µg/L | 490 | 1.0 | <1.0 | <1.0 | 2.5 |
| Selenium | µg/L | 63 | 1.0 | 1.7 | <1.0 | 2.0 |
| Silver | µg/L | 1.5 | 0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | µg/L | 510 | 0.3 | <0.3 | <0.3 | <0.3 |
| Uranium | µg/L | 420 | 0.5 | 2.4 | 2.7 | 1.3 |
| Vanadium | µg/L | 250 | 0.4 | <0.4 | <0.4 | <0.4 |
| Zinc | µg/L | 1100 | 5.0 | 127 | 6.0 | 6.4 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Certified By:

**AGAT**Labs
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CLIENT NAME: EXP Services Inc

Guideline Violation

AGAT WORK ORDER: 17T283734

PROJECT: MRK-00243747

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ATTENTION TO: Travis Tan

| SAMPLEID | SAMPLE TITLE | GUIDELINE | ANALYSIS PACKAGE | PARAMETER | UNIT | GUIDEVALUE | RESULT |
|----------|--------------|----------------|---|-----------------|------|------------|--------|
| 8904895 | MW 1-16 | ON T3 NPGW MFT | O. Reg. 153(511) - PHCs F1 - F4 (Water) | F2 (C10 to C16) | µg/L | 150 | 370 |



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Quality Assurance

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T283734

PROJECT: MRK-00243747

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:AF, AJ

Trace Organics Analysis

| RPT Date: Nov 21, 2017 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |

O. Reg. 153(511) - VOCs (Water)

| | | | | | | | | | | | | | | |
|-----------------------------|---------|--------|--------|----|--------|------|-----|------|------|-----|------|------|-----|------|
| Dichlorodifluoromethane | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 81% | 50% | 140% | 77% | 50% | 140% | 96% | 50% | 140% |
| Vinyl Chloride | 8907386 | < 0.17 | < 0.17 | NA | < 0.17 | 114% | 50% | 140% | 128% | 50% | 140% | 125% | 50% | 140% |
| Bromomethane | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 73% | 50% | 140% | 102% | 50% | 140% | 106% | 50% | 140% |
| Trichlorofluoromethane | 8907386 | < 0.40 | < 0.40 | NA | < 0.40 | 73% | 50% | 140% | 101% | 50% | 140% | 94% | 50% | 140% |
| Acetone | 8907386 | < 1.0 | < 1.0 | NA | < 1.0 | 119% | 50% | 140% | 83% | 50% | 140% | 114% | 50% | 140% |
| 1,1-Dichloroethylene | 8907386 | < 0.30 | < 0.30 | NA | < 0.30 | 75% | 50% | 140% | 71% | 60% | 130% | 77% | 50% | 140% |
| Methylene Chloride | 8907386 | < 0.30 | < 0.30 | NA | < 0.30 | 91% | 50% | 140% | 90% | 60% | 130% | 104% | 50% | 140% |
| trans- 1,2-Dichloroethylene | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 92% | 50% | 140% | 71% | 60% | 130% | 93% | 50% | 140% |
| Methyl tert-butyl ether | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 116% | 50% | 140% | 73% | 60% | 130% | 110% | 50% | 140% |
| 1,1-Dichloroethane | 8907386 | < 0.30 | < 0.30 | NA | < 0.30 | 81% | 50% | 140% | 74% | 60% | 130% | 71% | 50% | 140% |
| Methyl Ethyl Ketone | 8907386 | < 1.0 | < 1.0 | NA | < 1.0 | 110% | 50% | 140% | 83% | 50% | 140% | 91% | 50% | 140% |
| cis- 1,2-Dichloroethylene | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 74% | 50% | 140% | 75% | 60% | 130% | 78% | 50% | 140% |
| Chloroform | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 88% | 50% | 140% | 78% | 60% | 130% | 76% | 50% | 140% |
| 1,2-Dichloroethane | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 83% | 50% | 140% | 78% | 60% | 130% | 77% | 50% | 140% |
| 1,1,1-Trichloroethane | 8907386 | < 0.30 | < 0.30 | NA | < 0.30 | 71% | 50% | 140% | 73% | 60% | 130% | 70% | 50% | 140% |
| Carbon Tetrachloride | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 72% | 50% | 140% | 71% | 60% | 130% | 72% | 50% | 140% |
| Benzene | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 71% | 50% | 140% | 74% | 60% | 130% | 72% | 50% | 140% |
| 1,2-Dichloropropane | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 83% | 50% | 140% | 72% | 60% | 130% | 77% | 50% | 140% |
| Trichloroethylene | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 73% | 50% | 140% | 74% | 60% | 130% | 73% | 50% | 140% |
| Bromodichloromethane | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 93% | 50% | 140% | 74% | 60% | 130% | 75% | 50% | 140% |
| Methyl Isobutyl Ketone | 8907386 | < 1.0 | < 1.0 | NA | < 1.0 | 114% | 50% | 140% | 104% | 50% | 140% | 115% | 50% | 140% |
| 1,1,2-Trichloroethane | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 92% | 50% | 140% | 107% | 60% | 130% | 85% | 50% | 140% |
| Toluene | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 101% | 50% | 140% | 99% | 60% | 130% | 102% | 50% | 140% |
| Dibromochloromethane | 8907386 | < 0.10 | < 0.10 | NA | < 0.10 | 114% | 50% | 140% | 106% | 60% | 130% | 110% | 50% | 140% |
| Ethylene Dibromide | 8907386 | < 0.10 | < 0.10 | NA | < 0.10 | 87% | 50% | 140% | 108% | 60% | 130% | 121% | 50% | 140% |
| Tetrachloroethylene | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 98% | 50% | 140% | 95% | 60% | 130% | 101% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 8907386 | < 0.10 | < 0.10 | NA | < 0.10 | 118% | 50% | 140% | 107% | 60% | 130% | 111% | 50% | 140% |
| Chlorobenzene | 8907386 | < 0.10 | < 0.10 | NA | < 0.10 | 118% | 50% | 140% | 103% | 60% | 130% | 111% | 50% | 140% |
| Ethylbenzene | 8907386 | < 0.10 | < 0.10 | NA | < 0.10 | 113% | 50% | 140% | 98% | 60% | 130% | 103% | 50% | 140% |
| m & p-Xylene | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 116% | 50% | 140% | 102% | 60% | 130% | 104% | 50% | 140% |
| Bromoform | 8907386 | < 0.10 | < 0.10 | NA | < 0.10 | 94% | 50% | 140% | 110% | 60% | 130% | 120% | 50% | 140% |
| Styrene | 8907386 | < 0.10 | < 0.10 | NA | < 0.10 | 98% | 50% | 140% | 89% | 60% | 130% | 113% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 8907386 | < 0.10 | < 0.10 | NA | < 0.10 | 95% | 50% | 140% | 117% | 60% | 130% | 76% | 50% | 140% |
| o-Xylene | 8907386 | < 0.10 | < 0.10 | NA | < 0.10 | 107% | 50% | 140% | 109% | 60% | 130% | 110% | 50% | 140% |
| 1,3-Dichlorobenzene | 8907386 | < 0.10 | < 0.10 | NA | < 0.10 | 97% | 50% | 140% | 99% | 60% | 130% | 112% | 50% | 140% |
| 1,4-Dichlorobenzene | 8907386 | < 0.10 | < 0.10 | NA | < 0.10 | 94% | 50% | 140% | 108% | 60% | 130% | 121% | 50% | 140% |
| 1,2-Dichlorobenzene | 8907386 | < 0.10 | < 0.10 | NA | < 0.10 | 94% | 50% | 140% | 103% | 60% | 130% | 113% | 50% | 140% |
| 1,3-Dichloropropene | 8907386 | < 0.30 | < 0.30 | NA | < 0.30 | 87% | 50% | 140% | 92% | 60% | 130% | 88% | 50% | 140% |
| n-Hexane | 8907386 | < 0.20 | < 0.20 | NA | < 0.20 | 83% | 50% | 140% | 99% | 60% | 130% | 113% | 50% | 140% |



