Phase Two Environmental Site Assessment
Part of Lot 9, RCP 1542
Parts 1, 2, 3, and 4, Plan 43R41109
Ninth Line
Mississauga, Ontario

Saint Mark and Saint Demiana Coptic Orthodox Church
462 Falgarwood Drive
Oakville, ON L6H 1N3

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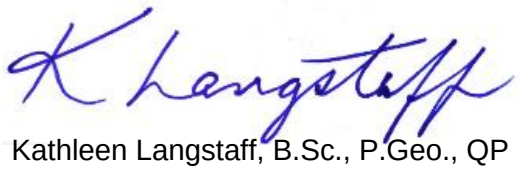
Record of Revisions

Revision	Date	Description
-	May 11, 2022	Initial Submission to Client
1	May 24, 2022	Phase Two ESA report, signed, stamped.
2	November 15, 2023	Additional sampling to address review comments.
3	May 6, 2024	Revised owner, legal description, updated records.

R.J. Burnside & Associates Limited

Report Prepared By:



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Executive Summary

R.J. Burnside & Associates Limited (Burnside) was retained by Saint Mark and Saint Demiana Coptic Orthodox Church to conduct a Phase Two Environmental Site Assessment (ESA) of the property described as Part of Lot 9, RCP 1542, Parts 1,2, 3, and 4, Plan 43R44109 (the "Site") located on Ninth Line in Mississauga, Ontario. When referring to direction in this report, project north is toward Burnhamthorpe Road, with Ninth Line running north-south.

The purpose of the Phase Two ESA is to support an application to the City of Mississauga to amend the Zoning By-law to permit construction of a church and construction of a community centre. A portion of the Site near the west boundary will be dedicated (conveyed) to the municipality for future road widening. The Phase Two ESA was completed in accordance with Ontario Regulation (O. Reg.) 153/04, as amended, and with Canadian Standards Association (CSA) Standard Z769-00.

The Site is 3.93 hectares (9.72 acres) of land situated east of Ninth Line and south of Burnhamthorpe Road West. The majority of the Site is vacant, cultivated farmland (Agricultural or Other Use). A gravel driveway extends from Ninth Line to a clearing on the south part of the Site, which is approximately 0.72 hectares (1.78 acres). A tree care company (Wildwood Tree Services Ltd.) uses the south part of the Site for storing vehicles, equipment, and wood (Industrial Use). A structure (Quonset hut) on the east side of the clearing is used for cutting and storing wood. There were formerly two diesel fuel aboveground storage tanks (ASTs) that were situated on the north side of the Quonset hut. Both ASTs were removed from the Site in 2020.

The intended property uses for the proposed development are Institutional Use (church) and Community Use (community centre), as defined in O. Reg. 153/04, as amended.

A Phase Two ESA was conducted in 2022 based on the findings of the 2020 Phase One ESA report (Burnside, 2020). Additional sampling was conducted in 2023 to collect samples from the future road widening area (conveyance lands) and from the soil berm.

Analytical results were compared to the applicable Ministry of the Environment, Conservation and Parks (MECP) site condition standards listed in the document *Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act, Table 2: Full Depth Generic Site Condition Standards in a Potable Groundwater Condition*.

All of the analytical results for the parameters tested meet the applicable full depth generic site condition standards in accordance with O. Reg. 153/04 and are suitable for the intended property uses. The Phase Two ESA results are suitable for submitting a Record of Site Condition (RSC) submission to the MECP for Institutional Use (for the proposed church development) for filing on the Environmental Site Registry.

Future Road Widening (Conveyance Lands)

A portion of the Site will be dedicated (conveyed) to the municipality for future road widening. The lands to be conveyed for future road widening (conveyance lands) are described as Parts 2 & 4, Plan 43R41109. There are no groundwater monitoring wells within the future road widening area.

The future road widening portion of the Site is within the agricultural land where potential pesticide applications were identified (APEC-5). The current property use of the road widening area (conveyance lands) is Agricultural or Other Use.

The former diesel fuel storage tanks were situated approximately 100 m northeast of the road widening area. There were no fuel containers, no oil containers, and no waste items observed on the road widening portion of the Site.

There was no debris encountered or observed on the future road widening area while conducting the ESA field investigations.

The intended property use of the future road widening area (conveyance lands) for a road is Community Use, as defined in O. Reg. 153/04. All of the analytical results for the parameters tested meet the applicable full depth generic site condition standards in accordance with O. Reg. 153/04 and are suitable for the intended property use.

Record of Site Condition for Church Development

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Disclaimer

1.0 Introduction

R.J. Burnside & Associates Limited (Burnside) was retained by Saint Mark and Saint Demiana Coptic Orthodox Church to conduct a Phase Two Environmental Site Assessment (ESA) of the property described as Part of Lot 9, RCP 1542, Parts 1,2, 3, and 4, Plan 43R44109 (the "Site") located on Ninth Line in Mississauga, Ontario.

Project north is interpreted to be toward Burnhamthorpe Road, with Ninth Line running in a north-south direction. The Site is 3.93 hectares (9.72 acres) of land situated east of Ninth Line and south of Burnhamthorpe Road West. Figure 1 shows the Site location.

The purpose of the Phase Two ESA is to support an application to amend the Zoning By-law to permit construction of a church and construction of a community centre.

1.1 Property Information

The Site consists of a single parcel with a Property Identification Number (PIN). Property information is summarized in Table 1.

Table 1: Property Information

Registered Owner	Saint Mark and Saint Demiana Coptic Orthodox Church
Parcel PIN	13413-0112 (LT)
Legal Description on Parcel Register	PART OF LOT 9, RCP 1542; PARTS 1-4, PLAN 43R41109; TOGETHER WITH AN EASEMENT OVER PART LOT 9, RCP 1542, BEING PARTS 4 & 5, PLAN 43R37503 AS IN PR3122861; SUBJECT TO AN EASEMENT OVER PARTS 6 & 7, PLAN 43R37503 IN FAVOUR OF PART LOT 9, RCP 1542, BEING PARTS 1,2,3,4,5 & 8, PLAN 43R37503 AS IN PR3122861; CITY OF MISSISSAUGA
Municipal Address	0 Ninth Line, Mississauga, ON
Roll Number	05-15-0-010-00233-0000
Area	3.93 hectares (9.72 acres)

The parcel register and other property documents are provided in Appendix A.

1.2 Plan of Survey

The legal description of the Site refers to Plan 43R41109, which is a Plan of Survey prepared in November 2023 and signed by Merrill D. McLean, Ontario Land Surveyor. The land for future road widening is described as Parts 2 & 4, Plan 43R41109. The land to be retained for development is described as Parts 1 & 3, Plan 43R41109.

Plan 43R41109 is provided in Appendix B.

1.3 Current and Proposed Future Uses

There are seven (7) property use categories defined in O. Reg. 153/04:

1. Agricultural or Other Use.
2. Commercial Use.
3. Community Use.
4. Industrial Use.
5. Institutional Use.
6. Parkland Use.
7. Residential Use.

The majority of the Site is vacant, cultivated farmland (Agricultural and Other Use). A tree care company (Wildwood Tree Services Ltd.) uses the south part of the Site for storing vehicles, equipment, and wood (Industrial Use). A portion of the Site near the west boundary will be dedicated (conveyed) to the municipality for future road widening. Property use of the road widening area (conveyance lands) is Agricultural or Other Use.

For the proposed church development, the intended property use is Institutional Use.

For the proposed community centre, the intended property use is Community Use.

For the portion of the Site to be dedicated for future road widening, the intended property use for a road is Community Use.

A Phase Two ESA is required to support the filing of a Record of Site Condition (RSC) for the proposed future intended use to construct a church (Institutional Use).

1.4 Applicable Site Condition Standards

The applicable site condition standards to evaluate analytical results were determined based on the future intended property use and characteristics of the Site.

There are no water bodies on the Site. There are no areas of natural significance on the Site or within 30 m of the Site. The Site is not an environmentally sensitive site. Soil texture was determined to be fine textured, based on particle size/sieve analysis results.

The first phase of the proposed development is for a church (Institutional Use). At a later date, the proposed plan is to construct a community centre (Community Use).

The applicable site condition standards for the future intended property use as a church (Institutional Use) are listed in *Table 2: Full Depth Generic Site Condition Standards in a Potable Groundwater Condition* in the document *Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act.*

Based on particle size results, standards for fine textured soil conditions are applicable.

1.5 Client Contact Information

The owner of the Site is Saint Mark and Saint Demiana Coptic Orthodox Church. Contact information for the client/owner of the Site is listed in Table 2.

Table 2: Contact Information

Client/Owner	Saint Mark and Saint Demiana Coptic Orthodox Church Contact: Mr. Moheb Michael Phone: 416-888-8843 Email: mohebmichael@rogers.com Address: 462 Falgarwood Drive, Oakville, ON L6H 1N3

2.0 Background Information

The Site has been used for agricultural purposes since the late 1800s (Agricultural or Other Use). Most of the Site is still used as farmland (Agricultural or Other Use).

Since approximately 2004, the south portion of the Site (approximately 0.72 hectares) has been used by a tenant (tree care company) for storing vehicles, equipment, and wood. In 2017, a structure (Quonset hut) was constructed on the south part of the Site. The Quonset hut is used for cutting and storing wood (Industrial Use). There were formerly two diesel fuel aboveground storage tanks (ASTs) that were situated on the north side of the Quonset hut. Both ASTs were removed from the Site in 2020.

A portion of the Site will be dedicated (conveyed) to the municipality for future road widening described as Parts 2 & 4, Plan 43R41109. The future road widening portion of the Site is within the agricultural land where potential pesticide use was identified. There were no fuel containers, no oil containers, and no waste items observed on the road widening portion of the Site. There was no debris encountered or observed on the future road widening area while conducting the field investigations.

A soil berm on the east side of the Site appears to be soil from the agricultural field on the Site that was regraded to create a visual barrier between the Site and Highway 403. There does not appear to be any imported fill material on the Site.

The proposed development at the Site will connect to a municipal water supply.

Wastewater services are not currently available in this area. As such, the development will include a private subsurface sewage dispersal system. As the daily design flow is greater than 10,000 L/day, an Environmental Compliance Approval (ECA) will be required from the MECP.

2.1 Physical Setting

Topographic maps indicate the elevation of the Site ranges from approximately 178 to 185 m above sea level (asl), sloping from the berm (185 m asl) on the east side of the Site, down to low areas near the west boundary at Ninth Line. A topographic survey of the Site is provided in Appendix H.

The Site is within Joshua's Creek Watershed (Conservation Halton mapping) within the West Lake Ontario Shoreline Watershed (Ontario Watershed Boundaries), which drains southeastward into Lake Ontario, 8 km southeast of the Site. Groundwater flow in the Study Area is interpreted to flow toward the southeast (Figure 2).

There are no water bodies on the Site. The closest water body is a tributary to Joshua's Creek 120 m west of the Site. There were no mapped wetlands identified on the Site. A Provincially Significant Wetland (PSW) known as the North Oakville-Milton East Wetland Complex is located approximately 100 m south of the Site. Watershed maps are included in Appendix H.

Ontario Geological Survey mapping describes surficial soil as silty clay till. Bedrock in the area is red shale of the Queenston Formation. Shale bedrock in this area is typically found between 13 to 21 m below ground surface (bgs).

2.2 Past Investigations

A Phase One ESA was conducted by Burnside in 2020 which identified five Areas of Potential Environmental Concern (APECs) on the Site. A Phase Two ESA sampling program was conducted in 2022 based on the findings of the 2020 Phase One ESA.

An updated Phase One ESA was prepared in 2023, which recommended additional sampling to address review comments. There were no new APECs identified by the updated Phase One ESA report. Additional Phase Two ESA sampling was conducted in June 2023 to collect samples from the future road widening area and from the soil berm.

Ownership of the Site was transferred to Saint Mark and Saint Demiana Coptic Orthodox Church in December 2023. A revised/updated Phase One ESA was prepared in 2024 to revise ownership information, to revise the legal description of the Site (based on an updated Plan of Survey, Plan 43R41109), and to evaluate on-site and off-site records identified in an updated record search. There were no new APECs identified by the revised/updated Phase One ESA report.

This Phase Two ESA report includes the revised ownership information, the revised legal description, and the updated Plan of Survey (43R41109).

3.0 Scope of Investigation

3.1 Overview of Site Investigation

The Phase Two ESA was conducted in accordance with O. Reg. 153/04, as amended, and Canadian Standards Association (CSA) Standard Z769-00.

A Phase Two ESA was conducted in 2022. Additional sampling was conducted in June 2023. To prepare for the Phase Two ESA field investigations, a Health and Safety Plan was prepared and utility locates were completed prior to conducting drilling and soil sampling activities.

The scope of the investigation included the following steps:

- Prepared a Health and Safety Plan.
- Completed utility locates through Ontario One Call and a private locator.
- Drilled boreholes to examine subsurface conditions.
- Groundwater monitoring well installation.
- Collected soil samples.
- Collected groundwater samples from monitoring wells.
- Submitted samples for laboratory analysis of contaminants of potential concern.
- Evaluated site conditions by comparing laboratory analytical results to applicable full depth generic site condition standards for the intended property uses.
- Prepared a Phase Two ESA report.

3.2 Media Investigated

Soil and groundwater samples were collected from the APECs identified by the Phase One ESAto assess soil and groundwater quality at the Site for the potential presence of contaminants of potential concern.

3.3 Phase One Conceptual Site Model

A Phase One ESA conducted by Burnside in 2020 identified the following Areas of Potential Environmental Concern (APECs) at the Site:

- APEC-1 – South portion of the Site (former diesel fuel tanks, removed in 2020).
- APEC-2 – South portion of the Site (vehicle and equipment storage area).
- APEC-3 – South portion of the Site (debris and empty oil/fuel containers).
- APEC-4 – Near east boundary of the Site (soil berm along the east boundary).
- APEC-5 – North and central areas of the Site (pesticide use on farmland).

An updated Phase One ESA was prepared in 2023 to include comments on the future road widening area. No additional APECs were identified.

Additional sampling was recommended to address review comments.

Ownership of the Site was transferred to Saint Mark and Saint Demiana Coptic Orthodox Church in December 2023. A revised/updated Phase One ESA was prepared in 2024 to revise ownership information, to revise the legal description of the Site (based on the updated Plan of Survey, Plan 43R41109), and to evaluate on-site and off-site records identified by an updated record search. There were no new APECs identified by the updated/revised Phase One ESA report.

3.4 Deviations from Sampling and Analysis Plan

There were no deviations from the Sampling and Analysis Plan.

3.5 Impediments

There were no Site access issues or other physical impediments encountered during this sampling investigation.

4.0 Investigation Method

4.1 General

Three groundwater monitoring wells were installed on the Site in 2020 for a geotechnical investigation in conjunction with a hydrogeological study. In 2022, a Phase Two ESA was conducted to install an additional groundwater monitoring well and to collect soil and groundwater samples for analysis of Contaminants of Potential Concern. Additional Phase Two ESA sampling was conducted in 2023 to collect samples from the future road widening area and from the soil berm.

4.2 Drilling and Test Pits

A drilling program was conducted March 8, 2022, to collect soil samples and install a groundwater monitoring well near the south boundary of the Site.

The drilling contractor CMT Drilling Inc. advanced four boreholes with a 7822 DT Geoprobe direct push drill rig using the Macrocore MC5 dual tube sampling system. Specialized one-time use core sampling tubes constructed of clear PVC were used to recover continuous core soil samples in 1.5 m (5 ft.) lengths. This method of sampling prevents cross contamination as the soil sample is isolated within the PVC casing. Boreholes were advanced to 7.26 m (25 feet) bgs. Each recovered soil sample was examined for evidence of contamination (staining and odour) using visual and olfactory cues. Soil samples from BH1, BH2, BH4, and BH6 were collected by CMT for particle size analysis. Borehole BH8 was equipped with a groundwater monitoring well (MW8) to collect groundwater samples at the south end of the Site, near the south boundary.

The rationale for each sampling location is provided in Table 3.

Table 3: Rationale for Sampling Locations

Sample Location	Description	Rationale
BH1-B / MW1	north part of the Site	assess soil and groundwater quality in cultivated, agricultural field.
BH5-B / MW5	west side of the Site	assess soil and groundwater in agricultural field downgradient from former fuel storage
BH6-B / MW6	east side of the Site	assess soil and groundwater near former fuel storage tanks and debris east side.
BH8 / MW8	south part of the Site	assess soil and groundwater downgradient from equipment and former fuel storage
BR-1	east side of the Site	assess soil sampled from soil berm
BR-2	east side of the Site	assess soil sampled from soil berm
BR-3	east side of the Site	assess soil sampled from soil berm
RW-1	west side of the Site	assess soil in future road widening area
RW-2	west side of the Site	assess soil in future road widening area
RW-3	west side of the Site	assess soil in future road widening area

Figure 4 shows the borehole and groundwater monitoring well locations. Particle size reports are provided in Appendix C. Borehole logs are provided in Appendix D.

4.3 Soil Sampling

Soil samples were collected in accordance with the MECP's 1996 Sampling Guide "*Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*" and Burnside's Standard Operating Procedures (SOPs).

Soil samples were selected for laboratory analysis based upon field screening results, in the vicinity of the soil/water interface, or, in the absence of any "targeting rationale", on the basis of at least one sample per borehole. Soil samples were placed in laboratory supplied jars and submitted for analysis of contaminants of potential concern, such as:

- Petroleum Hydrocarbons (PHCs);
- Polycyclic Aromatic Hydrocarbons (PAHs);
- Polychlorinated Biphenyls (PCBs);
- Volatile Organic Compounds (VOCs);
- Acid/Base/Neutral (ABNs);
- Organochlorine Pesticides (OCs);
- Metals (includes pH analysis, Electrical Conductivity, and Sodium Adsorption Ratio).

Table 4 lists soil samples collected from boreholes in 2022, laboratory analysis, and sample depths.

Table 4: Soil Samples Collected from Boreholes

Sample ID	Laboratory Analysis	Sample Depth (m)	
		From	To
BH1-B	PHC F1-F4	3.2	3.4
	VOC	3.2	3.4
	METALS	2.0	2.2
	PCBs (+ DUP)	0.3	0.5
	PAHs	0.8	1.0
	ABNs	1.0	1.2
	OC PESTICIDES (+ DUP)	0.3	0.5
	PARTICLE SIZE SIEVE ANALYSIS	4.4	4.6
BH5-B	PHC F1-F4	4.6	4.8
	VOC	4.6	4.8
	METALS (+ DUP)	4.2	4.4
	PCBs	0.3	0.5
	PAHs	0.5	0.7
	ABNs	0.8	1.0
	OC PESTICIDES	0.3	0.5
BH6-B	PHC F1-F4 (+ DUP)	5.6	5.8
	VOC (+ DUP)	5.6	5.8
	METALS	2.8	3.0
	PCBs	0.8	1.0
	PAHs (+ DUP)	1.0	1.2
	ABNs	3.8	4.0
	OC PESTICIDES	0.8	1.0
BH8	PHC F1-F4 (+ DUP)	5.1	5.4
	VOC (+ DUP)	5.1	5.4
	METALS	1.7	1.9
	PCBs	0.5	0.7
	PAHs	0.3	0.5
	ABNs (+ DUP)	1.1	1.3
	OC PESTICIDES	0.5	0.7
	PARTICLE SIZE SIEVE ANALYSIS	6.5	6.7

Additional sampling was conducted in 2023 to collect samples from the berm near the east boundary and from the future road widening area near the west boundary. Soil samples were collected from test pits excavated on the berm and in the future road widening area.

The lands to be conveyed for future road widening (conveyance lands) are described as Parts 2 & 4, Plan 43R41109.

The future road widening portion of the Site is agricultural land where potential pesticide applications were identified (APEC-5). There was no debris encountered or observed on the future road widening area while conducting the field investigations.

Table 5 lists soil samples collected in 2023 from the berm and from the future road widening area, laboratory analysis, and sample depths.

Table 5: Soil Samples Collected from Test Pits

Sample ID	Laboratory Analysis	Sample Depth (m)	
		From	To
BR-3	OC PESTICIDES	0.3	0.5
	PCBs	0.3	0.5
	PHC F1-F4 (+ DUP)	0.3	0.5
	VOC (+ DUP)	0.3	0.5
BR-2	OC PESTICIDES	0.3	0.5
	PCBs	0.3	0.5
	PHC F1-F4	0.3	0.5
	VOC	0.3	0.5
	PAHs	0.3	0.5
	ABNs	0.3	0.5
	METALS	0.3	0.5
	PARTICLE SIZE SIEVE ANALYSIS	0.3	0.5
BR-3	OC PESTICIDES	0.3	0.5
	PCBs (+ DUP)	0.3	0.5
	PHC F1-F4	0.3	0.5
	VOC	0.3	0.5
RW-1	OC PESTICIDES	0.4	0.6
	PARTICLE SIZE SIEVE ANALYSIS	0.4	0.6
RW-2	OC PESTICIDES	0.4	0.6
	PARTICLE SIZE SIEVE ANALYSIS	0.4	0.6
RW-3	OC PESTICIDES (+ DUP)	0.3	0.5

4.4 Field Screening

Field screening was conducted by examining soil samples for evidence of environmental concerns using visual and olfactory cues, and noting signs of staining, sheen, or unusual odours. There were no PHC or VOC odours in the soil samples. There was no staining or sheen in any of the samples. There were no environmental concerns identified from field screening.

4.5 Groundwater Monitoring Well Installation

Three groundwater monitoring wells were installed at the Site in 2020 to measure static groundwater levels and to permit the collection of groundwater samples. A fourth monitoring well was installed on March 8, 2022, at APEC-2 at the south end of the Site. The well was constructed of 3.81 cm (1.5 inch) diameter PVC pipe.

Well screens in each well had been placed at an adequate depth to straddle the groundwater table (soil/water interface). Plastic casing (risers) extend from the screens to ground surface. The space between the screen and the borehole wall (annulus) was backfilled with sand. A bentonite seal was then placed above the sand pack to ground surface. Flush-mount metal casings were placed over each well for protection. Details for the monitoring wells are included in Appendix D. Photographs are in Appendix E.

4.6 Groundwater Sampling

Groundwater samples were collected on March 29, 2022 from the four monitoring wells MW1, MW5, MW6 and MW8. Groundwater sampling was conducted in accordance with the MECP's Sampling Guidance Document and Burnside's SOP.

Prior to sampling, static groundwater levels were measured at each monitoring well. After recording measurements (static water level, total well depth), groundwater was purged from each well location to prepare for sample collection. An elevation survey of the groundwater monitoring wells was conducted by CMT when the wells were installed.

Static water level measurements and elevations are listed in Table 6.

Table 6: Static Water Elevations

Monitoring Well	Well Screens	Static Water Level (m bgs)	Static Water Elevation (m asl)
MW1	5.79 to 7.62 m	1.64	178.79
MW5	5.18 to 6.71 m	0.08	178.64
MW6	6.10 to 7.62 m	4.31	178.29
MW8	4.57 to 7.62 m	2.76	177.82

m asl = metres above sea level
m bgs = metres below ground surface

Groundwater samples were collected using low flow sampling and decanted directly into laboratory supplied bottles (pre-charged with preservatives where applicable). Disposable nitrile gloves (one pair per sample) were used throughout the process of groundwater sample collection. Groundwater samples were submitted to AGAT Laboratories using the chain of custody form to request laboratory analysis of PHCs, VOCs, PCBs, Organochlorine Pesticides, metals, and inorganics (which includes pH).

4.7 Analytical Testing

Soil and groundwater samples were submitted to AGAT Laboratories using the chain of custody form to request laboratory analysis for contaminants of potential concern.

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

Analytical results for soil samples are listed in the Certificates of Analysis in Appendix F. Analytical results for groundwater are listed in the Certificates of Analysis in Appendix G.

4.8 Quality Assurance and Quality Control Measures

The following quality control measures were implemented during the field investigation and collection of soil and groundwater samples to ensure data quality.

4.8.1 Laboratory Supplied Sample Containers

Samples were collected in appropriate sample containers supplied by AGAT Laboratories. Where applicable, preservatives were added to the sample containers by AGAT prior to shipment to Burnside personnel.

4.8.2 Sampling Supplies and Procedures

To minimize cross contamination during the field investigation and collection of samples, the following measures were taken:

- Soil cores were extracted from boreholes using the Macrocore MC5 dual tube sampling system, one-time use core sampling tubes constructed of clear PVC to recover continuous core soil samples in 1.5 m (5 ft.) lengths. This sampling method prevents cross contamination as the soil sample is isolated within the PVC casing.
- New water sampling tubes were dedicated to each groundwater monitoring well.
- New nitrile gloves were worn by Burnside staff during each sample collection event.

4.8.3 QA/QC Samples

Duplicate samples were collected to ensure data quality. All sample containers that were returned to AGAT Laboratories for analysis were submitted under the chain of custody procedure. AGAT's quality assurance includes analysis of laboratory duplicate samples, method Blank Spike samples, and Matrix Spike samples.

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5.0 Review and Evaluation

5.1 Site Geology

A cross-section of the Site was prepared (Figure 8) based on the soil descriptions in the borehole logs. Figure 8 shows layers of clay and silt, silt till, and sand beneath the Site. Shale bedrock in this area is between 13 to 21 m bgs. Bedrock was not encountered during the drilling program. Borehole logs are provided in Appendix D.

5.2 Groundwater Elevations and Flow Direction

5.2.1 Regional Groundwater Flow

The Site is within Joshua's Creek Watershed (Conservation Halton mapping) in the West Lake Ontario Shoreline Watershed (Ontario Watershed Boundaries), which drains southeastward into Lake Ontario, approximately 8 km southeast of the Site.

Topographic elevation contours and the inferred direction of regional groundwater flow are shown on Figure 2. Watershed maps are provided in Appendix H.

5.2.2 Shallow Groundwater Flow

The direction of regional groundwater flow, shown on Figure 2, is toward the southeast. Static water levels measured in each monitoring well ranged from 0.08 to 4.31 m bgs. The direction of groundwater flow across the Site is interpreted to flow to the southeast.

5.3 Soil Texture

Soil samples were submitted for particle size/sieve analysis to characterize soil texture at the Site. The laboratory results indicate soil texture is fine textured.

Based on the particle size results, criteria for medium to fine textured soil conditions listed in MECP Table 2 SCS can be used to evaluate analytical results.

Particle size distribution reports are provided in Appendix C. Particle size analysis results are included in AGAT Certificates of Analysis in Appendix F.

5.4 Hydraulic Conductivity

Based on the results for particle size distribution and soil descriptions, hydraulic conductivity was estimated to be 1×10^{-8} cm/s for clayey silt / silt till layers beneath the Site and estimated to be 1×10^{-3} cm/s in the silty sand beneath the clay silt layers.

5.5 Soil Quality

Soil samples were submitted for laboratory analysis of PHCs, PAHs, VOCs, ABNs, Organochlorine Pesticides, PCBs, Metals and Inorganics. Analysis for Metals and Inorganics includes measuring pH, Electrical Conductivity (EC), and Sodium Adsorption Ratio (SAR). Duplicate samples of soil were collected for laboratory analysis of each parameter, as a quality assurance/quality control measure of analytical results.

Analytical results were compared to the applicable MECP standards for Institutional Use in the document *Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act,* listed in *Table 2: Full Depth Generic Site Condition Standards in Potable Groundwater Condition* (MECP Table 2 SCS). Particle size (sieve) analysis confirms criteria for fine soil texture is applicable.

Analytical results were also compared to the applicable standards for Community Use in MECP Table 2 SCS.

All of the soil results for the parameters tested are within the applicable site condition standards for Institutional Use listed in MECP Table 2 SCS. Soil quality is also suitable for Community Use. Laboratory Certificates of Analysis with soil results are provided in Appendix F.

5.5.1 Petroleum Hydrocarbons

Soil samples were analyzed for PHCs. A duplicate soil sample for PHCs was collected from BH6 at a depth of 4.8 m (15.7 ft). One of the samples collected at BH6 had a PHC F2 concentration a little higher than the applicable standard and had a detection of PHC F3, but no detection of PHC F1 or PHC F4. The duplicate soil sample collected from BH6 at the same depth had no detections of PHC F1, PHC F2, PHC F3, or PHC F4. The average PHC F2 concentration of sample BH6 and the duplicate BH6 sample is less than the applicable PHC F2 SCS. The analytical results indicate PHC results are within MECP Table 2 SCS for Institutional Use and for Community Use.

5.5.2 Volatile Organic Compounds

Soil samples were analyzed for VOCs. Analytical results confirm that concentrations of VOCs were within MECP Table 2 SCS for Institutional Use and for Community Use.

5.5.3 Acid/Base/Neutral Compounds

Soil samples were analyzed for Acid/Base/Neutral compounds (ABNs). Analytical results confirm that concentrations of ABNs were within MECP Table 2 SCS for Institutional Use and for Community Use.

5.5.4 Polycyclic Aromatic Compounds

Soil samples were analyzed for PAHs. Analytical results confirm that concentrations of PAHs were within MECP Table 2 SCS for Institutional Use and for Community Use.

5.5.5 Organochlorine Pesticides

Soil samples were analyzed for Organochlorine Pesticides. Analytical results confirm that Organochlorine Pesticides concentrations were within MECP Table 2 SCS for Institutional Use and for Community Use.

5.5.6 Polychlorinated Biphenyls

Soil samples were analyzed for Polychlorinated Biphenyls (PCBs). Analytical results confirm that concentrations of PCBs were within MECP Table 2 SCS for Institutional Use and for Community Use.

5.5.7 Metals and Inorganics

Soil samples were analyzed for Metals and Inorganics. Analytical results confirm that concentrations of Metals were within MECP Table 2 SCS for Institutional Use and Community Use. Analytical results for EC and SAR were within MECP Table 2 SCS. Soil pH values were within the range of pH 5.0 to 9.0 for surface soil and within the range of 5.0 to 11.0 for subsurface soil, which indicates that based on soil pH conditions, the Site is not considered to be an environmentally sensitive area.

5.6 Groundwater Quality

Groundwater samples were submitted for lab analysis of PHCs, VOCs, Organochlorine Pesticides, PCBs, Metals, and Inorganics. Duplicate samples of groundwater were collected for laboratory analysis of each parameter, as a quality assurance/quality control measure of analytical results.

Groundwater results were compared to MECP Table 2 SCS which lists standards for All Types of Property Uses, including the intended use for the church (Institutional Use), and other proposed uses for Community Use (community centre, future road widening).

The concentrations of all parameters tested in the groundwater samples collected from the Site were within MECP Table 2 SCS, indicating groundwater quality at the Site is suitable for Institutional Use and for Community Use.

Laboratory Certificates of Analysis for groundwater samples are provided in Appendix G.

5.6.1 Petroleum Hydrocarbons

Groundwater samples were analyzed for PHCs. Analytical results confirm that PHC concentrations were within MECP Table 2 SCS for All Types of Property Uses, which includes Institutional Use and Community Use.

5.6.2 Volatile Organic Compounds

Groundwater samples were analyzed for VOCs. Analytical results confirm that VOC concentrations were within MECP Table 2 SCS for All Types of Property Uses, which includes Institutional Use and Community Use.

5.6.3 Organochlorine Pesticides

Groundwater samples were analyzed for Organochlorine Pesticides. Analytical results confirm that Organochlorine Pesticides concentrations were within MECP Table 2 SCS for All Types of Property Uses, which includes Institutional Use and Community Use.

5.6.4 Polychlorinated Biphenyls

Groundwater samples were analyzed for Polychlorinated Biphenyls (PCBs). Analytical results confirm that concentrations of PCBs were within MECP Table 2 SCS for All Types of Property Uses, which includes Institutional Use and Community Use.

5.6.5 Metals and Inorganics

Groundwater samples were analyzed for Metals and Inorganics. Analytical results confirm that concentrations of metals were within MECP Table 2 SCS for All Types of Property Uses, which includes Institutional Use and Community Use.

6.0 Conclusions

A Phase Two ESA was conducted in 2022 based on the findings of the 2020 Phase One ESA report (Burnside, 2020). Additional sampling was conducted in 2023 to collect samples from the future road widening area (conveyance lands) and from the soil berm.

Analytical results were compared to the applicable Ministry of the Environment, Conservation and Parks (MECP) site condition standards for Institutional Use listed in the document *Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act, Table 2: Full Depth Generic Site Condition Standards in a Potable Groundwater Condition*.

Analytical results were also compared to the applicable standards for Community Use for the future community centre and future road widening.

All of the analytical results for the parameters tested meet the applicable full depth generic site condition standards in accordance with O. Reg. 153/04 and are suitable for the intended property uses.

6.1 Record of Site Condition Based on Phase One and Phase Two ESA

The majority of the Site is cultivated farmland (Agricultural and Other Use). The future intended property uses of the Site are Institutional Use (church) and Community Use (community centre).

All parameters tested in the soil and groundwater samples were within the applicable standards for Institutional Use and for Community Use listed in MECP Table 2 SCS.

The Phase Two ESA results indicate the site conditions are suitable for submitting a Record of Site Condition (RSC) submission to the MECP for Institutional Use (for the proposed church development) for filing on the Environmental Site Registry.

7.0 Recommendations

No further environmental assessment work is recommended.

For the proposed construction of a church at the Site, it is recommended that a RSC submission for Institutional Use be prepared and submitted to the MECP for filing on the Environmental Site Registry.

8.0 Qualifications of Assessors

The following staff conducted the work presented herein:

Caitlin Dermott, B.Sc.

Caitlin Dermott is an Environmental Scientist with experience in environmental investigations, sample collection, and scientific research. Ms. Dermott has studied geography, geology, biology, and chemistry, and is familiar with the requirements of O. Reg. 153/04 for conducting Phase One and Phase Two ESAs. For this project, Caitlin Dermott collected samples, and measured static water levels.

Sarah Beney, B.Sc., G.I.T.

Sarah Beney is an Environmental Scientist with experience in environmental investigations, sample collection, and excess soil. Sarah Beney is registered as a Geoscientist-in-Training (G.I.T.) with Professional Geoscientists Ontario. Ms. Beney has studied geology and is familiar with the requirements of O. Reg. 153/04 for conducting Phase One and Phase Two ESAs. Sarah collected samples for this project.

Kathleen E. Langstaff, B.Sc., P.Geo., QP_{ESA}

Kathleen Langstaff is a Licensed Professional Geoscientist (P.Geo.) registered with Professional Geoscientists Ontario. Kathleen has over 25 years of experience in environmental and geological investigations. Ms. Langstaff is a Qualified Person (QP) as per O. Reg. 153/04. Kathleen has conducted numerous Phase One and Phase Two ESAs as per O. Reg. 153/04, in support of a Record of Site Condition at a variety of sites. Her project experience includes soil investigations, groundwater studies, drilling programs, test pit programs, tank removals, excavation of contaminated material and remediation. For this project, Kathleen Langstaff conducted the Site visit and prepared the drilling and sampling plan, reviewed the analytical results, and prepared the Phase Two ESA report.

R.J. Burnside & Associates Limited

Burnside was founded in 1970 and currently comprises over 400 professional, technical, and support staff providing a wide range of environmental and engineering services to both the public and private sectors, domestically and internationally. Burnside provides a wide range of specialized ESA services.

9.0 Limitations and Use of Report

R.J. Burnside & Associates Limited confirms that it has completed a Phase Two ESA at the Site described as Part of Lot 9, RCP 1542, Parts 1,2, 3, and 4, Plan 43R44109 and has made the findings and conclusions provided herein.

The conclusions in this report are professional opinions based upon observations of the Site conditions existing at the time of our assessment. This report has been prepared in accordance with industry accepted environmental study and/or engineering practices for a Phase Two ESA in accordance with the requirements of Ontario Regulation 153/04, as amended, and CSA Standard Z769-00.

It should be noted that some of the information and resulting conclusions of a Phase Two ESA are time sensitive. Burnside does not guarantee the accuracy and reliability of the information provided by other persons or agencies and does not claim responsibility for undisclosed or non-visible environmental concerns that may result in costs for environmental clean-up or remediation.

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

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

10.0 References

Canadian Standards Association. CSA Standard Z769-00 Phase II Environmental Site Assessment.

Ontario Ministry of the Environment. Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act, Table 2: Full Depth Generic Site Condition Standards in a Potable Groundwater Condition. April 15, 2011.

Ontario Geological Survey. 1:250,000 scale. Bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release – Data 126 – Revision 1. 2011.

Ontario Geological Survey. 1:50,000 scale. Surficial Geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release – Data 128 – Revised. 2010.

Ontario Regulation 153/04, as amended. January 1, 2024.

R.J. Burnside & Associates Limited. 2020. Hydrogeological Assessment. Ninth Line, Mississauga, Ontario, March 9, 2020.

R.J. Burnside & Associates Limited. 2020. Phase One Environmental Site Assessment. Ninth Line, Mississauga, Ontario, April 9, 2020.

R.J. Burnside & Associates Limited. 2020. Phase One Environmental Site Assessment. Ninth Line, Mississauga, Ontario, June 28, 2023.

R.J. Burnside & Associates Limited. 2020. Phase One Environmental Site Assessment. Ninth Line, Mississauga, Ontario, April 29, 2024.

R.J. Burnside & Associates Limited. 2023. Functional Servicing and Stormwater Management Report. Ninth Line, Mississauga, Ontario, May 2023.

R.J. Burnside & Associates Limited. 2023. Phase Two Environmental Site Assessment. Ninth Line, Mississauga, Ontario, November 15, 2023.

BURNSIDE
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Figures

KEY MAP OF ONTARIO

BURNSIDE

Client

ST. MARK AND ST. DEMIANA COPTIC ORTHODOX CHURCH

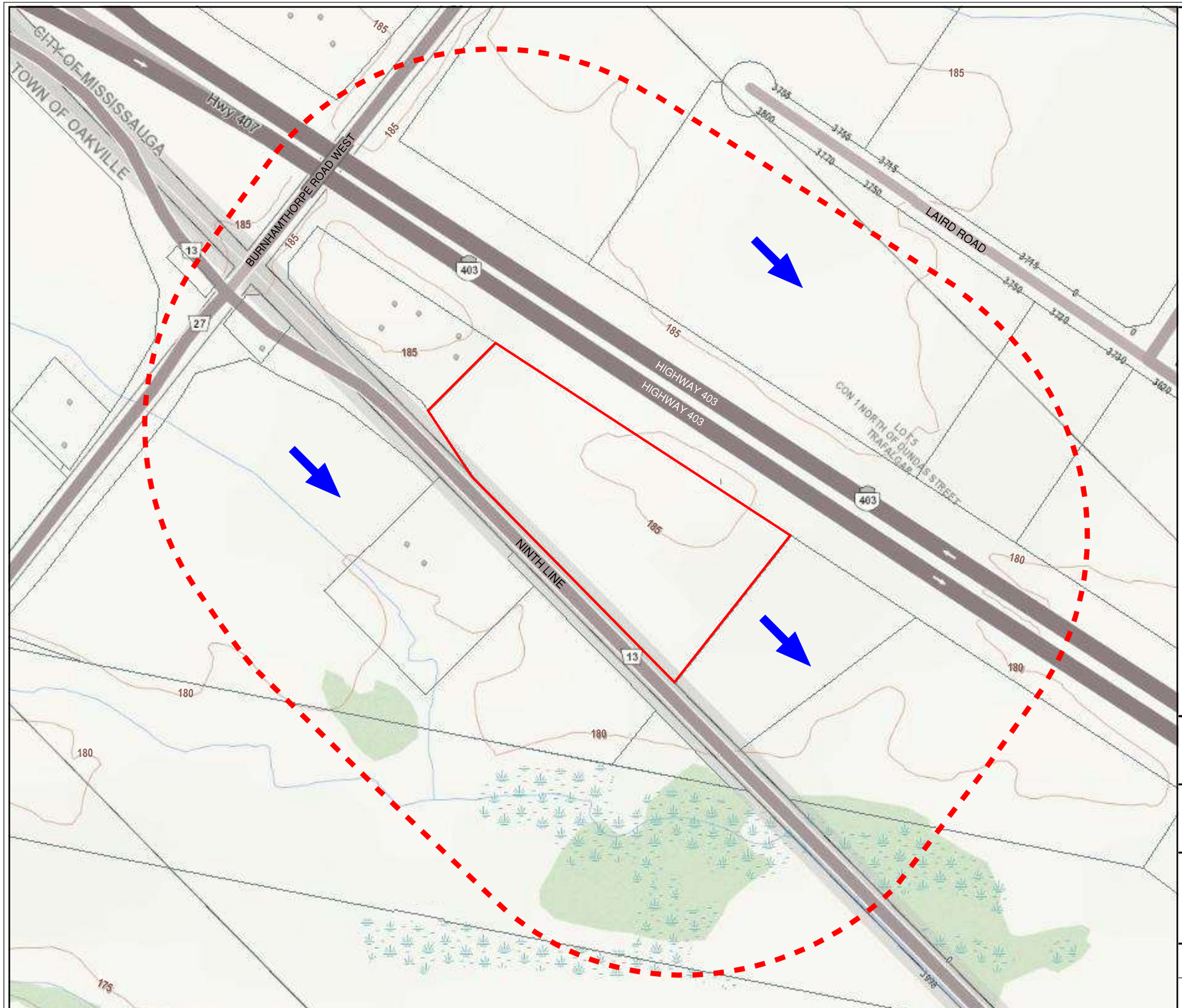
Figure Title

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

SITE LOCATION

Drawn	Checked	Date	Figure No.
CD	KL	JANUARY 2024	1
Scale		Project No.	
N.T.S.		300044049.2000	

File: Y:\044049 - Ninth Line Mississauga\03_ProductionDwg\



LEGEND

- APPROXIMATE SITE BOUNDARY
- STUDY AREA (250 m Buffer)
- DIRECTION OF REGIONAL GROUNDWATER FLOW

0

Air Photo Source: Background 2021 Air Photo First Base Solutions.