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Quality Assurance

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T283734

PROJECT: MRK-00243747

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:AF, AJ

Trace Organics Analysis (Continued)

| RPT Date: Nov 21, 2017 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | | |
|---|-------|-----------|-----------|--------|------|--------------|--------------------|-------------------|----------|--------------------|-------------------|----------|--------------|-------------------|-------|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |
| O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water) | | | | | | | | | | | | | | | | |
| F1 (C6 to C10) | | 8904972 | 8904972 | < 25 | < 25 | NA | < 25 | 89% | 60% 140% | 86% | 60% 140% | 82% | 60% 140% | | | |
| F2 (C10 to C16) | | TW | < 100 | < 100 | NA | < 100 | 105% | 60% 140% | 63% | 60% 140% | 66% | 60% 140% | | | | |
| F3 (C16 to C34) | | TW | < 100 | < 100 | NA | < 100 | 114% | 60% 140% | 72% | 60% 140% | 86% | 60% 140% | | | | |
| F4 (C34 to C50) | | TW | < 100 | < 100 | NA | < 100 | 103% | 60% 140% | 81% | 60% 140% | 91% | 60% 140% | | | | |
| O. Reg. 153(511) - PAHs (Water) | | | | | | | | | | | | | | | | |
| Naphthalene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 83% | 50% 140% | 87% | 50% 140% | 87% | 50% 140% | | | | |
| Acenaphthylene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 98% | 50% 140% | 87% | 50% 140% | 88% | 50% 140% | | | | |
| Acenaphthene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 97% | 50% 140% | 85% | 50% 140% | 85% | 50% 140% | | | | |
| Fluorene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 104% | 50% 140% | 91% | 50% 140% | 88% | 50% 140% | | | | |
| Phenanthrene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 102% | 50% 140% | 93% | 50% 140% | 89% | 50% 140% | | | | |
| Anthracene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 105% | 50% 140% | 102% | 50% 140% | 93% | 50% 140% | | | | |
| Fluoranthene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 88% | 50% 140% | 89% | 50% 140% | 77% | 50% 140% | | | | |
| Pyrene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 87% | 50% 140% | 93% | 50% 140% | 79% | 50% 140% | | | | |
| Benz(a)anthracene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 74% | 50% 140% | 67% | 50% 140% | 72% | 50% 140% | | | | |
| Chrysene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 81% | 50% 140% | 78% | 50% 140% | 66% | 50% 140% | | | | |
| Benzo(b)fluoranthene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 132% | 50% 140% | 109% | 50% 140% | 106% | 50% 140% | | | | |
| Benzo(k)fluoranthene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 123% | 50% 140% | 122% | 50% 140% | 123% | 50% 140% | | | | |
| Benzo(a)pyrene | | TW | < 0.01 | < 0.01 | NA | < 0.01 | 115% | 50% 140% | 112% | 50% 140% | 108% | 50% 140% | | | | |
| Indeno(1,2,3-cd)pyrene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 86% | 50% 140% | 77% | 50% 140% | 70% | 50% 140% | | | | |
| Dibenz(a,h)anthracene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 90% | 50% 140% | 94% | 50% 140% | 83% | 50% 140% | | | | |
| Benzo(g,h,i)perylene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 77% | 50% 140% | 85% | 50% 140% | 68% | 50% 140% | | | | |
| 2-and 1-methyl Naphthalene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 105% | 50% 140% | 94% | 50% 140% | 94% | 50% 140% | | | | |

Comments: Tap water analysis has been performed as QC sample testing for duplicate and matrix spike due to insufficient sample volume.

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

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Quality Assurance

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T283734

PROJECT: MRK-00243747

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:AF, AJ

Water Analysis

| RPT Date: Nov 21, 2017 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

| | | | | | | | | | | | | | | |
|------------|---------|------|------|------|--------|------|-----|------|------|-----|------|------|-----|------|
| Antimony | 8905780 | <1.0 | <1.0 | NA | < 1.0 | 100% | 70% | 130% | 107% | 80% | 120% | 109% | 70% | 130% |
| Arsenic | 8905780 | <1.0 | <1.0 | NA | < 1.0 | 102% | 70% | 130% | 102% | 80% | 120% | 109% | 70% | 130% |
| Barium | 8905780 | 82.9 | 84.7 | 2.1% | < 2.0 | 104% | 70% | 130% | 105% | 80% | 120% | 102% | 70% | 130% |
| Beryllium | 8905780 | <0.5 | <0.5 | NA | < 0.5 | 100% | 70% | 130% | 100% | 80% | 120% | 108% | 70% | 130% |
| Boron | 8905780 | 19.6 | 19.5 | NA | < 10.0 | 99% | 70% | 130% | 98% | 80% | 120% | 103% | 70% | 130% |
| Cadmium | 8905780 | <0.2 | <0.2 | NA | < 0.2 | 100% | 70% | 130% | 102% | 80% | 120% | 106% | 70% | 130% |
| Chromium | 8905780 | <2.0 | <2.0 | NA | < 2.0 | 103% | 70% | 130% | 104% | 80% | 120% | 106% | 70% | 130% |
| Cobalt | 8905780 | <0.5 | <0.5 | NA | < 0.5 | 98% | 70% | 130% | 100% | 80% | 120% | 100% | 70% | 130% |
| Copper | 8905780 | <1.0 | <1.0 | NA | < 1.0 | 100% | 70% | 130% | 103% | 80% | 120% | 96% | 70% | 130% |
| Lead | 8905780 | <0.5 | <0.5 | NA | < 0.5 | 101% | 70% | 130% | 104% | 80% | 120% | 97% | 70% | 130% |
| Molybdenum | 8905780 | 1.6 | 1.6 | NA | < 0.5 | 95% | 70% | 130% | 94% | 80% | 120% | 99% | 70% | 130% |
| Nickel | 8905780 | <1.0 | <1.0 | NA | < 1.0 | 101% | 70% | 130% | 102% | 80% | 120% | 99% | 70% | 130% |
| Selenium | 8905780 | <1.0 | 1.0 | NA | < 1.0 | 101% | 70% | 130% | 99% | 80% | 120% | 107% | 70% | 130% |
| Silver | 8905780 | <0.2 | <0.2 | NA | < 0.2 | 98% | 70% | 130% | 108% | 80% | 120% | 101% | 70% | 130% |
| Thallium | 8905780 | <0.3 | <0.3 | NA | < 0.3 | 103% | 70% | 130% | 104% | 80% | 120% | 99% | 70% | 130% |
| Uranium | 8905780 | 4.0 | 4.1 | 2.5% | < 0.5 | 99% | 70% | 130% | 102% | 80% | 120% | 104% | 70% | 130% |
| Vanadium | 8905780 | <0.4 | <0.4 | NA | < 0.4 | 99% | 70% | 130% | 102% | 80% | 120% | 107% | 70% | 130% |
| Zinc | 8905780 | <5.0 | <5.0 | NA | < 5.0 | 103% | 70% | 130% | 105% | 80% | 120% | 106% | 70% | 130% |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: 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

Certified By:



AGAT

Laboratories

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

Method Summary

CLIENT NAME: EXP Services Inc

PROJECT: MRK-00243747

SAMPLING SITE:

AGAT WORK ORDER: 17T283734

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------------|---------------|------------------------|----------------------|
| Trace Organics Analysis | | | |
| Naphthalene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Acenaphthylene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Acenaphthene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Fluorene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Phenanthrene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benz(a)anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Chrysene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benzo(a)pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Chrysene-d12 | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| F1 (C6 to C10) | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/FID |
| F2 (C10 to C16) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| F3 (C16 to C34) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| F4 (C34 to C50) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5010 | MOE PHC E3421 | BALANCE |
| Terphenyl | VOL-91-5010 | | GC/FID |
| Benzene | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| Toluene | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| Ethylbenzene | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| Xylene Mixture | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| F1 (C6 to C10) | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| F2 (C10 to C16) | VOL-91-5010 | MOE PHC-E3421 | GC/FID |
| F3 (C16 to C34) | VOL-91-5010 | MOE PHC-E3421 | GC/FID |
| F4 (C34 to C50) | VOL-91-5010 | MOE PHC-E3421 | GC/FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5010 | MOE PHC-E3421 | BALANCE |
| Benzene | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/MS |
| Toluene | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/MS |
| Ethylbenzene | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/MS |
| Xylene Mixture | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/MS |
| F2 (C10 to C16) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F2 (C10 to C16) minus Naphthalene | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F3 (C16 to C34) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F3 (C16 to C34) minus PAHs | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F4 (C34 to C50) | VOL -91- 5010 | MOE PHC- E3421 | GC/FID |
| Dichlorodifluoromethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Vinyl Chloride | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Bromomethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Trichlorofluoromethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Acetone | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |



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CANADA L4Z 1Y2
TEL (905)712-5100
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<http://www.agatlabs.com>

Method Summary

CLIENT NAME: EXP Services Inc

PROJECT: MRK-00243747

SAMPLING SITE:

AGAT WORK ORDER: 17T283734

ATTENTION TO: Travis Tan

SAMPLED BY:AF, AJ

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------|-------------|------------------------|----------------------|
| 1,1-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Methylene Chloride | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| trans- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Methyl tert-butyl ether | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1-Dichloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Methyl Ethyl Ketone | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| cis- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Chloroform | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,2-Dichloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1,1-Trichloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Carbon Tetrachloride | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Benzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,2-Dichloropropane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Trichloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Bromodichloromethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Methyl Isobutyl Ketone | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1,2-Trichloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Toluene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Dibromochloromethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Ethylene Dibromide | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Tetrachloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1,1,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Chlorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Ethylbenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| m & p-Xylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Bromoform | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Styrene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1,2,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| o-Xylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,3-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,4-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,2-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,3-Dichloropropene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Xylene Mixture | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| n-Hexane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Toluene-d8 | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |



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FAX (905)712-5122
<http://www.agatlabs.com>

Method Summary

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T283734

PROJECT: MRK-00243747

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:AF, AJ

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------|-------------|--------------------------|----------------------|
| Water Analysis | | | |
| Antimony | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Arsenic | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Barium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Cadmium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Selenium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Silver | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |



AGAT Laboratories

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: exp Services Inc.
 Contact: Travis Tan
 Address: 220 Commerce Valley Dr W
 Suite 110, Markham
 Phone: 905 695 3217 Fax:
 Reports to be sent to:
 1. Email: travis.tan@exp.com
 2. Email: ajay.jayalath@exp.com

Project Information:

Project: 999-00055100 - PP
 Site Location: A Fernandes & A Jayalath
 Sampled By: AGAT Quote #: PO:
 Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes No
 Company: _____
 Contact: _____
 Address: _____
 Email: _____

| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | Comments/ Special Instructions | Y / N |
|-----------------------|--------------|--------------|-----------------|---------------|-----------------------------------|-------|
| MW219 | Nov 13/17 | AM | | GW | | |
| MW215 | Nov 10/17 | AM | | | | |
| MW211 | Nov 10/17 | PM | | | | |
| MW232 | Nov 13/17 | AM | | | | |
| MW233 | ↓ | AM | | | | |
| MW1-16 | Nov 10/17 | PM | | | | |
| MWS-06 | Nov 13/17 | AM | | | | |
| MW23-07 | ↓ | PM | | | | |
| MW5-05 | | PM | | | | |
| Trip Blank | Nov 13/17 | | | GW | | |

Samples Relinquished By (Print Name and Sign):

A Fernandes Andreat

Date

Nov 14/17

Time

1:40pm

Samples Received By (Print Name and Sign):

Simon J

Date

17/11/14

Time

1:50

Page 1 of 1

Samples Relinquished By (Print Name and Sign):

Samples Received By (Print Name and Sign):

Samples Relinquished By (Print Name and Sign):

Date

Time

Samples Received By (Print Name and Sign):

Date

Time

Date

Date

Time

Time

N: T 055498

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 webarth.agatlabs.com

1L9

Laboratory Use Only

Work Order #: 17T283734

Cooler Quantity:

59 53 48

Custody Seal Intact: Yes No N/A

Notes: once

Regulatory Requirements:

(Please check all applicable boxes)

Regulation 153/04

Table 3
Indicate One

- Ind/Com
- Res/Park
- Agriculture

Sewer Use

Sanitary

Regulation 558

CCME

Storm

Prov. Water Quality Objectives (PWQO)

Other

Soil Texture (Check One)

Coarse

Fine

Region *Indicate One*

MISA *Indicate One*

Is this submission for a
Record of Site Condition?

Yes No

Report Guideline on
Certificate of Analysis

Yes No

Please provide prior notification for rush TAT

*TAT is exclusive of weekends and statutory holidays

For 'Same Day' analysis, please contact your AGAT CPM

Sample Matrix Legend

B Biota

GW Ground Water

O Oil

P Paint

S Soil

SD Sediment

SW Surface Water

Field Filtered - Metals, Hg, CrVI

Metals and Inorganics

All Metals

153 Metals (excl. Hydrides)

Hydride Metals

153 Metals (Incl. Hydrides)

ORPs:

Cr⁶⁺

B-HWS

Cl

CN

pH

FOC

Hg

SAR

Full Metals Scan

Regulation/Custom Metals

Nutrients:

TP

NH₃

TKN

NO₃

NO₂

NO_x

Volatiles:

VOC

BTEX

THM

ABNs

PAHs

PCBs

Total

Aroclors

Organochlorine Pesticides

M&I

VOCs

ABNS

BIA)P

PCBs

Sewer Use

BTEX
Metals

CLIENT NAME: EXP Services Inc
220 Commerce Valley Drive West, Suite 500
Markham, ON, ON L3T0A8
(905) 695-3217

ATTENTION TO: Travis Tan

PROJECT: 999-00055100-PP

AGAT WORK ORDER: 17T285277

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

WATER ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer

DATE REPORTED: Nov 23, 2017

PAGES (INCLUDING COVER): 20

VERSION*: 2

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

***NOTES**

VERSION 2: Version 2 supersedes version 1. Version 2: revision to sample identifications, issued December 01, 2017

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T285277

PROJECT: 999-00055100-PP

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

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - PAHs (Water)

DATE RECEIVED: 2017-11-16

DATE REPORTED: 2017-11-23

| Parameter | Unit | SAMPLE DESCRIPTION: | | TH108 | MW1-06 | GR1 | GR2 | GR3 | GR23 |
|----------------------------|------|---------------------|------|------------|------------|------------|------------|------------|------------|
| | | SAMPLE TYPE: | | Water | Water | Water | Water | Water | Water |
| | | G / S | RDL | 2017-11-15 | 2017-11-15 | 2017-11-14 | 2017-11-14 | 2017-11-14 | 2017-11-14 |
| Naphthalene | µg/L | 6400 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Acenaphthylene | µg/L | 1.8 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Acenaphthene | µg/L | 1700 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Fluorene | µg/L | 400 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Phenanthrene | µg/L | 580 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Anthracene | µg/L | 2.4 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Fluoranthene | µg/L | 130 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Pyrene | µg/L | 68 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Benz(a)anthracene | µg/L | 4.7 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Chrysene | µg/L | 1 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Benzo(b)flouranthene | µg/L | 0.75 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Benzo(k)flouranthene | µg/L | 0.4 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Benzo(a)pyrene | µg/L | 0.81 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.2 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Dibenz(a,h)anthracene | µg/L | 0.52 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Benzo(g,h,i)perylene | µg/L | 0.2 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 2-and 1-methyl Naphthalene | µg/L | 1800 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Surrogate | Unit | Acceptable Limits | | | | | | | |
| Chrysene-d12 | % | 50-140 | | 112 | 84 | 109 | 103 | 103 | 97 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8913980-8914380 Note: The result for Benzo(b)Flouranthene is the total of the Benzo(b)&(j)Flouranthene isomers because the isomers co-elute on the GC column.