N

0 50 100 150 200 250

Metres

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ST. MARK AND ST. DEMIANA COPTIC ORTHODOX CHURCH

Figure Title

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

REGIONAL PLAN

Drawn	Checked	Date	Figure No.
CD	KL	JANUARY 2024	**2**
Scale		Project No.	
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LEGEND

APPROXIMATE SITE BOUNDARY

Air Photo Source: Background 2021 Air Photo First Base Solutions.

N

0 25 50 75 100

Metres

BURNSIDE

Client

ST. MARK AND ST. DEMIANA COPTIC ORTHODOX CHURCH

Figure Title

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

SITE PLAN

Drawn	Checked	Date	Figure No.
CD	KL	JANUARY 2024	3
Scale		Project No.	
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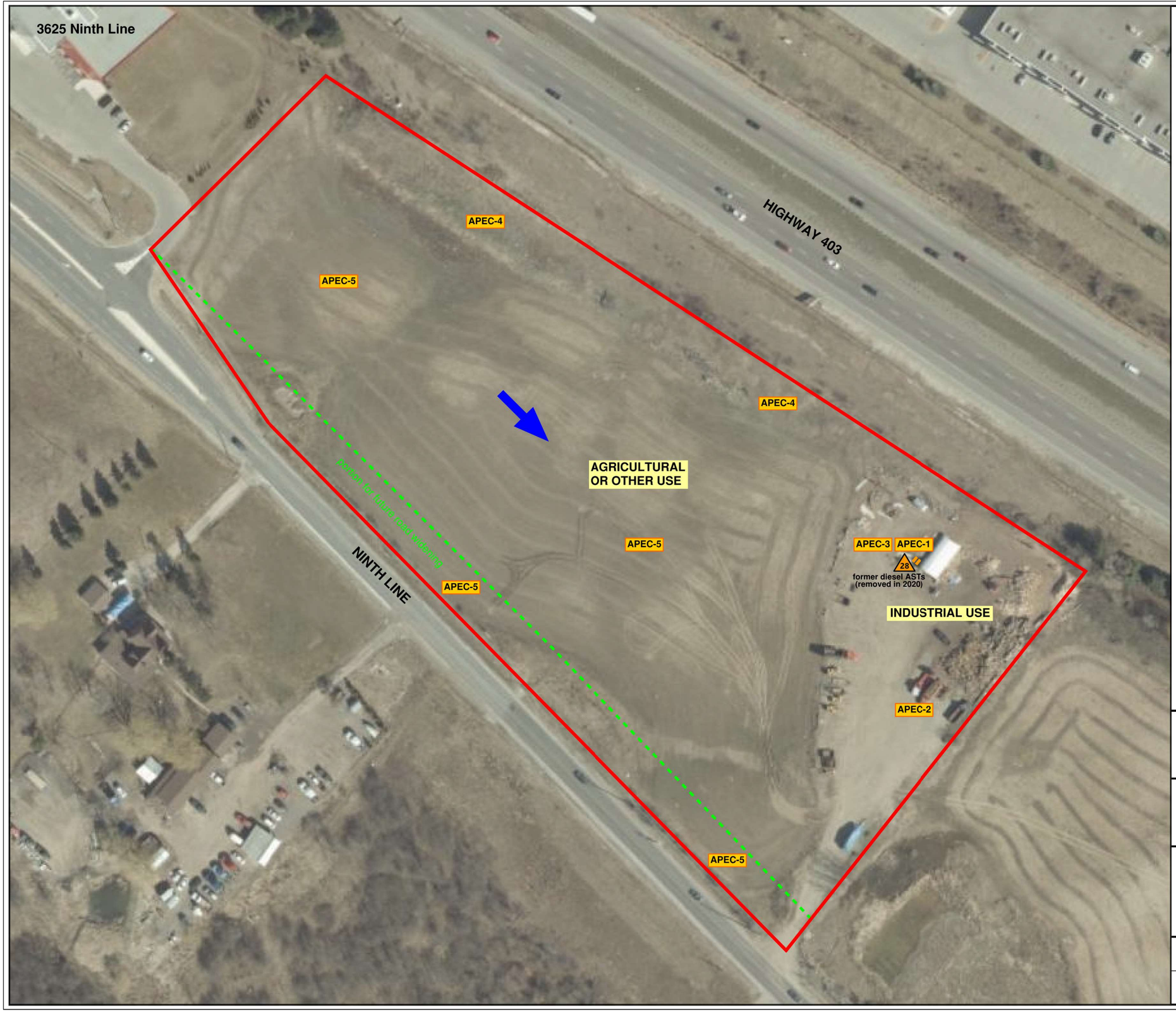

LEGEND

- APPROXIMATE SITE BOUNDARY
- BOUNDARY BETWEEN LANDS TO BE RETAINED AND PORTION OF SITE FOR FUTURE ROAD WIDENING
- DIRECTION OF REGIONAL GROUNDWATER FLOW
- ABOVEGROUND STORAGE TANK (AST), removed in 2020
- POTENTIALLY CONTAMINATING ACTIVITY (PCA)
  PCA 28. Gasoline and Associated Products Storage in Fixed Tanks
- APEC-1 AREA OF POTENTIAL ENVIRONMENTAL CONCERN

Current property uses of the Site are:

- AGRICULTURAL OR OTHER USE
  - Most of the Site is vacant land used for crop farming.
- INDUSTRIAL USE
  - The southeast part of the Site is used for cutting wood and for storing vehicles, equipment, wood, and mulch. A temporary structure (Quonset hut) is used for storing wood.

A Phase Two ESA was conducted to collect samples from the following Areas of Potential Environmental Concern (APECs):

APEC-1 – South portion of Site (former tanks, removed in 2020).
APEC-2 – South portion of Site (vehicle/equipment/wood storage).
APEC-3 – South portion of Site (debris/empty oil containers).
APEC-4 – Near east boundary of Site (soil berm).
APEC-5 – North and central areas of Site (agricultural pesticide use).

Air Photo Source: Background 2021 Air Photo First Base Solutions.

N

0 25 50 75 100
Metres

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Figure Title

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

Drawn	Checked	Date	Figure No.
CD	KL	JANUARY 2024	4
Scale		Project No.	
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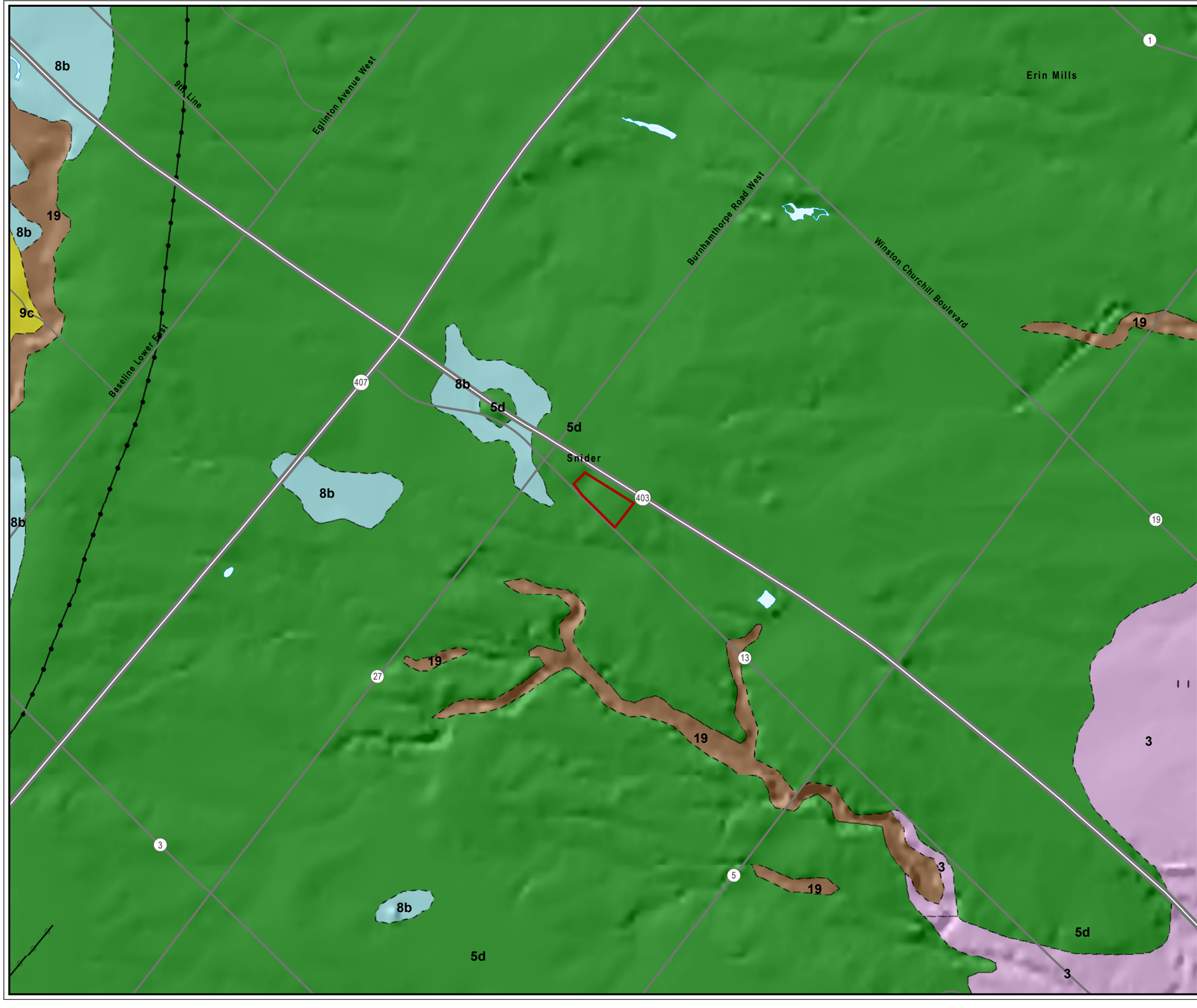

LEGEND

- Approximate Site Boundary
- Freeway
- Arterial / Collector Road
- Local Road
- Waterbody
- 3: Paleozoic bedrock
- 5d: Till: Glaciolacustrine-derived silty to clayey till
- 8b: Fine-textured glaciolacustrine deposits: Interbedded flow till, rainout deposits and silt and clay
- 9c: Coarse-textured glaciolacustrine deposits: Foreshore-basinal deposits
- 19: Modern alluvial deposits
- Unit Contact Boundary
- End Moraine
- Moraine (Minor)
- Bedrock Pressure Release Ridge (Pop-up)

Sources:

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

Datum: North American 1983 CSRS

Coord. System: NAD 1983 CSRS UTM Zone 17N

N

0 200 400 600 800 1,000 1,200 1,400

Metres

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Client

ST. MARK AND ST. DEMIANA COPTIC ORTHODOX CHURCH

Figure Title

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

SURFICIAL GEOLOGY

Drawn	Checked	Date	Figure No.
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Scale		Project No.	
1:20,000		300044049.2000	

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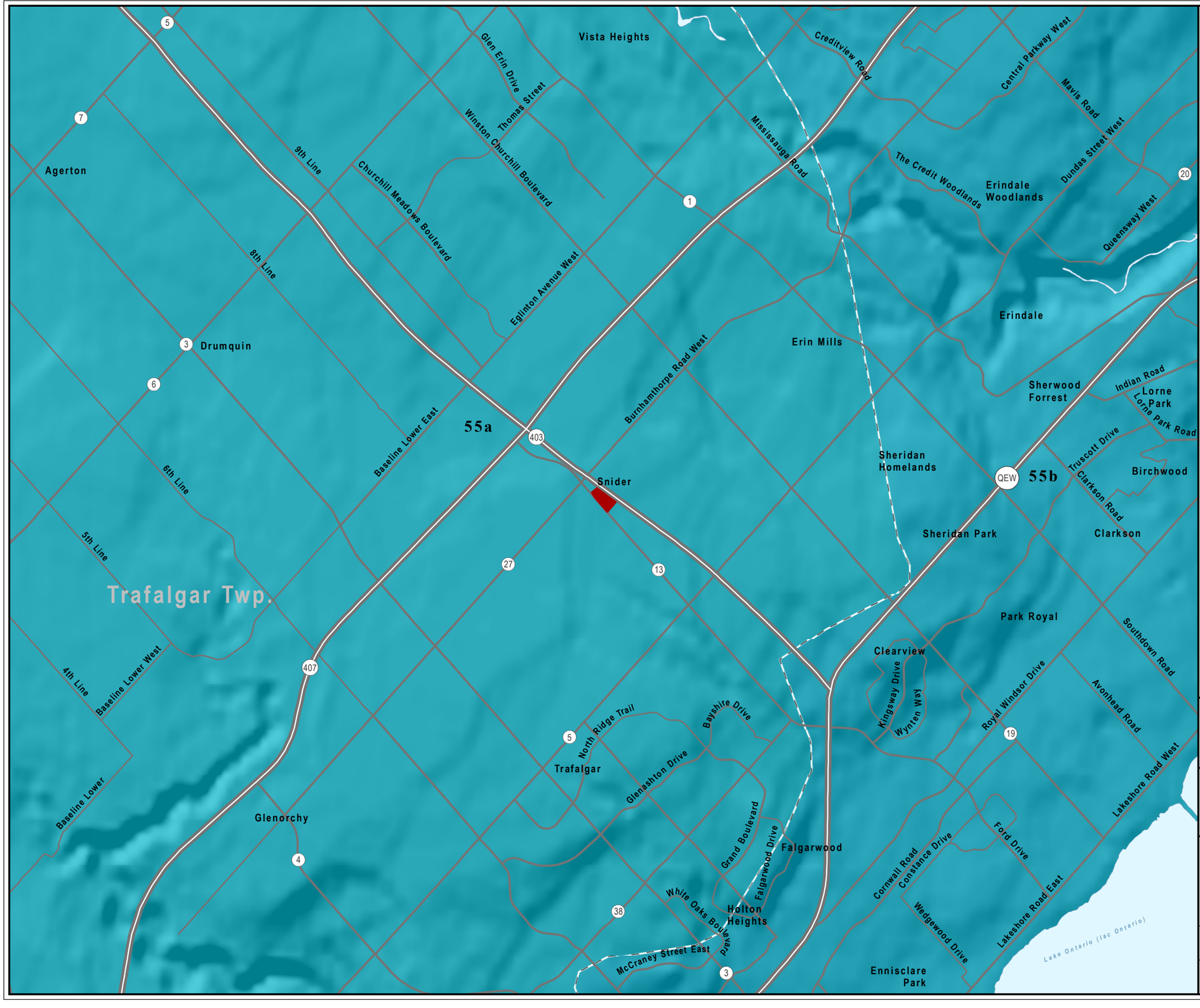

LEGEND

- Approximate Site Boundary
- Freeway
- Arterial / Collector Road
- Local Road
- Waterbody

UPPER ORDOVICIAN - 55 Shale, limestone, dolostone, siltstone

- 55a Queenston Fm.
- 55b Georgian Bay Fm.; Blue Mountain Fm.; Billings Fm.; Collingwood Mb.; Eastview Mb.

MinStr:

Sources:

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

Datum: North American 1983 CSRS

Coord. System: NAD 1983 CSRS UTM Zone 18N

N

0 1 2 3 4

Kilometers

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Client

ST. MARK AND ST. DEMIANA COPTIC ORTHODOX CHURCH

Figure Title

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

BEDROCK GEOLOGY

Drawn	Checked	Date	Figure No.
CD	KL	JANUARY 2024	6
Scale		Project No.	
1:50,000		300044049.2000	

File Path: Y:\044049 - Ninth Line Mississauga\13_GIS\Phase One ESA\044049 PH1 ESA Bedrock Geology.mxd

LEGEND

- APPROXIMATE SITE BOUNDARY
- BOUNDARY BETWEEN LANDS TO BE RETAINED AND PORTION OF SITE FOR FUTURE ROAD WIDENING
- BOREHOLE / GROUNDWATER MONITORING WELL
- BOREHOLE (NO MONITORING WELL)
- TESTPIT
- DIRECTION OF REGIONAL GROUNDWATER FLOW
- INTERPRETED GROUNDWATER FLOW DIRECTION
- CROSS-SECTION ORIENTATION (FIGURE 8)

A Phase Two ESA was conducted by Burnside in 2022 to collect samples from Areas of Potential Environmental Concern (APECs) identified by the 2020 Phase One ESA (Burnside, 2020). Additional samples were collected along the soil berm and within the future road widening area in 2023.

The intended property use of the retained lands is Institutional Use. The intended property use of future road widening is Community Use.

Analytical results for contaminants of potential concern (COPC) were compared to the applicable MECP standards listed in the document *Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act,* in *Table 2: Full Depth Generic Site Condition Standards in a Potable Groundwater Condition* (Table 2 SCS). Fine soil texture conditions are applicable. All of the results were within the applicable standards listed in MECP Table 2 SCS.

The Phase Two ESA analytical results meet the applicable full depth generic site condition standards in accordance with O. Reg. 153/04 and are suitable for the intended property use.

Air Photo Source: Background, 2021 Air Photo, First Base Solutions.

Ground Elevation Contours: Topographic Survey, May 23, 2019, Stantec Geomatics Ltd.

N

0 25 50 75 100

Metres

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ST. MARK AND ST. DEMIANA COPTIC ORTHODOX CHURCH

Figure Title

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

SAMPLE LOCATIONS & SITE CONDITONS

Drawn	Checked	Date	Figure No.
CD	KL	JANUARY 2024	7
Scale		Project No.	
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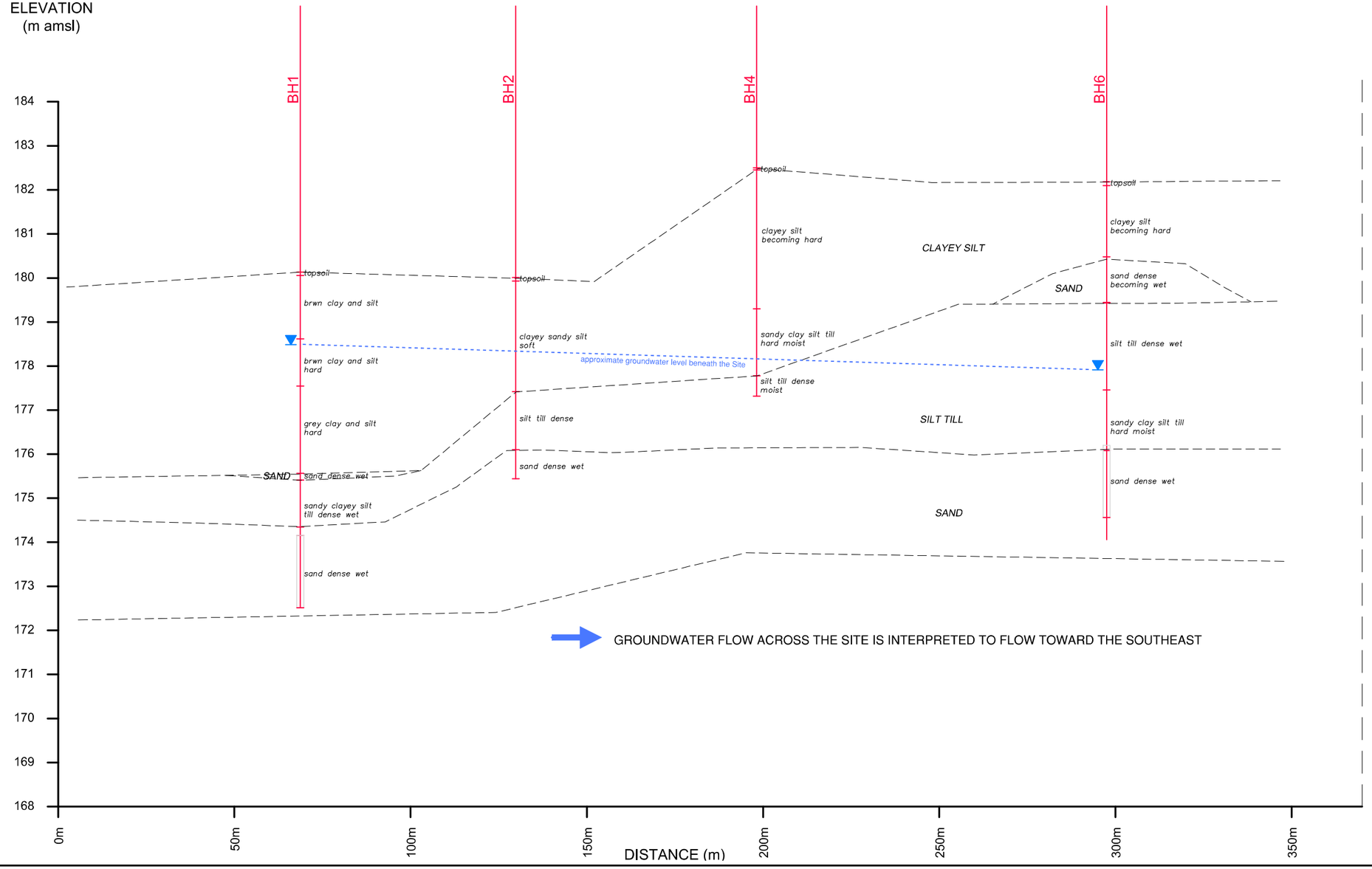
File: \\ELMO\Shared Work Areas\044049 - Ninth Line Mississauga\

A
NORTHWEST

A'
SOUTHEAST

ELEVATION
(m amsl)



LEGEND

5893 — WELL LOCATION & NUMBER

EXISTING GROUND PROFILE

silty sand — GEOLOGICAL STRATIGRAPHY

STATIC WATER LEVEL
(February 13, 2020)

WELL SCREEN

Horizontal Scale: 1:1,000
Vertical Scale: 1:80
Vertical Exaggeration: 12.5x

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Client
ST. MARK AND ST. DEMIANA COPTIC ORTHODOX CHURCH

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

Drawn	Checked	Date	Figure No.
CD	KL	JANUARY 2024	8
Scale		Project No.	
AS SHOWN		300044049.2000	

File: Y:\044049 - Ninth Line Mississauga\

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Appendix A

Property Information Records

PROPERTY DESCRIPTION: PART OF LOT 9, RCP 1542; PARTS 1-4, PLAN 43R41109; TOGETHER WITH AN EASEMENT OVER PART LOT 9, RCP 1542, BEING PARTS 4 & 5, PLAN 43R37503 AS IN PR3122861; SUBJECT TO AN EASEMENT OVER PARTS 6 & 7, PLAN 43R37503 IN FAVOUR OF PART LOT 9, RCP 1542, BEING PARTS 1,2,3,4,5 & 8, PLAN 43R37503 AS IN PR3122861; CITY OF MISSISSAUGA

PROPERTY REMARKS: PLANNING ACT CONSENT IN DOCUMENT PR4281750.

ESTATE/QUALIFIER: FEE SIMPLE ABSOLUTE

RECENTLY: DIVISION FROM 13413-0110

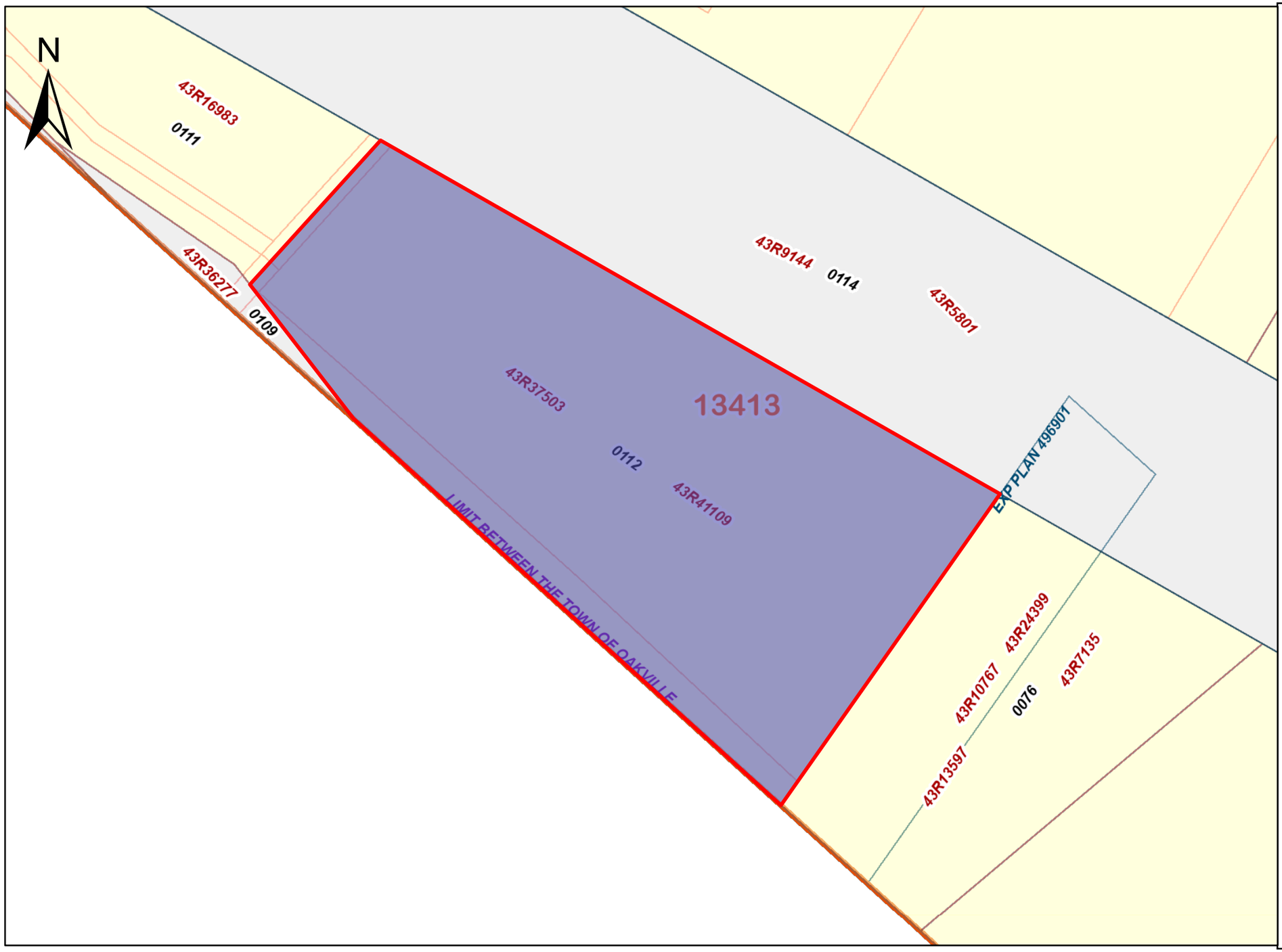
PIN CREATION DATE: 2017/05/15

OWNERS' NAMES CAPACITY SHARE

SAINT MARK AND SAINT DEMIANA COPTIC ORTHODOX CHURCH ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2017/05/15 ***						
FAD1743	1984/08/10	APL FIRST REGN			THE ERIN MILLS DEVELOPMENT CORPORATION	C
LT1043388	1989/08/24	CHARGE		*** DELETED AGAINST THIS PROPERTY *** THE ERIN MILLS DEVELOPMENT CORPORATION	THE BANK OF NOVA SCOTIA	
	REMARKS: OTHER LANDS					
LT1043389	1989/08/24	CHARGE		*** DELETED AGAINST THIS PROPERTY *** THE ERIN MILLS DEVELOPMENT CORPORATION	THE BANK OF NOVA SCOTIA	
	REMARKS: OTHER LANDS					
LT1302810	1992/03/12	NOTICE OF LEASE		*** DELETED AGAINST THIS PROPERTY ***		
LT1934589	1999/04/28	NOTICE OF LEASE		*** DELETED AGAINST THIS PROPERTY *** THE ERIN MILLS DEVELOPMENT CORPORATION	ROGERS CANTEL INC.	
PR661337	2004/06/23	NOTICE OF LEASE		*** DELETED AGAINST THIS PROPERTY *** THE ERIN MILLS DEVELOPMENT CORPORATION	ROGERS WIRELESS INC.	
	REMARKS: LT1302810,LT1934589					
PR2820285	2015/11/12	NOTICE		*** DELETED AGAINST THIS PROPERTY *** THE ERIN MILLS DEVELOPMENT CORPORATION	THE CORPORATION OF THE CITY OF MISSISSAUGA	
PR2820286	2015/11/12	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** THE BANK OF NOVA SCOTIA	THE CORPORATION OF THE CITY OF MISSISSAUGA	
	REMARKS: LT1043388 TO PR2820285 - DELETED PER PR3427204 B MCCOLL 2019/01/07					
PR2820287	2015/11/12	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** THE BANK OF NOVA SCOTIA	THE CORPORATION OF THE CITY OF MISSISSAUGA	
	REMARKS: LT1043389 TO PR2820285 - DELETED PER PR3427204 B MCCOLL 2019/01/07					

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
43R37503	2017/01/13	PLAN REFERENCE				C
PR3122862	2017/05/08	NOTICE	$2	THE ERIN MILLS DEVELOPMENT CORPORATION		C
PR3427204	2018/12/24	LR'S ORDER		*** COMPLETELY DELETED *** LAND REGISTRAR, PEEL LAND REGISTRY OFFICE		
	REMARKS: AMEND DOC POOL, REMOVE PR2820285					
PR4139620	2022/11/14	CAUTION-LAND		*** COMPLETELY DELETED *** THE ERIN MILLS DEVELOPMENT CORPORATION	YOUSSEF, GEORGE MINA	
	REMARKS: EXPIRES 60 DAYS FROM 2022/11/14					
PR4275277	2023/11/21	APL DEPOSIT PLAN		*** COMPLETELY DELETED ***		
43R41109	2023/11/22	PLAN REFERENCE				C
	REMARKS: PR4275277.					
PR4280952	2023/12/06	APL (GENERAL)		*** COMPLETELY DELETED *** THE ERIN MILLS DEVELOPMENT CORPORATION		
	REMARKS: DELETE LT1302810, LT1934589 & PR661337					
PR4281750	2023/12/07	TRANSFER	$9,718,000	THE ERIN MILLS DEVELOPMENT CORPORATION	SAINT MARK AND SAINT DEMIANA COPTIC ORTHODOX CHURCH	C
PR4281751	2023/12/07	CHARGE	$7,774,400	SAINT MARK AND SAINT DEMIANA COPTIC ORTHODOX CHURCH	THE ERIN MILLS DEVELOPMENT CORPORATION	C
PR4281752	2023/12/07	DISCH OF CHARGE		*** COMPLETELY DELETED *** THE BANK OF NOVA SCOTIA		
	REMARKS: LT1043388.					
PR4281753	2023/12/07	DISCH OF CHARGE		*** COMPLETELY DELETED *** THE BANK OF NOVA SCOTIA		
	REMARKS: LT1043389.					



ServiceOntario

PRINTED ON 29 JAN, 2024 AT 10:14:29
FOR KATHLEEN

SCALE

0 10 20 30 40 50 60
meters

PROPERTY INDEX MAP

PEEL(No. 43)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED

Ontario

Properties

PIN	13413 - 0112 LT	*Interest/Estate*	Fee Simple	☑ Redescription
Description	PART OF LOT 9, REGISTRAR'S COMPILED PLAN 1542, BEING PARTS 1, 2, 3 AND 4, ON PLAN 43R-41109; TOGETHER WITH AN EASEMENT OVER PART LOT 9, RCP 1542, BEING PARTS 4 & 5, PLAN 43R37503 AS IN PR3122861; SUBJECT TO AN EASEMENT OVER PARTS 3 AND 4, PLAN 43R41109 IN FAVOUR OF PART LOT 9, RCP 1542, BEING PARTS 1,2,3,4,5 & 8, PLAN 43R37503 AS IN PR3122861; CITY OF MISSISSAUGA			
Address	MISSISSAUGA			

Consideration

Consideration $9,718,000.00

Transferor(s)

The transferor(s) hereby transfers the land to the transferee(s).

Name THE ERIN MILLS DEVELOPMENT CORPORATION

Address for Service 2300 Steeles Avenue West, Suite 220
Vaughan, Ontario, L4K 5X6

A person or persons with authority to bind the corporation has/have consented to the registration of this document.

This document is not authorized under Power of Attorney by this party.

Transferee(s) *Capacity* *Share*

Name SAINT MARK AND SAINT DEMIANA COPTIC ORTHODOX CHURCH — Registered Owner

Address for Service 462 Falgarwood Dr.
Oakville ON
L6H 1N3

Statements

The Committee of Adjustment of The Corporation of the City of Mississauga has consented to the severance herein. See Schedules

Signed By

Michael Costante Luigi Volpatti — 7501 Keele Street, Ste. 200, Concord, L4K 1Y2 — acting for Transferor(s) — Signed — 2023 12 06

Tel 905-760-2600

Fax 905-760-2900

I am the solicitor for the transferor(s) and I am not one and the same as the solicitor for the transferee(s).

I have the authority to sign and register the document on behalf of the Transferor(s).

Lee Shandi Silber — 181 Bay St., Suite 1800, Toronto, M5J 2T9 — acting for Transferee(s) — Signed — 2023 12 07

Tel 416-863-1500

Fax 416-863-1515

I am the solicitor for the transferee(s) and I am not one and the same as the solicitor for the transferor(s).

I have the authority to sign and register the document on behalf of the Transferee(s).

Submitted By

AIRD & BERLIS LLP — 181 Bay St., Suite 1800, Toronto, M5J 2T9 — 2023 12 07

Tel 416-863-1500

Fax 416-863-1515

Fees/Taxes/Payment

Statutory Registration Fee	$69.95
Provincial Land Transfer Tax	$190,835.00

Fees/Taxes/Payment

Total Paid	$190,904.95

File Number

Transferor Client File Number :	SIL223081 - EMDC S/T YOUSSEF, IN TRUST

LAND TRANSFER TAX STATEMENTS

In the matter of the conveyance of: 13413 - 0112 PART OF LOT 9, REGISTRAR'S COMPILED PLAN 1542, BEING PARTS 1, 2, 3 AND 4, ON PLAN 43R-41109; TOGETHER WITH AN EASEMENT OVER PART LOT 9, RCP 1542, BEING PARTS 4 & 5, PLAN 43R37503 AS IN PR3122861; SUBJECT TO AN EASEMENT OVER PARTS 3 AND 4, PLAN 43R41109 IN FAVOUR OF PART LOT 9, RCP 1542, BEING PARTS 1,2,3,4,5 & 8, PLAN 43R37503 AS IN PR3122861; CITY OF MISSISSAUGA

BY: THE ERIN MILLS DEVELOPMENT CORPORATION

TO: SAINT MARK AND SAINT DEMIANA COPTIC ORTHODOX CHURCH Registered Owner

1. FR. GEORGE (MINA) YOUSSEF AND MOHEB MICHAEL

I am

- ☐ (a) A person in trust for whom the land conveyed in the above-described conveyance is being conveyed;
- ☐ (b) A trustee named in the above-described conveyance to whom the land is being conveyed;
- ☐ (c) A transferee named in the above-described conveyance;
- ☑ (d) The authorized agent or solicitor acting in this transaction for SAINT MARK AND SAINT DEMIANA COPTIC ORTHODOX CHURCH described in paragraph(s) (c) above.
- ☐ (e) The President, Vice-President, Manager, Secretary, Director, or Treasurer authorized to act for _____ described in paragraph(s) (_) above.
- ☐ (f) A transferee described in paragraph (_) and am making these statements on my own behalf and on behalf of _____ who is my spouse described in paragraph (_) and as such, I have personal knowledge of the facts herein deposed to.

2. I have read and considered the definition of "single family residence" set out in subsection 1(1) of the Act. The land being conveyed herein:
does not contain a single family residence or contains more than two single family residences.

3. **The total consideration for this transaction is allocated as follows:**

(a) Monies paid or to be paid in cash	$9,718,000.00
(b) Mortgages (i) assumed (show principal and interest to be credited against purchase price)	$0.00
(ii) Given Back to Vendor	$0.00
(c) Property transferred in exchange (detail below)	$0.00
(d) Fair market value of the land(s)	$0.00
(e) Liens, legacies, annuities and maintenance charges to which transfer is subject	$0.00
(f) Other valuable consideration subject to land transfer tax (detail below)	$0.00
(g) Value of land, building, fixtures and goodwill subject to land transfer tax (total of (a) to (f))	$9,718,000.00
(h) VALUE OF ALL CHATTELS -items of tangible personal property	$0.00
(i) Other considerations for transaction not included in (g) or (h) above	$0.00
(j) Total consideration	$9,718,000.00

6. Other remarks and explanations, if necessary.

1. The information prescribed for purposes of section 5.0.1 of the Land Transfer Tax Act is not required to be provided for this conveyance.

2. The transferee(s) has read and considered the definitions of "designated land", "foreign corporation", "foreign entity", "foreign national", "Greater Golden Horseshoe Region", "specified region", "spouse" and "taxable trustee" as set out in subsection 1(1) of the Land Transfer Tax Act and O. Reg 182/17. The transferee(s) declare that this conveyance is not subject to additional tax as set out in subsection 2(2.1) of the Act because:

3. (c) The transferee(s) is not a "foreign entity" or a "taxable trustee".

4. The transferee(s) declare that they will keep at their place of residence in Ontario (or at their principal place of business in Ontario) such documents, records and accounts in such form and containing such information as will enable an accurate determination of the taxes payable under the Land Transfer Tax Act for a period of at least seven years.

5. The transferee(s) agree that they or the designated custodian will provide such documents, records and accounts in such form and containing such information as will enable an accurate determination of the taxes payable under the Land Transfer Tax Act, to the Ministry of Finance upon request.

PROPERTY Information Record

A. Nature of Instrument: Transfer

LRO 43 Registration No. PR4281750 Date: 2023/12/07

B. Property(s): PIN 13413 - 0112 Address MISSISSAUGA Assessment Roll No -

C. Address for Service: 462 Falgarwood Dr.
Oakville ON
L6H 1N3

D. (i) Last Conveyance(s): PIN 13413 - 0112 Registration No.

(ii) Legal Description for Property Conveyed: Same as in last conveyance? Yes ☐ No ☑ Not known ☐

E. Tax Statements Prepared By: Lee Shandi Silber
181 Bay St., Suite 1800
Toronto M5J 2T9

Zoning Information Report

City of Mississauga, 300 City Centre Drive, Mississauga, Ontario Canada L5B 3C1

Property Details

Address:	0 NINTH LINE
Legal Description:	RCP 1542, PT LT 9 - PTS 1-4 43R41109
Roll Number:	21-05-150-010-00233-0000
Common Name:	
Property Code:	VAC RES/COM/IND LND PARTLY FARMED-OWNER NON-FARMER
Ward:	8
Councillor:	MATT MAHONEY
Area:	39,316.24

Detail Map

Property Zoning Information

The zone(s) for this property are listed below. To access the Mississauga Zoning By-law, please visit www.mississauga.ca/zoningbylaw. If you have any questions about the zoning information displayed below, please contact 311 (905-615-4311 outside City limits) or visit www.mississauga.ca/zoning.

Zone	Master Bylaw	Enacting Bylaw	OMB Case/File No.	Status
E2-93	0225-2007	BL-0225/07	N/A	In Force

Aerial Map

Heritage Status

Mississauga's heritage, which extends over 10,000 years, includes archaeological resources, numerous residential, commercial and industrial buildings, views, vistas, ridge lines, scenic routes and a variety of natural heritage properties. For more information, please visit www.mississauga.ca/heritage.

Status:	NOT LISTED ON THE HERITAGE REGISTER
Conservation District:	
Bylaw:	
Bylaw Date:	
Designation Statement:	
Inventory Item:	

Date Created: 2024-03-11

MISSISSAUGA dev

Property information

0 NINTH LINE
Roll number: 05-15-0-010-00233-0000
Legal description: RCP 1542, PT LT 9 - PTS 1-4 43R41109

Property details

Legal description	RCP 1542, PT LT 9 - PTS 1-4 43R41109
Assessment code	VAC RES/COM/IND LND PARTLY FARMED-OWNER NON-FARMER
Ward	8
Councillor	MATT MAHONEY
Area	39316.24 SM
Depth	M
Frontage	82.91 M
Status	Registered

Site plan control

This property is subject to the Site Plan Control By-law.

If you're planning construction of a new building or addition, you'll need to apply for site plan approval. A building permit cannot be issued until site plan approval has been granted.

Learn more about site plan approval process.

Property information

0 NINTH LINE
Roll number: 05-15-0-010-00233-0000
Legal description: RCP 1542, PT LT 9 - PTS 1-4 43R41109

Zoning information

To view the zoning regulations for this property, click on the zone(s) in the table below. Click here to access the entire Zoning By-law.