Certified By: 



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T285277

PROJECT: 999-00055100-PP

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

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water)

DATE RECEIVED: 2017-11-16

DATE REPORTED: 2017-11-23

| Parameter | Unit | SAMPLE DESCRIPTION: | | TH101 | TH102 | TH110 | TH1000 | TH112 |
|--------------------------------|------|---------------------|-----|------------|------------|------------|------------|------------|
| | | SAMPLE TYPE: | | Water | Water | Water | Water | Water |
| | | G / S | RDL | 2017-11-15 | 2017-11-15 | 2017-11-15 | 2017-11-14 | 2017-11-14 |
| F1 (C6 to C10) | µg/L | 750 | 25 | <25 | <25 | 400 | <25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 750 | 25 | <25 | <25 | 390 | <25 | <25 |
| F2 (C10 to C16) | µg/L | 150 | 100 | <100 | <100 | 2000 | <100 | <100 |
| F3 (C16 to C34) | µg/L | 500 | 100 | <100 | <100 | 830 | <100 | <100 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 | <100 | <100 | <100 | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA | NA | NA | NA | NA |
| Surrogate | Unit | Acceptable Limits | | | | | | |
| Terphenyl | % | 60-140 | | 67 | 89 | 72 | 71 | 62 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8913972-8915524 The C6-C10 fraction is calculated using Toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6-C50 results are corrected for BTEX contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

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Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T285277

PROJECT: 999-00055100-PP

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
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<http://www.agatlabs.com>

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

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

DATE RECEIVED: 2017-11-16

DATE REPORTED: 2017-11-23

| Parameter | Unit | SAMPLE DESCRIPTION: | | TH104 | TH105 | TH109 | TH111 |
|--------------------------------|------|---------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Water | Water | Water | Water |
| | | G / S | RDL | 2017-11-15 8913977 | 2017-11-15 8913978 | 2017-11-15 8914342 | 2017-11-15 8914348 |
| Benzene | µg/L | 430 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Toluene | µg/L | 18000 | 0.20 | <0.20 | <0.20 | <0.20 | 0.38 |
| Ethylbenzene | µg/L | 2300 | 0.10 | <0.10 | <0.10 | <0.10 | 0.16 |
| Xylene Mixture | µg/L | 4200 | 0.20 | <0.20 | <0.20 | <0.20 | 0.74 |
| F1 (C6 to C10) | µg/L | 750 | 25 | <25 | <25 | <25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 750 | 25 | <25 | <25 | <25 | <25 |
| F2 (C10 to C16) | µg/L | 150 | 100 | <100 | <100 | <100 | <100 |
| F3 (C16 to C34) | µg/L | 500 | 100 | <100 | <100 | <100 | <100 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 | <100 | <100 | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA | NA | NA | NA |
| Surrogate | Unit | Acceptable Limits | | | | | |
| Terphenyl | % | 60-140 | | 83 | 90 | 79 | 68 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8913977-8914348 The C6-C10 fraction is calculated using Toluene response factor.

The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.

Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.

The chromatogram has returned to baseline by the retention time of nC50.

Total C6-C50 results are corrected for BTEX contributions.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 nC34 average.

Linearity is within 15%.

Extraction and holding times were met for this sample.

Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153/04, results are considered valid without determining the PAH contribution if not requested by the client.

NA = Not Applicable

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AGAT WORK ORDER: 17T285277

PROJECT: 999-00055100-PP

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CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Water)

DATE RECEIVED: 2017-11-16

DATE REPORTED: 2017-11-23

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW1-06 | | GR1 Water | GR2 Water | GR3 Water | GR23 Water | | | | | | | | | |
|-----------------------------------|-------------|--------------------------|-----|---------------|------------|--------------|--------------|--------------|---------------|-----|------------|---------|------------|---------|------------|---------|------------|---------|
| | | SAMPLE TYPE: | | Water | | | | | | | | | | | | | | |
| | | G / S | RDL | DATE SAMPLED: | 2017-11-15 | 8913980 | RDL | 2017-11-15 | 8914354 | RDL | 2017-11-14 | 8914373 | 2017-11-14 | 8914378 | 2017-11-14 | 8914379 | 2017-11-14 | 8914380 |
| F1 (C6 to C10) | µg/L | 750 | 25 | <25 | | 25 | | <25 | | 25 | | <25 | | <25 | | <25 | | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 750 | 25 | <25 | | 25 | | <25 | | 25 | | <25 | | <25 | | <25 | | <25 |
| F2 (C10 to C16) | µg/L | 150 | 100 | <100 | | 150 | | <150 | | 100 | | <100 | | <100 | | <100 | | <100 |
| F2 (C10 to C16) minus Naphthalene | µg/L | | 100 | <100 | | 150 | | <150 | | 100 | | <100 | | <100 | | <100 | | <100 |
| F3 (C16 to C34) | µg/L | 500 | 100 | <100 | | 200 | | <200 | | 100 | | <100 | | <100 | | <100 | | <100 |
| F3 (C16 to C34) minus PAHs | µg/L | | 100 | <100 | | 200 | | <200 | | 100 | | <100 | | <100 | | <100 | | <100 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 | | 200 | | <200 | | 100 | | <100 | | <100 | | <100 | | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA | | 500 | | NA | | 500 | | NA | | NA | | NA | | NA |
| Surrogate | Unit | Acceptable Limits | | | | | | | | | | | | | | | | |
| Terphenyl | % | 60-140 | | 62 | | | | 100 | | | | 76 | | 93 | | 115 | | 85 |

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CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Water)

DATE RECEIVED: 2017-11-16

DATE REPORTED: 2017-11-23

| | |
|-----------------|--|
| Comments: | RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation. |
| 8913980 | <p>The C6-C10 fraction is calculated using Toluene response factor. The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34. Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present. The chromatogram has returned to baseline by the retention time of nC50. Total C6-C50 results are corrected for BTEX and PAH contributions. This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. nC6 and nC10 response factors are within 30% of Toluene response factor. nC10, nC16 and nC34 response factors are within 10% of their average. C50 response factor is within 70% of nC10 + nC16 nC34 average. Linearity is within 15%. Extraction and holding times were met for this sample.</p> |
| 8914354 | <p>Dilution factor=2 The sample was diluted because there was limited water available to perform the analysis. The reporting detection limit has been corrected for the dilution factor used. The C6-C10 fraction is calculated using Toluene response factor. The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34. Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present. The chromatogram has returned to baseline by the retention time of nC50. Total C6-C50 results are corrected for BTEX and PAH contributions. This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. nC6 and nC10 response factors are within 30% of Toluene response factor. nC10, nC16 and nC34 response factors are within 10% of their average. C50 response factor is within 70% of nC10 + nC16 nC34 average. Linearity is within 15%. Extraction and holding times were met for this sample.</p> |
| 8914373-8914380 | <p>The C6-C10 fraction is calculated using Toluene response factor. The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34. Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present. The chromatogram has returned to baseline by the retention time of nC50. Total C6-C50 results are corrected for BTEX and PAH contributions. This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. nC6 and nC10 response factors are within 30% of Toluene response factor. nC10, nC16 and nC34 response factors are within 10% of their average. C50 response factor is within 70% of nC10 + nC16 nC34 average. Linearity is within 15%. Extraction and holding times were met for this sample.</p> |

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CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2017-11-16

DATE REPORTED: 2017-11-23

| Parameter | Unit | SAMPLE DESCRIPTION: | | TH101 | TH102 | TH108 | TH110 | MW1-06 | MW250 | TH1000 | GR1 |
|-----------------------------|------|---------------------|---------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | SAMPLE TYPE: | DATE SAMPLED: | Water |
| | | G / S | RDL | 2017-11-15 | 2017-11-15 | 2017-11-15 | 2017-11-15 | 2017-11-15 | 2017-11-15 | 2017-11-14 | 2017-11-14 |
| Dichlorodifluoromethane | µg/L | 4400 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Vinyl Chloride | µg/L | 1.7 | 0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 |
| Bromomethane | µg/L | 56 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Trichlorofluoromethane | µg/L | 2500 | 0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 |
| Acetone | µg/L | 130000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethylene | µg/L | 17 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Methylene Chloride | µg/L | 5500 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| trans- 1,2-Dichloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Methyl tert-butyl ether | µg/L | 1400 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1-Dichloroethane | µg/L | 3100 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Methyl Ethyl Ketone | µg/L | 1500000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis- 1,2-Dichloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Chloroform | µg/L | 22 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,2-Dichloroethane | µg/L | 12 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,1-Trichloroethane | µg/L | 6700 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Carbon Tetrachloride | µg/L | 8.4 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Benzene | µg/L | 430 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 4.9 | <0.20 | <0.20 | <0.20 |
| 1,2-Dichloropropane | µg/L | 140 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Trichloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Bromodichloromethane | µg/L | 85000 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Methyl Isobutyl Ketone | µg/L | 580000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | µg/L | 30 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Toluene | µg/L | 18000 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.33 | <0.20 |
| Dibromochloromethane | µg/L | 82000 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Ethylene Dibromide | µg/L | 0.83 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Tetrachloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,1,2-Tetrachloroethane | µg/L | 28 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Chlorobenzene | µg/L | 630 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Ethylbenzene | µg/L | 2300 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.89 | <0.10 | <0.10 | <0.10 |
| m & p-Xylene | µg/L | | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |