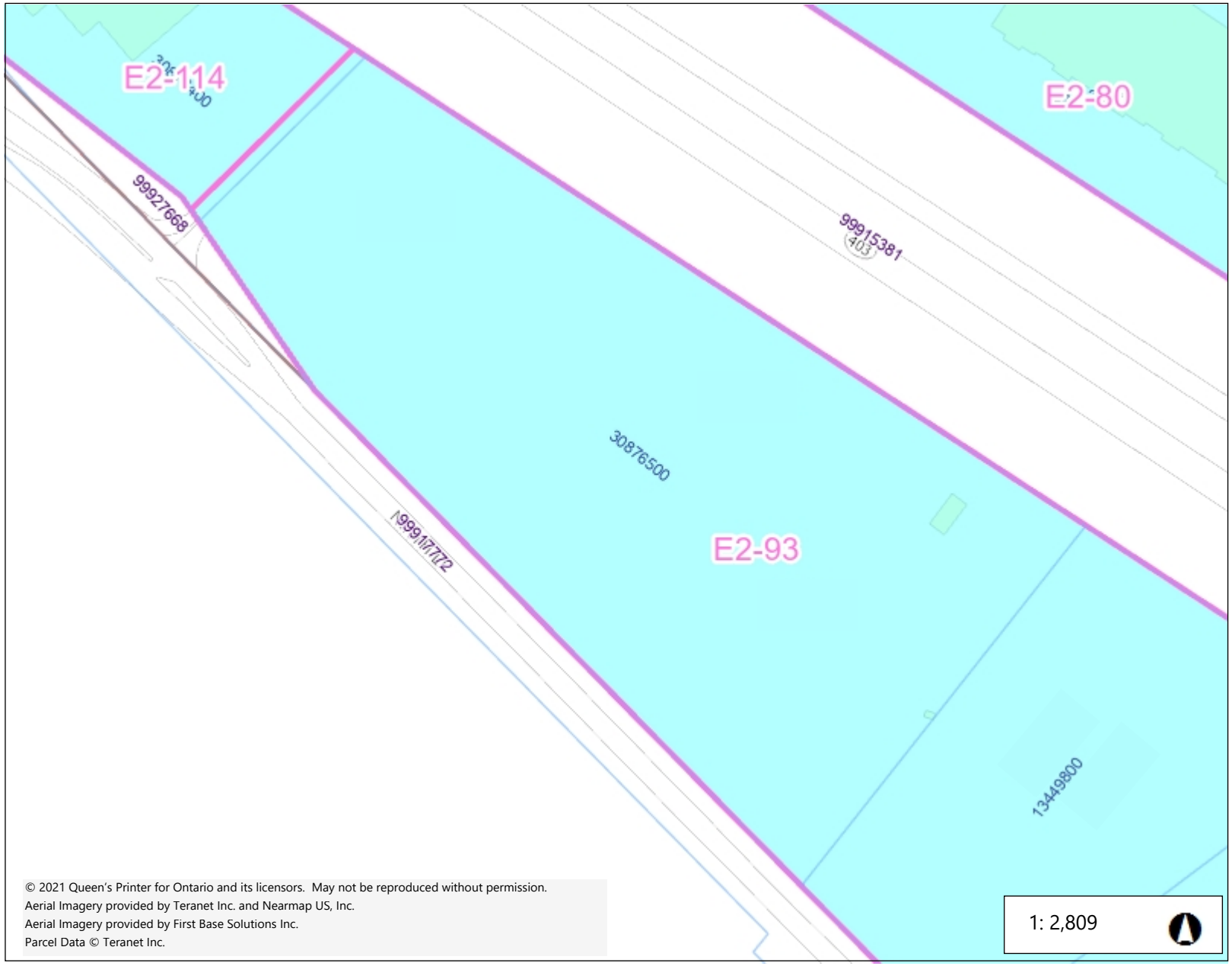
You can also use the zoning information map to view the surrounding zoning information. If you have any questions, please call 311 (905-615-4311 outside City limits).

Learn more about Zoning.

Zone	Master by-law	Enacting by-law	OMB Case/File No.	Status
E2-93	0225-2007	BL-0225/7	N/A	IN FORCE

There are no building permits related to the selected property.

City PIN 30876500, Zoning E2-93



Legend

- Parcel
- Zoning Labels
- Zoning Shapes
  - A Agricultural (By-law 5500)
  - AP Lester B. Pearson International
  - B Buffer, Berm, Fence
  - C1 Convenience Commercial
  - C2 Neighbourhood Commercial
  - C3 General Commercial
  - C4 Mainstreet Commercial
  - C5 Motor Vehicle Commercial
  - CC1 Core Commercial
  - CC2, CC4 Mixed Use
  - CC3 Mixed Use - Transition Area
  - CCO Office
  - CCOS Open Space
  - D Existing Use
  - E1 Employment in Nodes
  - E2 Employment
  - E3 Industrial
  - G1 Natural Hazards
  - G2 Natural Features
  - I Hospital and University / College
  - O Office
  - OS1 Community Park
  - OS2 City Park

Notes

1: 2,809

142.7 0 71.34 142.7 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere

 3-11-2024

City PIN 30876500, Zoning E2-93

Legend

- Parcel
- Zoning Labels
- Zoning Shapes
  - A Agricultural (By-law 5500)
  - AP Lester B. Pearson International
  - B Buffer, Berm, Fence
  - C1 Convenience Commercial
  - C2 Neighbourhood Commercial
  - C3 General Commercial
  - C4 Mainstreet Commercial
  - C5 Motor Vehicle Commercial
  - CC1 Core Commercial
  - CC2, CC4 Mixed Use
  - CC3 Mixed Use - Transition Area
  - CCO Office
  - CCOS Open Space
  - D Existing Use
  - E1 Employment in Nodes
  - E2 Employment
  - E3 Industrial
  - G1 Natural Hazards
  - G2 Natural Features
  - I Hospital and University / College
  - O Office
  - OS1 Community Park
  - OS2 City Park

Notes

142.7 0 71.34 142.7 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere

 3-11-2024

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS IS NOT A PLAN OF SURVEY

BURNSIDE

[THE DIFFERENCE IS OUR PEOPLE]

Appendix B

Plan of Survey

SCHEDULE				
PART	LOT	PLAN	PIN	AREA (m²)
1	PART OF 9	REGISTRAR'S COMPILED PLAN 1542	ALL OF 13413-0112(LT)	35,113
2				3,793
3				418
4				2

PARTS 3 AND 4 ARE SUBJECT TO AN EASEMENT AS IN INSTRUMENT PR3122861

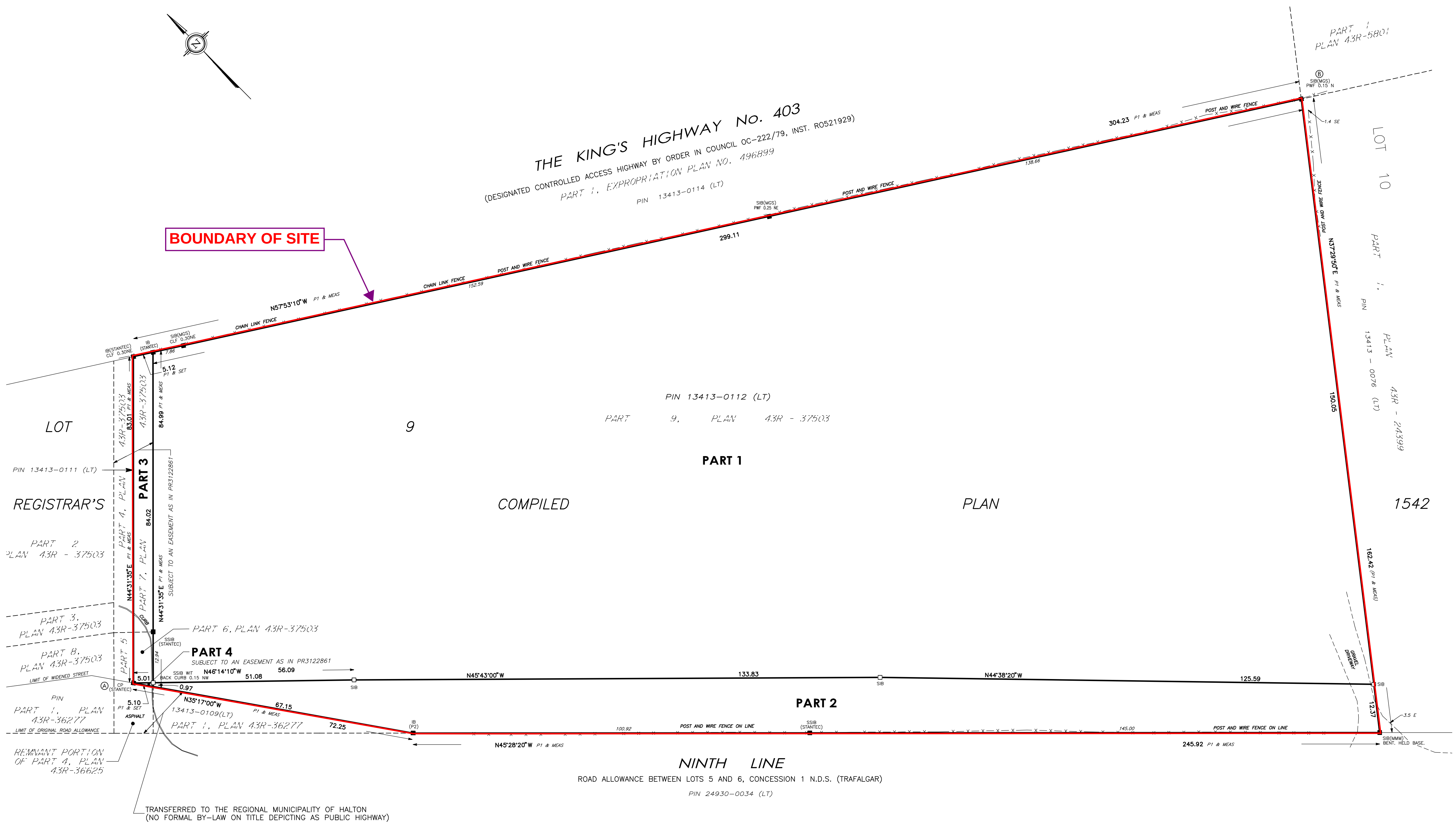
PLAN 43R-41109

Received and deposited

November 22nd, 2023

Diana Wong

Representative for the Land Registrar for the Land Titles Division of Peel (No.43)



LAND TO BE RETAINED FOR DEVELOPMENT: PARTS 1 & 3, PLAN 43R41109

FUTURE ROAD WIDENING CONVEYANCE LAND: PARTS 2 & 4, PLAN 43R41109

PLAN OF SURVEY OF

PART OF LOT 9

REGISTRAR'S COMPILED PLAN 1542

CITY OF MISSISSAUGA

REGIONAL MUNICIPALITY OF PEEL

Scale 1:500

10 0 10 20 30 METRES

THE INTENDED PLOT SIZE OF THIS PLAN IS 914 mm IN WIDTH BY 610 mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1 : 500.

Stantec Geomatics Ltd.

METRIC CONVERSION

DISTANCES AND COORDINATES SHOWN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

GRID SCALE CONVERSION

DISTANCES SHOWN ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999711.

BEARING REFERENCE

BEARINGS ARE UTM GRID, REFERRED TO THE CENTRAL MERIDIAN OF ZONE 17 (81°W LONGITUDE), DERIVED FROM OBSERVED REFERENCE POINTS A AND B.

LEGEND

■	DENOTES	FOUND MONUMENTS
□	DENOTES	SET MONUMENTS
IB	DENOTES	IRON BAR
SIB	DENOTES	STANDARD IRON BAR
SSIB	DENOTES	SHORT STANDARD IRON BAR
WIT	DENOTES	WITNESS
M	DENOTES	MEASURED
CLF	DENOTES	CHAIN LINK FENCE
PWF	DENOTES	POST AND WIRE FENCE
STANTEC	DENOTES	STANTEC GEOMATICS LTD.
OU	DENOTES	ORIGINS UNKNOWN
MGS	DENOTES	MINISTRY OF GOVERNMENT SERVICES
MMM	DENOTES	MARSHALL, MACKLIN & MONAGHAN
P1	DENOTES	PLAN 43R-37503
P2	DENOTES	PLAN 43R-36277

INTEGRATION TABLE

OBSERVED REFERENCE POINTS (ORP) DERIVED FROM GNSS OBSERVATIONS USING A REAL-TIME CORRECTION SERVICE AND REFERRED TO UTM ZONE 17, NAD83 (CSRS)(2010).

COORDINATES TO URBAN ACCURACY PER S.14(2) O.REG. 216/10

ORP	NORTHING	EASTING
A	4,819,463.38	603,924.99
B	4,819,360.84	604,240.80

COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

SURVEYOR'S CERTIFICATE

I CERTIFY THAT :

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT, THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 17th DAY OF NOVEMBER, 2023.

NOVEMBER 21, 2023
DATE

MERRILL D. MCLEAN
ONTARIO LAND SURVEYOR

THIS PLAN OF SURVEY RELATES TO AOLS PLAN SUBMISSION FORM NUMBER V64962

Stantec Geomatics Ltd.

CANADA LANDS SURVEYORS
ONTARIO LAND SURVEYORS
300-675 COCHRANE DRIVE, WEST TOWER
MARKHAM, ONTARIO, L3R 0B8
TEL. 905.944.7777
stantec.com

DWN: DP	CHK: MM	DATE: 1-Sep-23	PROJECT: 161670209

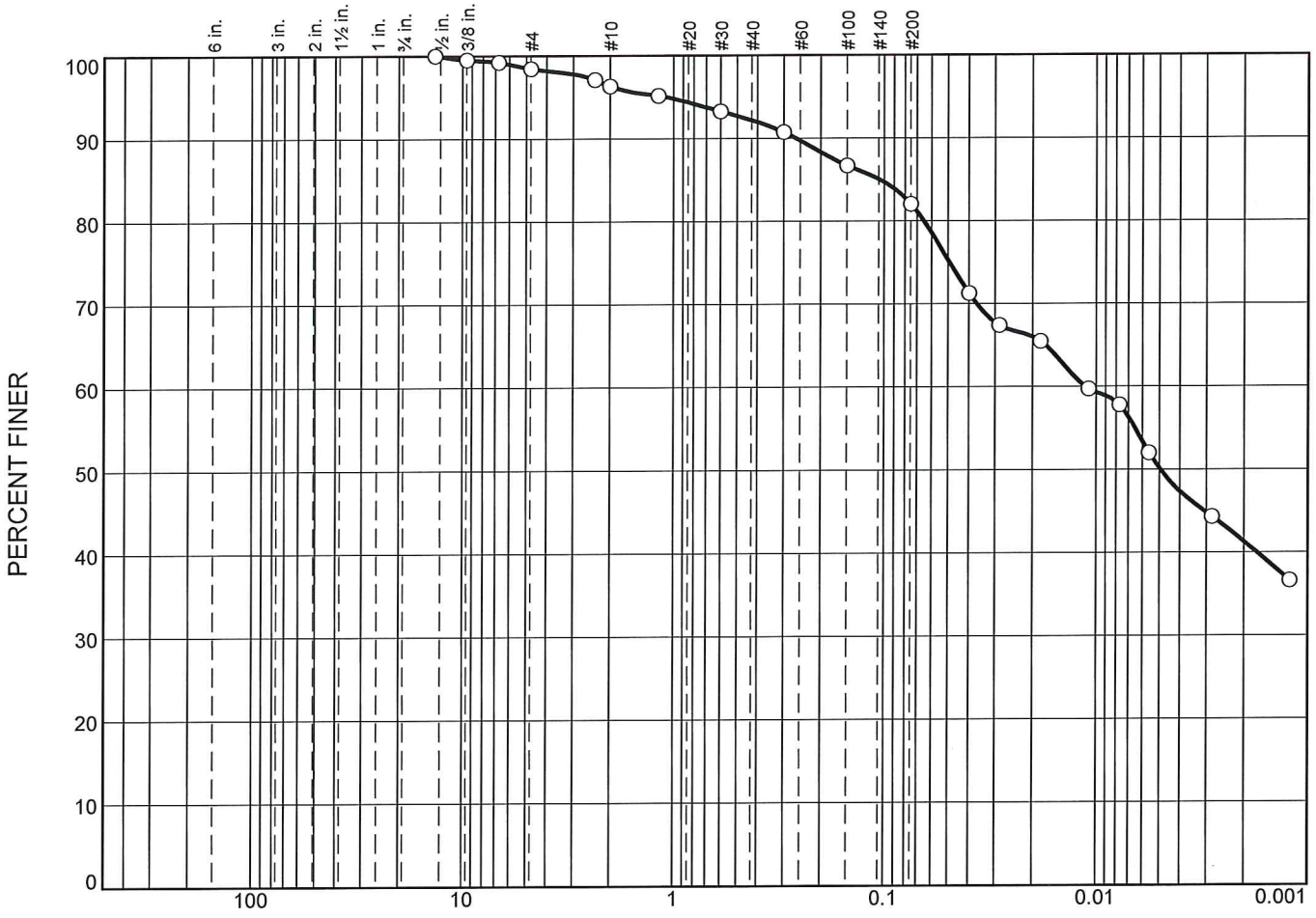
BURNSIDE

[THE DIFFERENCE IS OUR PEOPLE]

Appendix C

Particle Size Distribution Reports

Particle Size Distribution Report



	% Cobbles	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	1.6	2.1	4.1	10.1	40.8	41.3

SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	USCS
○	BH1	2	0.76-1.37m	clay and silt, some sand, trace gravel	ML
				Sampled by SW of CMT Engineering Inc., February 12, 2020	
				Tested by JM of CMT Engineering Inc., February 14, 2020	

CMT Engineering Inc.

St. Clements, ON

Client: St. Mark and St. Demiana Coptic Orthodox Church

Project: Ninth Line
Mississauga, Ontario

Project No.: 20-026

Figure 1

Particle Size Distribution Report

	% Cobbles	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	2.9	3.9	8.0	13.6	45.2	26.4

SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	USCS
○	BH2	3	1.52-2.13m	clayey, sandy silt, trace gravel	ML
				Sampled by SW of CMT Engineering Inc., February 12, 2020	
				Tested by JM of CMT Engineering Inc., February 14, 2020	

CMT Engineering Inc.

St. Clements, ON

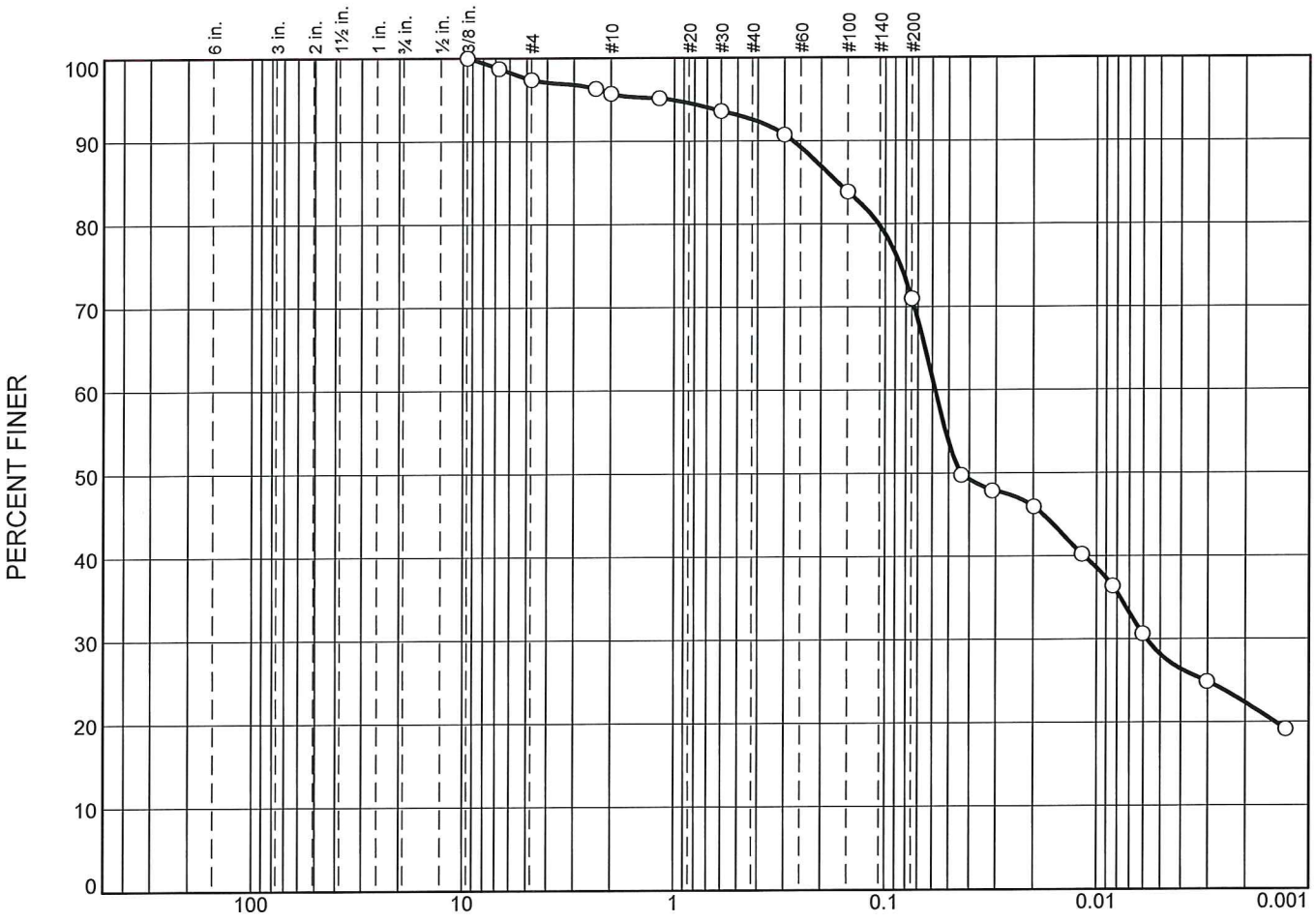
Client: St. Mark and St. Demiana Coptic Orthodox Church

Project: Ninth Line
Mississauga, Ontario

Project No.: 20-026

Figure 2

Particle Size Distribution Report



	% Cobbles	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	2.6	1.7	3.1	21.6	48.7	22.3

SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	USCS
○	BH4	6	3.66-4.57m	sandy, clayey silt, trace gravel	ML
				Sampled by SW of CMT Engineering Inc., February 12, 2020	
				Tested by JM of CMT Engineering Inc., February 14, 2020	

CMT Engineering Inc.

St. Clements, ON

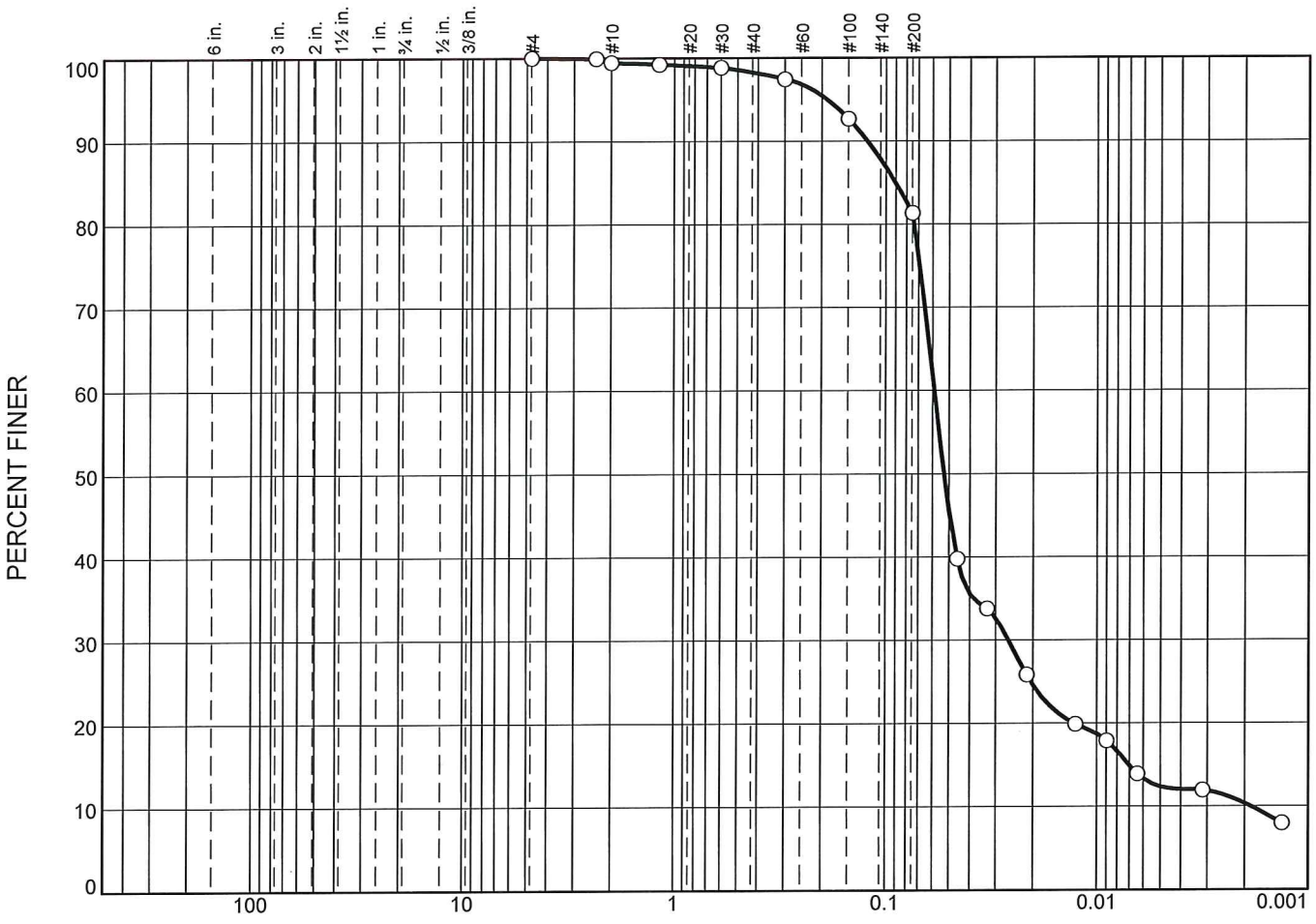
Client: St. Mark and St. Demiana Coptic Orthodox Church

Project: Ninth Line
Mississauga, Ontario

Project No.: 20-026

Figure 3

Particle Size Distribution Report



	% Cobbles	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.6	1.1	17.0	70.9	10.4

SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	USCS
○	BH6	5	3.05-3.66m	silt, some sand and clay	ML
				Sampled by SW of CMT Engineering Inc., February 12, 2020	
				Tested by JM of CMT Engineering Inc., February 14, 2020	

CMT Engineering Inc.

St. Clements, ON

Client: St. Mark and St. Demiana Coptic Orthodox Church

Project: Ninth Line
Mississauga, Ontario

Project No.: 20-026

Figure 4

BURNSIDE

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Appendix D

Borehole Logs

BOREHOLE 1

Date Drilled: February 10, 2020
Rig: Geoprobe 7822DT
Contractor: CMT Drilling Inc.
Drilling Method: SPT

Elevation: 179.66 m
Logged by: SW

Project No.: 20-026
Project: Geotech - Proposed Church
Location: Ninth Line, Mississauga, ON

Depth (ft/m)	Sample Type	Recovery (%)	Sample Number	Symbols	SOIL DESCRIPTION	Elevation / Depth	Well Installation	Moisture Content % Wp [----X----] Wl (10 20 30 40)	Pocket Penetrometer kPa (100 200 300 400) / SPT (N) Blows/0.3 m (20 40 60 80)
					Ground Surface (m)	179.66 / 0.00			
0	SS		1		**TOPSOIL** Loose, dark brown, silty organic topsoil, moist (100mm)	178.90 / 0.76		15.6	6
1	SS		2		**CLAY AND SILT** Firm, brown, red and grey mottled clay and silt, some sand, trace gravel, moist	178.14 / 1.52		12.9	26
2	SS		3		Becoming very stiff, brown Becoming hard			14.0	37
3	SS		4		Becoming grey	177.07 / 2.59		11.1	62
4	SS		5					11.7	41
	MC5		6					10.4	
5	SS		7		**SAND** Dense, grey sand, some gravel, trace silt, wet	175.09 / 4.57		20.9	
	MC5		8		**SANDY CLAYEY SILT TILL** Dense, grey sandy clayey silt till, trace gravel, wet	173.87 / 5.79		10.2	36
6	MC5		9		**SAND** Dense, grey sand, some silt, trace clay and gravel, wet			13.8	
7								16.9	
8					End of Borehole	172.04 / 7.62			
9									

Groundwater measured at approximately 1.74 m below ground surface (elev. 177.92 m) on Feb. 12, 2020

Well Installation: Bentonite; WL: 1.74 m; 1" Steel Casing; #2 Silica Sand; 50mm Slot 10 Screen

CMT ENGINEERING INC.
1011 Industrial Crescent, Unit 1
St. Clements, Ontario N0B 2M0
phone 519-699-5775 fax 519-699-4664
www.cmtinc.net

BOREHOLE 2

Date Drilled: February 12, 2020
Rig: Geoprobe 7822DT
Contractor: CMT Drilling Inc.
Drilling Method: SPT

Elevation: 179.52 m
Logged by: SW

Project No.: 20-026
Project: Geotech - Proposed Church
Location: Ninth Line, Mississauga, ON

Depth (ft/m)	Sample Type	Recovery (%)	Sample Number	Symbols	SOIL DESCRIPTION	Elevation / Depth	Well Installation	Moisture Content % Wp [----X----] Wl 10 20 30 40	Pocket Penetrometer kPa 100 200 300 400 / SPT (N) Blows/0.3 m 20 40 60 80
					Ground Surface (m)	179.52			
0	SS		1		**TOPSOIL** Loose, dark brown, silty organic topsoil, moist (100mm)	0.00		29.9	1
1	SS		2		**CLAYEY SANDY SILT** Very soft, dark brown clayey, sandy silt, trace gravel, with trace organics and rootlets, moist	178.76 0.76		18.3	11
2	SS		3		Becoming stiff, brown, with no organics and rootlets	178.00 1.52		11.0	36
	SS		4		Becoming hard			11.3	50(3")
3	SS		5		**SILT TILL** Very dense, grey silt till, some sand and clay, moist	176.93 2.59		7.7	
4	MC	5	6		**SAND** Very dense, grey sand, some silt, trace clay and gravel, wet	175.61 3.91		8.5	50(4")
5					End of Borehole	174.95 4.57		10.6	
								20.2	
6									
7									
8									

Borehole caved at about 3.05 m below ground surface.

Accumulated groundwater encountered at approximately 2.74 m below ground surface in open borehole.

CMT ENGINEERING INC.
1011 Industrial Crescent, Unit 1
St. Clements, Ontario N0B 2M0
phone 519-699-5775 fax 519-699-4664
www.cmtinc.net

BOREHOLE 3

Date Drilled: February 12, 2020
Rig: Geoprobe 7822DT
Contractor: CMT Drilling Inc.
Drilling Method: SPT

Elevation: 180.13 m
Logged by: SW

Project No.: 20-026
Project: Geotech - Proposed Church
Location: Ninth Line, Mississauga, ON

Depth (ft/m)	Sample Type	Recovery (%)	Sample Number	Symbols	SOIL DESCRIPTION	Elevation	Depth	Well Installation	Moisture Content % Wp [----X----] Wl 10 20 30 40	Pocket Penetrometer kPa 100 200 300 400 / SPT (N) Blows/0.3 m 20 40 60 80
					Ground Surface (m)	180.13	0.00			
0	SS		1		**TOPSOIL** Loose, dark brown, silty organic topsoil, moist (90mm)				26.1	3
1	SS		2		**CLAYEY SILT** Soft, brown and dark brown mottled clayey silt, some sand, trace gravel, organics and rootlets, moist	179.37	0.76		13.3	30
2	SS		3		Becoming very stiff, brown, no organics and rootlets	178.61	1.52		13.7	35
	SS		4		Becoming hard				10.8	54
3	SS		5						12.8	50(6")
4	MC		6		**SILT TILL** Very dense, light brown silt till, some clay and sand, moist	176.52	3.61		14.5	
									12.9	
5	SS		7		**SANDY CLAYEY SILT TILL** Hard, grey sandy clayey silt till, trace gravel, moist	175.46	4.67		10.2	36
6					End of Borehole	174.95	5.18			
7										
8										

Borehole caved at about 5.03 m below ground surface.

Accumulated groundwater encountered at approximately 4.72 m below ground surface in open borehole.

CMT ENGINEERING INC.
1011 Industrial Crescent, Unit 1
St. Clements, Ontario N0B 2M0
phone 519-699-5775 fax 519-699-4664
www.cmtinc.net

BOREHOLE 4

Date Drilled: February 12, 2020
Rig: Geoprobe 7822DT
Contractor: CMT Drilling Inc.
Drilling Method: SPT

Elevation: 182.49 m
Logged by: SW

Project No.: 20-026
Project: Geotech - Proposed Church
Location: Ninth Line, Mississauga, ON

Depth (ft/m)	Sample Type	Recovery (%)	Sample Number	Symbols	SOIL DESCRIPTION	Elevation	Depth	Well Installation	Moisture Content % Wp [----X----] Wl	Pocket Penetrometer kPa	SPT (N) Blows/0.3 m
					Ground Surface (m)	182.49	0.00				
0	SS		1		**TOPSOIL** Loose, dark brown, silty organic topsoil, moist (100mm)				23.9	3	
1	SS		2		**CLAYEY SILT** Soft, brown and dark brown mottled clayey silt, some sand, trace gravel, organics and rootlets, moist	181.73	0.76		14.4		30
2	SS		3		Becoming very stiff, brown, no organics and rootlets				13.3		28
	SS		4		Becoming hard	180.20	2.29		12.3		45
3	SS		5		**SANDY CLAYEY SILT TILL** Very dense, brown sandy clayey silt till, trace gravel, moist	179.29	3.20		11.0		50(4")
4	MC5		6		Becoming grey	178.68	3.81		12.0		
									10.0		
	SS		7		**SILT TILL** Dense, grey silt till, some sand and clay, moist	177.77	4.72		13.3		41
5					End of Borehole	177.31	5.18				
6											
7											
8											

Borehole caved at about 4.67 m below ground surface.

No accumulated groundwater encountered in open borehole.

CMT ENGINEERING INC.
1011 Industrial Crescent, Unit 1
St. Clements, Ontario N0B 2M0
phone 519-699-5775 fax 519-699-4664
www.cmtinc.net

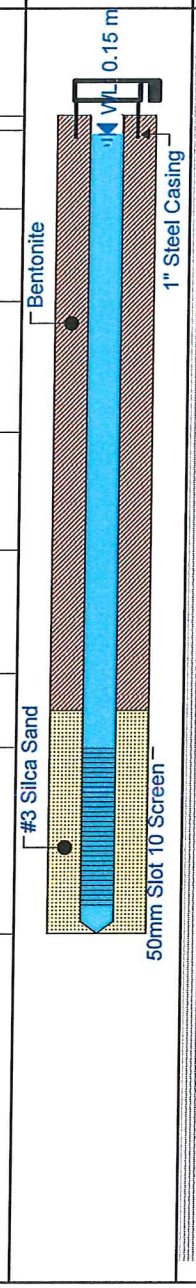
BOREHOLE 5

Date Drilled: February 10, 2020
Rig: Geoprobe 7822DT
Contractor: CMT Drilling Inc.
Drilling Method: SPT

Elevation: 177.84 m
Logged by: SW

Project No.: 20-026
Project: Geotech - Proposed Church
Location: Ninth Line, Mississauga, ON

Depth (ft/m)	Sample Type	Recovery (%)	Sample Number	Symbols	SOIL DESCRIPTION	Elevation / Depth	Well Installation	Moisture Content % Wp [----X----] Wl 10 20 30 40	Pocket Penetrometer kPa 100 200 300 400 / SPT (N) Blows/0.3 m 20 40 60 80
					Ground Surface (m)	177.84			
0	SS		1		**TOPSOIL** Loose, dark brown, silty organic topsoil, moist (120mm)	0.00		25.3	3
						177.08			
1	SS		2		**CLAYEY SILT** Firm, brown, red, and grey mottled clayey silt, some sand and gravel, moist	0.76		12.3	28
						176.32			
2	SS		3		Becoming very stiff, brown Becoming hard	1.52		11.0	50(3")
	SS		4		Becoming grey	175.25 2.59		8.5	57
3	SS		5					10.5	59
					SANDY CLAYEY SILT TILL Very dense, grey sandy clayey silt till, some gravel, wet	174.28 3.56		12.9	
4	MC5		6					12.1	
					SILT TILL Very dense, grey silt till, some sand and clay, trace gravel, moist becoming wet	173.27 4.57			
	SS		7					7.6	50(5")
5						172.66 5.18			
6	MC5		8					24.4	
					End of Borehole	171.13 6.71			
7									
8									
9									



Groundwater measured at approximately 0.15 m below ground surface (elev. 177.69 m) on Feb. 12, 2020.

CMT ENGINEERING INC.
1011 Industrial Crescent, Unit 1
St. Clements, Ontario N0B 2M0
phone 519-699-5775 fax 519-699-4664
www.cmtinc.net

BOREHOLE 6

Date Drilled: February 10, 2020
Rig: Geoprobe 7822DT
Contractor: CMT Drilling Inc.
Drilling Method: SPT

Elevation: 181.68 m
Logged by: SW

Project No.: 20-026
Project: Geotech - Proposed Church
Location: Ninth Line, Mississauga, ON

Depth (ft/m)	Sample Type	Recovery (%)	Sample Number	Symbols	SOIL DESCRIPTION	Elevation	Depth	Well Installation	Moisture Content % Wp [----X----] Wl 10 20 30 40	Pocket Penetrometer kPa 100 200 300 400 / SPT (N) Blows/0.3 m 20 40 60 80
					Ground Surface (m)	181.68	0.00			
0	SS		1		**TOPSOIL** Loose, dark brown, silty organic topsoil, moist (80mm)	180.92	0.76		15.7	4
1	SS		2		**CLAYEY SILT** Firm, brown, red, and grey mottled clayey silt, some sand and gravel, moist	179.98	1.70		12.5	32
2	SS		3		Becoming hard, brown	179.39	2.29		10.0	50(5")
3	SS		4		**SAND** Very dense, brown sand, trace silt and gravel, moist	178.94	2.74		19.0	44
4	SS		5		Becoming wet, some silt **SILT TILL** Dense, brown silt till, some sand and clay, wet				18.5	54
5	MC5		6						19.5	
6	SS		7			176.96	4.72		10.6	
7	MC5		8		**SANDY CLAYEY SILT TILL** Hard, grey sandy clayey silt till, trace gravel, moist				9.4	50(5")
8	MC5		9		**SAND** Very dense, grey sand, some silt, trace clay and gravel, wet	175.58	6.10		9.4	
9						174.06	7.62		19.3	
					End of Borehole					

Groundwater measured at approximately 4.27 m below ground surface (elev. 177.41 m) on Feb. 12, 2020.

Well Installation: Bentonite; 1" Steel Casing; WL: 4.27 m; #2 Silica Sand; 50mm Slot 10 Screen

CMT ENGINEERING INC.
1011 Industrial Crescent, Unit 1
St. Clements, Ontario N0B 2M0
phone 519-699-5775 fax 519-699-4664
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BOREHOLE 7

Date Drilled: February 12, 2020
Rig: Geoprobe 7822DT
Contractor: CMT Drilling Inc.
Drilling Method: SPT

Elevation: 179.02 m
Logged by: SW

Project No.: 20-026
Project: Geotech - Proposed Church
Location: Ninth Line, Mississauga, ON

Depth (ft/m)	Sample Type	Recovery (%)	Sample Number	Symbols	SOIL DESCRIPTION	Elevation	Depth	Well Installation	Moisture Content % Wp [----X----] Wl 10 20 30 40	Pocket Penetrometer kPa 100 200 300 400 / SPT (N) Blows/0.3 m 20 40 60 80
					Ground Surface (m)	179.02	0.00			
0	SS		1		**TOPSOIL** Loose, dark brown, silty organic topsoil, moist (50mm)				16.4	7
1	SS		2		**CLAYEY SILT** Soft to firm, brown and dark brown mottled clayey silt, some sand, trace gravel, organics and rootlets, moist	178.26	0.76		12.8	26
2	SS		3		Becoming very stiff, brown, no organics and rootlets	177.29	1.73		11.6	36
	SS		4		Becoming hard, red				11.1	56
3	SS		5		**SILT TILL** Dense, grey silt till, some sand and clay, moist	175.97	3.05		8.4	48
4	MC		6						8.8	
5	SS		7			173.84	5.18		9.0	28
					End of Borehole					
6										
7					Borehole open to termination.					
8					No accumulated groundwater encountered in open borehole.					

CMT ENGINEERING INC.
1011 Industrial Crescent, Unit 1
St. Clements, Ontario N0B 2M0
phone 519-699-5775 fax 519-699-4664
www.cmtinc.net


Ninth Line, Oakville
Legend
Monitoring Well
A282606
A282604
A282605
403
Burnhamthorpe Road West
Ninth Line
13
27
Google Earth
100 m

Ontario — Ministry of the Environment, Conservation and Parks

Well Tag No. *(Place Sticker and/or Print Below)*: A282604

Measurements recorded in: ☑ Metric ☐ Imperial

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	THE DIOCESE OF MISSISSAUGA, VANCOUVER AND WESTERN	CANADA ATTN: MOHER MICHAEL	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
2188 ROBINWOOD COURT	MISSISSAUGA	ON	L5M5B9	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
NINTH LINE (500m SE OF BURNHAMTHORPE RDE)			

County/District/Municipality	City/Town/Village	Province	Postal Code
	OAKVILLE	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	603971	4819466		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
BLACK	TOPSOIL			0	0.3
BROWN	SILT	CLAY	HARD	0.3	4.5
GREY	SILT	CLAY	DENSE	4.5	6.0
GREY	SAND	SILT	DENSE	6.0	7.6

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used *(Material and Type)*	Volume Placed (m³/ft³)
0	5.4	3/8 HOLEPLUG	L1
5.4	7.6	#2 SAND	L1

Method of Construction

☐ Cable Tool ☐ Diamond
☑ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify*

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☑ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
5.08	PLASTIC		0	6.1

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
5.3	PLASTIC	10	6.1	7.6

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☑ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, *specify*
0		☐ Fresh ☐ Untested
(m/ft)	☐ Gas	☐ Other, *specify*
		☐ Fresh ☐ Untested
(m/ft)	☐ Gas	☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	7.6	12

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping _____ hrs + _____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.

SEE ATTACHED MAP

Comments:

CMT Drilling Inc. License No. 7366
1011 Industrial Cres, Unit 1, St. Clements
Ontario, N0B 2M0 cblack@cmtinc.net
519-699-5775 Black, Chris
3711 _____ 2020/02/25
Tech License No. Signature of Contractor Date Submitted

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered: Y Y Y Y M M D D

Date Work Completed: 2020/02/24

Ministry Use Only
Audit No. Z324519
Received

Ontario — Ministry of the Environment, Conservation and Parks

Well Tag No. *(Place Sticker and/or Print Below)*: A282605

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☑ Metric ☐ Imperial

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	THE DIOCESE OF MISSISSAUGA, VANCOUVER AND WESTERN CANADA ATTN: MOHEB MICHAEL		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
2188 ROBINWOOD COURT	MISSISSAUGA	ON	L5M5B9	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
NINTH LINE (500m SE OF BURHAMTHORPE RD E)			

County/District/Municipality	City/Town/Village	Province	Postal Code
	OAKVILLE	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	600411	4811318		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
BLACK	TOPSOIL			0	0.3
BROWN	CLAY	SILT	DENSE	0.3	1.5
GREY	SILT	CLAY	DENSE	1.5	4.5
GREY	SILT		DENSE	4.5	6.7

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used *(Material and Type)*	Volume Placed (m³/ft³)
0	4.5	3/8 HOLEPLUG	1
4.5	6.7	#2 SAND	1

Method of Construction

☐ Cable Tool ☐ Diamond
☑ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify*

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☑ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter *(cm/in)*	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness *(cm/in)*	Depth (m/ft) From	Depth (m/ft) To
5.08	PLASTIC		0	5.1

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
5.3	PLASTIC	10	5.1	6.7

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☑ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	Kind of Water	Hole Diameter Depth (m/ft) From	Hole Diameter Depth (m/ft) To	Diameter (cm/in)
☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*			
☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	0	6.7	12
☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*			

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping _____ hrs + _____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.

SEE ATTACHED MAP

Comments:

Licence No.

CMT Drilling Inc. License No. 7366
1011 Industrial Cres, Unit 1, St. Clements
Ontario, N0B 2M0 cblack@cmtinc.net
519-699-5775 Black, Chris
3711 CG BQ 2020/02/25
Tech License No. Signature of Contractor Date Submitted

Y/Y/Y/Y/M/M/D/D

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered

Date Work Completed 2020/02/26

Ministry Use Only

Audit No. Z324520

Received

y's Copy

Ontario — Ministry of the Environment, Conservation and Parks

Measurements recorded in: ☑ Metric ☐ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*: A282606

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	THE DIOCESE OF MISSISSAUGA, VANCOUVER AND WESTERN CANADA ATTN: MOHEB MICHAEL		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
2188 ROBINWOOD COURT	MISSISSAUGA	ON	L5M5B9	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
(500M SE OF BURNHAM THORPE RD) NINTH LINE			

County/District/Municipality	City/Town/Village	Province	Postal Code
	OAKVILLE	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	604180	4819363		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
BROWN	TOPSOIL			0	0.3
BROWN	CLAY	SILT	DENSE	0.3	2.3
GREY	CLAY	SILT	DENSE	2.3	4.5
GREY	SAND	SILT	DENSE	4.5	7.6

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used *(Material and Type)*	Volume Placed (m³/ft³)
0	5.1	3/8 HOLEPLUG	L1
5.1	7.6	#2 SAND	L1

Method of Construction

☐ Cable Tool ☐ Diamond
☑ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify*

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☑ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
5.08	PLASTIC		0	6.1

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☑ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
5.3	PLASTIC	10	6.1	7.6

Water Details

Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	7.6	12

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.

SEE ATTACHED MAP

Comments:

Licence No.

CMT Drilling Inc. License No. 7366
1011 Industrial Cres, Unit 1, St. Clements
Ontario, N0B 2M0 cblack@cmtinc.net
519-699-5775 Black, Chris

3711 _____ FEB/25/2020
Tech License No. Signature of Contractor Date Submitted

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered: Y Y Y Y M M D D

Date Work Completed: 2020/02/24

Ministry Use Only

Audit No. Z324521

Received

y's Copy

LOG OF DRILLING OPERATIONS

MW8

R.J. Burnside & Associates Limited

Client: **St. Mark and St. Demiana Orthodox Church**	Project Name: **Phase Two ESA Mississauga**	Logged by: **C. Dermott**
Project No.: **300044049.1000**	Location: **Part Lot 9, RCP 1542, Ninth Line**	Ground (m amsl): **181.27**
Drilling Co.: **CMT Drilling Inc.**	Date Started: **3/8/2022**	Static Water Level Depth (m): **2.78**
Drilling Method: **Geo Probe**	Date Completed: **3/8/2022**	Sand Pack Depth (m) : **4.57 - 7.62**

Surface Elevation (m): **181.27**

Depth Scale (ft)	Depth Scale (m)	Stratigraphic Description	Depth (m)
		Topsoil	
		Silty Clay Brown, fine grain, moist, no plasticity, non-cohesive	1.52
		Silty Clay	2.44
		Silty Sand	5.18
			7.62

cement

bentonite seal

stainless steel screen

7.62

SAMPLE Num.	Type	Int.	N.Val
	CS		100
	CS		100
	CS		100
	CS		100
	CS		100

Prepared By: **K. Langstaff** Checked By: **KL** Date Prepared: **4/14/2022**

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

LEGEND

- Water found @ time of drilling
- Static Water Level - 3/29/2022

MONITORING WELL DATA

- Pipe: **25.4 mm dia. PVC**
- Screen: **25.4 mm dia. PVC #10 slot**

SAMPLE TYPE

- AC Auger Cutting
- CS Continuous
- RC Rock Core
- SS Split Spoon
- AR Air Rotary
- WC Wash Cuttings

LOG OF DRILLING OPERATIONS

MW8

R.J. Burnside & Associates Limited

Client: **St. Mark and St. Demiana Orthodox Church**	Project Name: **Phase Two ESA Mississauga**	Logged by: **C. Dermott**
Project No.: **300044049.1000**	Location: **Part Lot 9, RCP 1542, Ninth Line**	Ground (m amsl): **180.58**
Drilling Co.: **CMT Drilling Inc.**	Date Started: **3/8/2022**	Static Water Level Depth (m): **2.78**
Drilling Method: **Geo Probe**	Date Completed: **3/8/2022**	Sand Pack Depth (m) : **4.57 - 7.62**

Depth Scale (ft)	Depth Scale (m)	Stratigraphic Description (Surface Elevation (m): 180.58)	Strat. Plot	Depth (m)	SAMPLE Num.	SAMPLE Type	SAMPLE Int.	SAMPLE N.Val
		Topsoil				CS		100
		Silty Clay Brown, fine grain, moist, no plasticity, non-cohesive		1.52		CS		100
		Silty Clay		2.44		CS		100
		Silty Sand		5.18		CS		100
				7.62		CS		100

cement

bentonite seal

stainless steel screen

7.62

Prepared By: **K. Langstaff** Checked By: **KL** Date Prepared: **4/14/2022**

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

LEGEND

▼ Water found @ time of drilling

▽ Static Water Level - 3/29/2022

MONITORING WELL DATA

Pipe: **25.4 mm dia. PVC**

Screen: **25.4 mm dia. PVC #10 slot**

SAMPLE TYPE

AC Auger Cutting

CS Continuous

RC Rock Core

SS Split Spoon

AR Air Rotary

WC Wash Cuttings

Notice of Collection of Personal Information

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or wellshelpdesk@ontario.ca.

Fields marked with an asterisk (*) are mandatory.

Well Tag Number *
A 343234

Type *

☑ Construction ☐ Abandonment

Measurement recorded in: *

☐ Metric ☑ Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name	First Name
Moheb	Michael
Organization	**Email Address**
The Diocese of Mississauga, Vancouver & Western Can	

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
	2188	Robinwood Court	Mississauga

Country	Province	Postal Code	Telephone Number
Canada	ON	L5M 5B9	

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	75m NE	Ninth Line	

Lot	Concession	County/District/Municipality

City/Town	Province	Postal Code
Oakville	Ontario	

UTM Coordinates	Zone *	Easting *	Northing *		Municipal Plan and Sublot Number
NAD 83	17	604183	4819287	Test UTM in Map	

Other

3. Overburden and Bedrock Material *

Well Depth * 25 (ft)

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

				(ft)	(ft)
Brown	Fill	Topsoil		0	5
Brown	Silt	Clay	Dense	5	8
Grey	Silt	Clay	Dense	8	17
Grey	Silt	Sand		17	25

4. Annular Space *

Depth From (ft)	Depth To (ft)	Type of Sealant Used (Material and Type)	Volume Placed (cubic feet)
0	13	3/8 HOLEPLUG	0.26
13	25	#2 Sand	0.23

5. Method of Construction *

☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Diamond
☐ Jetting ☐ Driving ☐ Digging ☐ Rotary (Air) ☑ Augering ☐ Direct Push
☐ Other (specify) _____

6. Well Use *

☐ Public ☐ Industrial ☐ Cooling & Air Conditioning
☐ Domestic ☐ Commercial ☐ Not Used
☐ Livestock ☐ Municipal ☑ Monitoring
☐ Irrigation ☐ Test Hole ☐ Dewatering
☐ Other (specify) _____

7. Status of Well *

☐ Water Supply ☐ Replacement Well ☐ Test Hole
☐ Recharge Well ☐ Dewatering Well ☑ Observation and/or Monitoring Hole
☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality
☐ Abandoned, other (specify) _____
☐ Other (specify) _____

8. Construction Record - Casing * (use negative number(s) to indicate depth above ground surface)

Inside Diameter (in)	Open Hole **or** Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (ft)	Depth To (ft)
1.5	Plastic	0.145	0	15

9. Construction Record - Screen

Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (ft)	Depth To (ft)
1.9	Plastic	10	15	25

10. Water Details

Water found at Depth (ft) ☐ Gas Kind of water ☐ Fresh ☐ Untested ☐ Other

11. Hole Diameter

Depth From (ft)	Depth To (ft)	Diameter (in)
0	25	4

12. Results of Well Yield Testing

☐ Pumping Discontinued

Explain _____

If flowing give rate

☐ Flowing _____ (GPM)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)													

After test of well yield, water was

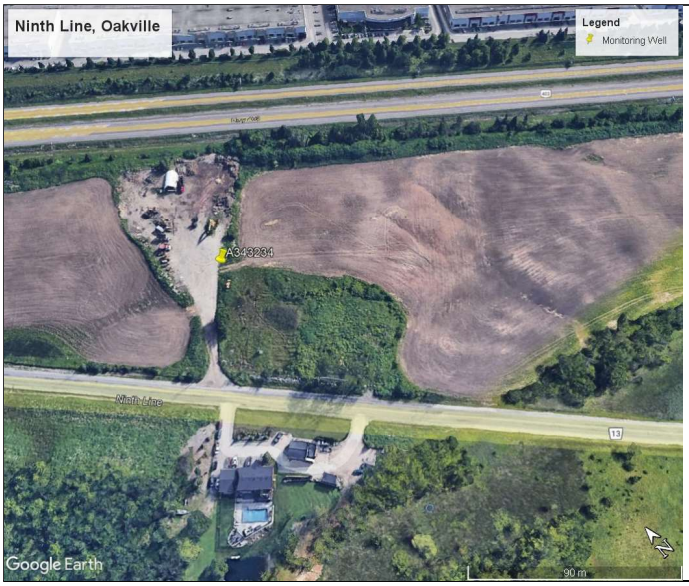
☐ Clear and sand free ☐ Other (specify)

Pump intake set at (ft)	Pumping rate (GPM)	Duration of pumping hrs + min	Final water level end of pumping (ft)	Disinfected? * ☐ Yes ☑ No

Recommended pump depth (ft)	Recommended pump rate (GPM)	Well production (GPM)

13. Map of Well Location *

Map 1. Please Click the map area below to import an image file to use as the map. ☐ Make map area bigger



14. Information

Well owner's information package delivered	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ☐ No		2022/03/08

Comments

15. Well Contractor and Well Technician Information

Business Name of Well Contractor *	Well Contractor's License Number *
CMT DRILLING INC	7366

Business Address

Unit Number	Street Number	Street Name *
1	1011	INDUSTRIAL CRES

City/Town/Village *	Province	Postal Code *
ST CLEMENTS	ON	N0B 2M0

Business Telephone Number	Business Email Address
519-699-5775	info@cmtinc.net

Last Name of Well Technician *	First Name of Well Technician *	Well Technician's License Number *
BLACK	CHRIS	3711

16. Declaration *

☑ I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name	First Name	Email Address
BLACK	CHRIS	cblack@cmtinc.net

Signature		Date Submitted (yyyy/mm/dd)
Chris Black	Digitally signed by Chris Black Date: 2022.03.21 15:07:00 -04'00'	2022/03/21

17. Ministry Use Only

Audit Number

4ZB2 F8SG

BURNSIDE

[THE DIFFERENCE IS OUR PEOPLE]

Appendix E

Photographs

Photo 1: Gravel driveway extends east from Ninth Line to parking/storage area on south part of Site.

Photo 2: Wood and fence behind the storage shelter (Quonset hut) in the south part of the Site.

Photo 3: Looking north across the Site at agricultural field and future road widening area.

Photo 4: Looking south across the Site at agricultural field and future road widening area.

Photo 5: Looking southeast across agricultural field toward the soil berm along the east boundary.

Photo 6: Soil sampled (RW-1) in agricultural field within the future road widening area.

Photo 7: Looking east across the Site from the west boundary (Ninth Line) to the soil berm.

Photo 8: Soil sampled (RW-2) from within the road widening area near west boundary.

Photo 9: Groundwater monitoring well MW1 is in agricultural field in the north part of the Site.

Photo 10: Looking west across agricultural field toward Ninth Line and monitoring well MW5.

Photo 11: Looking north from agricultural field to north end of soil berm near the north boundary.

Photo 12: Looking north at east side of the agricultural field and the soil berm along east boundary.

Photo 13: Pile of old wood posts are on the west side of the soil berm, near the east boundary.

Photo 14: Looking north from the top of the soil berm at the east boundary.

Photo 15: Monitoring well MW6, beside Quonset hut where two diesel tanks were formerly located.

Photo 16: Looking south at Geoprobe drilling borehole BH8 near east side of the Site.

Photo 17: Soil cores extracted from borehole BH8 with Geoprobe continuous core method using Macrocore MC5 dual tube sampling system.

Photo 18: Looking north at groundwater monitoring well MW8 installed at BH8.

BURNSIDE

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Appendix F

Certificates of Analysis - Soil

AGAT Laboratories

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

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
15 Townline
Orangeville, ON L9W3R4
(519) 941-5331
ATTENTION TO: Caitlin Dermott
PROJECT: 300044049
AGAT WORK ORDER: 22T872007
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer
TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer
DATE REPORTED: Mar 18, 2022
PAGES (INCLUDING COVER): 24
VERSION*: 1

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

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days following analysis, unless expressly agreed otherwise in writing. Please contact your Client Project Manager if you require additional sample storage time.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This report shall not be reproduced or distributed, in whole or in part, without the prior written consent of AGAT Laboratories.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the information contained in this document.*
- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*

AGAT Laboratories

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CANADA L4Z 1Y2
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Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

SAMPLE DESCRIPTION:				BH8	BH5-B	BH5-B Dup	BH1-B	BH6-B
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2022-03-08 12:00	2022-03-08 14:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607402	3607403	3607404	3607423
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	6	3	3	5	<1
Barium	µg/g	390	2.0	114	34.1	38.9	72.6	23.2
Beryllium	µg/g	5	0.4	0.8	<0.4	<0.4	0.7	<0.4
Boron	µg/g	120	5	18	6	6	12	<5
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.15	0.10	0.10	0.18	<0.10
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	25	11	12	21	7
Cobalt	µg/g	22	0.5	14.8	6.1	5.5	11.5	2.7
Copper	µg/g	180	1.0	37.9	17.3	14.5	29.9	5.2
Lead	µg/g	120	1	9	4	4	24	2
Molybdenum	µg/g	6.9	0.5	0.8	<0.5	<0.5	<0.5	<0.5
Nickel	µg/g	130	1	29	10	10	22	4
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.87	<0.50	<0.50	0.70	<0.50
Vanadium	µg/g	86	0.4	36.9	17.9	19.2	29.3	14.4
Zinc	µg/g	340	5	67	28	29	56	14
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, Free	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.203	0.146	0.162	0.216	0.106
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	N/A	0.451	0.130	0.152	0.284	0.471
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	6.88	7.17	7.35	7.40	7.40

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

3607396-3607423 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

Particle Size by Sieve (Wet)

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

				SAMPLE DESCRIPTION:	BH8	BH1-B
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2022-03-08 12:00	2022-03-08 15:00
Parameter	**Unit**	**G / S**	**RDL**		**3607396**	**3607404**
Sieve Analysis - 75 µm (retained)	%		NA		20.20	35.60
Sieve Analysis - 75 µm (passing)	%		NA		79.80	64.40
Soil Texture (Toronto)					Fine	Fine

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

3607396-3607404 Value reported is the amount of sample passing through or retained on sieve after wash with water and represents proportion by weight particles smaller or larger than indicated sieve size.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

O. Reg. 153(511) - BNA (full) + PAHs (Soil)

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

SAMPLE DESCRIPTION:				BH8	BH8 Dup	BH5-B	BH1-B	BH6-B
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607400	3607402	3607404	3607423
Naphthalene	µg/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	29	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.63	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	7.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<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	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/g	0.1	0.05	<0.05	<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	<0.05	<0.05
Phenol	µg/g	9.4	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether	µg/g	0.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Chlorophenol	µg/g	2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o-Cresol	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-chloroisopropyl)ether	µg/g	1.8	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m & p - Cresol	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dimethylphenol	µg/g	53	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dichlorophenol	µg/g	0.27	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-Trichlorobenzene	µg/g	1.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
p-Chloroaniline	µg/g	0.53	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1 and 2 Methlynaphthalene	µg/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4,6-Trichlorophenol	µg/g	2.9	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	µg/g	5.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Certified By:

AGAT Laboratories

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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

O. Reg. 153(511) - BNA (full) + PAHs (Soil)

DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

		SAMPLE DESCRIPTION:		BH8	BH8 Dup	BH5-B	BH1-B	BH6-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**	**3607396**	**3607400**	**3607402**	**3607404**	**3607423**
1,1-Biphenyl	µg/g	1.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dimethyl Phthalate	µg/g	0.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4 and 2,6-Dinitrotoluene	µg/g	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diethyl Phthalate	µg/g	0.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pentachlorophenol	µg/g	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3,3'-Dichlorobenzidine	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dinitrophenol	µg/g	2.9	2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bis(2-Ethylhexyl)phthalate	µg/g	5	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Moisture Content	%		0.1	16.3	11.0	17.1	12.8	12.1
wet weight BNA	g		0.01	10.90	10.56	10.55	10.37	10.95
Surrogate	**Unit**	**Acceptable Limits**						
phenol-d6 surrogate	%	50-140		74	95	76	80	94
2-Fluorophenol	%	50-140		75	61	67	65	67
2,4,6-Tribromophenol	%	50-140		76	76	91	65	88
Chrysene-d12	%	50-140		92	102	77	87	85

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

3607396-3607423 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.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

SAMPLE DESCRIPTION:				BH8	BH5-B	BH1-B	BH1-B Dup	BH6-B
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607402	3607404	3607420	3607423
Gamma-Hexachlorocyclohexane	µg/g	0.063	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor	µg/g	0.15	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aldrin	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor Epoxide	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan I	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan II	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan	µg/g	0.04	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Alpha-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
gamma-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlordane	µg/g	0.05	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
op'-DDD	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDD	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DDD	µg/g	3.3	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
op'-DDE	ug/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDE	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DDE	µg/g	0.33	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
op'-DDT	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDT	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DDT	µg/g	1.4	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Dieldrin	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endrin	µg/g	0.04	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methoxychlor	µg/g	0.13	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobenzene	µg/g	0.52	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobutadiene	µg/g	0.014	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachloroethane	µg/g	0.07	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1242	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1248	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1254	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1260	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

				SAMPLE DESCRIPTION:	BH8	BH5-B	BH1-B	BH1-B Dup	BH6-B
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**		**3607396**	**3607402**	**3607404**	**3607420**	**3607423**
Polychlorinated Biphenyls	µg/g	0.35	0.10		<0.10	<0.10	<0.10	<0.10	<0.10
Moisture Content	%		0.1		16.3	17.1	12.8	17.2	12.1
wet weight OC/PCB	g		NA		1041	10.25	10.32	10.74	10.18
Surrogate	**Unit**	**Acceptable Limits**							
TCMX	%	50-140			69	80	75	98	84
Decachlorobiphenyl	%	50-140			88	93	87	96	108

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

3607396-3607423 Results are based on the dry weight of the soil.
DDT total is a calculated parameter. The calculated value is the sum of op'DDT and pp'DDT.
DDD total is a calculated parameter. The calculated value is the sum of op'DDD and pp'DDD.
DDE total is a calculated parameter. The calculated value is the sum of op'DDE and pp'DDE.
Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.
Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Jinkal Patel

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

		SAMPLE DESCRIPTION:		BH6-B Dup
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**	**3607496**
Naphthalene	µg/g	0.75	0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05
Acenaphthene	µg/g	29	0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	<0.05
Pyrene	µg/g	78	0.05	<0.05
Benz(a)anthracene	µg/g	0.63	0.05	<0.05
Chrysene	µg/g	7.8	0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	<0.05
1 and 2 Methlynaphthalene	µg/g	3.4	0.05	<0.05
Moisture Content	%		0.1	15.3
Surrogate	**Unit**	**Acceptable Limits**		
Naphthalene-d8	%	50-140		85
Acridine-d9	%	50-140		79
Terphenyl-d14	%	50-140		85

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

3607496 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.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

				SAMPLE DESCRIPTION:	BH8	BH8 Dup	BH5-B	BH1-B	BH6-B	BH6-B Dup
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**		**3607396**	**3607400**	**3607402**	**3607404**	**3607423**	**3607496**
F1 (C6 - C10)	µg/g	65	5		<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5		<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10		<10	<10	<10	<10	**180**	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10		<10	<10	<10	<10	180	<10
F3 (C16 to C34)	µg/g	1300	50		<50	<50	<50	<50	110	<50
F3 (C16 to C34) minus PAHs	µg/g		50		<50	<50	<50	<50	110	<50
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		16.3	11.0	17.1	12.8	12.1	15.3
Surrogate	**Unit**	**Acceptable Limits**								
Toluene-d8	% Recovery	50-140			108	105	116	106	116	107
Terphenyl	%	60-140			104	91	98	100	90	111

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

3607396-3607496 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
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.

Analysis performed at AGAT Toronto (unless marked by *)

K. Langstaff comments on PHCs F1 - F4 analytical results for sample **BH6-B**:
- Duplicate field sample **BH6-B Dup** did not have any detections of PHC F1, F2, F3, or F4.
- Average PHC F2 concentration of the 2 samples **BH6-B** and **BH6-B Dup** does not exceed Institutional Use soil standard of 150 µg/g PHC F2.

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

		SAMPLE DESCRIPTION:		BH8	BH8 Dup	BH5-B	BH1-B	BH6-B	BH6-B Dup
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607400	3607402	3607404	3607423	3607496
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.022	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	1.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	0.6	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	44	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	2.5	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.085	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.52	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	1.9	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	4.3	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	2.9	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

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Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

		SAMPLE DESCRIPTION:		BH8	BH8 Dup	BH5-B	BH1-B	BH6-B	BH6-B Dup
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**	**3607396**	**3607400**	**3607402**	**3607404**	**3607423**	**3607496**
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	0.26	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	2.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.097	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	1.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.081	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	34	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	16.3	11.0	17.1	12.8	12.1	15.3
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	% Recovery	50-140		116	120	105	98	112	110
4-Bromofluorobenzene	% Recovery	50-140		104	108	104	103	106	108

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

3607396-3607496 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

AGAT Laboratories

Guideline Violation

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
3607423	BH6-B	ON T2 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	F2 (C10 to C16)	µg/g	150	180

K. Langstaff comments on PHCs F1 - F4 analytical results for Sample **BH6-B**:

- Duplicate field sample **BH6-B Dup** did not have any detections of PHC F1, F2, F3, or F4.
- Sample **BH6-B** and Duplicate field sample **BH6-B Dup** did not have any detections of volatile organic compounds related to petroleum hydrocarbons or any other VOCs.
- The average PHC F2 concentration of the two samples (BH6-B and BH6-B Dup) does not exceed the applicable soil standard concentration of 150 µg/g for PHC F2.

The PHC F2 results for soil samples collected from Borehole BH6-B are considered to be within the applicable Institutional Use standard of 150 µg/g PHC F2 listed in Table 2 SCS.

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 22T872007
PROJECT: 300044049
ATTENTION TO: Caitlin Dermott
SAMPLING SITE:Mississauga
SAMPLED BY:Caitlin Dermott, Sarah Beney

Soil Analysis

RPT Date: Mar 18, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	3607396	3607396	<0.8	<0.8	NA	< 0.8	124%	70%	130%	95%	80%	120%	96%	70%	130%
Arsenic	3607396	3607396	6	5	14.6%	< 1	113%	70%	130%	100%	80%	120%	99%	70%	130%
Barium	3607396	3607396	114	80.5	34.4%	< 2.0	104%	70%	130%	104%	80%	120%	97%	70%	130%
Beryllium	3607396	3607396	0.8	0.8	NA	< 0.4	91%	70%	130%	109%	80%	120%	98%	70%	130%
Boron	3607396	3607396	18	15	NA	< 5	78%	70%	130%	106%	80%	120%	83%	70%	130%
Boron (Hot Water Soluble)	3607396	3607396	0.15	0.14	NA	< 0.10	97%	60%	140%	109%	70%	130%	117%	60%	140%
Cadmium	3607396	3607396	<0.5	<0.5	NA	< 0.5	96%	70%	130%	105%	80%	120%	105%	70%	130%
Chromium	3607396	3607396	25	24	NA	< 5	98%	70%	130%	108%	80%	120%	105%	70%	130%
Cobalt	3607396	3607396	14.8	14.6	1.4%	< 0.5	103%	70%	130%	111%	80%	120%	106%	70%	130%
Copper	3607396	3607396	37.9	34.3	10.1%	< 1.0	93%	70%	130%	111%	80%	120%	92%	70%	130%
Lead	3607396	3607396	9	9	2.2%	< 1	105%	70%	130%	105%	80%	120%	99%	70%	130%
Molybdenum	3607396	3607396	0.8	0.7	NA	< 0.5	106%	70%	130%	106%	80%	120%	103%	70%	130%
Nickel	3607396	3607396	29	28	3.4%	< 1	100%	70%	130%	108%	80%	120%	99%	70%	130%
Selenium	3607396	3607396	<0.8	<0.8	NA	< 0.8	121%	70%	130%	105%	80%	120%	108%	70%	130%
Silver	3607396	3607396	<0.5	<0.5	NA	< 0.5	100%	70%	130%	103%	80%	120%	98%	70%	130%
Thallium	3607396	3607396	<0.5	<0.5	NA	< 0.5	107%	70%	130%	106%	80%	120%	100%	70%	130%
Uranium	3607396	3607396	0.87	0.84	NA	< 0.50	108%	70%	130%	103%	80%	120%	102%	70%	130%
Vanadium	3607396	3607396	36.9	33.7	9.1%	< 0.4	106%	70%	130%	106%	80%	120%	108%	70%	130%
Zinc	3607396	3607396	67	61	8.8%	< 5	102%	70%	130%	112%	80%	120%	99%	70%	130%
Chromium, Hexavalent	3609562		<0.2	<0.2	NA	< 0.2	94%	70%	130%	97%	80%	120%	87%	70%	130%
Cyanide, Free	3548867		<0.040	<0.040	NA	< 0.040	99%	70%	130%	102%	80%	120%	104%	70%	130%
Mercury	3607396	3607396	<0.10	<0.10	NA	< 0.10	109%	70%	130%	103%	80%	120%	102%	70%	130%
Electrical Conductivity (2:1)	3607396	3607396	0.203	0.201	0.9%	< 0.005	99%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	3607396	3607396	0.451	0.446	1.1%	NA									
pH, 2:1 CaCl2 Extraction	3611052		6.33	6.66	5.0%	NA	101%	80%	120%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Particle Size by Sieve (Wet)

Sieve Analysis - 75 µm (retained)	3608902	31.20	30.40	2.6%	NA	103%	70%	130%	
Sieve Analysis - 75 µm (passing)	3608902	68.80	69.60	1.2%	NA				

Comments: NA Signifies Not Applicable

Certified By:

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ATTENTION TO: Caitlin Dermott
SAMPLING SITE:Mississauga
SAMPLED BY:Caitlin Dermott, Sarah Beney

Trace Organics Analysis

RPT Date: Mar 18, 2022

PARAMETER	Batch	Sample Id	DUPLICATE Dup #1	DUPLICATE Dup #2	DUPLICATE RPD	Method Blank	REFERENCE MATERIAL Measured Value	REFERENCE MATERIAL Acceptable Limits Lower	REFERENCE MATERIAL Acceptable Limits Upper	METHOD BLANK SPIKE Recovery	METHOD BLANK SPIKE Acceptable Limits Lower	METHOD BLANK SPIKE Acceptable Limits Upper	MATRIX SPIKE Recovery	MATRIX SPIKE Acceptable Limits Lower	MATRIX SPIKE Acceptable Limits Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 - C10)	3611668		<5	<5	NA	< 5	NA	60%	140%	NA	60%	140%	93%	60%	140%
F2 (C10 to C16)	3607423	3607423	180	140	25.0%	< 10	102%	60%	140%	107%	60%	140%	86%	60%	140%
F3 (C16 to C34)	3607423	3607423	110	77	NA	< 50	104%	60%	140%	109%	60%	140%	66%	60%	140%
F4 (C34 to C50)	3607423	3607423	< 50	< 50	NA	< 50	96%	60%	140%	88%	60%	140%		60%	140%
O. Reg. 153(511) - BNA (full) + PAHs (Soil)															
Naphthalene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	114%	50%	140%	101%	50%	140%	96%	50%	140%
Acenaphthylene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	103%	50%	140%	92%	50%	140%	80%	50%	140%
Acenaphthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	116%	50%	140%	95%	50%	140%	83%	50%	140%
Fluorene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	117%	50%	140%	97%	50%	140%	84%	50%	140%
Phenanthrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	115%	50%	140%	105%	50%	140%	81%	50%	140%
Anthracene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	100%	50%	140%	76%	50%	140%
Fluoranthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	91%	50%	140%	76%	50%	140%	78%	50%	140%
Pyrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	87%	50%	140%	74%	50%	140%	65%	50%	140%
Benz(a)anthracene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	75%	50%	140%	64%	50%	140%	79%	50%	140%
Chrysene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	78%	50%	140%	65%	50%	140%	72%	50%	140%
Benzo(b)fluoranthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	105%	50%	140%	72%	50%	140%	64%	50%	140%
Benzo(k)fluoranthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	103%	50%	140%	72%	50%	140%	78%	50%	140%
Benzo(a)pyrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	101%	50%	140%	74%	50%	140%	68%	50%	140%
Indeno(1,2,3-cd)pyrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	93%	50%	140%	63%	50%	140%	67%	50%	140%
Dibenzo(a,h)anthracene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	101%	50%	140%	72%	50%	140%	69%	50%	140%
Benzo(g,h,i)perylene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	88%	50%	140%	73%	50%	140%	61%	50%	140%
Phenol	3607396	3607396	< 0.5	< 0.5	NA	< 0.5	91%	30%	130%	64%	30%	130%	112%	30%	130%
Bis(2-chloroethyl)ether	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	94%	50%	140%	75%	50%	140%	91%	50%	140%
2-Chlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	115%	50%	140%	82%	50%	140%	68%	50%	140%
o-Cresol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	105%	50%	140%	79%	50%	140%	68%	50%	140%
Bis(2-chloroisopropyl)ether	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	89%	50%	140%	97%	50%	140%	83%	50%	140%
m & p - Cresol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	109%	50%	140%	84%	50%	140%	71%	50%	140%
2,4-Dimethylphenol	3607396	3607396	< 0.2	< 0.2	NA	< 0.2	107%	30%	130%	78%	30%	130%	76%	30%	130%
2,4-Dichlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	100%	50%	140%	70%	50%	140%	72%	50%	140%
1,2,4-Trichlorobenzene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	109%	50%	140%	106%	50%	140%	94%	50%	140%
p-Chloroaniline	3607396	3607396	< 0.5	< 0.5	NA	< 0.5	64%	30%	130%	65%	30%	130%	64%	30%	130%
2,4,6-Trichlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	78%	50%	140%	96%	50%	140%	77%	50%	140%
2,4,5-Trichlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	85%	50%	140%	75%	50%	140%	83%	50%	140%
1,1-Biphenyl	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	NA	50%	140%	106%	50%	140%	94%	50%	140%
Dimethyl Phthalate	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	110%	50%	140%	93%	50%	140%	78%	50%	140%
Diethyl Phthalate	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	100%	50%	140%	85%	50%	140%	83%	50%	140%
Pentachlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	50%	50%	140%	104%	50%	140%	80%	50%	140%
3,3'-Dichlorobenzidine	3607396	3607396	< 0.5	< 0.5	NA	< 0.5	51%	30%	130%	100%	30%	130%	100%	30%	130%
2,4-Dinitrophenol	3607396	3607396	< 2.0	< 2.0	NA	< 2.0	53%	30%	130%	81%	30%	130%	53%	30%	130%

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Quality Assurance

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SAMPLING SITE:Mississauga
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Trace Organics Analysis (Continued)

RPT Date: Mar 18, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Bis(2-Ethylhexyl)phthalate	3607396	3607396	< 0.2	< 0.2	NA	< 0.2	92%	50%	140%	74%	50%	140%	61%	50%	140%
O. Reg. 153(511) - OC Pesticides + PCBs (Soil)															
Gamma-Hexachlorocyclohexane	3609737		< 0.005	< 0.005	NA	< 0.005	80%	50%	140%	86%	50%	140%	83%	50%	140%
Heptachlor	3609737		< 0.005	< 0.005	NA	< 0.005	86%	50%	140%	96%	50%	140%	91%	50%	140%
Aldrin	3609737		< 0.005	< 0.005	NA	< 0.005	95%	50%	140%	90%	50%	140%	83%	50%	140%
Heptachlor Epoxide	3609737		< 0.005	< 0.005	NA	< 0.005	89%	50%	140%	79%	50%	140%	80%	50%	140%
Endosulfan I	3609737		< 0.005	< 0.005	NA	< 0.005	90%	50%	140%	84%	50%	140%	83%	50%	140%
Endosulfan II	3609737		< 0.005	< 0.005	NA	< 0.005	93%	50%	140%	80%	50%	140%	81%	50%	140%
Alpha-Chlordane	3609737		< 0.005	< 0.005	NA	< 0.005	89%	50%	140%	88%	50%	140%	83%	50%	140%
gamma-Chlordane	3609737		< 0.005	< 0.005	NA	< 0.005	91%	50%	140%	88%	50%	140%	83%	50%	140%
op'-DDD	3609737		< 0.005	< 0.005	NA	< 0.005	91%	50%	140%	94%	50%	140%	90%	50%	140%
pp'-DDD	3609737		< 0.005	< 0.005	NA	< 0.005	83%	50%	140%	95%	50%	140%	88%	50%	140%
op'-DDE	3609737		< 0.005	< 0.005	NA	< 0.005	90%	50%	140%	101%	50%	140%	100%	50%	140%
pp'-DDE	3609737		< 0.005	< 0.005	NA	< 0.005	84%	50%	140%	100%	50%	140%	90%	50%	140%
op'-DDT	3609737		< 0.005	< 0.005	NA	< 0.005	88%	50%	140%	101%	50%	140%	97%	50%	140%
pp'-DDT	3609737		< 0.005	< 0.005	NA	< 0.005	80%	50%	140%	92%	50%	140%	97%	50%	140%
Dieldrin	3609737		< 0.005	< 0.005	NA	< 0.005	90%	50%	140%	85%	50%	140%	84%	50%	140%
Endrin	3609737		< 0.005	< 0.005	NA	< 0.005	84%	50%	140%	76%	50%	140%	89%	50%	140%
Methoxychlor	3609737		< 0.005	< 0.005	NA	< 0.005	80%	50%	140%	89%	50%	140%	98%	50%	140%
Hexachlorobenzene	3609737		< 0.005	< 0.005	NA	< 0.005	98%	50%	140%	98%	50%	140%	90%	50%	140%
Hexachlorobutadiene	3609737		< 0.01	< 0.01	NA	< 0.01	82%	50%	140%	80%	50%	140%	87%	50%	140%
Hexachloroethane	3609737		< 0.01	< 0.01	NA	< 0.01	89%	50%	140%	95%	50%	140%	88%	50%	140%
Aroclor 1242	3609737		< 0.10	< 0.10	NA	< 0.10	98%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1248	3609737		< 0.10	< 0.10	NA	< 0.10	92%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1254	3609737		< 0.10	< 0.10	NA	< 0.10	100%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1260	3609737		< 0.10	< 0.10	NA	< 0.10	99%	50%	140%	NA	50%	140%	NA	50%	140%
Polychlorinated Biphenyls	3609737		< 0.10	< 0.10	NA	< 0.10	100%	50%	140%	101%	50%	140%	110%	50%	140%
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	3611668		<0.05	<0.05	NA	< 0.05	72%	50%	140%	73%	50%	140%	100%	50%	140%
Vinyl Chloride	3611668		<0.02	<0.02	NA	< 0.02	111%	50%	140%	91%	50%	140%	111%	50%	140%
Bromomethane	3611668		<0.05	<0.05	NA	< 0.05	106%	50%	140%	100%	50%	140%	86%	50%	140%
Trichlorofluoromethane	3611668		<0.05	<0.05	NA	< 0.05	105%	50%	140%	102%	50%	140%	104%	50%	140%
Acetone	3611668		<0.50	<0.50	NA	< 0.50	100%	50%	140%	97%	50%	140%	95%	50%	140%
1,1-Dichloroethylene	3611668		<0.05	<0.05	NA	< 0.05	84%	50%	140%	102%	60%	130%	102%	50%	140%
Methylene Chloride	3611668		<0.05	<0.05	NA	< 0.05	119%	50%	140%	94%	60%	130%	98%	50%	140%
Trans- 1,2-Dichloroethylene	3611668		<0.05	<0.05	NA	< 0.05	92%	50%	140%	88%	60%	130%	102%	50%	140%
Methyl tert-butyl Ether	3611668		<0.05	<0.05	NA	< 0.05	87%	50%	140%	94%	60%	130%	111%	50%	140%
1,1-Dichloroethane	3611668		<0.02	<0.02	NA	< 0.02	86%	50%	140%	115%	60%	130%	90%	50%	140%
Methyl Ethyl Ketone	3611668		<0.50	<0.50	NA	< 0.50	106%	50%	140%	102%	50%	140%	99%	50%	140%

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Trace Organics Analysis (Continued)