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AGAT WORK ORDER: 17T285277

PROJECT: 999-00055100-PP

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CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2017-11-16

DATE REPORTED: 2017-11-23

| Parameter | Unit | SAMPLE DESCRIPTION: | | TH101 | TH102 | TH108 | TH110 | MW1-06 | MW250 | TH1000 | GR1 |
|---------------------------|------------|---------------------|------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | SAMPLE TYPE: | | Water |
| | | G / S | RDL | 2017-11-15 | 2017-11-15 | 2017-11-15 | 2017-11-15 | 2017-11-15 | 2017-11-15 | 2017-11-14 | 2017-11-14 |
| Bromoform | µg/L | 770 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Styrene | µg/L | 9100 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,1,2,2-Tetrachloroethane | µg/L | 15 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| o-Xylene | µg/L | | 0.10 | <0.10 | <0.10 | <0.10 | 0.11 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,3-Dichlorobenzene | µg/L | 9600 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,4-Dichlorobenzene | µg/L | 67 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,2-Dichlorobenzene | µg/L | 9600 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,3-Dichloropropene | µg/L | 45 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Xylene Mixture | µg/L | 4200 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| n-Hexane | µg/L | 520 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Surrogate | Unit | Acceptable Limits | | | | | | | | | |
| Toluene-d8 | % Recovery | 50-140 | | 102 | 102 | 106 | 104 | 111 | 106 | 111 | 107 |
| 4-Bromofluorobenzene | % Recovery | 50-140 | | 118 | 113 | 115 | 98 | 110 | 108 | 112 | 105 |

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AGAT WORK ORDER: 17T285277

PROJECT: 999-00055100-PP

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<http://www.agatlabs.com>

CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2017-11-16

DATE REPORTED: 2017-11-23

| Parameter | Unit | SAMPLE DESCRIPTION: | | GR2 | GR3 | GR23 | Trip Blank | TH112 | TH1110 |
|-----------------------------|------|---------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Water | Water | Water | Water | Water | Water |
| | | G / S | RDL | 2017-11-14 8914378 | 2017-11-14 8914379 | 2017-11-14 8914380 | 2017-11-14 8914382 | 2017-11-14 8915524 | 2017-11-14 8916778 |
| Dichlorodifluoromethane | µg/L | 4400 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Vinyl Chloride | µg/L | 1.7 | 0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 |
| Bromomethane | µg/L | 56 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Trichlorofluoromethane | µg/L | 2500 | 0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 |
| Acetone | µg/L | 130000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethylene | µg/L | 17 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Methylene Chloride | µg/L | 5500 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| trans- 1,2-Dichloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Methyl tert-butyl ether | µg/L | 1400 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1-Dichloroethane | µg/L | 3100 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Methyl Ethyl Ketone | µg/L | 1500000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis- 1,2-Dichloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Chloroform | µg/L | 22 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,2-Dichloroethane | µg/L | 12 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,1-Trichloroethane | µg/L | 6700 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Carbon Tetrachloride | µg/L | 8.4 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Benzene | µg/L | 430 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 6.1 |
| 1,2-Dichloropropane | µg/L | 140 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Trichloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Bromodichloromethane | µg/L | 85000 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Methyl Isobutyl Ketone | µg/L | 580000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | µg/L | 30 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Toluene | µg/L | 18000 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Dibromochloromethane | µg/L | 82000 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Ethylene Dibromide | µg/L | 0.83 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Tetrachloroethylene | µg/L | 17 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,1,2-Tetrachloroethane | µg/L | 28 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Chlorobenzene | µg/L | 630 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Ethylbenzene | µg/L | 2300 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 1.1 |
| m & p-Xylene | µg/L | | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T285277

PROJECT: 999-00055100-PP

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CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2017-11-16

DATE REPORTED: 2017-11-23

| Parameter | Unit | SAMPLE DESCRIPTION: | | GR2 | GR3 | GR23 | Trip Blank | TH112 | TH1110 |
|---------------------------|------------|---------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Water | Water | Water | Water | Water | Water |
| | | G / S | RDL | 2017-11-14 8914378 | 2017-11-14 8914379 | 2017-11-14 8914380 | 2017-11-14 8914382 | 2017-11-14 8915524 | 2017-11-14 8916778 |
| Bromoform | µg/L | 770 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Styrene | µg/L | 9100 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,1,2,2-Tetrachloroethane | µg/L | 15 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| o-Xylene | µg/L | | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.13 |
| 1,3-Dichlorobenzene | µg/L | 9600 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,4-Dichlorobenzene | µg/L | 67 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,2-Dichlorobenzene | µg/L | 9600 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,3-Dichloropropene | µg/L | 45 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Xylene Mixture | µg/L | 4200 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| n-Hexane | µg/L | 520 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Surrogate | Unit | Acceptable Limits | | | | | | | |
| Toluene-d8 | % Recovery | 50-140 | 108 | 105 | 104 | 106 | 107 | 102 | |
| 4-Bromofluorobenzene | % Recovery | 50-140 | 110 | 104 | 111 | 90 | 104 | 101 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Certified By:



Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17T285277

PROJECT: 999-00055100-PP

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CLIENT NAME: EXP Services Inc

SAMPLING SITE:

ATTENTION TO: Travis Tan

SAMPLED BY:

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

DATE RECEIVED: 2017-11-16

DATE REPORTED: 2017-11-23

| Parameter | Unit | SAMPLE DESCRIPTION: | | TH108 | MW1-06 | GR1 | GR2 | GR3 | GR23 |
|------------|------|---------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | SAMPLE TYPE: | | Water | Water | Water | Water | Water | Water |
| | | G / S | RDL | 2017-11-15 8913980 | 2017-11-15 8914354 | 2017-11-14 8914373 | 2017-11-14 8914378 | 2017-11-14 8914379 | 2017-11-14 8914380 |
| Antimony | µg/L | 20000 | 1.0 | <1.0 | 1.4 | <1.0 | <1.0 | <1.0 | <1.0 |
| Arsenic | µg/L | 1900 | 1.0 | 2.7 | <1.0 | 1.1 | 1.1 | <1.0 | 1.1 |
| Barium | µg/L | 29000 | 2.0 | 51.7 | 25.0 | 23.7 | 23.6 | 23.0 | 23.7 |
| Beryllium | µg/L | 67 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Boron | µg/L | 45000 | 10.0 | 908 | 72.0 | 35.2 | 32.1 | 31.0 | 30.9 |
| Cadmium | µg/L | 2.7 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chromium | µg/L | 810 | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Cobalt | µg/L | 66 | 0.5 | 0.8 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Copper | µg/L | 87 | 1.0 | <1.0 | 1.6 | 1.2 | <1.0 | 1.4 | 1.1 |
| Lead | µg/L | 25 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Molybdenum | µg/L | 9200 | 0.5 | 6.8 | 1.8 | 1.4 | 1.5 | 1.4 | 1.5 |
| Nickel | µg/L | 490 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Selenium | µg/L | 63 | 1.0 | 1.5 | 1.4 | 1.1 | 2.1 | <1.0 | <1.0 |
| Silver | µg/L | 1.5 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | µg/L | 510 | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Uranium | µg/L | 420 | 0.5 | 1.8 | 2.4 | <0.5 | <0.5 | <0.5 | <0.5 |
| Vanadium | µg/L | 250 | 0.4 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.6 |
| Zinc | µg/L | 1100 | 5.0 | <5.0 | 5.7 | <5.0 | <5.0 | <5.0 | <5.0 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Certified By:

Divine Basily
X



Guideline Violation

AGAT WORK ORDER: 17T285277

PROJECT: 999-00055100-PP

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CLIENT NAME: EXP Services Inc

ATTENTION TO: Travis Tan

| SAMPLEID | SAMPLE TITLE | GUIDELINE | ANALYSIS PACKAGE | PARAMETER | UNIT | GUIDEVALUE | RESULT |
|----------|--------------|----------------|---|-----------------|------|------------|--------|
| 8914347 | TH110 | ON T3 NPGW MFT | O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water) | F2 (C10 to C16) | µg/L | 150 | 2000 |
| 8914347 | TH110 | ON T3 NPGW MFT | O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water) | F3 (C16 to C34) | µg/L | 500 | 830 |



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Quality Assurance

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T285277

PROJECT: 999-00055100-PP

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

| RPT Date: Nov 23, 2017 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |

O. Reg. 153(511) - VOCs (Water)

| | | | | | | | | | | | | | | |
|-----------------------------|---------|--------|--------|----|--------|------|-----|------|------|-----|------|------|-----|------|
| Dichlorodifluoromethane | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 94% | 50% | 140% | 74% | 50% | 140% | 117% | 50% | 140% |
| Vinyl Chloride | 8911744 | < 0.17 | < 0.17 | NA | < 0.17 | 128% | 50% | 140% | 124% | 50% | 140% | 101% | 50% | 140% |
| Bromomethane | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 94% | 50% | 140% | 102% | 50% | 140% | 93% | 50% | 140% |
| Trichlorofluoromethane | 8911744 | < 0.40 | < 0.40 | NA | < 0.40 | 103% | 50% | 140% | 79% | 50% | 140% | 123% | 50% | 140% |
| Acetone | 8911744 | < 1.0 | < 1.0 | NA | < 1.0 | 116% | 50% | 140% | 102% | 50% | 140% | 116% | 50% | 140% |
| 1,1-Dichloroethylene | 8911744 | < 0.30 | < 0.30 | NA | < 0.30 | 96% | 50% | 140% | 76% | 60% | 130% | 87% | 50% | 140% |
| Methylene Chloride | 8911744 | < 0.30 | < 0.30 | NA | < 0.30 | 91% | 50% | 140% | 109% | 60% | 130% | 97% | 50% | 140% |
| trans- 1,2-Dichloroethylene | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 73% | 50% | 140% | 77% | 60% | 130% | 84% | 50% | 140% |
| Methyl tert-butyl ether | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 117% | 50% | 140% | 114% | 60% | 130% | 90% | 50% | 140% |
| 1,1-Dichloroethane | 8911744 | < 0.30 | < 0.30 | NA | < 0.30 | 85% | 50% | 140% | 80% | 60% | 130% | 91% | 50% | 140% |
| Methyl Ethyl Ketone | 8911744 | < 1.0 | < 1.0 | NA | < 1.0 | 91% | 50% | 140% | 76% | 50% | 140% | 107% | 50% | 140% |
| cis- 1,2-Dichloroethylene | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 82% | 50% | 140% | 82% | 60% | 130% | 89% | 50% | 140% |
| Chloroform | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 103% | 50% | 140% | 87% | 60% | 130% | 99% | 50% | 140% |
| 1,2-Dichloroethane | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 103% | 50% | 140% | 86% | 60% | 130% | 106% | 50% | 140% |
| 1,1,1-Trichloroethane | 8911744 | < 0.30 | < 0.30 | NA | < 0.30 | 75% | 50% | 140% | 77% | 60% | 130% | 84% | 50% | 140% |
| Carbon Tetrachloride | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 73% | 50% | 140% | 73% | 60% | 130% | 88% | 50% | 140% |
| Benzene | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 75% | 50% | 140% | 76% | 60% | 130% | 83% | 50% | 140% |
| 1,2-Dichloropropane | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 92% | 50% | 140% | 74% | 60% | 130% | 81% | 50% | 140% |
| Trichloroethylene | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 72% | 50% | 140% | 80% | 60% | 130% | 82% | 50% | 140% |
| Bromodichloromethane | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 108% | 50% | 140% | 77% | 60% | 130% | 92% | 50% | 140% |
| Methyl Isobutyl Ketone | 8911744 | < 1.0 | < 1.0 | NA | < 1.0 | 108% | 50% | 140% | 108% | 50% | 140% | 118% | 50% | 140% |
| 1,1,2-Trichloroethane | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 121% | 50% | 140% | 106% | 60% | 130% | 99% | 50% | 140% |
| Toluene | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 83% | 50% | 140% | 97% | 60% | 130% | 89% | 50% | 140% |
| Dibromochloromethane | 8911744 | < 0.10 | < 0.10 | NA | < 0.10 | 109% | 50% | 140% | 98% | 60% | 130% | 103% | 50% | 140% |
| Ethylene Dibromide | 8911744 | < 0.10 | < 0.10 | NA | < 0.10 | 117% | 50% | 140% | 101% | 60% | 130% | 101% | 50% | 140% |
| Tetrachloroethylene | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 81% | 50% | 140% | 98% | 60% | 130% | 90% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 8911744 | < 0.10 | < 0.10 | NA | < 0.10 | 114% | 50% | 140% | 103% | 60% | 130% | 98% | 50% | 140% |
| Chlorobenzene | 8911744 | < 0.10 | < 0.10 | NA | < 0.10 | 101% | 50% | 140% | 100% | 60% | 130% | 89% | 50% | 140% |
| Ethylbenzene | 8911744 | < 0.10 | < 0.10 | NA | < 0.10 | 94% | 50% | 140% | 98% | 60% | 130% | 87% | 50% | 140% |
| m & p-Xylene | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 99% | 50% | 140% | 101% | 60% | 130% | 92% | 50% | 140% |
| Bromoform | 8911744 | < 0.10 | < 0.10 | NA | < 0.10 | 91% | 50% | 140% | 108% | 60% | 130% | 109% | 50% | 140% |
| Styrene | 8911744 | < 0.10 | < 0.10 | NA | < 0.10 | 88% | 50% | 140% | 89% | 60% | 130% | 85% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 8911744 | < 0.10 | < 0.10 | NA | < 0.10 | 77% | 50% | 140% | 107% | 60% | 130% | 120% | 50% | 140% |
| o-Xylene | 8911744 | < 0.10 | < 0.10 | NA | < 0.10 | 110% | 50% | 140% | 107% | 60% | 130% | 96% | 50% | 140% |
| 1,3-Dichlorobenzene | 8911744 | < 0.10 | < 0.10 | NA | < 0.10 | 110% | 50% | 140% | 95% | 60% | 130% | 88% | 50% | 140% |
| 1,4-Dichlorobenzene | 8911744 | < 0.10 | < 0.10 | NA | < 0.10 | 115% | 50% | 140% | 93% | 60% | 130% | 100% | 50% | 140% |
| 1,2-Dichlorobenzene | 8911744 | < 0.10 | < 0.10 | NA | < 0.10 | 119% | 50% | 140% | 100% | 60% | 130% | 97% | 50% | 140% |
| 1,3-Dichloropropene | 8911744 | < 0.30 | < 0.30 | NA | < 0.30 | 80% | 50% | 140% | 98% | 60% | 130% | 102% | 50% | 140% |
| n-Hexane | 8911744 | < 0.20 | < 0.20 | NA | < 0.20 | 80% | 50% | 140% | 74% | 60% | 130% | 107% | 50% | 140% |

AGAT QUALITY ASSURANCE REPORT (V2)

Page 13 of 20

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.