RPT Date: Mar 18, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Cis- 1,2-Dichloroethylene	3611668		<0.02	<0.02	NA	< 0.02	77%	50%	140%	81%	60%	130%	94%	50%	140%
Chloroform	3611668		<0.04	<0.04	NA	< 0.04	108%	50%	140%	105%	60%	130%	93%	50%	140%
1,2-Dichloroethane	3611668		<0.03	<0.03	NA	< 0.03	103%	50%	140%	102%	60%	130%	82%	50%	140%
1,1,1-Trichloroethane	3611668		<0.05	<0.05	NA	< 0.05	97%	50%	140%	92%	60%	130%	107%	50%	140%
Carbon Tetrachloride	3611668		<0.05	<0.05	NA	< 0.05	116%	50%	140%	103%	60%	130%	78%	50%	140%
Benzene	3611668		<0.02	<0.02	NA	< 0.02	86%	50%	140%	90%	60%	130%	97%	50%	140%
1,2-Dichloropropane	3611668		<0.03	<0.03	NA	< 0.03	106%	50%	140%	96%	60%	130%	78%	50%	140%
Trichloroethylene	3611668		<0.03	<0.03	NA	< 0.03	98%	50%	140%	103%	60%	130%	94%	50%	140%
Bromodichloromethane	3611668		<0.05	<0.05	NA	< 0.05	82%	50%	140%	87%	60%	130%	77%	50%	140%
Methyl Isobutyl Ketone	3611668		<0.50	<0.50	NA	< 0.50	104%	50%	140%	101%	50%	140%	100%	50%	140%
1,1,2-Trichloroethane	3611668		<0.04	<0.04	NA	< 0.04	107%	50%	140%	113%	60%	130%	100%	50%	140%
Toluene	3611668		<0.05	<0.05	NA	< 0.05	111%	50%	140%	91%	60%	130%	91%	50%	140%
Dibromochloromethane	3611668		<0.05	<0.05	NA	< 0.05	114%	50%	140%	102%	60%	130%	105%	50%	140%
Ethylene Dibromide	3611668		<0.04	<0.04	NA	< 0.04	112%	50%	140%	108%	60%	130%	84%	50%	140%
Tetrachloroethylene	3611668		<0.05	<0.05	NA	< 0.05	78%	50%	140%	97%	60%	130%	87%	50%	140%
1,1,1,2-Tetrachloroethane	3611668		<0.04	<0.04	NA	< 0.04	99%	50%	140%	104%	60%	130%	110%	50%	140%
Chlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	87%	50%	140%	106%	60%	130%	120%	50%	140%
Ethylbenzene	3611668		<0.05	<0.05	NA	< 0.05	88%	50%	140%	100%	60%	130%	112%	50%	140%
m & p-Xylene	3611668		<0.05	<0.05	NA	< 0.05	109%	50%	140%	106%	60%	130%	115%	50%	140%
Bromoform	3611668		<0.05	<0.05	NA	< 0.05	101%	50%	140%	98%	60%	130%	119%	50%	140%
Styrene	3611668		<0.05	<0.05	NA	< 0.05	81%	50%	140%	102%	60%	130%	83%	50%	140%
1,1,2,2-Tetrachloroethane	3611668		<0.05	<0.05	NA	< 0.05	89%	50%	140%	96%	60%	130%	83%	50%	140%
o-Xylene	3611668		<0.05	<0.05	NA	< 0.05	99%	50%	140%	100%	60%	130%	102%	50%	140%
1,3-Dichlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	98%	50%	140%	108%	60%	130%	81%	50%	140%
1,4-Dichlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	93%	50%	140%	95%	60%	130%	73%	50%	140%
1,2-Dichlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	99%	50%	140%	106%	60%	130%	89%	50%	140%
n-Hexane	3611668		<0.05	<0.05	NA	< 0.05	94%	50%	140%	100%	60%	130%	102%	50%	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:

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Method Summary

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE
Sieve Analysis - 75 µm (retained)	INOR-93-6065	ASTM D1140	SIEVE
Sieve Analysis - 75 µm (passing)	INOR-93-6065	ASTM D1140	SIEVE

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Method Summary

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Acenaphthylene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Acenaphthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Fluorene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Phenanthrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benz(a)anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Chrysene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(b)fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(k)fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(a)pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Dibenzo(a,h)anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(g,h,i)perylene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Phenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-chloroethyl)ether	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2-Chlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
o-Cresol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-chloroisopropyl)ether	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
m & p - Cresol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dimethylphenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1,2,4-Trichlorobenzene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
p-Chloroaniline	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	CALCULATION

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Method Summary

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
2,4,6-Trichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,5-Trichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1,1-Biphenyl	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Dimethyl Phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4 and 2,6-Dinitrotoluene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	CALCULATION
Diethyl Phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Pentachlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
3,3'-Dichlorobenzidine	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dinitrophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-Ethylhexyl)phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
phenol-d6 surrogate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2-Fluorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,6-Tribromophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Chrysene-d12	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Moisture Content	VOL-91-5009	CCME Tier 1 Method	BALANCE
wet weight BNA	ORG-91-5114		BALANCE
Gamma-Hexachlorocyclohexane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Heptachlor	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Aldrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Heptachlor Epoxide	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan I	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan II	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Alpha-Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
gamma-Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION
op'-DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION

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Method Summary

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
op'-DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
op'-DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION
Dieldrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Methoxychlor	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachlorobenzene	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachlorobutadiene	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachloroethane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Aroclor 1242	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1248	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1254	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1260	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
TCMX	ORG-91-5113	modified from EPA SW-846 3541, 3620,8081	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541, 3620,8081	GC/ECD
wet weight OC/PCB	ORG-91-5113		BALANCE
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS

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Method Summary

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Benz(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
F1 (C6 - C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE

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CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
15 Townline
Orangeville, ON L9W3R4
(519) 941-5331
ATTENTION TO: Sarah Beney
PROJECT: 300044049
AGAT WORK ORDER: 23T042360
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
DATE REPORTED: Jul 11, 2023
PAGES (INCLUDING COVER): 9
VERSION*: 1

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

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
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AGAT WORK ORDER: 23T042360

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

Particle Size by Sieve (Wet)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-11

				SAMPLE DESCRIPTION:	RW-1	RW-2
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2023-06-29 13:45	2023-06-29 13:15
Parameter	**Unit**	**G / S**	**RDL**		**5110953**	**5110955**
Sieve Analysis - 75 µm (retained)	%		NA		14.80	17.50
Sieve Analysis - 75 µm (passing)	%		NA		85.20	82.50
Soil Texture (Toronto)					Fine	Fine

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

5110953-5110955 Value reported is the amount of sample passing through or retained on sieve after wash with water and represents proportion by weight particles smaller or larger than indicated sieve size.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
NIVINE BASILY
CHEMIST

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Certificate of Analysis

AGAT WORK ORDER: 23T042360

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

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

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-11

		SAMPLE DESCRIPTION:		RW-1	RW-2	RW-3	RW-DUP
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		2023-06-29 13:45	2023-06-29 13:15	2023-06-29 12:35	2023-06-29 12:35
Parameter	Unit	G / S	RDL	5110953	5110955	5110956	5110957
Hexachloroethane	µg/g	0.07	0.005	<0.005	<0.005	<0.005	<0.005
Gamma-Hexachlorocyclohexane	µg/g	0.063	0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor	µg/g	0.15	0.005	<0.005	<0.005	<0.005	<0.005
Aldrin	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor Epoxide	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan I	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan II	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan	µg/g	0.04	0.005	<0.005	<0.005	<0.005	<0.005
Alpha-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
gamma-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
Chlordane	µg/g	0.05	0.007	<0.007	<0.007	<0.007	<0.007
op'-DDE	ug/g		0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDE	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
DDE	µg/g	0.33	0.007	<0.007	<0.007	<0.007	<0.007
op'-DDD	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDD	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
DDD	µg/g	3.3	0.007	<0.007	<0.007	<0.007	<0.007
op'-DDT	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDT	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
DDT (Total)	µg/g	1.4	0.007	<0.007	<0.007	<0.007	<0.007
Dieldrin	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005
Endrin	µg/g	0.04	0.005	<0.005	<0.005	<0.005	<0.005
Methoxychlor	µg/g	0.13	0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobenzene	µg/g	0.52	0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobutadiene	µg/g	0.014	0.01	<0.01	<0.01	<0.01	<0.01
Moisture Content	%		0.1	20.2	19.1	14.1	17.6
wet weight OC	g		0.005	10.4	10.6	10.6	10.3

Certified By: N Popnikolof

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AGAT WORK ORDER: 23T042360

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

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

DATE RECEIVED: 2023-06-30 **DATE REPORTED: 2023-07-11**

		SAMPLE DESCRIPTION:	RW-1	RW-2	RW-3	RW-DUP
		SAMPLE TYPE:	Soil	Soil	Soil	Soil
		DATE SAMPLED:	2023-06-29 13:45	2023-06-29 13:15	2023-06-29 12:35	2023-06-29 12:35
Surrogate	Unit	Acceptable Limits	5110953	5110955	5110956	5110957
TCMX	%	50-140	88	102	79	92
Decachlorobiphenyl	%	50-140	92	104	90	96

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

5110953-5110957 Results are based on the dry weight of the soil.
DDT total is a calculated parameter. The calculated value is the sum of op'DDT and pp'DDT.
DDD total is a calculated parameter. The calculated value is the sum of op'DDD and pp'DDD.
DDE total is a calculated parameter. The calculated value is the sum of op'DDE and pp'DDE.
Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.
Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Quality Assurance

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

AGAT WORK ORDER: 23T042360

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

Soil Analysis

RPT Date: Jul 11, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Particle Size by Sieve (Wet)															
Sieve Analysis - 75 µm (retained)	5120980		86.96	87.70	0.8%	NA	101%	75%	125%						
Sieve Analysis - 75 µm (passing)	5120980		13.04	12.30	5.8%	NA									

Comments: NA Signifies Not Applicable

Certified By:

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 23T042360
PROJECT: 300044049
ATTENTION TO: Sarah Beney
SAMPLING SITE:Mississauga
SAMPLED BY:Sarah Beney

Trace Organics Analysis

RPT Date: Jul 11, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - OC Pesticides (Soil)															
Hexachloroethane	5111109		< 0.005	< 0.005	NA	< 0.005	103%	50%	140%	108%	50%	140%	102%	50%	140%
Gamma-Hexachlorocyclohexane	5111109		< 0.005	< 0.005	NA	< 0.005	97%	50%	140%	113%	50%	140%	92%	50%	140%
Heptachlor	5111109		< 0.005	< 0.005	NA	< 0.005	118%	50%	140%	106%	50%	140%	106%	50%	140%
Aldrin	5111109		< 0.005	< 0.005	NA	< 0.005	103%	50%	140%	101%	50%	140%	105%	50%	140%
Heptachlor Epoxide	5111109		< 0.005	< 0.005	NA	< 0.005	104%	50%	140%	102%	50%	140%	107%	50%	140%
Endosulfan I	5111109		< 0.005	< 0.005	NA	< 0.005	106%	50%	140%	107%	50%	140%	102%	50%	140%
Endosulfan II	5111109		< 0.005	< 0.005	NA	< 0.005	102%	50%	140%	116%	50%	140%	106%	50%	140%
Alpha-Chlordane	5111109		< 0.005	< 0.005	NA	< 0.005	105%	50%	140%	111%	50%	140%	113%	50%	140%
gamma-Chlordane	5111109		< 0.005	< 0.005	NA	< 0.005	108%	50%	140%	112%	50%	140%	114%	50%	140%
op'-DDE	5111109		< 0.005	< 0.005	NA	< 0.005	117%	50%	140%	103%	50%	140%	106%	50%	140%
pp'-DDE	5111109		0.033	0.037	11.4%	< 0.005	108%	50%	140%	106%	50%	140%	108%	50%	140%
op'-DDD	5111109		< 0.005	< 0.005	NA	< 0.005	118%	50%	140%	109%	50%	140%	110%	50%	140%
pp'-DDD	5111109		< 0.005	< 0.005	NA	< 0.005	101%	50%	140%	110%	50%	140%	113%	50%	140%
op'-DDT	5111109		< 0.005	< 0.005	NA	< 0.005	107%	50%	140%	105%	50%	140%	106%	50%	140%
pp'-DDT	5111109		0.010	0.010	NA	< 0.005	102%	50%	140%	92%	50%	140%	92%	50%	140%
Dieldrin	5111109		< 0.005	< 0.005	NA	< 0.005	98%	50%	140%	103%	50%	140%	106%	50%	140%
Endrin	5111109		< 0.005	< 0.005	NA	< 0.005	107%	50%	140%	114%	50%	140%	102%	50%	140%
Methoxychlor	5111109		< 0.005	< 0.005	NA	< 0.005	115%	50%	140%	102%	50%	140%	105%	50%	140%
Hexachlorobenzene	5111109		< 0.005	< 0.005	NA	< 0.005	116%	50%	140%	100%	50%	140%	117%	50%	140%
Hexachlorobutadiene	5111109		< 0.01	< 0.01	NA	< 0.01	102%	50%	140%	104%	50%	140%	106%	50%	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: N Popnikolof

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Method Summary

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

AGAT WORK ORDER: 23T042360

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Sieve Analysis - 75 µm (retained)	INOR-93-6065	Modified from ASTM D1140-17	SIEVE
Sieve Analysis - 75 µm (passing)	INOR-93-6065	Modified from ASTM D1140-17	SIEVE

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Method Summary

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

AGAT WORK ORDER: 23T042360

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

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

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Method Summary

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

AGAT WORK ORDER: 23T042360

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
wet weight OC	ORG-91-5113		BALANCE

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CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
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Orangeville, ON L9W3R4
(519) 941-5331
ATTENTION TO: Sarah Beney
PROJECT: 300044049
AGAT WORK ORDER: 23T042364
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
DATE REPORTED: Jul 12, 2023
PAGES (INCLUDING COVER): 23
VERSION*: 1

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

Notes

Disclaimer:

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- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-2
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-06-29 16:00
Parameter	Unit	G / S	RDL	5110976
Antimony	µg/g	7.5	0.8	<0.8
Arsenic	µg/g	18	1	6
Barium	µg/g	390	2.0	70.7
Beryllium	µg/g	5	0.5	0.8
Boron	µg/g	120	5	8
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.24
Cadmium	µg/g	1.2	0.5	<0.5
Chromium	µg/g	160	5	24
Cobalt	µg/g	22	0.8	11.5
Copper	µg/g	180	1.0	29.1
Lead	µg/g	120	1	29
Molybdenum	µg/g	6.9	0.5	<0.5
Nickel	µg/g	130	1	23
Selenium	µg/g	2.4	0.8	<0.8
Silver	µg/g	25	0.5	<0.5
Thallium	µg/g	1	0.5	<0.5
Uranium	µg/g	23	0.50	0.55
Vanadium	µg/g	86	2.0	30.9
Zinc	µg/g	340	5	80
Chromium, Hexavalent	µg/g	10	0.2	<0.2
Cyanide, WAD	µg/g	0.051	0.040	<0.040
Mercury	µg/g	1.8	0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.223
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	N/A	0.421
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	6.88

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2023-06-30 **DATE REPORTED: 2023-07-12**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

5110976 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

Particle Size by Sieve (Wet)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

				SAMPLE DESCRIPTION:	BR-2
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2023-06-29 16:00
Parameter	**Unit**	**G / S**	**RDL**	**5110976**	
Sieve Analysis - 75 µm (retained)	%		NA	20.50	
Sieve Analysis - 75 µm (passing)	%		NA	79.50	
Soil Texture (Toronto)				Fine	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

5110976 Value reported is the amount of sample passing through or retained on sieve after wash with water and represents proportion by weight particles smaller or larger than indicated sieve size.

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

O. Reg. 153(511) - BNA (full) + PAHs (Soil)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-2
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-06-29 16:00
Parameter	Unit	G / S	RDL	5110976
Naphthalene	µg/g	0.75	0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05
Acenaphthene	µg/g	29	0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	<0.05
Pyrene	µg/g	78	0.05	<0.05
Benz(a)anthracene	µg/g	0.63	0.05	<0.05
Chrysene	µg/g	7.8	0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	<0.05
Dibenzo(a,h)anthracene	µg/g	0.1	0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	<0.05
Phenol	µg/g	9.4	0.5	<0.5
Bis(2-chloroethyl)ether	µg/g	0.5	0.1	<0.1
2-Chlorophenol	µg/g	2	0.1	<0.1
o-Cresol	µg/g		0.1	<0.1
Bis(2-chloroisopropyl)ether	µg/g	1.8	0.1	<0.1
m & p - Cresol	µg/g		0.1	<0.1
2,4-Dimethylphenol	µg/g	53	0.2	<0.2
2,4-Dichlorophenol	µg/g	0.27	0.1	<0.1
1,2,4-Trichlorobenzene	µg/g	1.4	0.05	<0.05
p-Chloroaniline	µg/g	0.53	0.5	<0.5
1 and 2 Methlynaphthalene	µg/g	3.4	0.05	<0.05
2,4,6-Trichlorophenol	µg/g	2.9	0.1	<0.1
2,4,5-Trichlorophenol	µg/g	5.5	0.1	<0.1

Certified By: N Popnikolof

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

O. Reg. 153(511) - BNA (full) + PAHs (Soil)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-2
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-06-29 16:00
Parameter	**Unit**	**G / S**	**RDL**	**5110976**
1,1-Biphenyl	µg/g	1.1	0.05	<0.05
Dimethyl Phthalate	µg/g	0.5	0.1	<0.1
2,4 and 2,6-Dinitrotoluene	µg/g	0.5	0.5	<0.5
Diethyl Phthalate	µg/g	0.5	0.1	<0.1
Pentachlorophenol	µg/g	0.1	0.1	<0.1
3,3'-Dichlorobenzidine	µg/g		0.5	<0.5
2,4-Dinitrophenol	µg/g	2.9	2.0	<2.0
Bis(2-Ethylhexyl)phthalate	µg/g	5	0.2	<0.2
Moisture Content	%		0.1	16.8
wet weight BNA	g		0.01	10.46
Surrogate	**Unit**	**Acceptable Limits**		
phenol-d6 surrogate	%	50-140		79
2-Fluorophenol	%	50-140		105
2,4,6-Tribromophenol	%	50-140		85
Chrysene-d12	%	50-140		79

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

5110976 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.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowkolof

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

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

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-1	BR-2	BR-3
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2023-06-29 15:30	2023-06-29 16:00	2023-06-29 17:20
Parameter	Unit	G / S	RDL	5110974	5110976	5110977
Gamma-Hexachlorocyclohexane	µg/g	0.063	0.005	<0.005	<0.005	<0.005
Heptachlor	µg/g	0.15	0.005	<0.005	<0.005	<0.005
Aldrin	µg/g	0.05	0.005	<0.005	<0.005	<0.005
Heptachlor Epoxide	µg/g	0.05	0.005	<0.005	<0.005	<0.005
Endosulfan I	µg/g		0.005	<0.005	<0.005	<0.005
Endosulfan II	µg/g		0.005	<0.005	<0.005	<0.005
Endosulfan	µg/g	0.04	0.005	<0.005	<0.005	<0.005
Alpha-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005
gamma-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005
Chlordane	µg/g	0.05	0.007	<0.007	<0.007	<0.007
op'-DDD	µg/g		0.005	<0.005	<0.005	<0.005
pp'-DDD	µg/g		0.005	<0.005	<0.005	<0.005
DDD	µg/g	3.3	0.007	<0.007	<0.007	<0.007
op'-DDE	ug/g		0.005	<0.005	<0.005	<0.005
pp'-DDE	µg/g		0.005	0.010	<0.005	0.291
DDE	µg/g	0.33	0.007	0.010	<0.007	0.291
op'-DDT	µg/g		0.005	<0.005	<0.005	0.012
pp'-DDT	µg/g		0.005	<0.005	<0.005	0.048
DDT	µg/g	1.4	0.007	<0.007	<0.007	0.060
Dieldrin	µg/g	0.05	0.005	<0.005	<0.005	<0.005
Endrin	µg/g	0.04	0.005	<0.005	<0.005	<0.005
Methoxychlor	µg/g	0.13	0.005	<0.005	<0.005	<0.005
Hexachlorobenzene	µg/g	0.52	0.005	<0.005	<0.005	<0.005
Hexachlorobutadiene	µg/g	0.014	0.01	<0.01	<0.01	<0.01
Hexachloroethane	µg/g	0.07	0.005	<0.005	<0.005	<0.005
Aroclor 1242	µg/g		0.10	<0.10	<0.10	<0.10
Aroclor 1248	µg/g		0.10	<0.10	<0.10	<0.10
Aroclor 1254	µg/g		0.10	<0.10	<0.10	<0.10
Aroclor 1260	µg/g		0.10	<0.10	<0.10	<0.10

Certified By: N Popowkolof

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

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

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		**BR-1**	**BR-2**	**BR-3**
		SAMPLE TYPE:		**Soil**	**Soil**	**Soil**
		DATE SAMPLED:		**2023-06-29 15:30**	**2023-06-29 16:00**	**2023-06-29 17:20**
Parameter	**Unit**	**G / S**	**RDL**	**5110974**	**5110976**	**5110977**
Polychlorinated Biphenyls	µg/g	0.35	0.10	<0.10	<0.10	<0.10
Moisture Content	%		0.1	22.4	16.8	10.4
Surrogate	**Unit**	**Acceptable Limits**				
TCMX	%	50-140		86	100	92
Decachlorobiphenyl	%	50-140		90	108	92

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

5110974-5110977 Results are based on the dry weight of the soil.
DDT total is a calculated parameter. The calculated value is the sum of op'DDT and pp'DDT.
DDD total is a calculated parameter. The calculated value is the sum of op'DDD and pp'DDD.
DDE total is a calculated parameter. The calculated value is the sum of op'DDE and pp'DDE.
Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.
Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

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

DATE RECEIVED: 2023-06-30 **DATE REPORTED: 2023-07-12**

				SAMPLE DESCRIPTION:	BR-Dup2
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2023-06-29 17:20
Parameter	**Unit**	**G / S**	**RDL**	**5110981**	
Polychlorinated Biphenyls	µg/g	0.35	0.1	<0.1	
Moisture Content	%		0.1	12.6	
Surrogate	**Unit**	**Acceptable Limits**			
Decachlorobiphenyl	%	50-140		84	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

5110981 Results are based on the dry weight of soil extracted.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowich

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-2
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-06-29 16:00
Parameter	**Unit**	**G / S**	**RDL**	**5110976**
F1 (C6 - C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
F2 (C10 to C16)	µg/g	150	10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10
F3 (C16 to C34)	µg/g	1300	50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	<50
F4 (C34 to C50)	µg/g	5600	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA
Moisture Content	%		0.1	16.8
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	%	50-140		110
Terphenyl	%	60-140		97

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

5110976 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
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.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowich

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

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

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-1	BR-3	BR-Dup1
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2023-06-29 15:30	2023-06-29 17:20	2023-06-29 17:20
Parameter	**Unit**	**G / S**	**RDL**	**5110974**	**5110977**	**5110978**
F1 (C6 - C10)	µg/g	65	5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA
Moisture Content	%		0.1	22.4	10.4	21.3
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	%	50-140		108	108	109
Terphenyl	%	60-140		78	100	76

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

5110974-5110978 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

AGAT Laboratories

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-1	BR-2	BR-3	BR-Dup1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		2023-06-29 15:30	2023-06-29 16:00	2023-06-29 17:20	2023-06-29 17:20
Parameter	Unit	G / S	RDL	5110974	5110976	5110977	5110978
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.022	0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	1.4	0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	0.6	0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	44	0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	2.5	0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.12	0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.085	0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.52	0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	1.9	0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	4.3	0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	2.9	0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-1	BR-2	BR-3	BR-Dup1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		2023-06-29 15:30	2023-06-29 16:00	2023-06-29 17:20	2023-06-29 17:20
Parameter	**Unit**	**G / S**	**RDL**	**5110974**	**5110976**	**5110977**	**5110978**
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	0.26	0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	2.2	0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.097	0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	1.7	0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	25	0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.081	0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	34	0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	22.4	16.8	10.4	21.3
Surrogate	**Unit**	**Acceptable Limits**					
Toluene-d8	% Recovery	50-140		108	110	108	109
4-Bromofluorobenzene	% Recovery	50-140		70	70	69	68

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

5110974-5110978 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowich

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Quality Assurance

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

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

Soil Analysis

RPT Date: Jul 12, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	5120954		<0.8	<0.8	NA	< 0.8	90%	70%	130%	94%	80%	120%	83%	70%	130%
Arsenic	5120954		2	2	NA	< 1	109%	70%	130%	98%	80%	120%	100%	70%	130%
Barium	5120954		41.0	40.4	1.5%	< 2.0	95%	70%	130%	99%	80%	120%	96%	70%	130%
Beryllium	5120954		<0.5	<0.5	NA	< 0.5	87%	70%	130%	97%	80%	120%	96%	70%	130%
Boron	5120954		<5	<5	NA	< 5	89%	70%	130%	103%	80%	120%	103%	70%	130%
Boron (Hot Water Soluble)	5113887		0.21	0.24	NA	< 0.10	92%	60%	140%	95%	70%	130%	95%	60%	140%
Cadmium	5120954		<0.5	<0.5	NA	< 0.5	99%	70%	130%	99%	80%	120%	95%	70%	130%
Chromium	5120954		14	14	NA	< 5	93%	70%	130%	112%	80%	120%	111%	70%	130%
Cobalt	5120954		4.5	4.8	6.5%	< 0.8	99%	70%	130%	107%	80%	120%	107%	70%	130%
Copper	5120954		5.6	5.8	3.5%	< 1.0	90%	70%	130%	100%	80%	120%	97%	70%	130%
Lead	5120954		6	6	0.0%	< 1	102%	70%	130%	99%	80%	120%	100%	70%	130%
Molybdenum	5120954		1.3	1.3	NA	< 0.5	101%	70%	130%	104%	80%	120%	104%	70%	130%
Nickel	5120954		11	12	8.7%	< 1	96%	70%	130%	103%	80%	120%	98%	70%	130%
Selenium	5120954		<0.8	<0.8	NA	< 0.8	117%	70%	130%	101%	80%	120%	102%	70%	130%
Silver	5120954		<0.5	<0.5	NA	< 0.5	87%	70%	130%	97%	80%	120%	96%	70%	130%
Thallium	5120954		<0.5	<0.5	NA	< 0.5	99%	70%	130%	104%	80%	120%	106%	70%	130%
Uranium	5120954		0.63	0.59	NA	< 0.50	100%	70%	130%	102%	80%	120%	109%	70%	130%
Vanadium	5120954		22.4	22.4	0.0%	< 2.0	97%	70%	130%	102%	80%	120%	96%	70%	130%
Zinc	5120954		17	18	NA	< 5	98%	70%	130%	105%	80%	120%	110%	70%	130%
Chromium, Hexavalent	5110045		<0.2	<0.2	NA	< 0.2	89%	70%	130%	90%	80%	120%	84%	70%	130%
Cyanide, WAD	5114892		<0.040	<0.040	NA	< 0.040	103%	70%	130%	103%	80%	120%	76%	70%	130%
Mercury	5120954		<0.10	<0.10	NA	< 0.10	101%	70%	130%	92%	80%	120%	124%	70%	130%
Electrical Conductivity (2:1)	5119106		2.43	2.57	5.6%	< 0.005	109%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	5114690		2.02	1.98	2.0%	NA									
pH, 2:1 CaCl2 Extraction	5114128		6.79	7.02	3.3%	NA	101%	80%	120%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Particle Size by Sieve (Wet)

Sieve Analysis - 75 µm (retained)	5120980	86.96	87.70	0.8%	NA	101%	75%	125%	
Sieve Analysis - 75 µm (passing)	5120980	13.04	12.30	5.8%	NA				

Comments: NA Signifies Not Applicable

Certified By:

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 23T042364
PROJECT: 300044049
ATTENTION TO: Sarah Beney
SAMPLING SITE:Mississauga
SAMPLED BY:Sarah Beney

Trace Organics Analysis

RPT Date: Jul 12, 2023

PARAMETER	Batch	Sample Id	DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
			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 (with VOC) (Soil)															
F1 (C6 - C10)	5110950		<5	<5	NA	< 5	95%	60%	140%	117%	60%	140%	96%	60%	140%
F2 (C10 to C16)	5114747		10	12	NA	< 10	106%	60%	140%	95%	60%	140%	134%	60%	140%
F3 (C16 to C34)	5114747		< 50	< 50	NA	< 50	106%	60%	140%	71%	60%	140%	105%	60%	140%
F4 (C34 to C50)	5114747		< 50	< 50	NA	< 50	93%	60%	140%	102%	60%	140%	96%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	5110950		<0.05	<0.05	NA	< 0.05	115%	50%	140%	91%	50%	140%	104%	50%	140%
Vinyl Chloride	5110950		<0.02	<0.02	NA	< 0.02	89%	50%	140%	84%	50%	140%	89%	50%	140%
Bromomethane	5110950		<0.05	<0.05	NA	< 0.05	70%	50%	140%	76%	50%	140%	70%	50%	140%
Trichlorofluoromethane	5110950		<0.05	<0.05	NA	< 0.05	87%	50%	140%	102%	50%	140%	102%	50%	140%
Acetone	5110950		<0.50	<0.50	NA	< 0.50	101%	50%	140%	100%	50%	140%	85%	50%	140%
1,1-Dichloroethylene	5110950		<0.05	<0.05	NA	< 0.05	89%	50%	140%	98%	60%	130%	99%	50%	140%
Methylene Chloride	5110950		<0.05	<0.05	NA	< 0.05	85%	50%	140%	75%	60%	130%	83%	50%	140%
Trans- 1,2-Dichloroethylene	5110950		<0.05	<0.05	NA	< 0.05	107%	50%	140%	108%	60%	130%	106%	50%	140%
Methyl tert-butyl Ether	5110950		<0.05	<0.05	NA	< 0.05	90%	50%	140%	87%	60%	130%	84%	50%	140%
1,1-Dichloroethane	5110950		<0.02	<0.02	NA	< 0.02	103%	50%	140%	111%	60%	130%	115%	50%	140%
Methyl Ethyl Ketone	5110950		<0.50	<0.50	NA	< 0.50	86%	50%	140%	105%	50%	140%	105%	50%	140%
Cis- 1,2-Dichloroethylene	5110950		<0.02	<0.02	NA	< 0.02	97%	50%	140%	112%	60%	130%	96%	50%	140%
Chloroform	5110950		<0.04	<0.04	NA	< 0.04	102%	50%	140%	115%	60%	130%	107%	50%	140%
1,2-Dichloroethane	5110950		<0.03	<0.03	NA	< 0.03	99%	50%	140%	98%	60%	130%	104%	50%	140%
1,1,1-Trichloroethane	5110950		<0.05	<0.05	NA	< 0.05	102%	50%	140%	88%	60%	130%	107%	50%	140%
Carbon Tetrachloride	5110950		<0.05	<0.05	NA	< 0.05	110%	50%	140%	90%	60%	130%	110%	50%	140%
Benzene	5110950		<0.02	<0.02	NA	< 0.02	112%	50%	140%	100%	60%	130%	114%	50%	140%
1,2-Dichloropropane	5110950		<0.03	<0.03	NA	< 0.03	112%	50%	140%	96%	60%	130%	113%	50%	140%
Trichloroethylene	5110950		<0.03	<0.03	NA	< 0.03	113%	50%	140%	97%	60%	130%	116%	50%	140%
Bromodichloromethane	5110950		<0.05	<0.05	NA	< 0.05	104%	50%	140%	90%	60%	130%	105%	50%	140%
Methyl Isobutyl Ketone	5110950		<0.50	<0.50	NA	< 0.50	110%	50%	140%	106%	50%	140%	95%	50%	140%
1,1,2-Trichloroethane	5110950		<0.04	<0.04	NA	< 0.04	119%	50%	140%	118%	60%	130%	107%	50%	140%
Toluene	5110950		<0.05	<0.05	NA	< 0.05	109%	50%	140%	96%	60%	130%	111%	50%	140%
Dibromochloromethane	5110950		<0.05	<0.05	NA	< 0.05	104%	50%	140%	110%	60%	130%	98%	50%	140%
Ethylene Dibromide	5110950		<0.04	<0.04	NA	< 0.04	102%	50%	140%	118%	60%	130%	95%	50%	140%
Tetrachloroethylene	5110950		<0.05	<0.05	NA	< 0.05	100%	50%	140%	95%	60%	130%	92%	50%	140%
1,1,1,2-Tetrachloroethane	5110950		<0.04	<0.04	NA	< 0.04	102%	50%	140%	76%	60%	130%	112%	50%	140%
Chlorobenzene	5110950		<0.05	<0.05	NA	< 0.05	106%	50%	140%	101%	60%	130%	104%	50%	140%
Ethylbenzene	5110950		<0.05	<0.05	NA	< 0.05	101%	50%	140%	96%	60%	130%	97%	50%	140%
m & p-Xylene	5110950		<0.05	<0.05	NA	< 0.05	115%	50%	140%	97%	60%	130%	114%	50%	140%
Bromoform	5110950		<0.05	<0.05	NA	< 0.05	103%	50%	140%	96%	60%	130%	106%	50%	140%
Styrene	5110950		<0.05	<0.05	NA	< 0.05	112%	50%	140%	101%	60%	130%	108%	50%	140%
1,1,2,2-Tetrachloroethane	5110950		<0.05	<0.05	NA	< 0.05	95%	50%	140%	104%	60%	130%	98%	50%	140%
o-Xylene	5110950		<0.05	<0.05	NA	< 0.05	91%	50%	140%	110%	60%	130%	106%	50%	140%

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 23T042364
PROJECT: 300044049
ATTENTION TO: Sarah Beney
SAMPLING SITE:Mississauga
SAMPLED BY:Sarah Beney

Trace Organics Analysis (Continued)

RPT Date: Jul 12, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,3-Dichlorobenzene	5110950		<0.05	<0.05	NA	< 0.05	88%	50%	140%	106%	60%	130%	88%	50%	140%
1,4-Dichlorobenzene	5110950		<0.05	<0.05	NA	< 0.05	80%	50%	140%	93%	60%	130%	90%	50%	140%
1,2-Dichlorobenzene	5110950		<0.05	<0.05	NA	< 0.05	89%	50%	140%	97%	60%	130%	96%	50%	140%
n-Hexane	5110950		<0.05	<0.05	NA	< 0.05	117%	50%	140%	88%	60%	130%	94%	50%	140%
O. Reg. 153(511) - OC Pesticides + PCBs (Soil)															
Gamma-Hexachlorocyclohexane	5115138		< 0.005	< 0.005	NA	< 0.005	99%	50%	140%	92%	50%	140%	79%	50%	140%
Heptachlor	5115138		< 0.005	< 0.005	NA	< 0.005	82%	50%	140%	94%	50%	140%	76%	50%	140%
Aldrin	5115138		< 0.005	< 0.005	NA	< 0.005	97%	50%	140%	86%	50%	140%	79%	50%	140%
Heptachlor Epoxide	5115138		< 0.005	< 0.005	NA	< 0.005	104%	50%	140%	87%	50%	140%	86%	50%	140%
Endosulfan I	5115138		< 0.005	< 0.005	NA	< 0.005	106%	50%	140%	86%	50%	140%	80%	50%	140%
Endosulfan II	5115138		< 0.005	< 0.005	NA	< 0.005	107%	50%	140%	86%	50%	140%	86%	50%	140%
Alpha-Chlordane	5115138		< 0.005	< 0.005	NA	< 0.005	104%	50%	140%	88%	50%	140%	84%	50%	140%
gamma-Chlordane	5115138		< 0.005	< 0.005	NA	< 0.005	104%	50%	140%	86%	50%	140%	82%	50%	140%
op'-DDD	5115138		< 0.005	< 0.005	NA	< 0.005	112%	50%	140%	89%	50%	140%	76%	50%	140%
pp'-DDD	5115138		< 0.005	< 0.005	NA	< 0.005	109%	50%	140%	89%	50%	140%	85%	50%	140%
op'-DDE	5115138		< 0.005	< 0.005	NA	< 0.005	107%	50%	140%	85%	50%	140%	79%	50%	140%
pp'-DDE	5115138		< 0.005	< 0.005	NA	< 0.005	102%	50%	140%	90%	50%	140%	78%	50%	140%
op'-DDT	5115138		< 0.005	< 0.005	NA	< 0.005	84%	50%	140%	104%	50%	140%	76%	50%	140%
pp'-DDT	5115138		< 0.005	< 0.005	NA	< 0.005	80%	50%	140%	99%	50%	140%	72%	50%	140%
Dieldrin	5115138		< 0.005	< 0.005	NA	< 0.005	103%	50%	140%	86%	50%	140%	76%	50%	140%
Endrin	5115138		< 0.005	< 0.005	NA	< 0.005	96%	50%	140%	108%	50%	140%	94%	50%	140%
Methoxychlor	5115138		< 0.005	< 0.005	NA	< 0.005	102%	50%	140%	113%	50%	140%	95%	50%	140%
Hexachlorobenzene	5115138		< 0.005	< 0.005	NA	< 0.005	101%	50%	140%	92%	50%	140%	87%	50%	140%
Hexachlorobutadiene	5115138		< 0.01	< 0.01	NA	< 0.01	110%	50%	140%	98%	50%	140%	82%	50%	140%
Hexachloroethane	5115138		< 0.005	< 0.005	NA	< 0.005	85%	50%	140%	86%	50%	140%	77%	50%	140%
Aroclor 1242	5115138		< 0.10	< 0.10	NA	< 0.10	102%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1248	5115138		< 0.10	< 0.10	NA	< 0.10	98%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1254	5115138		< 0.10	< 0.10	NA	< 0.10	104%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1260	5115138		< 0.10	< 0.10	NA	< 0.10	92%	50%	140%	NA	50%	140%	NA	50%	140%
Polychlorinated Biphenyls	5115138		< 0.10	< 0.10	NA	< 0.10	99%	50%	140%	93%	50%	140%	96%	50%	140%
O. Reg. 153(511) - BNA (full) + PAHs (Soil)															
Naphthalene	5114109		< 0.05	< 0.05	NA	< 0.05	78%	50%	140%	105%	50%	140%	105%	50%	140%
Acenaphthylene	5114109		< 0.05	< 0.05	NA	< 0.05	80%	50%	140%	90%	50%	140%	98%	50%	140%
Acenaphthene	5114109		< 0.05	< 0.05	NA	< 0.05	105%	50%	140%	96%	50%	140%	89%	50%	140%
Fluorene	5114109		< 0.05	< 0.05	NA	< 0.05	98%	50%	140%	95%	50%	140%	96%	50%	140%
Phenanthrene	5114109		< 0.05	< 0.05	NA	< 0.05	89%	50%	140%	98%	50%	140%	93%	50%	140%
Anthracene	5114109		< 0.05	< 0.05	NA	< 0.05	96%	50%	140%	78%	50%	140%	92%	50%	140%
Fluoranthene	5114109		< 0.05	< 0.05	NA	< 0.05	90%	50%	140%	80%	50%	140%	105%	50%	140%
Pyrene	5114109		< 0.05	< 0.05	NA	< 0.05	85%	50%	140%	74%	50%	140%	78%	50%	140%

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 23T042364
PROJECT: 300044049
ATTENTION TO: Sarah Beney
SAMPLING SITE:Mississauga
SAMPLED BY:Sarah Beney

Trace Organics Analysis (Continued)

RPT Date: Jul 12, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benz(a)anthracene	5114109		< 0.05	< 0.05	NA	< 0.05	85%	50%	140%	105%	50%	140%	85%	50%	140%
Chrysene	5114109		< 0.05	< 0.05	NA	< 0.05	90%	50%	140%	96%	50%	140%	90%	50%	140%
Benzo(b)fluoranthene	5114109		< 0.05	< 0.05	NA	< 0.05	105%	50%	140%	90%	50%	140%	86%	50%	140%
Benzo(k)fluoranthene	5114109		< 0.05	< 0.05	NA	< 0.05	98%	50%	140%	98%	50%	140%	90%	50%	140%
Benzo(a)pyrene	5114109		< 0.05	< 0.05	NA	< 0.05	89%	50%	140%	78%	50%	140%	98%	50%	140%
Indeno(1,2,3-cd)pyrene	5114109		< 0.05	< 0.05	NA	< 0.05	85%	50%	140%	75%	50%	140%	78%	50%	140%
Dibenzo(a,h)anthracene	5114109		< 0.05	< 0.05	NA	< 0.05	99%	50%	140%	106%	50%	140%	85%	50%	140%
Benzo(g,h,i)perylene	5114109		< 0.05	< 0.05	NA	< 0.05	93%	50%	140%	98%	50%	140%	105%	50%	140%
Phenol	5114109		< 0.5	< 0.5	NA	< 0.5	90%	30%	130%	98%	30%	130%	98%	30%	130%
Bis(2-chloroethyl)ether	5114109		< 0.1	< 0.1	NA	< 0.1	98%	50%	140%	105%	50%	140%	78%	50%	140%
2-Chlorophenol	5114109		< 0.1	< 0.1	NA	< 0.1	85%	50%	140%	87%	50%	140%	85%	50%	140%
o-Cresol	5114109		< 0.1	< 0.1	NA	< 0.1	74%	50%	140%	78%	50%	140%	99%	50%	140%
Bis(2-chloroisopropyl)ether	5114109		< 0.1	< 0.1	NA	< 0.1	80%	50%	140%	85%	50%	140%	82%	50%	140%
m & p - Cresol	5114109		< 0.1	< 0.1	NA	< 0.1	105%	50%	140%	99%	50%	140%	105%	50%	140%
2,4-Dimethylphenol	5114109		< 0.2	< 0.2	NA	< 0.2	98%	30%	130%	86%	30%	130%	98%	30%	130%
2,4-Dichlorophenol	5114109		< 0.1	< 0.1	NA	< 0.1	109%	50%	140%	95%	50%	140%	94%	50%	140%
1,2,4-Trichlorobenzene	5114109		< 0.05	< 0.05	NA	< 0.05	108%	50%	140%	93%	50%	140%	84%	50%	140%
p-Chloroaniline	5114109		< 0.5	< 0.5	NA	< 0.5	110%	30%	130%	71%	30%	130%	86%	30%	130%
2,4,6-Trichlorophenol	5114109		< 0.1	< 0.1	NA	< 0.1	99%	50%	140%	90%	50%	140%	82%	50%	140%
2,4,5-Trichlorophenol	5114109		< 0.1	< 0.1	NA	< 0.1	105%	50%	140%	101%	50%	140%	81%	50%	140%
1,1-Biphenyl	5114109		< 0.05	< 0.05	NA	< 0.05	110%	50%	140%	99%	50%	140%	94%	50%	140%
Dimethyl Phthalate	5114109		< 0.1	< 0.1	NA	< 0.1	103%	50%	140%	104%	50%	140%	94%	50%	140%
Diethyl Phthalate	5114109		< 0.1	< 0.1	NA	< 0.1	109%	50%	140%	73%	50%	140%	84%	50%	140%
Pentachlorophenol	5114109		< 0.1	< 0.1	NA	< 0.1	106%	50%	140%	91%	50%	140%	95%	50%	140%
3,3'-Dichlorobenzidine	5114109		< 0.5	< 0.5	NA	< 0.5	87%	30%	130%	66%	30%	130%	64%	30%	130%
2,4-Dinitrophenol	5114109		< 2.0	< 2.0	NA	< 2.0	76%	30%	130%	95%	30%	130%	112%	30%	130%
Bis(2-Ethylhexyl)phthalate	5114109		< 0.2	< 0.2	NA	< 0.2	101%	50%	140%	67%	50%	140%	80%	50%	140%
O. Reg. 153(511) - PCBs (Soil)															
Polychlorinated Biphenyls	5112608		< 0.1	< 0.1	NA	< 0.1	99%	50%	140%	93%	50%	140%	96%	50%	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: N Popnikolof

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Method Summary

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

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE
Sieve Analysis - 75 µm (retained)	INOR-93-6065	Modified from ASTM D1140-17	SIEVE
Sieve Analysis - 75 µm (passing)	INOR-93-6065	Modified from ASTM D1140-17	SIEVE

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Method Summary

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

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Acenaphthylene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Acenaphthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Fluorene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Phenanthrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benz(a)anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Chrysene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(b)fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(k)fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(a)pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Dibenzo(a,h)anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(g,h,i)perylene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Phenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-chloroethyl)ether	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2-Chlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
o-Cresol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-chloroisopropyl)ether	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
m & p - Cresol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dimethylphenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1,2,4-Trichlorobenzene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
p-Chloroaniline	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	CALCULATION

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Method Summary

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

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
2,4,6-Trichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,5-Trichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1,1-Biphenyl	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Dimethyl Phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4 and 2,6-Dinitrotoluene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	CALCULATION
Diethyl Phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Pentachlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
3,3'-Dichlorobenzidine	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dinitrophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-Ethylhexyl)phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
phenol-d6 surrogate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2-Fluorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,6-Tribromophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Chrysene-d12	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
wet weight BNA	ORG-91-5114		BALANCE
Gamma-Hexachlorocyclohexane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Heptachlor	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Aldrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Heptachlor Epoxide	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan I	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan II	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Alpha-Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
gamma-Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION
op'-DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION

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Method Summary

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

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
op'-DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
op'-DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION
Dieldrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Methoxychlor	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachlorobenzene	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachlorobutadiene	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachloroethane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Aroclor 1242	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1248	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1254	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1260	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
TCMX	ORG-91-5113	modified from EPA SW-846 3541, 3620,8081	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541, 3620,8081	GC/ECD
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
F1 (C6 - C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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Method Summary

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

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

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

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS

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CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
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Orangeville, ON L9W3R4
(519) 941-5331
ATTENTION TO: Caitlin Dermott
PROJECT: 300044049
AGAT WORK ORDER: 22T872007
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer
TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer
DATE REPORTED: Mar 18, 2022
PAGES (INCLUDING COVER): 23
VERSION*: 1

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

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days following analysis, unless expressly agreed otherwise in writing. Please contact your Client Project Manager if you require additional sample storage time.*
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- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*

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Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

		SAMPLE DESCRIPTION:		BH8	BH5-B	BH5-B Dup	BH1-B	BH6-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 14:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607402	3607403	3607404	3607423
Antimony	µg/g	50	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	6	3	3	5	<1
Barium	µg/g	670	2.0	114	34.1	38.9	72.6	23.2
Beryllium	µg/g	10	0.4	0.8	<0.4	<0.4	0.7	<0.4
Boron	µg/g	120	5	18	6	6	12	<5
Boron (Hot Water Soluble)	µg/g	2	0.10	0.15	0.10	0.10	0.18	<0.10
Cadmium	µg/g	1.9	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	25	11	12	21	7
Cobalt	µg/g	100	0.5	14.8	6.1	5.5	11.5	2.7
Copper	µg/g	300	1.0	37.9	17.3	14.5	29.9	5.2
Lead	µg/g	120	1	9	4	4	24	2
Molybdenum	µg/g	40	0.5	0.8	<0.5	<0.5	<0.5	<0.5
Nickel	µg/g	340	1	29	10	10	22	4
Selenium	µg/g	5.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	50	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	3.3	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	33	0.50	0.87	<0.50	<0.50	0.70	<0.50
Vanadium	µg/g	86	0.4	36.9	17.9	19.2	29.3	14.4
Zinc	µg/g	340	5	67	28	29	56	14
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, Free	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	20	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	1.4	0.005	0.203	0.146	0.162	0.216	0.106
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	N/A	0.451	0.130	0.152	0.284	0.471
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	6.88	7.17	7.35	7.40	7.40

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S ICC MFT
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.