Results relate only to the items tested and to all the items tested



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Quality Assurance

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T285277

PROJECT: 999-00055100-PP

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:

| Trace Organics Analysis (Continued) | | | | | | | | | | | | | | | | |
|--|---------|-----------|-----------|--------|--------|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|------|--|
| RPT Date: Nov 23, 2017 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | Lower | Upper | Lower | Upper | Lower | Upper | | | | |
| O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water) | | | | | | | | | | | | | | | | |
| F1 (C6 to C10) | 8913977 | 8891397 | < 25 | < 25 | NA | < 25 | 104% | 60% | 140% | 103% | 60% | 140% | 101% | 60% | 140% | |
| F2 (C10 to C16) | TW | < 100 | < 100 | NA | < 100 | 95% | 60% | 140% | 61% | 60% | 140% | 66% | 60% | 140% | | |
| F3 (C16 to C34) | TW | < 100 | < 100 | NA | < 100 | 96% | 60% | 140% | 61% | 60% | 140% | 72% | 60% | 140% | | |
| F4 (C34 to C50) | TW | < 100 | < 100 | NA | < 100 | 106% | 60% | 140% | 92% | 60% | 140% | 93% | 60% | 140% | | |
| O. Reg. 153(511) - PHCs F1 - F4 (Water) | | | | | | | | | | | | | | | | |
| Benzene | 8913977 | 8911397 | < 0.20 | < 0.20 | NA | < 0.20 | 74% | 50% | 140% | 78% | 60% | 130% | 67% | 50% | 140% | |
| Toluene | 8913977 | 8911397 | < 0.20 | < 0.20 | NA | < 0.20 | 74% | 50% | 140% | 66% | 60% | 130% | 74% | 50% | 140% | |
| Ethylbenzene | 8913977 | 8911397 | < 0.10 | < 0.10 | NA | < 0.10 | 72% | 50% | 140% | 70% | 60% | 130% | 81% | 50% | 140% | |
| Xylene Mixture | 8913977 | 8911397 | < 0.20 | < 0.20 | NA | < 0.20 | 62% | 50% | 140% | 82% | 60% | 130% | 99% | 50% | 140% | |
| F1 (C6 to C10) | 8913977 | 8911397 | < 25 | < 25 | NA | < 25 | 104% | 60% | 140% | 103% | 60% | 140% | 101% | 60% | 140% | |
| O. Reg. 153(511) - PAHs (Water) | | | | | | | | | | | | | | | | |
| Naphthalene | 8911545 | 5.1 | 5.3 | 3.8% | < 0.20 | 112% | 50% | 140% | 118% | 50% | 140% | 94% | 50% | 140% | | |
| Acenaphthylene | 8911545 | 0.33 | 0.30 | NA | < 0.20 | 129% | 50% | 140% | 122% | 50% | 140% | 109% | 50% | 140% | | |
| Acenaphthene | 8911545 | 0.29 | 0.25 | NA | < 0.20 | 105% | 50% | 140% | 116% | 50% | 140% | 111% | 50% | 140% | | |
| Fluorene | 8911545 | 0.47 | 0.36 | NA | < 0.20 | 112% | 50% | 140% | 125% | 50% | 140% | 121% | 50% | 140% | | |
| Phenanthrene | 8911545 | < 0.10 | < 0.10 | NA | < 0.10 | 103% | 50% | 140% | 121% | 50% | 140% | 122% | 50% | 140% | | |
| Anthracene | 8911545 | < 0.10 | < 0.10 | NA | < 0.10 | 105% | 50% | 140% | 125% | 50% | 140% | 121% | 50% | 140% | | |
| Fluoranthene | 8911545 | < 0.20 | < 0.20 | NA | < 0.20 | 127% | 50% | 140% | 123% | 50% | 140% | 122% | 50% | 140% | | |
| Pyrene | 8911545 | < 0.20 | < 0.20 | NA | < 0.20 | 108% | 50% | 140% | 112% | 50% | 140% | 118% | 50% | 140% | | |
| Benz(a)anthracene | 8911545 | < 0.20 | < 0.20 | NA | < 0.20 | 76% | 50% | 140% | 79% | 50% | 140% | 79% | 50% | 140% | | |
| Chrysene | 8911545 | < 0.10 | < 0.10 | NA | < 0.10 | 73% | 50% | 140% | 118% | 50% | 140% | 129% | 50% | 140% | | |
| Benzo(b)fluoranthene | 8911545 | < 0.10 | < 0.10 | NA | < 0.10 | 88% | 50% | 140% | 80% | 50% | 140% | 85% | 50% | 140% | | |
| Benzo(k)fluoranthene | 8911545 | < 0.10 | < 0.10 | NA | < 0.10 | 119% | 50% | 140% | 102% | 50% | 140% | 97% | 50% | 140% | | |
| Benzo(a)pyrene | 8911545 | < 0.01 | < 0.01 | NA | < 0.01 | 109% | 50% | 140% | 118% | 50% | 140% | 111% | 50% | 140% | | |
| Indeno(1,2,3-cd)pyrene | 8911545 | < 0.20 | < 0.20 | NA | < 0.20 | 123% | 50% | 140% | 108% | 50% | 140% | 92% | 50% | 140% | | |
| Dibenz(a,h)anthracene | 8911545 | < 0.20 | < 0.20 | NA | < 0.20 | 121% | 50% | 140% | 86% | 50% | 140% | 77% | 50% | 140% | | |
| Benzo(g,h,i)perylene | 8911545 | < 0.20 | < 0.20 | NA | < 0.20 | 119% | 50% | 140% | 120% | 50% | 140% | 108% | 50% | 140% | | |
| 2-and 1-methyl Naphthalene | 8911545 | 11 | 8.2 | 29.2% | < 0.20 | 122% | 50% | 140% | 121% | 50% | 140% | 111% | 50% | 140% | | |

Comments: Tap water analysis has been performed as QC sample testing for duplicate and matrix spike due to insufficient sample volume.
When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By:



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Quality Assurance

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T285277

PROJECT: 999-00055100-PP

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:

Water Analysis

| RPT Date: Nov 23, 2017 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

| | | | | | | | | | | | | | | |
|------------|---------|------|------|------|--------|------|-----|------|------|-----|------|------|-----|------|
| Antimony | 8919470 | 1.1 | 1.5 | NA | < 1.0 | 95% | 70% | 130% | 98% | 80% | 120% | 107% | 70% | 130% |
| Arsenic | 8919470 | 1.3 | <1.0 | NA | < 1.0 | 103% | 70% | 130% | 105% | 80% | 120% | 116% | 70% | 130% |
| Barium | 8919470 | 526 | 517 | 1.7% | < 2.0 | 94% | 70% | 130% | 97% | 80% | 120% | 99% | 70% | 130% |
| Beryllium | 8919470 | <0.5 | <0.5 | NA | < 0.5 | 103% | 70% | 130% | 110% | 80% | 120% | 116% | 70% | 130% |
| Boron | 8919470 | 145 | 143 | 1.4% | < 10.0 | 102% | 70% | 130% | 105% | 80% | 120% | 93% | 70% | 130% |
| Cadmium | 8919470 | <0.2 | <0.2 | NA | < 0.2 | 101% | 70% | 130% | 104% | 80% | 120% | 116% | 70% | 130% |
| Chromium | 8919470 | <2.0 | <2.0 | NA | < 2.0 | 99% | 70% | 130% | 103% | 80% | 120% | 97% | 70% | 130% |
| Cobalt | 8919470 | 0.7 | 0.6 | NA | < 0.5 | 100% | 70% | 130% | 102% | 80% | 120% | 104% | 70% | 130% |
| Copper | 8919470 | 1.4 | 1.4 | NA | < 1.0 | 102% | 70% | 130% | 107% | 80% | 120% | 102% | 70% | 130% |
| Lead | 8919470 | <0.5 | <0.5 | NA | < 0.5 | 103% | 70% | 130% | 109% | 80% | 120% | 100% | 70% | 130% |
| Molybdenum | 8919470 | 3.2 | 3.3 | 3.1% | < 0.5 | 97% | 70% | 130% | 99% | 80% | 120% | 104% | 70% | 130% |
| Nickel | 8919470 | 1.3 | 1.3 | NA | < 1.0 | 101% | 70% | 130% | 102% | 80% | 120% | 103% | 70% | 130% |
| Selenium | 8919470 | 1.2 | 1.1 | NA | < 1.0 | 100% | 70% | 130% | 103% | 80% | 120% | 112% | 70% | 130% |
| Silver | 8919470 | <0.2 | <0.2 | NA | < 0.2 | 96% | 70% | 130% | 104% | 80% | 120% | 98% | 70% | 130% |
| Thallium | 8919470 | <0.3 | <0.3 | NA | < 0.3 | 103% | 70% | 130% | 106% | 80% | 120% | 99% | 70% | 130% |
| Uranium | 8919470 | 1.2 | 1.2 | NA | < 0.5 | 101% | 70% | 130% | 104% | 80% | 120% | 103% | 70% | 130% |
| Vanadium | 8919470 | <0.4 | 1.2 | NA | < 0.4 | 99% | 70% | 130% | 100% | 80% | 120% | 99% | 70% | 130% |
| Zinc | 8919470 | 111 | 117 | 5.3% | < 5.0 | 103% | 70% | 130% | 105% | 80% | 120% | 106% | 70% | 130% |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: 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