3607396-3607423 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

Particle Size by Sieve (Wet)

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

				SAMPLE DESCRIPTION:	BH8	BH1-B
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2022-03-08 12:00	2022-03-08 15:00
Parameter	**Unit**	**G / S**	**RDL**		**3607396**	**3607404**
Sieve Analysis - 75 µm (retained)	%		NA		20.20	35.60
Sieve Analysis - 75 µm (passing)	%		NA		79.80	64.40
Soil Texture (Toronto)					Fine	Fine

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S ICC MFT
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.

3607396-3607404 Value reported is the amount of sample passing through or retained on sieve after wash with water and represents proportion by weight particles smaller or larger than indicated sieve size.

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

O. Reg. 153(511) - BNA (full) + PAHs (Soil)

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

SAMPLE DESCRIPTION:				BH8	BH8 Dup	BH5-B	BH1-B	BH6-B
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607400	3607402	3607404	3607423
Naphthalene	µg/g	28	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	29	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.95	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenol	µg/g	9.4	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether	µg/g	0.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Chlorophenol	µg/g	3.9	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o-Cresol	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-chloroisopropyl)ether	µg/g	13	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m & p - Cresol	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dimethylphenol	µg/g	53	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dichlorophenol	µg/g	0.27	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-Trichlorobenzene	µg/g	16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
p-Chloroaniline	µg/g	0.53	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1 and 2 Methlynaphthalene	µg/g	42	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4,6-Trichlorophenol	µg/g	2.9	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	µg/g	10	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

O. Reg. 153(511) - BNA (full) + PAHs (Soil)

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

		SAMPLE DESCRIPTION:		BH8	BH8 Dup	BH5-B	BH1-B	BH6-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**	**3607396**	**3607400**	**3607402**	**3607404**	**3607423**
1,1-Biphenyl	µg/g	210	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dimethyl Phthalate	µg/g	0.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4 and 2,6-Dinitrotoluene	µg/g	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diethyl Phthalate	µg/g	0.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pentachlorophenol	µg/g	3.3	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3,3'-Dichlorobenzidine	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dinitrophenol	µg/g	2.9	2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bis(2-Ethylhexyl)phthalate	µg/g	35	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Moisture Content	%		0.1	16.3	11.0	17.1	12.8	12.1
wet weight BNA	g		0.01	10.90	10.56	10.55	10.37	10.95
Surrogate	**Unit**	**Acceptable Limits**						
phenol-d6 surrogate	%	50-140		74	95	76	80	94
2-Fluorophenol	%	50-140		75	61	67	65	67
2,4,6-Tribromophenol	%	50-140		76	76	91	65	88
Chrysene-d12	%	50-140		92	102	77	87	85

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S ICC MFT
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.

3607396-3607423 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.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

		SAMPLE DESCRIPTION:		BH8	BH5-B	BH1-B	BH1-B Dup	BH6-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607402	3607404	3607420	3607423
Gamma-Hexachlorocyclohexane	µg/g	0.063	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor	µg/g	0.19	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aldrin	µg/g	0.11	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor Epoxide	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan I	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan II	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan	µg/g	0.38	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Alpha-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
gamma-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlordane	µg/g	0.05	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
op'-DDD	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDD	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DDD	µg/g	4.6	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
op'-DDE	ug/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDE	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DDE	µg/g	0.65	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
op'-DDT	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDT	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DDT	µg/g	1.4	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Dieldrin	µg/g	0.11	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endrin	µg/g	0.04	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methoxychlor	µg/g	1.6	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobenzene	µg/g	0.66	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobutadiene	µg/g	0.095	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachloroethane	µg/g	0.43	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1242	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1248	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1254	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1260	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By:

AGAT Laboratories

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

				SAMPLE DESCRIPTION:	BH8	BH5-B	BH1-B	BH1-B Dup	BH6-B
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**		**3607396**	**3607402**	**3607404**	**3607420**	**3607423**
Polychlorinated Biphenyls	µg/g	1.1	0.10		<0.10	<0.10	<0.10	<0.10	<0.10
Moisture Content	%		0.1		16.3	17.1	12.8	17.2	12.1
wet weight OC/PCB	g		NA		1041	10.25	10.32	10.74	10.18
Surrogate	**Unit**	**Acceptable Limits**							
TCMX	%	50-140			69	80	75	98	84
Decachlorobiphenyl	%	50-140			88	93	87	96	108

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S ICC MFT
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.

3607396-3607423 Results are based on the dry weight of the soil.
DDT total is a calculated parameter. The calculated value is the sum of op'DDT and pp'DDT.
DDD total is a calculated parameter. The calculated value is the sum of op'DDD and pp'DDD.
DDE total is a calculated parameter. The calculated value is the sum of op'DDE and pp'DDE.
Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.
Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Jinkal Patel

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

		SAMPLE DESCRIPTION:		BH6-B Dup
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**	**3607496**
Naphthalene	µg/g	28	0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05
Acenaphthene	µg/g	29	0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05
Phenanthrene	µg/g	16	0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	<0.05
Pyrene	µg/g	96	0.05	<0.05
Benz(a)anthracene	µg/g	0.96	0.05	<0.05
Chrysene	µg/g	9.6	0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.95	0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	<0.05
1 and 2 Methlynaphthalene	µg/g	42	0.05	<0.05
Moisture Content	%		0.1	15.3
Surrogate	**Unit**	**Acceptable Limits**		
Naphthalene-d8	%	50-140		85
Acridine-d9	%	50-140		79
Terphenyl-d14	%	50-140		85

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S ICC MFT
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.

3607496 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.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

				SAMPLE DESCRIPTION:	BH8	BH8 Dup	BH5-B	BH1-B	BH6-B	BH6-B Dup
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**		**3607396**	**3607400**	**3607402**	**3607404**	**3607423**	**3607496**
F1 (C6 - C10)	µg/g	65	5		<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5		<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	250	10		<10	<10	<10	<10	180	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10		<10	<10	<10	<10	180	<10
F3 (C16 to C34)	µg/g	2500	50		<50	<50	<50	<50	110	<50
F3 (C16 to C34) minus PAHs	µg/g		50		<50	<50	<50	<50	110	<50
F4 (C34 to C50)	µg/g	6600	50		<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50		NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1		16.3	11.0	17.1	12.8	12.1	15.3
Surrogate	**Unit**	**Acceptable Limits**								
Toluene-d8	% Recovery	50-140			108	105	116	106	116	107
Terphenyl	%	60-140			104	91	98	100	90	111

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S ICC MFT
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.

3607396-3607496 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
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.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Jinkal Patel

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

		SAMPLE DESCRIPTION:		BH8	BH8 Dup	BH5-B	BH1-B	BH6-B	BH6-B Dup
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607400	3607402	3607404	3607423	3607496
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.25	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.48	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	2.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	0.6	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	88	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	2.5	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.71	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.4	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.68	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.61	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	1.9	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	210	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.11	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	9	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	2.9	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By:

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

		SAMPLE DESCRIPTION:		BH8	BH8 Dup	BH5-B	BH1-B	BH6-B	BH6-B Dup
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**	**3607396**	**3607400**	**3607402**	**3607404**	**3607423**	**3607496**
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	1.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	43	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.57	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	1.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	30	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.081	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	88	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	16.3	11.0	17.1	12.8	12.1	15.3
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	% Recovery	50-140		116	120	105	98	112	110
4-Bromofluorobenzene	% Recovery	50-140		104	108	104	103	106	108

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S ICC MFT
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.

3607396-3607496 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

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Quality Assurance

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

Soil Analysis

RPT Date: Mar 18, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	3607396	3607396	<0.8	<0.8	NA	< 0.8	124%	70%	130%	95%	80%	120%	96%	70%	130%
Arsenic	3607396	3607396	6	5	14.6%	< 1	113%	70%	130%	100%	80%	120%	99%	70%	130%
Barium	3607396	3607396	114	80.5	34.4%	< 2.0	104%	70%	130%	104%	80%	120%	97%	70%	130%
Beryllium	3607396	3607396	0.8	0.8	NA	< 0.4	91%	70%	130%	109%	80%	120%	98%	70%	130%
Boron	3607396	3607396	18	15	NA	< 5	78%	70%	130%	106%	80%	120%	83%	70%	130%
Boron (Hot Water Soluble)	3607396	3607396	0.15	0.14	NA	< 0.10	97%	60%	140%	109%	70%	130%	117%	60%	140%
Cadmium	3607396	3607396	<0.5	<0.5	NA	< 0.5	96%	70%	130%	105%	80%	120%	105%	70%	130%
Chromium	3607396	3607396	25	24	NA	< 5	98%	70%	130%	108%	80%	120%	105%	70%	130%
Cobalt	3607396	3607396	14.8	14.6	1.4%	< 0.5	103%	70%	130%	111%	80%	120%	106%	70%	130%
Copper	3607396	3607396	37.9	34.3	10.1%	< 1.0	93%	70%	130%	111%	80%	120%	92%	70%	130%
Lead	3607396	3607396	9	9	2.2%	< 1	105%	70%	130%	105%	80%	120%	99%	70%	130%
Molybdenum	3607396	3607396	0.8	0.7	NA	< 0.5	106%	70%	130%	106%	80%	120%	103%	70%	130%
Nickel	3607396	3607396	29	28	3.4%	< 1	100%	70%	130%	108%	80%	120%	99%	70%	130%
Selenium	3607396	3607396	<0.8	<0.8	NA	< 0.8	121%	70%	130%	105%	80%	120%	108%	70%	130%
Silver	3607396	3607396	<0.5	<0.5	NA	< 0.5	100%	70%	130%	103%	80%	120%	98%	70%	130%
Thallium	3607396	3607396	<0.5	<0.5	NA	< 0.5	107%	70%	130%	106%	80%	120%	100%	70%	130%
Uranium	3607396	3607396	0.87	0.84	NA	< 0.50	108%	70%	130%	103%	80%	120%	102%	70%	130%
Vanadium	3607396	3607396	36.9	33.7	9.1%	< 0.4	106%	70%	130%	106%	80%	120%	108%	70%	130%
Zinc	3607396	3607396	67	61	8.8%	< 5	102%	70%	130%	112%	80%	120%	99%	70%	130%
Chromium, Hexavalent	3609562		<0.2	<0.2	NA	< 0.2	94%	70%	130%	97%	80%	120%	87%	70%	130%
Cyanide, Free	3548867		<0.040	<0.040	NA	< 0.040	99%	70%	130%	102%	80%	120%	104%	70%	130%
Mercury	3607396	3607396	<0.10	<0.10	NA	< 0.10	109%	70%	130%	103%	80%	120%	102%	70%	130%
Electrical Conductivity (2:1)	3607396	3607396	0.203	0.201	0.9%	< 0.005	99%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	3607396	3607396	0.451	0.446	1.1%	NA									
pH, 2:1 CaCl2 Extraction	3611052		6.33	6.66	5.0%	NA	101%	80%	120%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Particle Size by Sieve (Wet)

Sieve Analysis - 75 µm (retained)	3608902		31.20	30.40	2.6%	NA	103%	70%	130%						
Sieve Analysis - 75 µm (passing)	3608902		68.80	69.60	1.2%	NA									

Comments: NA Signifies Not Applicable

Certified By:

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 22T872007
PROJECT: 300044049
ATTENTION TO: Caitlin Dermott
SAMPLING SITE:Mississauga
SAMPLED BY:Caitlin Dermott, Sarah Beney

Trace Organics Analysis

RPT Date: Mar 18, 2022

PARAMETER	Batch	Sample Id	DUPLICATE Dup #1	DUPLICATE Dup #2	DUPLICATE RPD	Method Blank	REFERENCE MATERIAL Measured Value	REFERENCE MATERIAL Acceptable Limits Lower	REFERENCE MATERIAL Acceptable Limits Upper	METHOD BLANK SPIKE Recovery	METHOD BLANK SPIKE Acceptable Limits Lower	METHOD BLANK SPIKE Acceptable Limits Upper	MATRIX SPIKE Recovery	MATRIX SPIKE Acceptable Limits Lower	MATRIX SPIKE Acceptable Limits Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 - C10)	3611668		<5	<5	NA	< 5	NA	60%	140%	NA	60%	140%	93%	60%	140%
F2 (C10 to C16)	3607423	3607423	180	140	25.0%	< 10	102%	60%	140%	107%	60%	140%	86%	60%	140%
F3 (C16 to C34)	3607423	3607423	110	77	NA	< 50	104%	60%	140%	109%	60%	140%	66%	60%	140%
F4 (C34 to C50)	3607423	3607423	< 50	< 50	NA	< 50	96%	60%	140%	88%	60%	140%		60%	140%
O. Reg. 153(511) - BNA (full) + PAHs (Soil)															
Naphthalene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	114%	50%	140%	101%	50%	140%	96%	50%	140%
Acenaphthylene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	103%	50%	140%	92%	50%	140%	80%	50%	140%
Acenaphthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	116%	50%	140%	95%	50%	140%	83%	50%	140%
Fluorene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	117%	50%	140%	97%	50%	140%	84%	50%	140%
Phenanthrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	115%	50%	140%	105%	50%	140%	81%	50%	140%
Anthracene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	100%	50%	140%	76%	50%	140%
Fluoranthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	91%	50%	140%	76%	50%	140%	78%	50%	140%
Pyrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	87%	50%	140%	74%	50%	140%	65%	50%	140%
Benz(a)anthracene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	75%	50%	140%	64%	50%	140%	79%	50%	140%
Chrysene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	78%	50%	140%	65%	50%	140%	72%	50%	140%
Benzo(b)fluoranthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	105%	50%	140%	72%	50%	140%	64%	50%	140%
Benzo(k)fluoranthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	103%	50%	140%	72%	50%	140%	78%	50%	140%
Benzo(a)pyrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	101%	50%	140%	74%	50%	140%	68%	50%	140%
Indeno(1,2,3-cd)pyrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	93%	50%	140%	63%	50%	140%	67%	50%	140%
Dibenzo(a,h)anthracene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	101%	50%	140%	72%	50%	140%	69%	50%	140%
Benzo(g,h,i)perylene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	88%	50%	140%	73%	50%	140%	61%	50%	140%
Phenol	3607396	3607396	< 0.5	< 0.5	NA	< 0.5	91%	30%	130%	64%	30%	130%	112%	30%	130%
Bis(2-chloroethyl)ether	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	94%	50%	140%	75%	50%	140%	91%	50%	140%
2-Chlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	115%	50%	140%	82%	50%	140%	68%	50%	140%
o-Cresol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	105%	50%	140%	79%	50%	140%	68%	50%	140%
Bis(2-chloroisopropyl)ether	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	89%	50%	140%	97%	50%	140%	83%	50%	140%
m & p - Cresol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	109%	50%	140%	84%	50%	140%	71%	50%	140%
2,4-Dimethylphenol	3607396	3607396	< 0.2	< 0.2	NA	< 0.2	107%	30%	130%	78%	30%	130%	76%	30%	130%
2,4-Dichlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	100%	50%	140%	70%	50%	140%	72%	50%	140%
1,2,4-Trichlorobenzene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	109%	50%	140%	106%	50%	140%	94%	50%	140%
p-Chloroaniline	3607396	3607396	< 0.5	< 0.5	NA	< 0.5	64%	30%	130%	65%	30%	130%	64%	30%	130%
2,4,6-Trichlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	78%	50%	140%	96%	50%	140%	77%	50%	140%
2,4,5-Trichlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	85%	50%	140%	75%	50%	140%	83%	50%	140%
1,1-Biphenyl	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	NA	50%	140%	106%	50%	140%	94%	50%	140%
Dimethyl Phthalate	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	110%	50%	140%	93%	50%	140%	78%	50%	140%
Diethyl Phthalate	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	100%	50%	140%	85%	50%	140%	83%	50%	140%
Pentachlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	50%	50%	140%	104%	50%	140%	80%	50%	140%
3,3'-Dichlorobenzidine	3607396	3607396	< 0.5	< 0.5	NA	< 0.5	51%	30%	130%	100%	30%	130%	100%	30%	130%
2,4-Dinitrophenol	3607396	3607396	< 2.0	< 2.0	NA	< 2.0	53%	30%	130%	81%	30%	130%	53%	30%	130%

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 22T872007
PROJECT: 300044049
ATTENTION TO: Caitlin Dermott
SAMPLING SITE:Mississauga
SAMPLED BY:Caitlin Dermott, Sarah Beney

Trace Organics Analysis (Continued)

RPT Date: Mar 18, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Bis(2-Ethylhexyl)phthalate	3607396	3607396	< 0.2	< 0.2	NA	< 0.2	92%	50%	140%	74%	50%	140%	61%	50%	140%
O. Reg. 153(511) - OC Pesticides + PCBs (Soil)															
Gamma-Hexachlorocyclohexane	3609737		< 0.005	< 0.005	NA	< 0.005	80%	50%	140%	86%	50%	140%	83%	50%	140%
Heptachlor	3609737		< 0.005	< 0.005	NA	< 0.005	86%	50%	140%	96%	50%	140%	91%	50%	140%
Aldrin	3609737		< 0.005	< 0.005	NA	< 0.005	95%	50%	140%	90%	50%	140%	83%	50%	140%
Heptachlor Epoxide	3609737		< 0.005	< 0.005	NA	< 0.005	89%	50%	140%	79%	50%	140%	80%	50%	140%
Endosulfan I	3609737		< 0.005	< 0.005	NA	< 0.005	90%	50%	140%	84%	50%	140%	83%	50%	140%
Endosulfan II	3609737		< 0.005	< 0.005	NA	< 0.005	93%	50%	140%	80%	50%	140%	81%	50%	140%
Alpha-Chlordane	3609737		< 0.005	< 0.005	NA	< 0.005	89%	50%	140%	88%	50%	140%	83%	50%	140%
gamma-Chlordane	3609737		< 0.005	< 0.005	NA	< 0.005	91%	50%	140%	88%	50%	140%	83%	50%	140%
op'-DDD	3609737		< 0.005	< 0.005	NA	< 0.005	91%	50%	140%	94%	50%	140%	90%	50%	140%
pp'-DDD	3609737		< 0.005	< 0.005	NA	< 0.005	83%	50%	140%	95%	50%	140%	88%	50%	140%
op'-DDE	3609737		< 0.005	< 0.005	NA	< 0.005	90%	50%	140%	101%	50%	140%	100%	50%	140%
pp'-DDE	3609737		< 0.005	< 0.005	NA	< 0.005	84%	50%	140%	100%	50%	140%	90%	50%	140%
op'-DDT	3609737		< 0.005	< 0.005	NA	< 0.005	88%	50%	140%	101%	50%	140%	97%	50%	140%
pp'-DDT	3609737		< 0.005	< 0.005	NA	< 0.005	80%	50%	140%	92%	50%	140%	97%	50%	140%
Dieldrin	3609737		< 0.005	< 0.005	NA	< 0.005	90%	50%	140%	85%	50%	140%	84%	50%	140%
Endrin	3609737		< 0.005	< 0.005	NA	< 0.005	84%	50%	140%	76%	50%	140%	89%	50%	140%
Methoxychlor	3609737		< 0.005	< 0.005	NA	< 0.005	80%	50%	140%	89%	50%	140%	98%	50%	140%
Hexachlorobenzene	3609737		< 0.005	< 0.005	NA	< 0.005	98%	50%	140%	98%	50%	140%	90%	50%	140%
Hexachlorobutadiene	3609737		< 0.01	< 0.01	NA	< 0.01	82%	50%	140%	80%	50%	140%	87%	50%	140%
Hexachloroethane	3609737		< 0.01	< 0.01	NA	< 0.01	89%	50%	140%	95%	50%	140%	88%	50%	140%
Aroclor 1242	3609737		< 0.10	< 0.10	NA	< 0.10	98%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1248	3609737		< 0.10	< 0.10	NA	< 0.10	92%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1254	3609737		< 0.10	< 0.10	NA	< 0.10	100%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1260	3609737		< 0.10	< 0.10	NA	< 0.10	99%	50%	140%	NA	50%	140%	NA	50%	140%
Polychlorinated Biphenyls	3609737		< 0.10	< 0.10	NA	< 0.10	100%	50%	140%	101%	50%	140%	110%	50%	140%
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	3611668		<0.05	<0.05	NA	< 0.05	72%	50%	140%	73%	50%	140%	100%	50%	140%
Vinyl Chloride	3611668		<0.02	<0.02	NA	< 0.02	111%	50%	140%	91%	50%	140%	111%	50%	140%
Bromomethane	3611668		<0.05	<0.05	NA	< 0.05	106%	50%	140%	100%	50%	140%	86%	50%	140%
Trichlorofluoromethane	3611668		<0.05	<0.05	NA	< 0.05	105%	50%	140%	102%	50%	140%	104%	50%	140%
Acetone	3611668		<0.50	<0.50	NA	< 0.50	100%	50%	140%	97%	50%	140%	95%	50%	140%
1,1-Dichloroethylene	3611668		<0.05	<0.05	NA	< 0.05	84%	50%	140%	102%	60%	130%	102%	50%	140%
Methylene Chloride	3611668		<0.05	<0.05	NA	< 0.05	119%	50%	140%	94%	60%	130%	98%	50%	140%
Trans- 1,2-Dichloroethylene	3611668		<0.05	<0.05	NA	< 0.05	92%	50%	140%	88%	60%	130%	102%	50%	140%
Methyl tert-butyl Ether	3611668		<0.05	<0.05	NA	< 0.05	87%	50%	140%	94%	60%	130%	111%	50%	140%
1,1-Dichloroethane	3611668		<0.02	<0.02	NA	< 0.02	86%	50%	140%	115%	60%	130%	90%	50%	140%
Methyl Ethyl Ketone	3611668		<0.50	<0.50	NA	< 0.50	106%	50%	140%	102%	50%	140%	99%	50%	140%

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 22T872007
PROJECT: 300044049
ATTENTION TO: Caitlin Dermott
SAMPLING SITE:Mississauga
SAMPLED BY:Caitlin Dermott, Sarah Beney

Trace Organics Analysis (Continued)

RPT Date: Mar 18, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Cis- 1,2-Dichloroethylene	3611668		<0.02	<0.02	NA	< 0.02	77%	50%	140%	81%	60%	130%	94%	50%	140%
Chloroform	3611668		<0.04	<0.04	NA	< 0.04	108%	50%	140%	105%	60%	130%	93%	50%	140%
1,2-Dichloroethane	3611668		<0.03	<0.03	NA	< 0.03	103%	50%	140%	102%	60%	130%	82%	50%	140%
1,1,1-Trichloroethane	3611668		<0.05	<0.05	NA	< 0.05	97%	50%	140%	92%	60%	130%	107%	50%	140%
Carbon Tetrachloride	3611668		<0.05	<0.05	NA	< 0.05	116%	50%	140%	103%	60%	130%	78%	50%	140%
Benzene	3611668		<0.02	<0.02	NA	< 0.02	86%	50%	140%	90%	60%	130%	97%	50%	140%
1,2-Dichloropropane	3611668		<0.03	<0.03	NA	< 0.03	106%	50%	140%	96%	60%	130%	78%	50%	140%
Trichloroethylene	3611668		<0.03	<0.03	NA	< 0.03	98%	50%	140%	103%	60%	130%	94%	50%	140%
Bromodichloromethane	3611668		<0.05	<0.05	NA	< 0.05	82%	50%	140%	87%	60%	130%	77%	50%	140%
Methyl Isobutyl Ketone	3611668		<0.50	<0.50	NA	< 0.50	104%	50%	140%	101%	50%	140%	100%	50%	140%
1,1,2-Trichloroethane	3611668		<0.04	<0.04	NA	< 0.04	107%	50%	140%	113%	60%	130%	100%	50%	140%
Toluene	3611668		<0.05	<0.05	NA	< 0.05	111%	50%	140%	91%	60%	130%	91%	50%	140%
Dibromochloromethane	3611668		<0.05	<0.05	NA	< 0.05	114%	50%	140%	102%	60%	130%	105%	50%	140%
Ethylene Dibromide	3611668		<0.04	<0.04	NA	< 0.04	112%	50%	140%	108%	60%	130%	84%	50%	140%
Tetrachloroethylene	3611668		<0.05	<0.05	NA	< 0.05	78%	50%	140%	97%	60%	130%	87%	50%	140%
1,1,1,2-Tetrachloroethane	3611668		<0.04	<0.04	NA	< 0.04	99%	50%	140%	104%	60%	130%	110%	50%	140%
Chlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	87%	50%	140%	106%	60%	130%	120%	50%	140%
Ethylbenzene	3611668		<0.05	<0.05	NA	< 0.05	88%	50%	140%	100%	60%	130%	112%	50%	140%
m & p-Xylene	3611668		<0.05	<0.05	NA	< 0.05	109%	50%	140%	106%	60%	130%	115%	50%	140%
Bromoform	3611668		<0.05	<0.05	NA	< 0.05	101%	50%	140%	98%	60%	130%	119%	50%	140%
Styrene	3611668		<0.05	<0.05	NA	< 0.05	81%	50%	140%	102%	60%	130%	83%	50%	140%
1,1,2,2-Tetrachloroethane	3611668		<0.05	<0.05	NA	< 0.05	89%	50%	140%	96%	60%	130%	83%	50%	140%
o-Xylene	3611668		<0.05	<0.05	NA	< 0.05	99%	50%	140%	100%	60%	130%	102%	50%	140%
1,3-Dichlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	98%	50%	140%	108%	60%	130%	81%	50%	140%
1,4-Dichlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	93%	50%	140%	95%	60%	130%	73%	50%	140%
1,2-Dichlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	99%	50%	140%	106%	60%	130%	89%	50%	140%
n-Hexane	3611668		<0.05	<0.05	NA	< 0.05	94%	50%	140%	100%	60%	130%	102%	50%	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

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Method Summary

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE
Sieve Analysis - 75 µm (retained)	INOR-93-6065	ASTM D1140	SIEVE
Sieve Analysis - 75 µm (passing)	INOR-93-6065	ASTM D1140	SIEVE

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Method Summary

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Acenaphthylene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Acenaphthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Fluorene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Phenanthrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benz(a)anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Chrysene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(b)fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(k)fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(a)pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Dibenzo(a,h)anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(g,h,i)perylene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Phenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-chloroethyl)ether	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2-Chlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
o-Cresol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-chloroisopropyl)ether	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
m & p - Cresol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dimethylphenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1,2,4-Trichlorobenzene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
p-Chloroaniline	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	CALCULATION

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Method Summary

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
2,4,6-Trichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,5-Trichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1,1-Biphenyl	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Dimethyl Phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4 and 2,6-Dinitrotoluene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	CALCULATION
Diethyl Phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Pentachlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
3,3'-Dichlorobenzidine	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dinitrophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-Ethylhexyl)phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
phenol-d6 surrogate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2-Fluorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,6-Tribromophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Chrysene-d12	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Moisture Content	VOL-91-5009	CCME Tier 1 Method	BALANCE
wet weight BNA	ORG-91-5114		BALANCE
Gamma-Hexachlorocyclohexane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Heptachlor	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Aldrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Heptachlor Epoxide	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan I	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan II	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Alpha-Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
gamma-Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION
op'-DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION

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Method Summary

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
op'-DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
op'-DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION
Dieldrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Methoxychlor	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachlorobenzene	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachlorobutadiene	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachloroethane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Aroclor 1242	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1248	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1254	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1260	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
TCMX	ORG-91-5113	modified from EPA SW-846 3541, 3620,8081	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541, 3620,8081	GC/ECD
wet weight OC/PCB	ORG-91-5113		BALANCE
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS

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Method Summary

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Benz(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
F1 (C6 - C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

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

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE

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CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
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Orangeville, ON L9W3R4
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ATTENTION TO: Sarah Beney
PROJECT: 300044049
AGAT WORK ORDER: 23T042360
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
DATE REPORTED: Jul 11, 2023
PAGES (INCLUDING COVER): 9
VERSION*: 1

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

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
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- *The test results reported herewith relate only to the samples as received by the laboratory.*
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Certificate of Analysis

AGAT WORK ORDER: 23T042360

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

Particle Size by Sieve (Wet)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-11

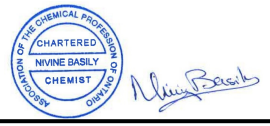
				SAMPLE DESCRIPTION:	RW-1	RW-2
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2023-06-29 13:45	2023-06-29 13:15
Parameter	**Unit**	**G / S**	**RDL**		**5110953**	**5110955**
Sieve Analysis - 75 µm (retained)	%		NA		14.80	17.50
Sieve Analysis - 75 µm (passing)	%		NA		85.20	82.50
Soil Texture (Toronto)					Fine	Fine

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community 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.

5110953-5110955 Value reported is the amount of sample passing through or retained on sieve after wash with water and represents proportion by weight particles smaller or larger than indicated sieve size.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 23T042360

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

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

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-11

SAMPLE DESCRIPTION:				RW-1	RW-2	RW-3	RW-DUP
SAMPLE TYPE:				Soil	Soil	Soil	Soil
DATE SAMPLED:				2023-06-29 13:45	2023-06-29 13:15	2023-06-29 12:35	2023-06-29 12:35
Parameter	Unit	G / S	RDL	5110953	5110955	5110956	5110957
Hexachloroethane	µg/g	0.43	0.005	<0.005	<0.005	<0.005	<0.005
Gamma-Hexachlorocyclohexane	µg/g	0.063	0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor	µg/g	0.19	0.005	<0.005	<0.005	<0.005	<0.005
Aldrin	µg/g	0.11	0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor Epoxide	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan I	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan II	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan	µg/g	0.38	0.005	<0.005	<0.005	<0.005	<0.005
Alpha-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
gamma-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
Chlordane	µg/g	0.05	0.007	<0.007	<0.007	<0.007	<0.007
op'-DDE	ug/g		0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDE	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
DDE	µg/g	0.65	0.007	<0.007	<0.007	<0.007	<0.007
op'-DDD	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDD	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
DDD	µg/g	4.6	0.007	<0.007	<0.007	<0.007	<0.007
op'-DDT	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDT	µg/g		0.005	<0.005	<0.005	<0.005	<0.005
DDT (Total)	µg/g	1.4	0.007	<0.007	<0.007	<0.007	<0.007
Dieldrin	µg/g	0.11	0.005	<0.005	<0.005	<0.005	<0.005
Endrin	µg/g	0.04	0.005	<0.005	<0.005	<0.005	<0.005
Methoxychlor	µg/g	1.6	0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobenzene	µg/g	0.66	0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobutadiene	µg/g	0.095	0.01	<0.01	<0.01	<0.01	<0.01
Moisture Content	%		0.1	20.2	19.1	14.1	17.6
wet weight OC	g		0.005	10.4	10.6	10.6	10.3

Certified By: N Popowkolof

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Certificate of Analysis

AGAT WORK ORDER: 23T042360

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

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

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-11

		SAMPLE DESCRIPTION:	RW-1	RW-2	RW-3	RW-DUP
		SAMPLE TYPE:	Soil	Soil	Soil	Soil
		DATE SAMPLED:	2023-06-29 13:45	2023-06-29 13:15	2023-06-29 12:35	2023-06-29 12:35
Surrogate	Unit	Acceptable Limits	5110953	5110955	5110956	5110957
TCMX	%	50-140	88	102	79	92
Decachlorobiphenyl	%	50-140	92	104	90	96

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community 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.

5110953-5110957 Results are based on the dry weight of the soil.
DDT total is a calculated parameter. The calculated value is the sum of op'DDT and pp'DDT.
DDD total is a calculated parameter. The calculated value is the sum of op'DDD and pp'DDD.
DDE total is a calculated parameter. The calculated value is the sum of op'DDE and pp'DDE.
Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.
Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Quality Assurance

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

AGAT WORK ORDER: 23T042360

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

Soil Analysis

RPT Date: Jul 11, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Particle Size by Sieve (Wet)															
Sieve Analysis - 75 µm (retained)	5120980		86.96	87.70	0.8%	NA	101%	75%	125%						
Sieve Analysis - 75 µm (passing)	5120980		13.04	12.30	5.8%	NA									

Comments: NA Signifies Not Applicable

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 23T042360
PROJECT: 300044049
ATTENTION TO: Sarah Beney
SAMPLING SITE:Mississauga
SAMPLED BY:Sarah Beney

Trace Organics Analysis

RPT Date: Jul 11, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - OC Pesticides (Soil)															
Hexachloroethane	5111109		< 0.005	< 0.005	NA	< 0.005	103%	50%	140%	108%	50%	140%	102%	50%	140%
Gamma-Hexachlorocyclohexane	5111109		< 0.005	< 0.005	NA	< 0.005	97%	50%	140%	113%	50%	140%	92%	50%	140%
Heptachlor	5111109		< 0.005	< 0.005	NA	< 0.005	118%	50%	140%	106%	50%	140%	106%	50%	140%
Aldrin	5111109		< 0.005	< 0.005	NA	< 0.005	103%	50%	140%	101%	50%	140%	105%	50%	140%
Heptachlor Epoxide	5111109		< 0.005	< 0.005	NA	< 0.005	104%	50%	140%	102%	50%	140%	107%	50%	140%
Endosulfan I	5111109		< 0.005	< 0.005	NA	< 0.005	106%	50%	140%	107%	50%	140%	102%	50%	140%
Endosulfan II	5111109		< 0.005	< 0.005	NA	< 0.005	102%	50%	140%	116%	50%	140%	106%	50%	140%
Alpha-Chlordane	5111109		< 0.005	< 0.005	NA	< 0.005	105%	50%	140%	111%	50%	140%	113%	50%	140%
gamma-Chlordane	5111109		< 0.005	< 0.005	NA	< 0.005	108%	50%	140%	112%	50%	140%	114%	50%	140%
op'-DDE	5111109		< 0.005	< 0.005	NA	< 0.005	117%	50%	140%	103%	50%	140%	106%	50%	140%
pp'-DDE	5111109		0.033	0.037	11.4%	< 0.005	108%	50%	140%	106%	50%	140%	108%	50%	140%
op'-DDD	5111109		< 0.005	< 0.005	NA	< 0.005	118%	50%	140%	109%	50%	140%	110%	50%	140%
pp'-DDD	5111109		< 0.005	< 0.005	NA	< 0.005	101%	50%	140%	110%	50%	140%	113%	50%	140%
op'-DDT	5111109		< 0.005	< 0.005	NA	< 0.005	107%	50%	140%	105%	50%	140%	106%	50%	140%
pp'-DDT	5111109		0.010	0.010	NA	< 0.005	102%	50%	140%	92%	50%	140%	92%	50%	140%
Dieldrin	5111109		< 0.005	< 0.005	NA	< 0.005	98%	50%	140%	103%	50%	140%	106%	50%	140%
Endrin	5111109		< 0.005	< 0.005	NA	< 0.005	107%	50%	140%	114%	50%	140%	102%	50%	140%
Methoxychlor	5111109		< 0.005	< 0.005	NA	< 0.005	115%	50%	140%	102%	50%	140%	105%	50%	140%
Hexachlorobenzene	5111109		< 0.005	< 0.005	NA	< 0.005	116%	50%	140%	100%	50%	140%	117%	50%	140%
Hexachlorobutadiene	5111109		< 0.01	< 0.01	NA	< 0.01	102%	50%	140%	104%	50%	140%	106%	50%	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: N Popnikolof

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Method Summary

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

AGAT WORK ORDER: 23T042360

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Sieve Analysis - 75 µm (retained)	INOR-93-6065	Modified from ASTM D1140-17	SIEVE
Sieve Analysis - 75 µm (passing)	INOR-93-6065	Modified from ASTM D1140-17	SIEVE

AGAT Laboratories

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Method Summary

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

AGAT WORK ORDER: 23T042360

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

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

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Method Summary

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

AGAT WORK ORDER: 23T042360

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
wet weight OC	ORG-91-5113		BALANCE

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CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
15 Townline
Orangeville, ON L9W3R4
(519) 941-5331
ATTENTION TO: Sarah Beney
PROJECT: 300044049
AGAT WORK ORDER: 23T042364
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
DATE REPORTED: Jul 12, 2023
PAGES (INCLUDING COVER): 23
VERSION*: 1

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

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
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Certificate of Analysis

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-2
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-06-29 16:00
Parameter	Unit	G / S	RDL	5110976
Antimony	µg/g	50	0.8	<0.8
Arsenic	µg/g	18	1	6
Barium	µg/g	670	2.0	70.7
Beryllium	µg/g	10	0.5	0.8
Boron	µg/g	120	5	8
Boron (Hot Water Soluble)	µg/g	2	0.10	0.24
Cadmium	µg/g	1.9	0.5	<0.5
Chromium	µg/g	160	5	24
Cobalt	µg/g	100	0.8	11.5
Copper	µg/g	300	1.0	29.1
Lead	µg/g	120	1	29
Molybdenum	µg/g	40	0.5	<0.5
Nickel	µg/g	340	1	23
Selenium	µg/g	5.5	0.8	<0.8
Silver	µg/g	50	0.5	<0.5
Thallium	µg/g	3.3	0.5	<0.5
Uranium	µg/g	33	0.50	0.55
Vanadium	µg/g	86	2.0	30.9
Zinc	µg/g	340	5	80
Chromium, Hexavalent	µg/g	10	0.2	<0.2
Cyanide, WAD	µg/g	0.051	0.040	<0.040
Mercury	µg/g	20	0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	1.4	0.005	0.223
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	N/A	0.421
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	6.88

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2023-06-30 **DATE REPORTED: 2023-07-12**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community 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.