Certified By:

X Divine Basily



AGAT

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FAX (905)712-5122
<http://www.agatlabs.com>

Method Summary

CLIENT NAME: EXP Services Inc

PROJECT: 999-00055100-PP

SAMPLING SITE:

AGAT WORK ORDER: 17T285277

ATTENTION TO: Travis Tan

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------------|-------------|------------------------|----------------------|
| Trace Organics Analysis | | | |
| Naphthalene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Acenaphthylene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Acenaphthene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Fluorene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Phenanthrene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benz(a)anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Chrysene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benzo(a)pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| Chrysene-d12 | ORG-91-5105 | EPA SW-846 3510 & 8270 | GC/MS |
| F1 (C6 to C10) | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/FID |
| F2 (C10 to C16) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| F3 (C16 to C34) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| F4 (C34 to C50) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5010 | MOE PHC E3421 | BALANCE |
| Terphenyl | VOL-91-5010 | | GC/FID |
| Benzene | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| Toluene | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| Ethylbenzene | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| Xylene Mixture | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| F1 (C6 to C10) | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5010 | MOE PHC-E3421 | (P&T)GC/FID |
| F2 (C10 to C16) | VOL-91-5010 | MOE PHC-E3421 | GC/FID |
| F3 (C16 to C34) | VOL-91-5010 | MOE PHC-E3421 | GC/FID |
| F4 (C34 to C50) | VOL-91-5010 | MOE PHC-E3421 | GC/FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5010 | MOE PHC-E3421 | BALANCE |
| F2 (C10 to C16) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F2 (C10 to C16) minus Naphthalene | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F3 (C16 to C34) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F3 (C16 to C34) minus PAHs | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F4 (C34 to C50) | VOL-91-5010 | MOE PHC- E3421 | GC/FID |
| Dichlorodifluoromethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Vinyl Chloride | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Bromomethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Trichlorofluoromethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Acetone | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Methylene Chloride | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| trans- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Methyl tert-butyl ether | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |



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<http://www.agatlabs.com>

Method Summary

CLIENT NAME: EXP Services Inc

PROJECT: 999-00055100-PP

SAMPLING SITE:

AGAT WORK ORDER: 17T285277

ATTENTION TO: Travis Tan

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---------------------------|-------------|------------------------|----------------------|
| 1,1-Dichloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Methyl Ethyl Ketone | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| cis- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Chloroform | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,2-Dichloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1,1-Trichloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Carbon Tetrachloride | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Benzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,2-Dichloropropane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Trichloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Bromodichloromethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Methyl Isobutyl Ketone | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1,2-Trichloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Toluene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Dibromochloromethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Ethylene Dibromide | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Tetrachloroethylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1,1,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Chlorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Ethylbenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| m & p-Xylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Bromoform | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Styrene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,1,2,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| o-Xylene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,3-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,4-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,2-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 1,3-Dichloropropene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Xylene Mixture | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| n-Hexane | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| Toluene-d8 | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5001 | EPA SW-846 5030 & 8260 | (P&T)GC/MS |



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Method Summary

CLIENT NAME: EXP Services Inc

AGAT WORK ORDER: 17T285277

PROJECT: 999-00055100-PP

ATTENTION TO: Travis Tan

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------|-------------|--------------------------|----------------------|
| Water Analysis | | | |
| Antimony | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Arsenic | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Barium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Cadmium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Selenium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Silver | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |



AGAT Laboratories

216

5835 Coopers Avenue
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Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Report Information:

Company: *Exp Services Inc*
 Contact: *Travis Tan*
 Address: *220 Commerce Valley Dr W*
 MARKHAM, ON
 905 675 3217
 Phone: *Fax:*
 Reports to be sent to:
 1. Email: *travis.tan@exp.ca*
 2. Email: *jay.jayath@exp.ca*

Project Information:

Project: *999-00055100-pp*
 Site Location:
 Sampled By:
 AGAT Quote #: *PO:*
 Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes No

Company:
 Contact:
 Address:
 Email:

Regulatory Requirements:

(Please check all applicable boxes)

- Regulation 153/04
 Table *3*
 Indicate One
 Ind./Cdn
 Res./Park
 Agriculture
- Sewer Use
 Sanitary
 Storm
- Regulation 558
 CCME
 Prov. Water Quality Objectives (PWQO)
 Other
- Soil Texture (Check One) *Indicate One*
 Coarse
 Fine
- Region *Indicate One*

Is this submission for a
Record of Site Condition?

Yes No

Report Guideline on
Certificate of Analysis

Yes No

Laboratory Use Only

Work Order #: _____

Cooler Quantity: *2222919*

Arrival Temperatures: *26.5 23.5 27*

Custody Seal Intact: Yes No N/A

Notes: _____

Turnaround Time (TAT) Required:

Regular TAT 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

3 Business Days 2 Business Days 1 Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
 *TAT is exclusive of weekends and statutory holidays

| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | Comments/ Special Instructions | Y N | Field Filtered Metals, Hg, CrVI (Please Circle) | | | | | | | | | | |
|-----------------------|--------------|--------------|-----------------|---------------|-----------------------------------|-----|--|--|------------------------|--|----------------------|--|---|--|--|--|--|
| | | | | | | | Metals and Inorganics | | Hydride Forming Metals | | Client Custom Metals | | ORPs: <input type="checkbox"/> B-HW/S <input type="checkbox"/> Cl- <input type="checkbox"/> CN <input type="checkbox"/> Cr ⁶⁺ <input type="checkbox"/> EC <input type="checkbox"/> FOC <input type="checkbox"/> NO ₃ /NO ₂ <input type="checkbox"/> Total N <input type="checkbox"/> Hg <input type="checkbox"/> pH <input type="checkbox"/> SAR | | Nutrients: <input type="checkbox"/> TP <input type="checkbox"/> NH ₃ <input type="checkbox"/> TKN <input type="checkbox"/> NO ₃ <input type="checkbox"/> NO ₂ <input type="checkbox"/> NO ₂ /NO ₃ <input type="checkbox"/> TURB <input type="checkbox"/> THM | | Voc's: <input type="checkbox"/> PCB <input type="checkbox"/> TBT <input type="checkbox"/> TEK <input type="checkbox"/> CCME Fractions 1 to 4 |
| MW250 | Nov 15/17 | Am/Pm | 2 | GW | Instant sample | | | | | | | | | | | | |
| TH1100V | Nov 14/17 | Am/Pm | 4 | GW | | | | | | | | | | | | | |
| GR1 | Nov 15/17 | Am/Pm | 6 | SW | | | | | | | | | | | | | |
| GR2 | | | 6 | | | | | | | | | | | | | | |
| GR3 | | | 6 | | | | | | | | | | | | | | |
| GR23 | | | 6 | | | | | | | | | | | | | | |
| TRIP BLANK | Nov 14/17 | Am/Pm | 3 | GW | | | | | | | | | | | | | |

Samples Relinquished By (Print Name and Sign): *Harry Narinsker*

Date: *Nov 15/17*

Time: *10:00*

Date: *11/16/17*

Time: *12:00*

Samples Relinquished By (Print Name and Sign): *Edgar B*

Date: *11/16/17*

Time: *10:00*

Date: *11/16/17*

Time: *10:00*

Samples Relinquished By (Print Name and Sign): *Edgar B*

Date: *11/16/17*

Time: *10:00*

Date: *11/16/17*

Time: *10:00*