5110976 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

Particle Size by Sieve (Wet)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

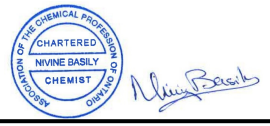
			SAMPLE DESCRIPTION:	**BR-2**
			SAMPLE TYPE:	**Soil**
			DATE SAMPLED:	**2023-06-29 16:00**
Parameter	**Unit**	**G / S**	**RDL**	**5110976**
Sieve Analysis - 75 µm (retained)	%		NA	20.50
Sieve Analysis - 75 µm (passing)	%		NA	79.50
Soil Texture (Toronto)				Fine

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community 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.

5110976 Value reported is the amount of sample passing through or retained on sieve after wash with water and represents proportion by weight particles smaller or larger than indicated sieve size.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

O. Reg. 153(511) - BNA (full) + PAHs (Soil)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-2
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-06-29 16:00
Parameter	Unit	G / S	RDL	5110976
Naphthalene	µg/g	28	0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05
Acenaphthene	µg/g	29	0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05
Phenanthrene	µg/g	16	0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	<0.05
Pyrene	µg/g	96	0.05	<0.05
Benz(a)anthracene	µg/g	0.96	0.05	<0.05
Chrysene	µg/g	9.6	0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.95	0.05	<0.05
Dibenzo(a,h)anthracene	µg/g	0.1	0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	<0.05
Phenol	µg/g	9.4	0.5	<0.5
Bis(2-chloroethyl)ether	µg/g	0.5	0.1	<0.1
2-Chlorophenol	µg/g	3.9	0.1	<0.1
o-Cresol	µg/g		0.1	<0.1
Bis(2-chloroisopropyl)ether	µg/g	13	0.1	<0.1
m & p - Cresol	µg/g		0.1	<0.1
2,4-Dimethylphenol	µg/g	53	0.2	<0.2
2,4-Dichlorophenol	µg/g	0.27	0.1	<0.1
1,2,4-Trichlorobenzene	µg/g	16	0.05	<0.05
p-Chloroaniline	µg/g	0.53	0.5	<0.5
1 and 2 Methlynaphthalene	µg/g	42	0.05	<0.05
2,4,6-Trichlorophenol	µg/g	2.9	0.1	<0.1
2,4,5-Trichlorophenol	µg/g	10	0.1	<0.1

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

O. Reg. 153(511) - BNA (full) + PAHs (Soil)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-2
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-06-29 16:00
Parameter	**Unit**	**G / S**	**RDL**	**5110976**
1,1-Biphenyl	µg/g	210	0.05	<0.05
Dimethyl Phthalate	µg/g	0.5	0.1	<0.1
2,4 and 2,6-Dinitrotoluene	µg/g	0.5	0.5	<0.5
Diethyl Phthalate	µg/g	0.5	0.1	<0.1
Pentachlorophenol	µg/g	3.3	0.1	<0.1
3,3'-Dichlorobenzidine	µg/g		0.5	<0.5
2,4-Dinitrophenol	µg/g	2.9	2.0	<2.0
Bis(2-Ethylhexyl)phthalate	µg/g	35	0.2	<0.2
Moisture Content	%		0.1	16.8
wet weight BNA	g		0.01	10.46
Surrogate	**Unit**	**Acceptable Limits**		
phenol-d6 surrogate	%	50-140		79
2-Fluorophenol	%	50-140		105
2,4,6-Tribromophenol	%	50-140		85
Chrysene-d12	%	50-140		79

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community 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.

5110976 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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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

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

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-1	BR-2	BR-3
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2023-06-29 15:30	2023-06-29 16:00	2023-06-29 17:20
Parameter	Unit	G / S	RDL	5110974	5110976	5110977
Gamma-Hexachlorocyclohexane	µg/g	0.063	0.005	<0.005	<0.005	<0.005
Heptachlor	µg/g	0.19	0.005	<0.005	<0.005	<0.005
Aldrin	µg/g	0.11	0.005	<0.005	<0.005	<0.005
Heptachlor Epoxide	µg/g	0.05	0.005	<0.005	<0.005	<0.005
Endosulfan I	µg/g		0.005	<0.005	<0.005	<0.005
Endosulfan II	µg/g		0.005	<0.005	<0.005	<0.005
Endosulfan	µg/g	0.38	0.005	<0.005	<0.005	<0.005
Alpha-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005
gamma-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005
Chlordane	µg/g	0.05	0.007	<0.007	<0.007	<0.007
op'-DDD	µg/g		0.005	<0.005	<0.005	<0.005
pp'-DDD	µg/g		0.005	<0.005	<0.005	<0.005
DDD	µg/g	4.6	0.007	<0.007	<0.007	<0.007
op'-DDE	ug/g		0.005	<0.005	<0.005	<0.005
pp'-DDE	µg/g		0.005	0.010	<0.005	0.291
DDE	µg/g	0.65	0.007	0.010	<0.007	0.291
op'-DDT	µg/g		0.005	<0.005	<0.005	0.012
pp'-DDT	µg/g		0.005	<0.005	<0.005	0.048
DDT	µg/g	1.4	0.007	<0.007	<0.007	0.060
Dieldrin	µg/g	0.11	0.005	<0.005	<0.005	<0.005
Endrin	µg/g	0.04	0.005	<0.005	<0.005	<0.005
Methoxychlor	µg/g	1.6	0.005	<0.005	<0.005	<0.005
Hexachlorobenzene	µg/g	0.66	0.005	<0.005	<0.005	<0.005
Hexachlorobutadiene	µg/g	0.095	0.01	<0.01	<0.01	<0.01
Hexachloroethane	µg/g	0.43	0.005	<0.005	<0.005	<0.005
Aroclor 1242	µg/g		0.10	<0.10	<0.10	<0.10
Aroclor 1248	µg/g		0.10	<0.10	<0.10	<0.10
Aroclor 1254	µg/g		0.10	<0.10	<0.10	<0.10
Aroclor 1260	µg/g		0.10	<0.10	<0.10	<0.10

Certified By: N Popowich

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

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

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

	SAMPLE DESCRIPTION:			**BR-1**	**BR-2**	**BR-3**
	SAMPLE TYPE:			**Soil**	**Soil**	**Soil**
	DATE SAMPLED:			**2023-06-29 15:30**	**2023-06-29 16:00**	**2023-06-29 17:20**
Parameter	**Unit**	**G / S**	**RDL**	**5110974**	**5110976**	**5110977**
Polychlorinated Biphenyls	µg/g	1.1	0.10	<0.10	<0.10	<0.10
Moisture Content	%		0.1	22.4	16.8	10.4
Surrogate	**Unit**	**Acceptable Limits**				
TCMX	%	50-140		86	100	92
Decachlorobiphenyl	%	50-140		90	108	92

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community 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.

5110974-5110977 Results are based on the dry weight of the soil.
DDT total is a calculated parameter. The calculated value is the sum of op'DDT and pp'DDT.
DDD total is a calculated parameter. The calculated value is the sum of op'DDD and pp'DDD.
DDE total is a calculated parameter. The calculated value is the sum of op'DDE and pp'DDE.
Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.
Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

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

DATE RECEIVED: 2023-06-30 **DATE REPORTED: 2023-07-12**

				SAMPLE DESCRIPTION:	BR-Dup2
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2023-06-29 17:20
Parameter	**Unit**	**G / S**	**RDL**	**5110981**	
Polychlorinated Biphenyls	µg/g	1.1	0.1	<0.1	
Moisture Content	%		0.1	12.6	
Surrogate	**Unit**	**Acceptable Limits**			
Decachlorobiphenyl	%	50-140		84	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community 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.

5110981 Results are based on the dry weight of soil extracted.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowich

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-2
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-06-29 16:00
Parameter	**Unit**	**G / S**	**RDL**	**5110976**
F1 (C6 - C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
F2 (C10 to C16)	µg/g	250	10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10
F3 (C16 to C34)	µg/g	2500	50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	<50
F4 (C34 to C50)	µg/g	6600	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA
Moisture Content	%		0.1	16.8
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	%	50-140		110
Terphenyl	%	60-140		97

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community 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.

5110976 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
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.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowich

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

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

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-1	BR-3	BR-Dup1
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2023-06-29 15:30	2023-06-29 17:20	2023-06-29 17:20
Parameter	**Unit**	**G / S**	**RDL**	**5110974**	**5110977**	**5110978**
F1 (C6 - C10)	µg/g	65	5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5
F2 (C10 to C16)	µg/g	250	10	<10	<10	<10
F3 (C16 to C34)	µg/g	2500	50	<50	<50	<50
F4 (C34 to C50)	µg/g	6600	50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA	NA	NA
Moisture Content	%		0.1	22.4	10.4	21.3
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	%	50-140		108	108	109
Terphenyl	%	60-140		78	100	76

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community 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.

5110974-5110978 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-1	BR-2	BR-3	BR-Dup1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		2023-06-29 15:30	2023-06-29 16:00	2023-06-29 17:20	2023-06-29 17:20
Parameter	Unit	G / S	RDL	5110974	5110976	5110977	5110978
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.25	0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.48	0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	2	0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	2.5	0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	0.6	0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	88	0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	2.5	0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	12	0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.71	0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.4	0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.68	0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.61	0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	1.9	0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	210	0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.11	0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	9	0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	2.9	0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.5	0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05

Certified By: NPopowkolof

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AGAT WORK ORDER: 23T042364

PROJECT: 300044049

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

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2023-06-30

DATE REPORTED: 2023-07-12

		SAMPLE DESCRIPTION:		BR-1	BR-2	BR-3	BR-Dup1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		2023-06-29 15:30	2023-06-29 16:00	2023-06-29 17:20	2023-06-29 17:20
Parameter	**Unit**	**G / S**	**RDL**	**5110974**	**5110976**	**5110977**	**5110978**
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	1.7	0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	43	0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	12	0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.57	0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	1.7	0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	30	0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.081	0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	88	0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	22.4	16.8	10.4	21.3
Surrogate	**Unit**	**Acceptable Limits**					
Toluene-d8	% Recovery	50-140		108	110	108	109
4-Bromofluorobenzene	% Recovery	50-140		70	70	69	68

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community 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.

5110974-5110978 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Quality Assurance

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

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

Soil Analysis

RPT Date: Jul 12, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	5120954		<0.8	<0.8	NA	< 0.8	90%	70%	130%	94%	80%	120%	83%	70%	130%
Arsenic	5120954		2	2	NA	< 1	109%	70%	130%	98%	80%	120%	100%	70%	130%
Barium	5120954		41.0	40.4	1.5%	< 2.0	95%	70%	130%	99%	80%	120%	96%	70%	130%
Beryllium	5120954		<0.5	<0.5	NA	< 0.5	87%	70%	130%	97%	80%	120%	96%	70%	130%
Boron	5120954		<5	<5	NA	< 5	89%	70%	130%	103%	80%	120%	103%	70%	130%
Boron (Hot Water Soluble)	5113887		0.21	0.24	NA	< 0.10	92%	60%	140%	95%	70%	130%	95%	60%	140%
Cadmium	5120954		<0.5	<0.5	NA	< 0.5	99%	70%	130%	99%	80%	120%	95%	70%	130%
Chromium	5120954		14	14	NA	< 5	93%	70%	130%	112%	80%	120%	111%	70%	130%
Cobalt	5120954		4.5	4.8	6.5%	< 0.8	99%	70%	130%	107%	80%	120%	107%	70%	130%
Copper	5120954		5.6	5.8	3.5%	< 1.0	90%	70%	130%	100%	80%	120%	97%	70%	130%
Lead	5120954		6	6	0.0%	< 1	102%	70%	130%	99%	80%	120%	100%	70%	130%
Molybdenum	5120954		1.3	1.3	NA	< 0.5	101%	70%	130%	104%	80%	120%	104%	70%	130%
Nickel	5120954		11	12	8.7%	< 1	96%	70%	130%	103%	80%	120%	98%	70%	130%
Selenium	5120954		<0.8	<0.8	NA	< 0.8	117%	70%	130%	101%	80%	120%	102%	70%	130%
Silver	5120954		<0.5	<0.5	NA	< 0.5	87%	70%	130%	97%	80%	120%	96%	70%	130%
Thallium	5120954		<0.5	<0.5	NA	< 0.5	99%	70%	130%	104%	80%	120%	106%	70%	130%
Uranium	5120954		0.63	0.59	NA	< 0.50	100%	70%	130%	102%	80%	120%	109%	70%	130%
Vanadium	5120954		22.4	22.4	0.0%	< 2.0	97%	70%	130%	102%	80%	120%	96%	70%	130%
Zinc	5120954		17	18	NA	< 5	98%	70%	130%	105%	80%	120%	110%	70%	130%
Chromium, Hexavalent	5110045		<0.2	<0.2	NA	< 0.2	89%	70%	130%	90%	80%	120%	84%	70%	130%
Cyanide, WAD	5114892		<0.040	<0.040	NA	< 0.040	103%	70%	130%	103%	80%	120%	76%	70%	130%
Mercury	5120954		<0.10	<0.10	NA	< 0.10	101%	70%	130%	92%	80%	120%	124%	70%	130%
Electrical Conductivity (2:1)	5119106		2.43	2.57	5.6%	< 0.005	109%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	5114690		2.02	1.98	2.0%	NA									
pH, 2:1 CaCl2 Extraction	5114128		6.79	7.02	3.3%	NA	101%	80%	120%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Particle Size by Sieve (Wet)

Sieve Analysis - 75 µm (retained)	5120980	86.96	87.70	0.8%	NA	101%	75%	125%	
Sieve Analysis - 75 µm (passing)	5120980	13.04	12.30	5.8%	NA				

Comments: NA Signifies Not Applicable

Certified By:

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 23T042364
PROJECT: 300044049
ATTENTION TO: Sarah Beney
SAMPLING SITE:Mississauga
SAMPLED BY:Sarah Beney

Trace Organics Analysis

RPT Date: Jul 12, 2023

PARAMETER	Batch	Sample Id	DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
			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 (with VOC) (Soil)															
F1 (C6 - C10)	5110950		<5	<5	NA	< 5	95%	60%	140%	117%	60%	140%	96%	60%	140%
F2 (C10 to C16)	5114747		10	12	NA	< 10	106%	60%	140%	95%	60%	140%	134%	60%	140%
F3 (C16 to C34)	5114747		< 50	< 50	NA	< 50	106%	60%	140%	71%	60%	140%	105%	60%	140%
F4 (C34 to C50)	5114747		< 50	< 50	NA	< 50	93%	60%	140%	102%	60%	140%	96%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	5110950		<0.05	<0.05	NA	< 0.05	115%	50%	140%	91%	50%	140%	104%	50%	140%
Vinyl Chloride	5110950		<0.02	<0.02	NA	< 0.02	89%	50%	140%	84%	50%	140%	89%	50%	140%
Bromomethane	5110950		<0.05	<0.05	NA	< 0.05	70%	50%	140%	76%	50%	140%	70%	50%	140%
Trichlorofluoromethane	5110950		<0.05	<0.05	NA	< 0.05	87%	50%	140%	102%	50%	140%	102%	50%	140%
Acetone	5110950		<0.50	<0.50	NA	< 0.50	101%	50%	140%	100%	50%	140%	85%	50%	140%
1,1-Dichloroethylene	5110950		<0.05	<0.05	NA	< 0.05	89%	50%	140%	98%	60%	130%	99%	50%	140%
Methylene Chloride	5110950		<0.05	<0.05	NA	< 0.05	85%	50%	140%	75%	60%	130%	83%	50%	140%
Trans- 1,2-Dichloroethylene	5110950		<0.05	<0.05	NA	< 0.05	107%	50%	140%	108%	60%	130%	106%	50%	140%
Methyl tert-butyl Ether	5110950		<0.05	<0.05	NA	< 0.05	90%	50%	140%	87%	60%	130%	84%	50%	140%
1,1-Dichloroethane	5110950		<0.02	<0.02	NA	< 0.02	103%	50%	140%	111%	60%	130%	115%	50%	140%
Methyl Ethyl Ketone	5110950		<0.50	<0.50	NA	< 0.50	86%	50%	140%	105%	50%	140%	105%	50%	140%
Cis- 1,2-Dichloroethylene	5110950		<0.02	<0.02	NA	< 0.02	97%	50%	140%	112%	60%	130%	96%	50%	140%
Chloroform	5110950		<0.04	<0.04	NA	< 0.04	102%	50%	140%	115%	60%	130%	107%	50%	140%
1,2-Dichloroethane	5110950		<0.03	<0.03	NA	< 0.03	99%	50%	140%	98%	60%	130%	104%	50%	140%
1,1,1-Trichloroethane	5110950		<0.05	<0.05	NA	< 0.05	102%	50%	140%	88%	60%	130%	107%	50%	140%
Carbon Tetrachloride	5110950		<0.05	<0.05	NA	< 0.05	110%	50%	140%	90%	60%	130%	110%	50%	140%
Benzene	5110950		<0.02	<0.02	NA	< 0.02	112%	50%	140%	100%	60%	130%	114%	50%	140%
1,2-Dichloropropane	5110950		<0.03	<0.03	NA	< 0.03	112%	50%	140%	96%	60%	130%	113%	50%	140%
Trichloroethylene	5110950		<0.03	<0.03	NA	< 0.03	113%	50%	140%	97%	60%	130%	116%	50%	140%
Bromodichloromethane	5110950		<0.05	<0.05	NA	< 0.05	104%	50%	140%	90%	60%	130%	105%	50%	140%
Methyl Isobutyl Ketone	5110950		<0.50	<0.50	NA	< 0.50	110%	50%	140%	106%	50%	140%	95%	50%	140%
1,1,2-Trichloroethane	5110950		<0.04	<0.04	NA	< 0.04	119%	50%	140%	118%	60%	130%	107%	50%	140%
Toluene	5110950		<0.05	<0.05	NA	< 0.05	109%	50%	140%	96%	60%	130%	111%	50%	140%
Dibromochloromethane	5110950		<0.05	<0.05	NA	< 0.05	104%	50%	140%	110%	60%	130%	98%	50%	140%
Ethylene Dibromide	5110950		<0.04	<0.04	NA	< 0.04	102%	50%	140%	118%	60%	130%	95%	50%	140%
Tetrachloroethylene	5110950		<0.05	<0.05	NA	< 0.05	100%	50%	140%	95%	60%	130%	92%	50%	140%
1,1,1,2-Tetrachloroethane	5110950		<0.04	<0.04	NA	< 0.04	102%	50%	140%	76%	60%	130%	112%	50%	140%
Chlorobenzene	5110950		<0.05	<0.05	NA	< 0.05	106%	50%	140%	101%	60%	130%	104%	50%	140%
Ethylbenzene	5110950		<0.05	<0.05	NA	< 0.05	101%	50%	140%	96%	60%	130%	97%	50%	140%
m & p-Xylene	5110950		<0.05	<0.05	NA	< 0.05	115%	50%	140%	97%	60%	130%	114%	50%	140%
Bromoform	5110950		<0.05	<0.05	NA	< 0.05	103%	50%	140%	96%	60%	130%	106%	50%	140%
Styrene	5110950		<0.05	<0.05	NA	< 0.05	112%	50%	140%	101%	60%	130%	108%	50%	140%
1,1,2,2-Tetrachloroethane	5110950		<0.05	<0.05	NA	< 0.05	95%	50%	140%	104%	60%	130%	98%	50%	140%
o-Xylene	5110950		<0.05	<0.05	NA	< 0.05	91%	50%	140%	110%	60%	130%	106%	50%	140%

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 23T042364
PROJECT: 300044049
ATTENTION TO: Sarah Beney
SAMPLING SITE:Mississauga
SAMPLED BY:Sarah Beney

Trace Organics Analysis (Continued)

RPT Date: Jul 12, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,3-Dichlorobenzene	5110950		<0.05	<0.05	NA	< 0.05	88%	50%	140%	106%	60%	130%	88%	50%	140%
1,4-Dichlorobenzene	5110950		<0.05	<0.05	NA	< 0.05	80%	50%	140%	93%	60%	130%	90%	50%	140%
1,2-Dichlorobenzene	5110950		<0.05	<0.05	NA	< 0.05	89%	50%	140%	97%	60%	130%	96%	50%	140%
n-Hexane	5110950		<0.05	<0.05	NA	< 0.05	117%	50%	140%	88%	60%	130%	94%	50%	140%
O. Reg. 153(511) - OC Pesticides + PCBs (Soil)															
Gamma-Hexachlorocyclohexane	5115138		< 0.005	< 0.005	NA	< 0.005	99%	50%	140%	92%	50%	140%	79%	50%	140%
Heptachlor	5115138		< 0.005	< 0.005	NA	< 0.005	82%	50%	140%	94%	50%	140%	76%	50%	140%
Aldrin	5115138		< 0.005	< 0.005	NA	< 0.005	97%	50%	140%	86%	50%	140%	79%	50%	140%
Heptachlor Epoxide	5115138		< 0.005	< 0.005	NA	< 0.005	104%	50%	140%	87%	50%	140%	86%	50%	140%
Endosulfan I	5115138		< 0.005	< 0.005	NA	< 0.005	106%	50%	140%	86%	50%	140%	80%	50%	140%
Endosulfan II	5115138		< 0.005	< 0.005	NA	< 0.005	107%	50%	140%	86%	50%	140%	86%	50%	140%
Alpha-Chlordane	5115138		< 0.005	< 0.005	NA	< 0.005	104%	50%	140%	88%	50%	140%	84%	50%	140%
gamma-Chlordane	5115138		< 0.005	< 0.005	NA	< 0.005	104%	50%	140%	86%	50%	140%	82%	50%	140%
op'-DDD	5115138		< 0.005	< 0.005	NA	< 0.005	112%	50%	140%	89%	50%	140%	76%	50%	140%
pp'-DDD	5115138		< 0.005	< 0.005	NA	< 0.005	109%	50%	140%	89%	50%	140%	85%	50%	140%
op'-DDE	5115138		< 0.005	< 0.005	NA	< 0.005	107%	50%	140%	85%	50%	140%	79%	50%	140%
pp'-DDE	5115138		< 0.005	< 0.005	NA	< 0.005	102%	50%	140%	90%	50%	140%	78%	50%	140%
op'-DDT	5115138		< 0.005	< 0.005	NA	< 0.005	84%	50%	140%	104%	50%	140%	76%	50%	140%
pp'-DDT	5115138		< 0.005	< 0.005	NA	< 0.005	80%	50%	140%	99%	50%	140%	72%	50%	140%
Dieldrin	5115138		< 0.005	< 0.005	NA	< 0.005	103%	50%	140%	86%	50%	140%	76%	50%	140%
Endrin	5115138		< 0.005	< 0.005	NA	< 0.005	96%	50%	140%	108%	50%	140%	94%	50%	140%
Methoxychlor	5115138		< 0.005	< 0.005	NA	< 0.005	102%	50%	140%	113%	50%	140%	95%	50%	140%
Hexachlorobenzene	5115138		< 0.005	< 0.005	NA	< 0.005	101%	50%	140%	92%	50%	140%	87%	50%	140%
Hexachlorobutadiene	5115138		< 0.01	< 0.01	NA	< 0.01	110%	50%	140%	98%	50%	140%	82%	50%	140%
Hexachloroethane	5115138		< 0.005	< 0.005	NA	< 0.005	85%	50%	140%	86%	50%	140%	77%	50%	140%
Aroclor 1242	5115138		< 0.10	< 0.10	NA	< 0.10	102%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1248	5115138		< 0.10	< 0.10	NA	< 0.10	98%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1254	5115138		< 0.10	< 0.10	NA	< 0.10	104%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1260	5115138		< 0.10	< 0.10	NA	< 0.10	92%	50%	140%	NA	50%	140%	NA	50%	140%
Polychlorinated Biphenyls	5115138		< 0.10	< 0.10	NA	< 0.10	99%	50%	140%	93%	50%	140%	96%	50%	140%
O. Reg. 153(511) - BNA (full) + PAHs (Soil)															
Naphthalene	5114109		< 0.05	< 0.05	NA	< 0.05	78%	50%	140%	105%	50%	140%	105%	50%	140%
Acenaphthylene	5114109		< 0.05	< 0.05	NA	< 0.05	80%	50%	140%	90%	50%	140%	98%	50%	140%
Acenaphthene	5114109		< 0.05	< 0.05	NA	< 0.05	105%	50%	140%	96%	50%	140%	89%	50%	140%
Fluorene	5114109		< 0.05	< 0.05	NA	< 0.05	98%	50%	140%	95%	50%	140%	96%	50%	140%
Phenanthrene	5114109		< 0.05	< 0.05	NA	< 0.05	89%	50%	140%	98%	50%	140%	93%	50%	140%
Anthracene	5114109		< 0.05	< 0.05	NA	< 0.05	96%	50%	140%	78%	50%	140%	92%	50%	140%
Fluoranthene	5114109		< 0.05	< 0.05	NA	< 0.05	90%	50%	140%	80%	50%	140%	105%	50%	140%
Pyrene	5114109		< 0.05	< 0.05	NA	< 0.05	85%	50%	140%	74%	50%	140%	78%	50%	140%

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 23T042364
PROJECT: 300044049
ATTENTION TO: Sarah Beney
SAMPLING SITE:Mississauga
SAMPLED BY:Sarah Beney

Trace Organics Analysis (Continued)

RPT Date: Jul 12, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benz(a)anthracene	5114109		< 0.05	< 0.05	NA	< 0.05	85%	50%	140%	105%	50%	140%	85%	50%	140%
Chrysene	5114109		< 0.05	< 0.05	NA	< 0.05	90%	50%	140%	96%	50%	140%	90%	50%	140%
Benzo(b)fluoranthene	5114109		< 0.05	< 0.05	NA	< 0.05	105%	50%	140%	90%	50%	140%	86%	50%	140%
Benzo(k)fluoranthene	5114109		< 0.05	< 0.05	NA	< 0.05	98%	50%	140%	98%	50%	140%	90%	50%	140%
Benzo(a)pyrene	5114109		< 0.05	< 0.05	NA	< 0.05	89%	50%	140%	78%	50%	140%	98%	50%	140%
Indeno(1,2,3-cd)pyrene	5114109		< 0.05	< 0.05	NA	< 0.05	85%	50%	140%	75%	50%	140%	78%	50%	140%
Dibenzo(a,h)anthracene	5114109		< 0.05	< 0.05	NA	< 0.05	99%	50%	140%	106%	50%	140%	85%	50%	140%
Benzo(g,h,i)perylene	5114109		< 0.05	< 0.05	NA	< 0.05	93%	50%	140%	98%	50%	140%	105%	50%	140%
Phenol	5114109		< 0.5	< 0.5	NA	< 0.5	90%	30%	130%	98%	30%	130%	98%	30%	130%
Bis(2-chloroethyl)ether	5114109		< 0.1	< 0.1	NA	< 0.1	98%	50%	140%	105%	50%	140%	78%	50%	140%
2-Chlorophenol	5114109		< 0.1	< 0.1	NA	< 0.1	85%	50%	140%	87%	50%	140%	85%	50%	140%
o-Cresol	5114109		< 0.1	< 0.1	NA	< 0.1	74%	50%	140%	78%	50%	140%	99%	50%	140%
Bis(2-chloroisopropyl)ether	5114109		< 0.1	< 0.1	NA	< 0.1	80%	50%	140%	85%	50%	140%	82%	50%	140%
m & p - Cresol	5114109		< 0.1	< 0.1	NA	< 0.1	105%	50%	140%	99%	50%	140%	105%	50%	140%
2,4-Dimethylphenol	5114109		< 0.2	< 0.2	NA	< 0.2	98%	30%	130%	86%	30%	130%	98%	30%	130%
2,4-Dichlorophenol	5114109		< 0.1	< 0.1	NA	< 0.1	109%	50%	140%	95%	50%	140%	94%	50%	140%
1,2,4-Trichlorobenzene	5114109		< 0.05	< 0.05	NA	< 0.05	108%	50%	140%	93%	50%	140%	84%	50%	140%
p-Chloroaniline	5114109		< 0.5	< 0.5	NA	< 0.5	110%	30%	130%	71%	30%	130%	86%	30%	130%
2,4,6-Trichlorophenol	5114109		< 0.1	< 0.1	NA	< 0.1	99%	50%	140%	90%	50%	140%	82%	50%	140%
2,4,5-Trichlorophenol	5114109		< 0.1	< 0.1	NA	< 0.1	105%	50%	140%	101%	50%	140%	81%	50%	140%
1,1-Biphenyl	5114109		< 0.05	< 0.05	NA	< 0.05	110%	50%	140%	99%	50%	140%	94%	50%	140%
Dimethyl Phthalate	5114109		< 0.1	< 0.1	NA	< 0.1	103%	50%	140%	104%	50%	140%	94%	50%	140%
Diethyl Phthalate	5114109		< 0.1	< 0.1	NA	< 0.1	109%	50%	140%	73%	50%	140%	84%	50%	140%
Pentachlorophenol	5114109		< 0.1	< 0.1	NA	< 0.1	106%	50%	140%	91%	50%	140%	95%	50%	140%
3,3'-Dichlorobenzidine	5114109		< 0.5	< 0.5	NA	< 0.5	87%	30%	130%	66%	30%	130%	64%	30%	130%
2,4-Dinitrophenol	5114109		< 2.0	< 2.0	NA	< 2.0	76%	30%	130%	95%	30%	130%	112%	30%	130%
Bis(2-Ethylhexyl)phthalate	5114109		< 0.2	< 0.2	NA	< 0.2	101%	50%	140%	67%	50%	140%	80%	50%	140%
O. Reg. 153(511) - PCBs (Soil)															
Polychlorinated Biphenyls	5112608		< 0.1	< 0.1	NA	< 0.1	99%	50%	140%	93%	50%	140%	96%	50%	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: N Popnikolof

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Method Summary

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

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE
Sieve Analysis - 75 µm (retained)	INOR-93-6065	Modified from ASTM D1140-17	SIEVE
Sieve Analysis - 75 µm (passing)	INOR-93-6065	Modified from ASTM D1140-17	SIEVE

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Method Summary

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

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Acenaphthylene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Acenaphthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Fluorene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Phenanthrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benz(a)anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Chrysene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(b)fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(k)fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(a)pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Dibenzo(a,h)anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(g,h,i)perylene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Phenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-chloroethyl)ether	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2-Chlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
o-Cresol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-chloroisopropyl)ether	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
m & p - Cresol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dimethylphenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1,2,4-Trichlorobenzene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
p-Chloroaniline	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	CALCULATION

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Method Summary

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

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
2,4,6-Trichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,5-Trichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1,1-Biphenyl	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Dimethyl Phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4 and 2,6-Dinitrotoluene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	CALCULATION
Diethyl Phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Pentachlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
3,3'-Dichlorobenzidine	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dinitrophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-Ethylhexyl)phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
phenol-d6 surrogate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2-Fluorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,6-Tribromophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Chrysene-d12	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
wet weight BNA	ORG-91-5114		BALANCE
Gamma-Hexachlorocyclohexane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Heptachlor	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Aldrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Heptachlor Epoxide	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan I	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan II	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Alpha-Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
gamma-Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION
op'-DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION

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Method Summary

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

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
op'-DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
op'-DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION
Dieldrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Methoxychlor	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachlorobenzene	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachlorobutadiene	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachloroethane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Aroclor 1242	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1248	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1254	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1260	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
TCMX	ORG-91-5113	modified from EPA SW-846 3541, 3620,8081	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541, 3620,8081	GC/ECD
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
F1 (C6 - C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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Method Summary

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

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

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

AGAT WORK ORDER: 23T042364

PROJECT: 300044049

ATTENTION TO: Sarah Beney

SAMPLING SITE:Mississauga

SAMPLED BY:Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS

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Appendix G

Certificates of Analysis - Groundwater

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CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
15 Townline
Orangeville, ON L9W3R4
(519) 941-5331
ATTENTION TO: Caitlin Dermott
PROJECT: 300044049
AGAT WORK ORDER: 22T878643
TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor
WATER ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer
DATE REPORTED: Apr 07, 2022
PAGES (INCLUDING COVER): 15
VERSION*: 2

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

Notes

VERSION 2:V2 issued 2022-05-02. Sample ID revised from MW4-21 to MW8-22. Supersedes previous version.

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

O. Reg. 153(511) - OC Pesticides + PCBs (Water)

DATE RECEIVED: 2022-03-29

DATE REPORTED: 2022-04-07

		SAMPLE DESCRIPTION:		MW8-22	BH5-21	MW1-21	BH6-21	BH6-21 DUP
		SAMPLE TYPE:		Water	Water	Water	Water	Water
		DATE SAMPLED:		2022-03-29 13:30	2022-03-29 14:00	2022-03-29 14:45	2022-03-29 15:30	2022-03-29 15:30
Parameter	Unit	G / S	RDL	3701987	3701988	3701989	3701990	3701991
Gamma-Hexachlorocyclohexane	ug/L	1.2	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor	ug/L	1.5	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aldrin	ug/L	0.35	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor Epoxide	ug/L	0.048	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Endosulfan I	µg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan II	µg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan	ug/L	1.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
alpha - chlordane	µg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	µg/L		0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlordane	ug/L	7	0.04	<0.04	<0.04	<0.04	<0.04	<0.04
op'-DDE	µg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01
pp'-DDE	µg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DDE	ug/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01
op'-DDD	µg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
pp'-DDD	µg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDD	ug/L	10	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
op'-DDT	µg/L		0.04	<0.04	<0.04	<0.04	<0.04	<0.04
pp'-DDT	µg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDT	ug/L	0.0028	**0.04**	<0.04	<0.04	<0.04	<0.04	<0.04
Dieldrin	ug/L	0.35	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Endrin	ug/L	0.48	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	ug/L	6.5	0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Hexachlorobenzene	ug/L	1	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobutadiene	ug/L	0.6	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachloroethane	ug/L	2.1	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1242	ug/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	ug/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	ug/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	ug/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

O. Reg. 153(511) - OC Pesticides + PCBs (Water)

DATE RECEIVED: 2022-03-29

DATE REPORTED: 2022-04-07

				SAMPLE DESCRIPTION:	MW8-22	BH5-21	MW1-21	BH6-21	BH6-21 DUP
				SAMPLE TYPE:	Water	Water	Water	Water	Water
				DATE SAMPLED:	2022-03-29 13:30	2022-03-29 14:00	2022-03-29 14:45	2022-03-29 15:30	2022-03-29 15:30
Parameter	**Unit**	**G / S**	**RDL**		**3701987**	**3701988**	**3701989**	**3701990**	**3701991**
Polychlorinated Biphenyls	ug/L	3	0.1		<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate	**Unit**	**Acceptable Limits**							
TCMX	%	50-140			80	109	80	113	82
Decachlorobiphenyl	%	50-140			81	117	96	114	86

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured 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.

3701987-3701991 DDT total is a calculated parameter. The calculated value is the sum of op'DDT and pp'DDT.
DDD total is a calculated parameter. The calculated value is the sum of op'DDD and pp'DDD.
DDE total is a calculated parameter. The calculated value is the sum of op'DDE and pp'DDE.
Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.
Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 22T878643

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

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

DATE RECEIVED: 2022-03-29 **DATE REPORTED: 2022-04-07**

				SAMPLE DESCRIPTION:	MW8-22	BH5-21	MW1-21	BH6-21	BH6-21 DUP
				SAMPLE TYPE:	Water	Water	Water	Water	Water
				DATE SAMPLED:	2022-03-29 13:30	2022-03-29 14:00	2022-03-29 14:45	2022-03-29 15:30	2022-03-29 15:30
Parameter	**Unit**	**G / S**	**RDL**		**3701987**	**3701988**	**3701989**	**3701990**	**3701991**
F1 (C6 - 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		NA	NA	NA	NA	NA
Sediment					NO	NO	NO	NO	NO
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	% Recovery	50-140			100	96.2	97.8	93.8	76.0
Terphenyl	%	60-140			96	95	106	102	81

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured 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.

3701987-3701991 The C6-C10 fraction is calculated using Toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and 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 contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 22T878643

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

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

DATE RECEIVED: 2022-03-29

DATE REPORTED: 2022-04-07

		SAMPLE DESCRIPTION:		MW8-22	BH5-21	MW1-21	BH6-21	BH6-21 DUP	Trip Blank
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2022-03-29 13:30	2022-03-29 14:00	2022-03-29 14:45	2022-03-29 15:30	2022-03-29 15:30	2022-03-29
Parameter	Unit	G / S	RDL	3701987	3701988	3701989	3701990	3701991	3701993
Dichlorodifluoromethane	µg/L	590	0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Vinyl Chloride	µg/L	1.7	0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Bromomethane	µg/L	0.89	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	µg/L	150	0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Acetone	µg/L	2700	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	µg/L	14	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methylene Chloride	µg/L	50	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	15	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	5	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methyl Ethyl Ketone	µg/L	1800	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	5	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	200	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Carbon Tetrachloride	µg/L	5.0	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	5.0	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	5	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethylene	µg/L	5	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	16	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	640	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	5	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24	0.20	0.29	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	25	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylene Dibromide	µg/L	0.2	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	1.1	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorobenzene	µg/L	30	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylbenzene	µg/L	2.4	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

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

DATE RECEIVED: 2022-03-29 **DATE REPORTED: 2022-04-07**

				SAMPLE DESCRIPTION:	MW8-22	BH5-21	MW1-21	BH6-21	BH6-21 DUP	Trip Blank
				SAMPLE TYPE:	Water	Water	Water	Water	Water	Water
				DATE SAMPLED:	2022-03-29 13:30	2022-03-29 14:00	2022-03-29 14:45	2022-03-29 15:30	2022-03-29 15:30	2022-03-29
Parameter	**Unit**	**G / S**	**RDL**		**3701987**	**3701988**	**3701989**	**3701990**	**3701991**	**3701993**
m & p-Xylene	µg/L		0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	25	0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Styrene	µg/L	5.4	0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	1	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
1,3-Dichlorobenzene	µg/L	59	0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg/L	1	0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	3	0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichloropropene	µg/L	0.5	0.30		<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Xylenes (Total)	µg/L	300	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			96	96	94	90	86	89
4-Bromofluorobenzene	% Recovery	50-140			84	84	79	90	84	83

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
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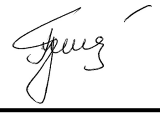
3701987-3701993 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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AGAT WORK ORDER: 22T878643

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2022-03-29

DATE REPORTED: 2022-04-07

		SAMPLE DESCRIPTION:		MW8-22		BH5-21	MW1-21		BH6-21	BH6-21 DUP
		SAMPLE TYPE:		Water		Water	Water		Water	Water
		DATE SAMPLED:		2022-03-29 13:30		2022-03-29 14:00	2022-03-29 14:45		2022-03-29 15:30	2022-03-29 15:30
Parameter	Unit	G / S	RDL	3701987	RDL	3701988	3701989	RDL	3701990	3701991
Dissolved Antimony	µg/L	6	1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	<1.0
Dissolved Arsenic	µg/L	25	1.0	2.3	1.0	<1.0	<1.0	1.0	<1.0	<1.0
Dissolved Barium	µg/L	1000	2.0	214	2.0	286	217	2.0	112	103
Dissolved Beryllium	µg/L	4	0.50	<0.50	0.50	<0.50	<0.50	0.50	<0.50	<0.50
Dissolved Boron	µg/L	5000	10.0	73.0	10.0	90.5	56.4	10.0	105	95.7
Dissolved Cadmium	µg/L	2.7	0.20	<0.20	0.20	<0.20	<0.20	0.20	<0.20	<0.20
Dissolved Chromium	µg/L	50	2.0	<2.0	2.0	<2.0	<2.0	2.0	<2.0	<2.0
Dissolved Cobalt	µg/L	3.8	0.50	<0.50	0.50	<0.50	<0.50	0.50	<0.50	<0.50
Dissolved Copper	µg/L	87	1.0	<1.0	1.0	<1.0	<1.0	1.0	1.2	<1.0
Dissolved Lead	µg/L	10	0.50	<0.50	0.50	<0.50	<0.50	0.50	<0.50	<0.50
Dissolved Molybdenum	µg/L	70	0.50	11.4	0.50	1.54	7.05	0.50	<0.50	<0.50
Dissolved Nickel	µg/L	100	1.0	11.8	1.0	<1.0	1.1	1.0	4.5	3.2
Dissolved Selenium	µg/L	10	1.0	1.1	1.0	<1.0	1.1	1.0	<1.0	2.1
Dissolved Silver	µg/L	1.5	0.20	<0.20	0.20	<0.20	<0.20	0.20	<0.20	<0.20
Dissolved Thallium	µg/L	2	0.30	<0.30	0.30	<0.30	<0.30	0.30	<0.30	<0.30
Dissolved Uranium	µg/L	20	0.50	0.99	0.50	<0.50	1.04	0.50	3.60	3.42
Dissolved Vanadium	µg/L	6.2	0.40	0.71	0.40	0.58	<0.40	0.40	0.70	0.43
Dissolved Zinc	µg/L	1100	5.0	<5.0	5.0	<5.0	13.5	5.0	<5.0	<5.0
Mercury	µg/L	1	0.02	<0.02	0.02	<0.02	<0.02	0.02	<0.02	<0.02
Chromium VI	µg/L	25	2	<2	2	<2	<2	2	<2	<2
Cyanide, Free	µg/L	66	2	<2	2	<2	<2	2	<2	<2
Dissolved Sodium	µg/L	490000	250	27300	50	20800	40200	250	33500	33000
Chloride	µg/L	790000	100	14200	100	5720	18100	100	79700	83600
Electrical Conductivity	uS/cm	NA	2	898	2	692	787	2	1590	1600
pH	pH Units		NA	7.81	NA	7.97	7.91	NA	7.35	7.35

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

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

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2022-03-29 **DATE REPORTED: 2022-04-07**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured 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.

3701987-3701991 Metals analysis completed on a filtered sample.

Dilution required, RDL has been increased accordingly.

Analysis performed at AGAT Toronto (unless marked by *)

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Quality Assurance

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

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

Trace Organics Analysis

RPT Date: Apr 07, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - VOCs (Water)															
Dichlorodifluoromethane	3702359		<0.40	<0.40	NA	< 0.40	101%	50%	140%	107%	50%	140%	101%	50%	140%
Vinyl Chloride	3702359		<0.17	<0.17	NA	< 0.17	107%	50%	140%	88%	50%	140%	113%	50%	140%
Bromomethane	3702359		<0.20	<0.20	NA	< 0.20	108%	50%	140%	109%	50%	140%	83%	50%	140%
Trichlorofluoromethane	3702359		<0.40	<0.40	NA	< 0.40	106%	50%	140%	107%	50%	140%	84%	50%	140%
Acetone	3702359		<1.0	<1.0	NA	< 1.0	102%	50%	140%	104%	50%	140%	103%	50%	140%
1,1-Dichloroethylene	3702359		<0.30	<0.30	NA	< 0.30	113%	50%	140%	96%	60%	130%	108%	50%	140%
Methylene Chloride	3702359		<0.30	<0.30	NA	< 0.30	99%	50%	140%	108%	60%	130%	100%	50%	140%
trans- 1,2-Dichloroethylene	3702359		<0.20	<0.20	NA	< 0.20	83%	50%	140%	99%	60%	130%	92%	50%	140%
Methyl tert-butyl ether	3702359		<0.20	<0.20	NA	< 0.20	91%	50%	140%	107%	60%	130%	97%	50%	140%
1,1-Dichloroethane	3702359		<0.30	<0.30	NA	< 0.30	99%	50%	140%	90%	60%	130%	92%	50%	140%
Methyl Ethyl Ketone	3702359		<1.0	<1.0	NA	< 1.0	101%	50%	140%	100%	50%	140%	103%	50%	140%
cis- 1,2-Dichloroethylene	3702359		<0.20	<0.20	NA	< 0.20	95%	50%	140%	100%	60%	130%	102%	50%	140%
Chloroform	3702359		<0.20	<0.20	NA	< 0.20	101%	50%	140%	109%	60%	130%	115%	50%	140%
1,2-Dichloroethane	3702359		<0.20	<0.20	NA	< 0.20	115%	50%	140%	94%	60%	130%	106%	50%	140%
1,1,1-Trichloroethane	3702359		<0.30	<0.30	NA	< 0.30	94%	50%	140%	105%	60%	130%	97%	50%	140%
Carbon Tetrachloride	3702359		<0.20	<0.20	NA	< 0.20	101%	50%	140%	91%	60%	130%	82%	50%	140%
Benzene	3702359		<0.20	<0.20	NA	< 0.20	104%	50%	140%	99%	60%	130%	79%	50%	140%
1,2-Dichloropropane	3702359		<0.20	<0.20	NA	< 0.20	96%	50%	140%	89%	60%	130%	82%	50%	140%
Trichloroethylene	3702359		<0.20	<0.20	NA	< 0.20	116%	50%	140%	109%	60%	130%	110%	50%	140%
Bromodichloromethane	3702359		<0.20	<0.20	NA	< 0.20	99%	50%	140%	120%	60%	130%	112%	50%	140%
Methyl Isobutyl Ketone	3702359		<1.0	<1.0	NA	< 1.0	104%	50%	140%	97%	50%	140%	101%	50%	140%
1,1,2-Trichloroethane	3702359		<0.20	<0.20	NA	< 0.20	110%	50%	140%	99%	60%	130%	93%	50%	140%
Toluene	3702359		<0.20	<0.20	NA	< 0.20	102%	50%	140%	95%	60%	130%	90%	50%	140%
Dibromochloromethane	3702359		<0.10	<0.10	NA	< 0.10	102%	50%	140%	108%	60%	130%	101%	50%	140%
Ethylene Dibromide	3702359		<0.10	<0.10	NA	< 0.10	86%	50%	140%	93%	60%	130%	85%	50%	140%
Tetrachloroethylene	3702359		<0.20	<0.20	NA	< 0.20	111%	50%	140%	102%	60%	130%	98%	50%	140%
1,1,1,2-Tetrachloroethane	3702359		<0.10	<0.10	NA	< 0.10	98%	50%	140%	106%	60%	130%	93%	50%	140%
Chlorobenzene	3702359		<0.10	<0.10	NA	< 0.10	84%	50%	140%	95%	60%	130%	88%	50%	140%
Ethylbenzene	3702359		<0.10	<0.10	NA	< 0.10	104%	50%	140%	88%	60%	130%	81%	50%	140%
m & p-Xylene	3702359		<0.20	<0.20	NA	< 0.20	108%	50%	140%	103%	60%	130%	95%	50%	140%
Bromoform	3702359		<0.10	<0.10	NA	< 0.10	120%	50%	140%	118%	60%	130%	106%	50%	140%
Styrene	3702359		<0.10	<0.10	NA	< 0.10	76%	50%	140%	76%	60%	130%	75%	50%	140%
1,1,2,2-Tetrachloroethane	3702359		<0.10	<0.10	NA	< 0.10	114%	50%	140%	101%	60%	130%	82%	50%	140%
o-Xylene	3702359		<0.10	<0.10	NA	< 0.10	100%	50%	140%	104%	60%	130%	97%	50%	140%
1,3-Dichlorobenzene	3702359		<0.10	<0.10	NA	< 0.10	107%	50%	140%	116%	60%	130%	103%	50%	140%
1,4-Dichlorobenzene	3702359		<0.10	<0.10	NA	< 0.10	98%	50%	140%	112%	60%	130%	101%	50%	140%
1,2-Dichlorobenzene	3702359		<0.10	<0.10	NA	< 0.10	117%	50%	140%	108%	60%	130%	96%	50%	140%
n-Hexane	3702359		<0.20	<0.20	NA	< 0.20	89%	50%	140%	92%	60%	130%	94%	50%	140%
4-Bromofluorobenzene	3702359		85	86	2.0%	< 1	NA			NA			121%		

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Quality Assurance

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

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

Trace Organics Analysis (Continued)

RPT Date: Apr 07, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	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 - C10)	3701932		<25	<25	NA	< 25	94%	60%	140%	106%	60%	140%	99%	60%	140%
F2 (C10 to C16)	3701862		< 100	< 100	NA	< 100	103%	60%	140%	75%	60%	140%	89%	60%	140%
F3 (C16 to C34)	3701862		< 100	< 100	NA	< 100	104%	60%	140%	69%	60%	140%	98%	60%	140%
F4 (C34 to C50)	3701862		< 100	< 100	NA	< 100	96%	60%	140%	78%	60%	140%	63%	60%	140%
O. Reg. 153(511) - OC Pesticides + PCBs (Water)															
Gamma-Hexachlorocyclohexane	3707229		< 0.01	< 0.01	NA	< 0.01	90%	50%	140%	88%	50%	140%	88%	50%	140%
Heptachlor	3707229		< 0.01	< 0.01	NA	< 0.01	89%	50%	140%	82%	50%	140%	81%	50%	140%
Aldrin	3707229		< 0.01	< 0.01	NA	< 0.01	90%	50%	140%	87%	50%	140%	86%	50%	140%
Heptachlor Epoxide	3707229		< 0.01	< 0.01	NA	< 0.01	93%	50%	140%	80%	50%	140%	77%	50%	140%
Endosulfan I	3707229		< 0.05	< 0.05	NA	< 0.05	98%	50%	140%	78%	50%	140%	77%	50%	140%
Endosulfan II	3707229		< 0.05	< 0.05	NA	< 0.05	98%	50%	140%	85%	50%	140%	70%	50%	140%
alpha - chlordane	3707229		< 0.1	< 0.1	NA	< 0.1	95%	50%	140%	82%	50%	140%	78%	50%	140%
gamma-Chlordane	3707229		< 0.2	< 0.2	NA	< 0.2	96%	50%	140%	85%	50%	140%	77%	50%	140%
op'-DDE	3707229		< 0.01	< 0.01	NA	< 0.01	105%	50%	140%	83%	50%	140%	91%	50%	140%
pp'-DDE	3707229		< 0.01	< 0.01	NA	< 0.01	96%	50%	140%	80%	50%	140%	76%	50%	140%
op'-DDD	3707229		< 0.05	< 0.05	NA	< 0.05	108%	50%	140%	102%	50%	140%	101%	50%	140%
pp'-DDD	3707229		< 0.05	< 0.05	NA	< 0.05	111%	50%	140%	83%	50%	140%	81%	50%	140%
op'-DDT	3707229		< 0.04	< 0.04	NA	< 0.04	89%	50%	140%	90%	50%	140%	97%	50%	140%
pp'-DDT	3707229		< 0.05	< 0.05	NA	< 0.05	85%	50%	140%	91%	50%	140%	78%	50%	140%
Dieldrin	3707229		< 0.02	< 0.02	NA	< 0.02	94%	50%	140%	88%	50%	140%	72%	50%	140%
Endrin	3707229		< 0.05	< 0.05	NA	< 0.05	80%	50%	140%	106%	50%	140%	108%	50%	140%
Methoxychlor	3707229		< 0.04	< 0.04	NA	< 0.04	93%	50%	140%	109%	50%	140%	102%	50%	140%
Hexachlorobenzene	3707229		< 0.01	< 0.01	NA	< 0.01	103%	50%	140%	87%	50%	140%	88%	50%	140%
Hexachlorobutadiene	3707229		< 0.01	< 0.01	NA	< 0.01	84%	50%	140%	79%	50%	140%	79%	50%	140%
Hexachloroethane	3707229		< 0.01	< 0.01	NA	< 0.01	80%	50%	140%	75%	50%	140%	80%	50%	140%
Aroclor 1242	3707229		< 0.1	< 0.1	NA	< 0.1	106%	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1248	3707229		< 0.1	< 0.1	NA	< 0.1	98%	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1254	3707229		< 0.1	< 0.1	NA	< 0.1	104%	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1260	3707229		< 0.1	< 0.1	NA	< 0.1	92%	60%	140%	NA	60%	140%	NA	60%	140%
Polychlorinated Biphenyls	3707229		< 0.1	< 0.1	NA	< 0.1	107%	60%	140%	95%	60%	140%	77%	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:

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 22T878643
PROJECT: 300044049
ATTENTION TO: Caitlin Dermott
SAMPLING SITE:Ninth Line, Mississauga
SAMPLED BY:Caitlin Dermott

Water Analysis

RPT Date: Apr 07, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Water)															
Dissolved Antimony	3703610		1.5	1.3	NA	< 1.0	99%	70%	130%	105%	80%	120%	105%	70%	130%
Dissolved Arsenic	3703610		3.3	2.9	NA	< 1.0	90%	70%	130%	101%	80%	120%	109%	70%	130%
Dissolved Barium	3703610		168	168	0.0%	< 2.0	101%	70%	130%	103%	80%	120%	106%	70%	130%
Dissolved Beryllium	3703610		<0.50	<0.50	NA	< 0.50	104%	70%	130%	116%	80%	120%	110%	70%	130%
Dissolved Boron	3703610		325	331	1.8%	< 10.0	99%	70%	130%	110%	80%	120%	102%	70%	130%
Dissolved Cadmium	3703610		<0.20	<0.20	NA	< 0.20	105%	70%	130%	105%	80%	120%	104%	70%	130%
Dissolved Chromium	3703610		<2.0	<2.0	NA	< 2.0	100%	70%	130%	104%	80%	120%	112%	70%	130%
Dissolved Cobalt	3703610		<0.50	0.52	NA	< 0.50	101%	70%	130%	113%	80%	120%	106%	70%	130%
Dissolved Copper	3703610		<1.0	<1.0	NA	< 1.0	96%	70%	130%	100%	80%	120%	104%	70%	130%
Dissolved Lead	3703610		<0.50	<0.50	NA	< 0.50	98%	70%	130%	105%	80%	120%	100%	70%	130%
Dissolved Molybdenum	3703610		9.89	8.28	17.7%	< 0.50	99%	70%	130%	106%	80%	120%	111%	70%	130%
Dissolved Nickel	3703610		2.6	2.9	NA	< 1.0	99%	70%	130%	114%	80%	120%	105%	70%	130%
Dissolved Selenium	3703610		2.2	2.2	NA	< 1.0	102%	70%	130%	106%	80%	120%	111%	70%	130%
Dissolved Silver	3703610		<0.20	<0.20	NA	< 0.20	96%	70%	130%	110%	80%	120%	102%	70%	130%
Dissolved Thallium	3703610		<0.30	<0.30	NA	< 0.30	101%	70%	130%	106%	80%	120%	103%	70%	130%
Dissolved Uranium	3703610		1.98	1.89	NA	< 0.50	98%	70%	130%	112%	80%	120%	109%	70%	130%
Dissolved Vanadium	3703610		1.47	1.18	NA	< 0.40	99%	70%	130%	111%	80%	120%	107%	70%	130%
Dissolved Zinc	3703610		<5.0	<5.0	NA	< 5.0	100%	70%	130%	99%	80%	120%	111%	70%	130%
Mercury	3689083		<0.02	<0.02	NA	< 0.02	105%	70%	130%	102%	80%	120%	102%	70%	130%
Chromium VI	3698993		<2	<2	NA	< 2	98%	70%	130%	100%	80%	120%	93%	70%	130%
Cyanide, Free	3701910		<2	<2	NA	< 2	96%	70%	130%	110%	80%	120%	119%	70%	130%
Dissolved Sodium	3703610		121000	121000	0.0%	< 50	100%	70%	130%	102%	80%	120%	100%	70%	130%
Chloride	3701991	3701991	83600	82000	1.9%	< 100	94%	70%	130%	104%	80%	120%	107%	70%	130%
Electrical Conductivity	3702058		317	317	0.0%	< 2	98%	90%	110%						
pH	3702058		7.37	7.42	0.7%	NA	102%	90%	110%						

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

O. Reg. 153(511) - Metals & Inorganics (Water)															
Dissolved Sodium	3701988	3701988	20800	20900	0.5%	< 50	101%	70%	130%	102%	80%	120%	96%	70%	130%

Certified By:

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Method Summary

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

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Gamma-Hexachlorocyclohexane	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Heptachlor	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Aldrin	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Heptachlor Epoxide	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Endosulfan I	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Endosulfan II	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Endosulfan	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	CALCULATION
alpha - chlordane	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
gamma-Chlordane	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Chlordane	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	CALCULATION
op'-DDE	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
pp'-DDE	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
DDE	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	CALCULATION
op'-DDD	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
pp'-DDD	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
DDD	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	CALCULATION
op'-DDT	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
pp'-DDT	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
DDT	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	CALCULATION
Dieldrin	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Endrin	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Methoxychlor	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Hexachlorobenzene	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Hexachlorobutadiene	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Hexachloroethane	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Aroclor 1242	ORG-91-5112	modified from EPA SW-846 3510C & 8082A	GC/ECD
Aroclor 1248	ORG-91-5112	modified from EPA SW-846 3510C & 8082A	GC/ECD

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Method Summary

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

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Aroclor 1254	ORG-91-5112	modified from EPA SW-846 3510C & 8082A	GC/ECD
Aroclor 1260	ORG-91-5112	modified from EPA SW-846 3510C & 8082A	GC/ECD
Polychlorinated Biphenyls	ORG-91-5112	modified from EPA SW-846 3510C & 8082A	GC/ECD
TCMX	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Decachlorobiphenyl	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F1 (C6 - C10)	VOL-91- 5010	modified from MOE PHC E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	modified from MOE PHC E3421	(P&T)GC/FID
F2 (C10 to C16)	VOL-91-5010	modified from MOE PHC E3421	GC / FID
F3 (C16 to C34)	VOL-91-5010	modified from MOE PHC E3421	GC / FID
F4 (C34 to C50)	VOL-91-5010	modified from MOE PHC E3421	GC / FID
Gravimetric Heavy Hydrocarbons	VOL-91-5010	modified from MOE PHC E3421	BALANCE
Terphenyl	VOL-91-5009	modified from MOE PHC E3421	GC/FID
Sediment			
Dichlorodifluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
trans- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl tert-butyl ether	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
cis- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

AGAT Laboratories

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

Method Summary

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

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichloropropane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

AGAT Laboratories

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http://www.agatlabs.com

Method Summary

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

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Dissolved Antimony	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Arsenic	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Barium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Beryllium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Boron	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cadmium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Chromium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cobalt	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Copper	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Lead	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Molybdenum	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Nickel	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Selenium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Silver	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Thallium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Uranium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Vanadium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Zinc	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Mercury	MET-93-6100	modified from EPA 245.2 and SM 3112 B	CVAAS
Chromium VI	INOR-93-6073	modified from SM 3500-CR B	LACHAT FIA
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER
Dissolved Sodium	MET-93-6105	modified from EPA 6010D	ICP/OES
Chloride	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
Electrical Conductivity	INOR-93-6000	SM 2510 B	PC TITRATE
pH	INOR-93-6000	modified from SM 4500-H+ B	PC TITRATE

BURNSIDE

[THE DIFFERENCE IS OUR PEOPLE]

Appendix H

Watershed and Surface Water Flow Maps

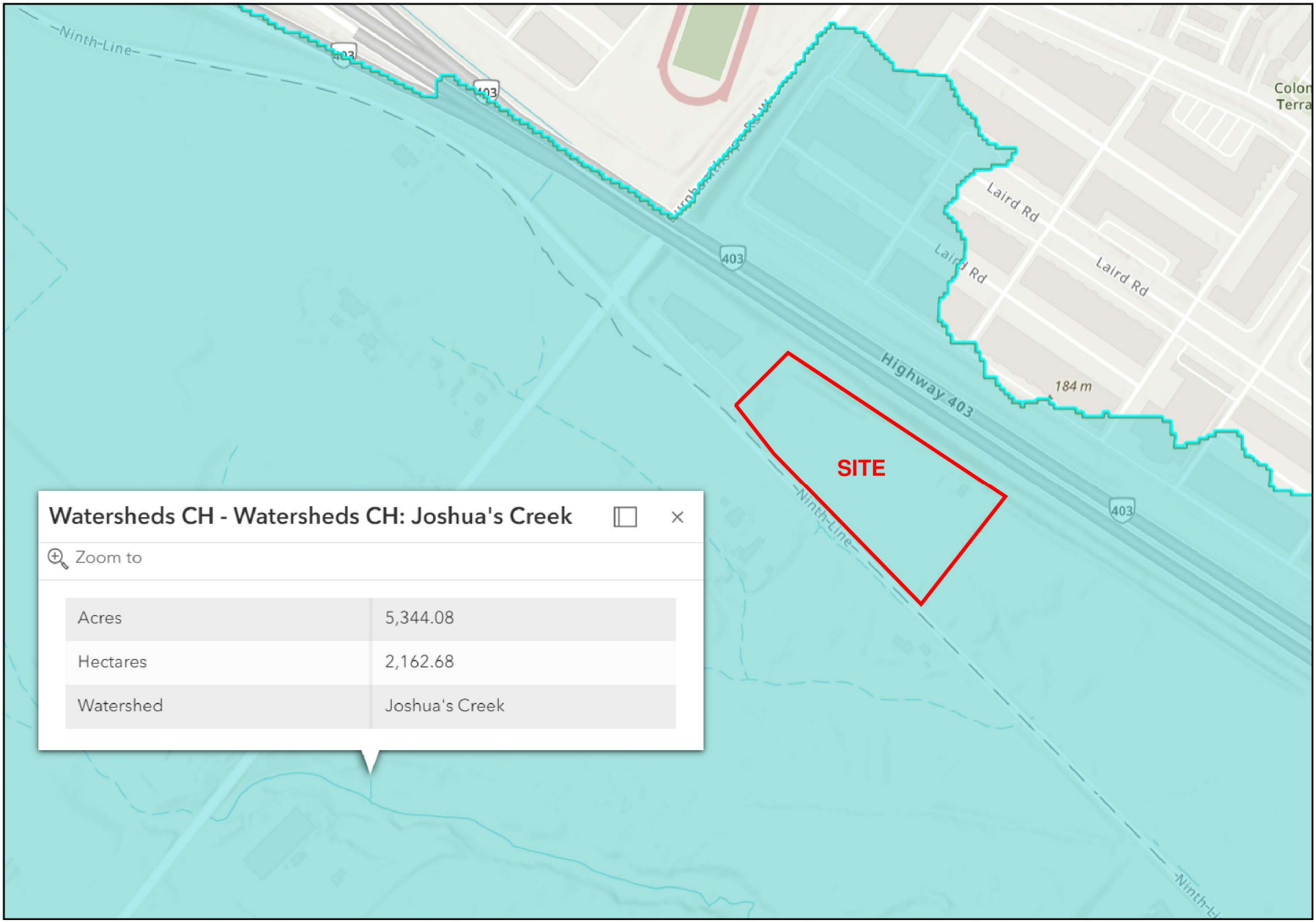
WATERSHED MAP - Ninth Line and Burnhamthorpe Road area

OWB Main – All Watershed Units: 029A-000000

OGF ID	135167387
Primary Watershed Name	Great Lakes - St. Lawrence River
Secondary Watershed Name	Lake Ontario
Tertiary Watershed Name	West Lake Ontario Shoreline
Quaternary Watershed Name	
Fifth-Level Watershed Name	
Sixth-Level Watershed Name	
Primary Watershed Code	02

Ontario Watershed Boundaries (OWB)

WATERSHED MAP - Joshua's Creek Watershed, Conservation Halton



SURFACE FLOW MAP - Ninth Line and Burnhamthorpe Road area

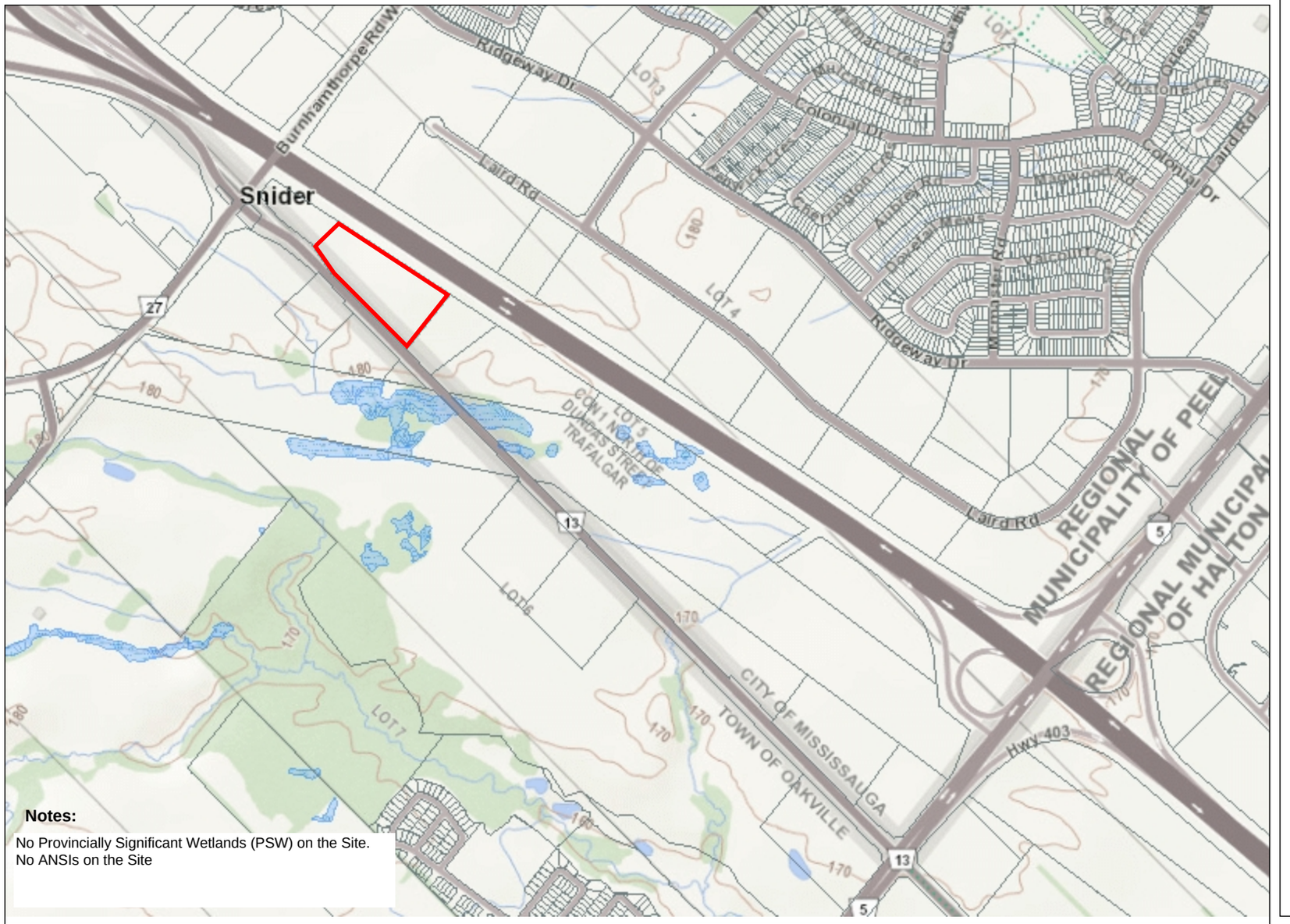
Ontario

Ministry of Natural Resources and Forestry

Make-a-Map: Natural Heritage Areas

Ninth Line Site Location

No PSWs or ANSIs on the Site



Notes:

No Provincially Significant Wetlands (PSW) on the Site.
No ANSIs on the Site

Legend

- Assessment Parcel
- Approximate Site Boundary

ANSI

- Earth Science Provincially Significant
- Earth Science Regionally Significant
- Life Science Provincially Significant
- Life Science Regionally Significant

Evaluated Wetland

- Provincially Significant
- Non-Provincially Significant

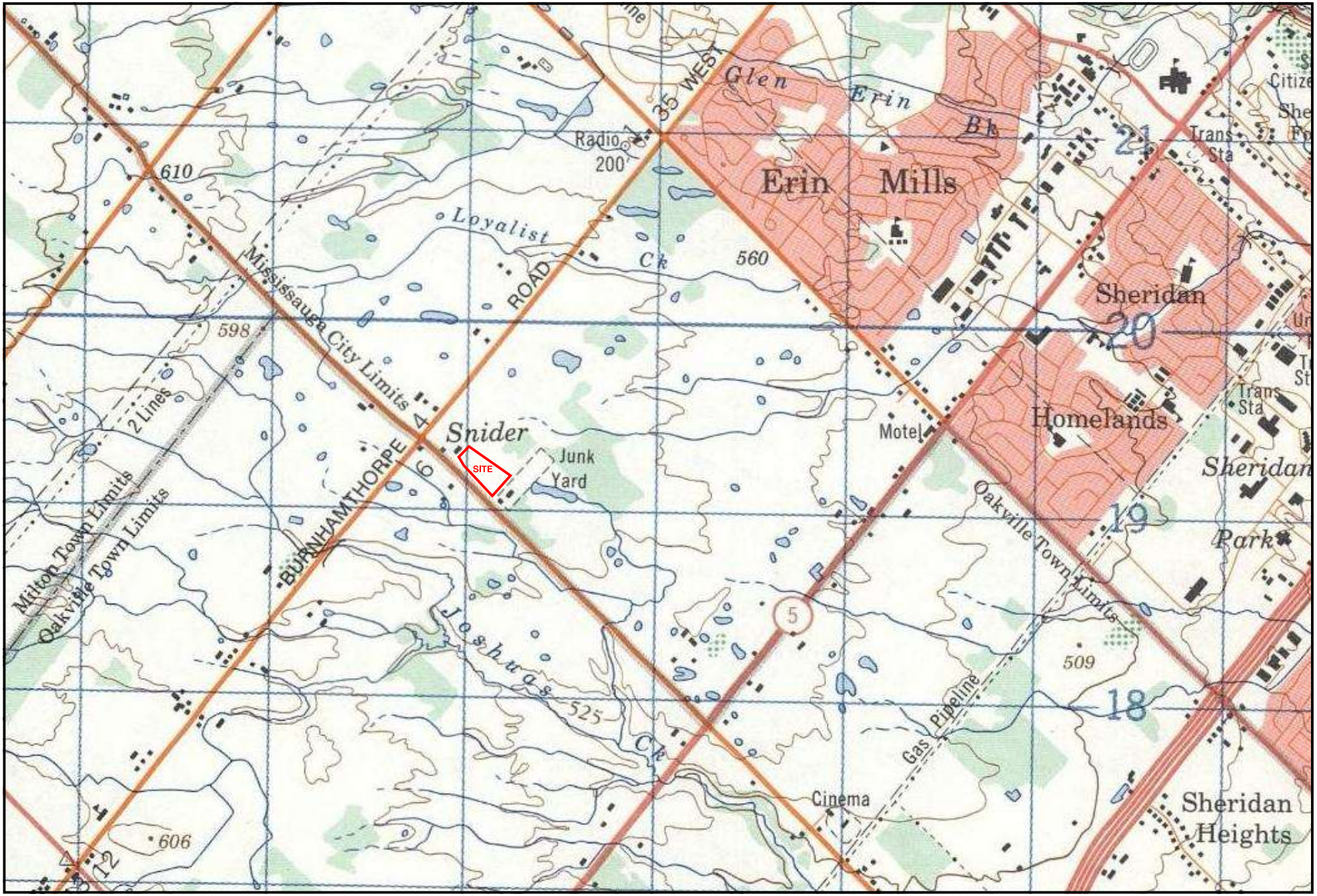
- Unevaluated Wetland

0.7 0 0.34 0.7 Kilometres

Absence of a feature in the map does not mean they do not exist in this area.

This map should not be relied on as a precise indicator of routes or locations, nor as a guide to navigation. The Ontario Ministry of Natural Resources and Forestry(OMNRF) shall not be liable in any way for the use of, or reliance upon, this map or any information on this map.

Snider Junkyard was southeast of the Site in 1979

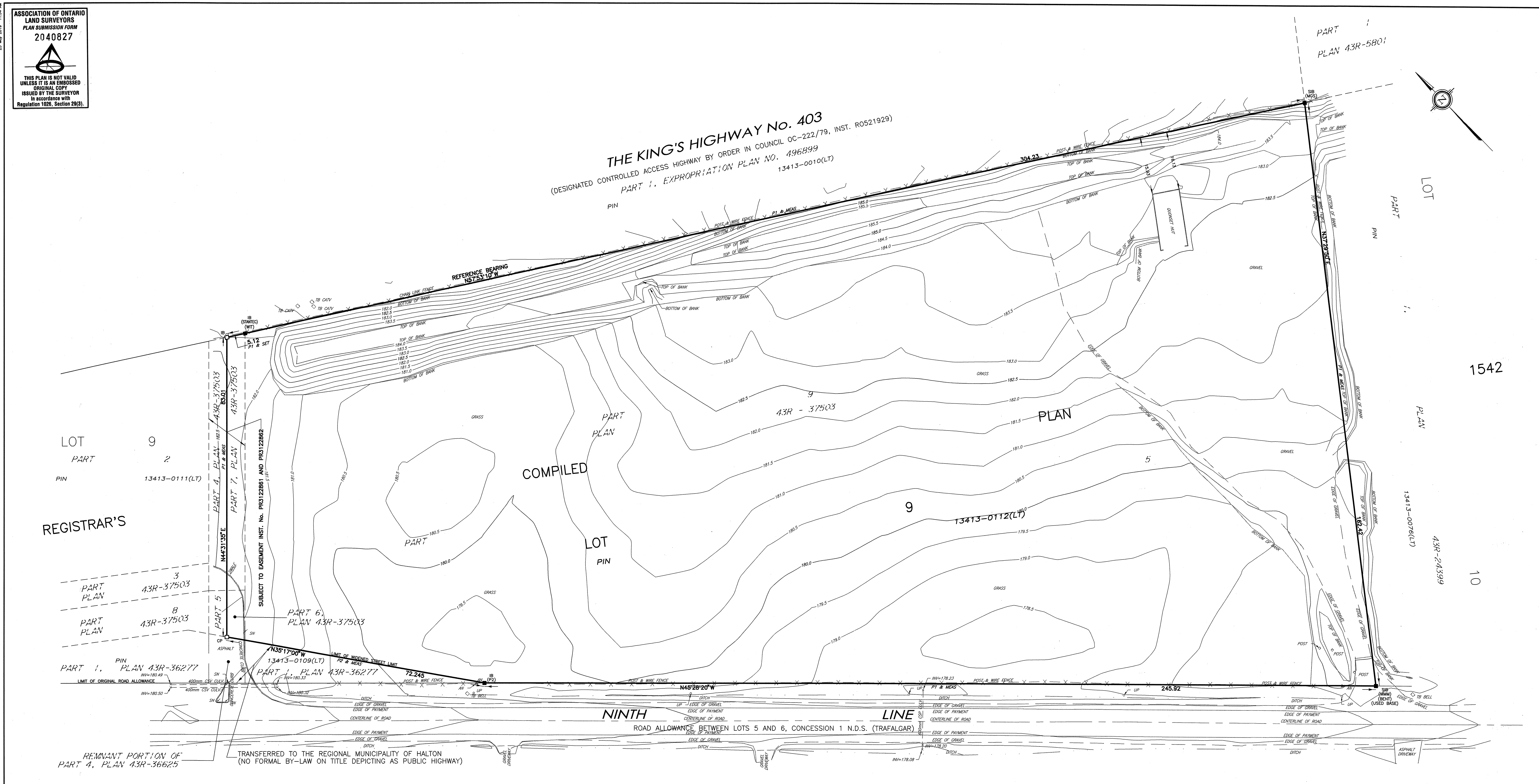


Note: Elevation units are in Feet above Mean Sea Level. Elevation contour interval is 25 feet.

Map Reference: Brampton Ontario. 1:50,000. Map Sheet 030M12, ed. 5, 1979. Natural Resources Canada (NRCan).

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
2040827

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR In accordance with Regulation 1026, Section 29(3).



SURVEYOR'S CERTIFICATE

I CERTIFY THAT :

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 7TH DAY OF MAY, 2019.

May 23, 2019
DATE

S. SINNIS
ONTARIO LAND SURVEYOR

LEGEND

Symbol		Description
■	DENOTES	FOUND MONUMENTS
□	"	SET MONUMENTS
IB	"	IRON BAR
IBø	"	ROUND IRON BAR
SIB	"	STANDARD IRON BAR
SSIB	"	SHORT STANDARD IRON BAR
P1	"	PLAN 43R-37503
P2	"	PLAN 43R-36277
BM	"	BENCHMARK
CM	"	CONCRETE MONUMENT
HCM	"	HORIZONTAL CONTROL MONUMENT
NW	"	NAIL AND WASHER
WIT	"	WITNESS
PIN	"	PROPERTY IDENTIFICATION NUMBER
MEAS	"	MEASURED
PROP	"	PROPORTIONED
OU	"	ORIGIN UNKNOWN
MGS	"	MINISTRY OF GOVERNMENT SERVICES
MMM	"	MARSHALL, MACKLIN & MONAGHAN
STANTEC	"	STANTEC GEOMATICS LTD.

LEGEND

Symbol		Description
ACU	"	AIR CONDITIONING UNIT
AN	"	ANCHOR
AP	"	AIR PUMP
ANT	"	ANTENNA
BH	"	BOREHOLE
BIB	"	HOSE BIB
BKR	"	BIKE RACK
BENCH	"	BENCH
BOL	"	BOLLARD
BOUL	"	BOULDER
CB	"	CATCH BASIN
DCB	"	DOUBLE CB
CBMH	"	CB MANHOLE
DCBMH	"	DOUBLE CB MANHOLE
SICB	"	SIDE INLET CB
CHM	"	CHIMNEY
CSV	"	CURB STOP VALVE
CO	"	CLEAN OUT
DRN	"	DRAIN
EPOST	"	ELECTRICAL OUTLET
FP	"	FLAG POLE

LEGEND

Symbol		Description
FL	"	FLOOD LIGHT
FTF	"	FUEL TANK FILLER CAP
GC	"	GARBAGE CAN
GFL	"	PIPE FLANGE (GAS)
GFP	"	GAS FUEL PUMP
GP	"	POLE GUYWIRE
GSR	"	GAS SERVICE REGULATOR
GV	"	GAS VALVE
HIC	"	HICKENBOTTOM
HDS	"	HEADSTONE
HLS	"	HYDRO LIGHT STANDARD
HM	"	HYDRO METER
HTN	"	HYDRO TRANSFORMER
HW	"	HAND WELL
HYD	"	FIRE HYDRANT
JBX	"	JUNCTION BOX
LS	"	LIGHT STANDARD
MB	"	MAILBOX
MH	"	MAINTENANCE HOLE UNIDENTIFIED
MHB	"	MAINTENANCE HOLE BELL
MHF	"	MAINTENANCE HOLE FIBRE OPTIC

LEGEND

Symbol		Description
MHH	"	MAINTENANCE HOLE HYDRO
MHSA	"	MAINTENANCE HOLE SANITARY
MHST	"	MAINTENANCE HOLE STORM
MHT	"	MAINTENANCE HOLE TRAFFIC
MW	"	MONITORING WELL
NPB	"	NEWS PAPER BOX
OLS	"	LIGHT STANDARD ORNAMENTAL
OW	"	OBSERVATION WELL
PKM	"	PARKING METER
PLBX	"	PULL BOX
PLQ	"	PLAQUE
PLR	"	PILLAR
PZ	"	PIEZIOMETER
RLC	"	RED LIGHT CAMERA
RWSL	"	RAILWAY SIGNAL LIGHT
RWSS	"	RAILWAY SWITCH STAND
SAT	"	SATELLITE DISH
SCLP	"	SCULPTURE
SCP	"	SUMP/CATCH PIT
SCV	"	SPRINKLER CONTROL VALVE
SH	"	SPRINKLER HEAD

LEGEND

Symbol		Description
SIA	"	SIAMESE CONNECTION
SN	"	SIGN
SPAN	"	SOLAR PANEL
SPT	"	SEPTIC TANK LID
TBL	"	TABLE
TB BELL	"	TERMINAL BOX - BELL
TB CATV	"	TERMINAL BOX - CABLE
TCB	"	TRAFFIC CONTROL BOX
TPIT	"	TEST PIT
TSL	"	TRAFFIC SIGNAL LIGHT
UMB	"	MARKER BELL UNDERGROUND
UMC	"	MARKER CABLE UNDERGROUND
UMG	"	MARKER GAS UNDERGROUND
UMO	"	MARKER OIL UNDERGROUND
UP	"	UTILITY POLE
VB	"	VALVE BOX
VC	"	VALVE CHAMBER
WV	"	WATER VALVE
	"	TREE STUMP
	"	TREE CONIFEROUS (D.B.H. SHOWN)
	"	TREE DECIDUOUS (D.B.H. SHOWN)

Stantec

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300W-675 Cochrane Drive
Markham ON
Tel. (905) 944-7777
www.stantec.com

METRIC CONVERSION

DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

BEARING NOTE

BEARINGS ARE GRID AND ARE REFERRED TO THE NORTHERLY LIMIT OF PART 5, AS SHOWN ON PLAN 43R-37503 BEARING OF N57°53'10"W.

VERTICAL DATUM NOTE

ELEVATIONS ARE REFERRED TO THE CANADIAN GEODETIC VERTICAL DATUM (CGVD-1928: PRE 1978) AND ARE DERIVED FROM CITY OF MISSISSAUGA BENCHMARK MONUMENT No. 1065, HAVING A PUBLISHED ELEVATION OF 178.912 METRES.

HORIZONTAL DATUM NOTE

PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (UTM, ZONE 17, CM81°00'W)
DATUM: NAD 83 (CSRS)(2010.0)

THIS PLAN MAY BE CONVERTED TO GROUND BY DIVIDING BY A COMBINED SCALE FACTOR OF 0.999710.

TOPOGRAPHIC PLAN OF SURVEY OF

PART OF LOT 9 REGISTRAR'S COMPILED PLAN 1542

CITY OF MISSASSUGA
REGIONAL MUNICIPALITY OF PEEL

Scale 1:500
10 0 10 20 30 METRES

Stantec Geomatics Ltd.
ONTARIO LAND SURVEYORS

REVISED: May 23, 2019 - ADDITIONAL TOPO/ MONUMENTS SET
DRAWN: BDC DATE: FEBRUARY 28, 2019 PROJECT No.: 161670138